

California Arbovirus Surveillance Bulletin #22

Week 30 Friday, July 31, 2015



Weekly Update

Humans

Seven new human cases of West Nile virus (WNV) illness were reported this week from the following four counties: Butte (3), Glenn (1), Los Angeles (1), and Tulare (2). As of July 29, 2015, a total of eight human cases of WNV illness have been reported to the California Department of Public Health from five counties. Of the eight case-patients, seven (88%) had neuroinvasive illness. The median age of the eight individuals is 53 years (range: 5-91 years); six (75%) are male. Dates of symptom onset ranged from May 15 to July 18. One WNV-related fatality has been reported to CDPH. In addition, two asymptomatic WNV-positive blood donors have been reported this year from Butte County. At this time last year, 15 WNV cases had been reported from six counties.

Dead Birds

A total of 54 WNV positive dead birds were reported this week from the following 18 counties: Butte (9), Humboldt (1), Lake (2), Los Angeles (1), Nevada (1), Placer (3), Riverside (7), Sacramento (6), San Diego (3), San Joaquin (1), San Mateo (3), Santa Clara (4), Sonoma (1), Sutter (1), Trinity (1), Tulare (2), Ventura (1), and Yolo (7). **This is the first detection of WNV from Trinity County this year, and the first WNV positive bird from Lake and Nevada Counties this year.** In 2015, 301 birds have tested positive for WNV from 34 counties. At this time last year, 872 WNV positive birds had been detected in 33 counties.

Mosquito Pools

A total of 302 WNV positive mosquito pools were reported this week from the following 20 counties: Butte (22), Fresno (1), Kern (43), Kings (12), Lake (1), Los Angeles (4), Merced (1), Placer (15), Riverside (6), Sacramento (13), San Joaquin (26), San Mateo (2), Santa Clara (1), Shasta (14), Sonoma (3), Stanislaus (3), Sutter (7), Tulare (88), Yolo (37), and Yuba (3). **These are the first WNV positive mosquito pools detected in San Mateo County this year.** In 2015, 1,056 WNV positive mosquito pools have been reported from 27 counties. At this time last year, 978 WNV positive mosquito pools had been detected from 27 counties.

Sentinel Chickens

Two WNV seroconversions were reported this week from Los Angeles (1) and Placer (1) counties; **this is the first WNV positive chicken detected in Los Angeles County this year.** In 2015, 45 WNV seroconversions have been detected among 16 flocks located in 9 counties. At this time last year, 39 WNV positive chickens had been reported from 10 counties.

California Arbovirus Surveillance Bulletin #22

Week 30 Friday, July 31, 2015

YTD Activity by Element and County, 2015				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		5	2	
Butte	3	17	67	18
Colusa		3		
Contra Costa		2	2	2
El Dorado		1		
Fresno			14	
Glenn	1	3	18	3
Humboldt		2		
Kern		1	76	
Kings		1	30	
Lake		2	8	
Los Angeles	1	3	16	1
Madera		1		
Marin		1		
Merced		1	3	
Nevada	1	1		
Orange		5	21	
Placer		4	33	3
Riverside		16	81	
Sacramento		27	42	
San Bernardino		1	37	2
San Diego		65	6	
San Joaquin		7	84	
San Mateo		7	2	
Santa Barbara			1	
Santa Clara		49	2	
Shasta		3	23	2
Solano		4		
Sonoma		3	8	
Stanislaus		8	12	
Sutter		10	40	7
Trinity		1		
Tulare	2	18	334	
Ventura		2		
Yolo		23	75	
Yuba		4	21	7
Totals	8	301	1,058	45

California Arbovirus Surveillance Bulletin #22

Week 30 Friday, July 31, 2015

2014 & 2015 YTD West Nile Virus Comparisons		
	2014	2015
Total # Dead Bird Reports	7,037	6,168
# Positive Counties	35	36
# Human Cases	15	8
# Positive Dead Birds / # Tested	872 / 1,785	301 / 1,495
# Positive Mosquito Pools / # Tested	978 / 13,812	1,058 / 16,620
# Seroconversions / # Tested	39 / 7,819	45 / 7,093

TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	7	0	0
	YTD	8	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	87	54
	YTD	1,495	301

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	453	2	0	0
	YTD	7,093	45	0	0
Mosquito Pools	Week	1,837	302	0	0
	YTD	16,620	1,058	0	0

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Butte	Butte Co MVCD	Chico	95926	American Crow	7/23/2015	WNV
Butte	Butte Co MVCD	Chico	95926	Unknown-hawk	7/23/2015	WNV
Butte	Butte Co MVCD	Chico	95926	Western Scrub-Jay	7/27/2015	WNV
Butte	Butte Co MVCD	Chico	95926	Woodpecker	7/20/2015	WNV
Butte	Butte Co MVCD	Chico	95928	Western Scrub-Jay	7/21/2015	WNV
Butte	Butte Co MVCD	Gridley	95948	Unknown	7/27/2015	WNV
Butte	Butte Co MVCD	Paradise	95969	Western Scrub-Jay	7/21/2015	WNV
Butte	Butte Co MVCD	Paradise	95969	Western Scrub-Jay	7/22/2015	WNV
Butte	Butte Co MVCD	Paradise	95969	Western Scrub-Jay	7/27/2015	WNV
Humboldt	Humboldt Co Env Health	Eureka	95501	American Goldfinch	7/23/2015	WNV
Lake	Lake Co VCD	Clearlake	95422	American Crow	7/24/2015	WNV

California Arbovirus Surveillance Bulletin #22

Week 30 Friday, July 31, 2015

Lake	Lake Co VCD	Nice	95464	American Crow	7/28/2015	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	North Hollywood	91601	American Crow	7/27/2015	WNV
Nevada	Nevada Co Env Health - Nevada City	Penn Valley	95946	American Crow	7/20/2015	WNV
Placer	Placer MVCD	Lincoln	95648	Yellow-billed Magpie	7/27/2015	WNV
Placer	Placer MVCD	Newcastle	95658	American Crow	7/28/2015	WNV
Placer	Placer MVCD	Roseville	95678	American Crow	7/27/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/12/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/12/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/12/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/12/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/13/2015	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	7/13/2015	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	7/13/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	7/28/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	Western Scrub-Jay	7/26/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	7/24/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/29/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Folsom	95630	Western Scrub-Jay	7/28/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	7/28/2015	WNV
San Diego	San Diego Co VCP	Lemon Grove	91945	American Crow	7/23/2015	WNV
San Diego	San Diego Co VCP	Oceanside	92054	American Crow	7/23/2015	WNV
San Diego	San Diego Co VCP	San Diego	92107	Western Scrub-Jay	7/28/2015	WNV
San Joaquin	San Joaquin Co MVCD	Tracy	95376	Western Scrub-Jay	7/28/2015	WNV
San Mateo	San Mateo Co MAD	Menlo Park	94025	American Crow	7/26/2015	WNV
San Mateo	San Mateo Co MAD	Menlo Park	94025	American Crow	7/27/2015	WNV
San Mateo	San Mateo Co MAD	Redwood City	94062	American Crow	7/26/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	American Crow	7/23/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	American Crow	7/23/2015	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	7/21/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95127	American Crow	7/23/2015	WNV
Sonoma	Marin-Sonoma MVCD	Rohnert Park	94928	American Crow	7/24/2015	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	American Crow	7/28/2015	WNV
Trinity	Trinity Env. Health	Weaverville	96093	Unknown	7/24/2015	WNV
Tulare	Delta VCD	Visalia	93291	Western Scrub-Jay	7/23/2015	WNV
Tulare	Delta VCD	Visalia	93292	Scarlett Chested Parakeet	7/22/2015	WNV
Ventura	City Of Moorpark VCD	Moorpark	93021	Yellow Warbler	7/23/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/29/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Western Scrub-Jay	7/28/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Red-tailed Hawk	7/25/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/25/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/26/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Yellow-billed Magpie	7/26/2015	WNV
Yolo	Sacramento-Yolo MVCD	Rumsey	95679	Western Scrub-Jay	7/24/2015	WNV

Mosquitoes

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO114	223	Cx. tarsalis	Oroville	50	CO2	7/28/2015	WNV
Butte	BUCO114	224	Cx. tarsalis	Oroville	50	CO2	7/28/2015	WNV
Butte	BUCO114	227	Cx. erythrothorax	Oroville	50	CO2	7/28/2015	WNV
Butte	BUCO14	210	Cx. tarsalis	Chico	50	CO2	7/22/2015	WNV
Butte	BUCO14	211	Cx. tarsalis	Chico	50	CO2	7/22/2015	WNV
Butte	BUCO14	212	Cx. tarsalis	Chico	50	CO2	7/22/2015	WNV
Butte	BUCO14	213	Cx. tarsalis	Chico	50	CO2	7/22/2015	WNV

California Arbovirus Surveillance Bulletin #22

Week 30 Friday, July 31, 2015

Butte	BUCO34	233	Cx. tarsalis	Richvale	50	CO2	7/28/2015	WNV
Butte	BUCO34	234	Cx. tarsalis	Richvale	50	CO2	7/28/2015	WNV
Butte	BUCO34	236	Cx. tarsalis	Richvale	50	CO2	7/28/2015	WNV
Butte	BUCO34	237	Cx. tarsalis	Richvale	50	CO2	7/28/2015	WNV
Butte	BUCO38	218	Cx. tarsalis	Oroville	50	CO2	7/22/2015	WNV
Butte	BUCO38	221	Cx. tarsalis	Oroville	50	CO2	7/22/2015	WNV
Butte	BUCO38	222	Cx. tarsalis	Oroville	50	CO2	7/22/2015	WNV
Butte	BUCO55	214	Cx. tarsalis	Palermo	50	CO2	7/22/2015	WNV
Butte	BUCO55	215	Cx. tarsalis	Palermo	50	CO2	7/22/2015	WNV
Butte	BUCO55	217	Cx. tarsalis	Palermo	50	CO2	7/22/2015	WNV
Butte	BUCO84	228	Cx. tarsalis	Nelson	50	CO2	7/28/2015	WNV
Butte	BUCO84	229	Cx. tarsalis	Nelson	50	CO2	7/28/2015	WNV
Butte	BUCO84	230	Cx. tarsalis	Nelson	50	CO2	7/28/2015	WNV
Butte	BUCO84	231	Cx. tarsalis	Nelson	50	CO2	7/28/2015	WNV
Butte	BUCO84	232	Cx. tarsalis	Nelson	50	CO2	7/28/2015	WNV
Fresno	FRNO88	60	Cx. quinquefasciatus	Fresno	50	GRVD	7/28/2015	WNV
Kern	KERN111	362	Cx. quinquefasciatus	Arvin	50	CO2	7/21/2015	WNV
Kern	KERN1114	312	Cx. quinquefasciatus	Bakersfield	50	CO2	7/14/2015	WNV
Kern	KERN1137	349	Cx. tarsalis	Bakersfield	50	CO2	7/17/2015	WNV
Kern	KERN114	313	Cx. quinquefasciatus	Bakersfield	50	CO2	7/14/2015	WNV
Kern	KERN115	307	Cx. quinquefasciatus	Bakersfield	50	CO2	7/14/2015	WNV
Kern	KERN1156	309	Cx. quinquefasciatus	Arvin	34	CO2	7/14/2015	WNV
Kern	KERN117	343	Cx. tarsalis	Bakersfield	50	CO2	7/17/2015	WNV
Kern	KERN118	373	Cx. quinquefasciatus	Buttonwillow	50	CO2	7/22/2015	WNV
Kern	KERN12	340	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/17/2015	WNV
Kern	KERN156	366	Cx. quinquefasciatus	Butttonwillow	50	CO2	7/21/2015	WNV
Kern	KERN2010	322	Cx. quinquefasciatus	Bakersfield	19	GRVD	7/15/2015	WNV
Kern	KERN2011	372	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/22/2015	WNV
Kern	KERN2014	320	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/15/2015	WNV
Kern	KERN2014	369	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/22/2015	WNV
Kern	KERN2015	331	Cx. quinquefasciatus	Bakersfield	39	GRVD	7/16/2015	WNV
Kern	KERN2016	328	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/15/2015	WNV
Kern	KERN2016	371	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/22/2015	WNV
Kern	KERN2022	374	Cx. quinquefasciatus	Shafter	36	GRVD	7/23/2015	WNV
Kern	KERN2027	321	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/15/2015	WNV
Kern	KERN2028	323	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/15/2015	WNV
Kern	KERN2040	305	Cx. quinquefasciatus	Arvin	50	GRVD	7/14/2015	WNV
Kern	KERN2040	355	Cx. quinquefasciatus	Arvin	50	GRVD	7/21/2015	WNV
Kern	KERN2041	358	Cx. quinquefasciatus	Arvin	50	GRVD	7/21/2015	WNV
Kern	KERN2043	301	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/14/2015	WNV
Kern	KERN2049	357	Cx. quinquefasciatus	Lamont	50	GRVD	7/21/2015	WNV
Kern	KERN29	376	Cx. quinquefasciatus	Lamont	50	CO2	7/23/2015	WNV
Kern	KERN3017	329	Cx. quinquefasciatus	Bakersfield	37	CO2	7/15/2015	WNV
Kern	KERN31	360	Cx. quinquefasciatus	Arvin	28	CO2	7/21/2015	WNV
Kern	KERN33	382	Cx. quinquefasciatus	Arvin	50	CO2	7/24/2015	WNV
Kern	KERN42	384	Cx. quinquefasciatus	Bakersfield	50	CO2	7/24/2015	WNV
Kern	KERN42	385	Cx. tarsalis	Bakersfield	50	CO2	7/24/2015	WNV
Kern	KERN45	315	Cx. quinquefasciatus	Buttonwillow	50	CO2	7/14/2015	WNV
Kern	KERN60	367	Cx. quinquefasciatus	Bakersfield	50	CO2	7/21/2015	WNV
Kern	KERN83	310	Cx. quinquefasciatus	Arvin	50	CO2	7/14/2015	WNV
Kern	KERN83	361	Cx. quinquefasciatus	Arvin	50	CO2	7/21/2015	WNV
Kern	WEST6210	34	Cx. tarsalis	Maricopa	50	CO2	7/29/2015	WNV
Kern	WEST6210	35	Cx. tarsalis	Maricopa	50	CO2	7/29/2015	WNV
Kern	WEST6210	36	Cx. tarsalis	Maricopa	50	CO2	7/29/2015	WNV

California Arbovirus Surveillance Bulletin #22

Week 30 Friday, July 31, 2015

Kern	WEST6210	37	Cx. tarsalis	Maricopa	40	CO2	7/29/2015	WNV
Kern	WEST6211	29	Cx. tarsalis	Maricopa	50	CO2	7/29/2015	WNV
Kern	WEST6211	30	Cx. tarsalis	Maricopa	50	CO2	7/29/2015	WNV
Kern	WEST6211	31	Cx. tarsalis	Maricopa	50	CO2	7/29/2015	WNV
Kern	WEST6211	32	Cx. tarsalis	Maricopa	50	CO2	7/29/2015	WNV
Kings	KNGS3025	266	Cx. pipiens	Goshen	50	CO2	7/23/2015	WNV
Kings	KNGS4401	259	Cx. pipiens	Lemoore	14	BGSENT	7/23/2015	WNV
Kings	KNGS4405	258	Cx. pipiens	Lemoore	12	BGSENT	7/23/2015	WNV
Kings	KNGS5510	252	Cx. pipiens	Hanford	45	BGSENT	7/21/2015	WNV
Kings	KNGS5511	268	Cx. tarsalis	Hanford	12	CO2	7/23/2015	WNV
Kings	KNGS5516	260	Cx. tarsalis	Hanford	10	BGSENT	7/24/2015	WNV
Kings	KNGS5516	261	Cx. pipiens	Hanford	50	BGSENT	7/24/2015	WNV
Kings	KNGS5516	262	Cx. pipiens	Hanford	50	BGSENT	7/24/2015	WNV
Kings	KNGS5516	263	Cx. pipiens	Hanford	50	BGSENT	7/24/2015	WNV
Kings	KNGS5516	264	Cx. pipiens	Hanford	42	BGSENT	7/24/2015	WNV
Kings	KNGS5519	249	Cx. pipiens	Hanford	50	BGSENT	7/21/2015	WNV
Kings	KNGS5519	250	Cx. pipiens	Hanford	12	BGSENT	7/21/2015	WNV
Lake	LAKE234	305	Cx. tarsalis	Clearlake Oaks	50	CO2	7/28/2015	WNV
Los Angeles	GRLA2034	5554	Cx. quinquefasciatus	Tarzana	25	GRVD	7/22/2015	WNV
Los Angeles	GRLA2383	464	Cx. quinquefasciatus	Whittier	50	GRVD	7/22/2015	WNV
Los Angeles	GRLA3133	5567	Cx. quinquefasciatus	San Fernando	50	GRVD	7/24/2015	WNV
Los Angeles	SGVA915	206	Cx. quinquefasciatus	San Dimas	1	CO2	7/24/2015	WNV
Merced	MERC611	153	Cx. pipiens	Delhi	8	CO2	7/28/2015	WNV
Placer	PLCR1003	1015	Cx. tarsalis	Lincoln	50	CO2	7/28/2015	WNV
Placer	PLCR1003	1017	Cx. tarsalis	Lincoln	50	CO2	7/28/2015	WNV
Placer	PLCR1023	979	Cx. tarsalis	Roseville	27	CO2	7/28/2015	WNV
Placer	PLCR139	976	Cx. tarsalis	Roseville	50	CO2	7/28/2015	WNV
Placer	PLCR17	1029	Cx. tarsalis	Sheridan	45	CO2	7/28/2015	WNV
Placer	PLCR191218	1005	Cx. tarsalis		50	CO2	7/28/2015	WNV
Placer	PLCR191998	1069	Cx. tarsalis	Lincoln	50	CO2	7/29/2015	WNV
Placer	PLCR191998	1070	Cx. tarsalis	Lincoln	50	CO2	7/29/2015	WNV
Placer	PLCR25	1046	Cx. tarsalis	Lincoln	50	CO2	7/28/2015	WNV
Placer	PLCR30	1035	Cx. pipiens	Lincoln	50	CO2	7/28/2015	WNV
Placer	PLCR30	1043	Cx. pipiens	Lincoln	50	CO2	7/28/2015	WNV
Placer	PLCR525	995	Cx. pipiens	Lincoln	43	CO2	7/28/2015	WNV
Placer	PLCR58	967	Cx. tarsalis	Lincoln	50	CO2	7/28/2015	WNV
Placer	PLCR668	1051	Cx. tarsalis	Elverta	50	CO2	7/28/2015	WNV
Placer	PLCR668	1055	Cx. tarsalis	Elverta	50	CO2	7/28/2015	WNV
Riverside	COAV10	2308	Cx. tarsalis	Thermal	50	CO2	7/28/2015	WNV
Riverside	COAV10	2309	Cx. tarsalis	Thermal	22	CO2	7/28/2015	WNV
Riverside	COAV344	2317	Cx. quinquefasciatus	La Quinta	8	GRVD	7/30/2015	WNV
Riverside	COAV416	2262	Cx. quinquefasciatus	La Quinta	15	CO2	7/28/2015	WNV
Riverside	COAV419	2339	Cx. quinquefasciatus	La Quinta	50	GRVD	7/30/2015	WNV
Riverside	COAV8	2305	Cx. tarsalis	Mecca	50	CO2	7/28/2015	WNV
Sacramento	SAYO202006	2945	Cx. tarsalis	Sacramento	50	CO2	7/30/2015	WNV
Sacramento	SAYO202006	2948	Cx. tarsalis	Sacramento	50	CO2	7/30/2015	WNV
Sacramento	SAYO205003	2936	Cx. pipiens	Orangevale	5	GRVD	7/28/2015	WNV
Sacramento	SAYO212033	2960	Cx. tarsalis	Sacramento	50	CO2	7/30/2015	WNV
Sacramento	SAYO212033	2963	Cx. tarsalis	Sacramento	10	CO2	7/30/2015	WNV
Sacramento	SAYO214013	2937	Cx. tarsalis	Carmichael	12	CO2	7/28/2015	WNV
Sacramento	SAYO233026	2698	Cx. pipiens	Elk Grove	26	GRVD	7/28/2015	WNV
Sacramento	SAYO233039	2724	Cx. tarsalis	Elk Grove	15	CO2	7/28/2015	WNV
Sacramento	SAYO233065	2745	Cx. tarsalis	Elk Grove	16	CO2	7/28/2015	WNV

California Arbovirus Surveillance Bulletin #22

Week 30 Friday, July 31, 2015

Sacramento	SAYO242015	2712	Cx. pipiens	Elk Grove	50	CO2	7/28/2015	WNV
Sacramento	SAYO243016	2686	Cx. tarsalis	Elk Grove	50	CO2	7/28/2015	WNV
Sacramento	SAYO243016	2691	Cx. pipiens	Elk Grove	23	CO2	7/28/2015	WNV
Sacramento	SAYO243026	2678	Cx. pipiens	Elk Grove	50	CO2	7/28/2015	WNV
San Joaquin	SJCM8009	1420	Cx. erythrothorax	Stockton	12	CO2	7/28/2015	WNV
San Joaquin	SJCM8010	1395	Cx. tarsalis	Ripon	26	CO2	7/28/2015	WNV
San Joaquin	SJCM8010	1396	Cx. pipiens	Ripon	40	CO2	7/28/2015	WNV
San Joaquin	SJCM8011	1374	Cx. pipiens	Ripon	45	CO2	7/28/2015	WNV
San Joaquin	SJCM8021	1428	Cx. tarsalis	Lodi	50	CO2	7/28/2015	WNV
San Joaquin	SJCM8021	1429	Cx. tarsalis	Lodi	50	CO2	7/28/2015	WNV
San Joaquin	SJCM8021	1430	Cx. tarsalis	Lodi	50	CO2	7/28/2015	WNV
San Joaquin	SJCM8021	1431	Cx. tarsalis	Lodi	50	CO2	7/28/2015	WNV
San Joaquin	SJCM8021	1432	Cx. tarsalis	Lodi	43	CO2	7/28/2015	WNV
San Joaquin	SJCM8079	1440	Cx. pipiens	Manteca	50	CO2	7/28/2015	WNV
San Joaquin	SJCM8082	1460	Cx. tarsalis	Stockton	13	CO2	7/28/2015	WNV
San Joaquin	SJCM8083	1400	Cx. pipiens	Escalon	50	CO2	7/28/2015	WNV
San Joaquin	SJCM8083	1401	Cx. pipiens	Escalon	50	CO2	7/28/2015	WNV
San Joaquin	SJCM8083	1402	Cx. pipiens	Escalon	40	CO2	7/28/2015	WNV
San Joaquin	SJCM8106	1352	Cx. tarsalis	Escalon	50	CO2	7/28/2015	WNV
San Joaquin	SJCM8106	1353	Cx. tarsalis	Escalon	43	CO2	7/28/2015	WNV
San Joaquin	SJCM8106	1354	Cx. pipiens	Escalon	54	CO2	7/28/2015	WNV
San Joaquin	SJCM8111	1483	Cx. erythrothorax	Stockton	50	CO2	7/29/2015	WNV
San Joaquin	SJCM8161	1365	Cx. pipiens	Ripon	50	CO2	7/28/2015	WNV
San Joaquin	SJCM8161	1368	Cx. pipiens	Ripon	50	CO2	7/28/2015	WNV
San Joaquin	SJCM8161	1370	Cx. pipiens	Ripon	50	CO2	7/28/2015	WNV
San Joaquin	SJCM8161	1371	Cx. pipiens	Ripon	50	CO2	7/28/2015	WNV
San Joaquin	SJCM8161	1372	Cx. tarsalis	Ripon	13	CO2	7/28/2015	WNV
San Joaquin	SJCM8185	1491	Cx. tarsalis	Manteca	6	CO2	7/30/2015	WNV
San Joaquin	SJCM8185	1492	Cx. pipiens	Manteca	13	CO2	7/30/2015	WNV
San Joaquin	SJCM9906	1355	Cx. tarsalis	French Camp	54	CO2	7/28/2015	WNV
San Mateo	SANM633	83	Cx. tarsalis	Menlo Park	3	CO2	7/29/2015	WNV
San Mateo	SANM634	85	Cx. pipiens	Menlo Park	14	CO2	7/29/2015	WNV
Santa Clara	STCL4202	5875	Cx. tarsalis	Santa Clara	25	CO2	7/21/2015	WNV
Shasta	SHAS10010	337	Cx. tarsalis	Anderson	37	CO2	7/28/2015	WNV
Shasta	SHAS10030	288	Cx. tarsalis	Anderson	28	CO2	7/23/2015	WNV
Shasta	SHAS10110	299	Cx. tarsalis	Anderson	17	CO2	7/28/2015	WNV
Shasta	SHAS110	315	Cx. tarsalis	Redding	15	CO2	7/28/2015	WNV
Shasta	SHAS116	331	Cx. tarsalis	Anderson	50	CO2	7/28/2015	WNV
Shasta	SHAS116	333	Cx. tarsalis	Anderson	20	CO2	7/28/2015	WNV
Shasta	SHAS148	294	Cx. tarsalis	Cottonwood	29	CO2	7/24/2015	WNV
Shasta	SHAS20040	320	Cx. tarsalis	Redding	50	CO2	7/29/2015	WNV
Shasta	SHAS20110	303	Cx. tarsalis	Igo	26	CO2	7/28/2015	WNV
Shasta	SHAS271	348	Cx. tarsalis	Anderson	50	CO2	7/29/2015	WNV
Shasta	SHAS271	349	Cx. tarsalis	Anderson	50	CO2	7/29/2015	WNV
Shasta	SHAS271	351	Cx. tarsalis	Anderson	50	CO2	7/29/2015	WNV
Shasta	SHAS271	355	Cx. pipiens	Anderson	50	CO2	7/29/2015	WNV
Shasta	SHAS5034	343	Cx. pipiens		50	CO2	7/29/2015	WNV
Sonoma	MARN118	365	Cx. stigmatosoma	Cloverdale	7	GRVD	7/28/2015	WNV
Sonoma	MARN118	366	Cx. stigmatosoma	Cloverdale	50	GRVD	7/28/2015	WNV
Sonoma	MARN118	378	Cx. pipiens	Cloverdale	5	GRVD	7/29/2015	WNV
Stanislaus	EAST1078	15112	Cx. pipiens	Riverbank	17	CO2	7/29/2015	WNV
Stanislaus	TRLK536	738	Cx. pipiens	Turlock	50	CO2	7/28/2015	WNV
Stanislaus	TRLK536	739	Cx. pipiens	Turlock	50	CO2	7/28/2015	WNV
Sutter	SUYA14	266	Cx. tarsalis	Sutter	50	REST	7/27/2015	WNV

California Arbovirus Surveillance Bulletin #22

Week 30 Friday, July 31, 2015

Sutter	SUYA14	267	Cx. tarsalis	Sutter	50	REST	7/27/2015	WNV
Sutter	SUYA15	275	Cx. tarsalis	Robbins	50	CO2	7/27/2015	WNV
Sutter	SUYA44	263	Cx. tarsalis	Pleasant Grove	50	REST	7/27/2015	WNV
Sutter	SUYA5	268	Cx. tarsalis	Live Oak	16	CO2	7/27/2015	WNV
Sutter	SUYA84	272	Cx. tarsalis	Yuba City	14	REST	7/27/2015	WNV
Sutter	SUYA9	279	Cx. tarsalis	Sutter	50	CO2	7/27/2015	WNV
Tulare	DLTA6407	892	Cx. quinquefasciatus	Dinuba	34	GRVD	7/24/2015	WNV
Tulare	DLTA6408	875	Cx. quinquefasciatus	Dinuba	33	GRVD	7/24/2015	WNV
Tulare	DLTA6408	878	Cx. quinquefasciatus	Dinuba	50	GRVD	7/24/2015	WNV
Tulare	DLTA6408	882	Cx. quinquefasciatus	Dinuba	31	GRVD	7/24/2015	WNV
Tulare	DLTA6416	887	Cx. quinquefasciatus	Dinuba	39	GRVD	7/24/2015	WNV
Tulare	DLTA6417	898	Cx. quinquefasciatus	Dinuba	32	GRVD	7/24/2015	WNV
Tulare	DLTA6417	905	Cx. quinquefasciatus	Dinuba	47	GRVD	7/24/2015	WNV
Tulare	DLTA7316	975	Cx. quinquefasciatus	Traver	34	GRVD	7/29/2015	WNV
Tulare	DLTA7625	855	Cx. quinquefasciatus	Woodlake	50	GRVD	7/23/2015	WNV
Tulare	DLTA7625	856	Cx. quinquefasciatus	Woodlake	11	GRVD	7/23/2015	WNV
Tulare	DLTA7625	857	Cx. quinquefasciatus	Woodlake	50	GRVD	7/23/2015	WNV
Tulare	DLTA7625	858	Cx. quinquefasciatus	Woodlake	46	GRVD	7/23/2015	WNV
Tulare	DLTA7636	860	Cx. quinquefasciatus	Woodlake	50	GRVD	7/23/2015	WNV
Tulare	DLTA7636	861	Cx. quinquefasciatus	Woodlake	16	GRVD	7/23/2015	WNV
Tulare	DLTA7636	862	Cx. quinquefasciatus	Woodlake	48	GRVD	7/23/2015	WNV
Tulare	DLTA7636	863	Cx. quinquefasciatus	Woodlake	21	GRVD	7/23/2015	WNV
Tulare	DLTA8324	964	Cx. quinquefasciatus	Goshen	50	GRVD	7/29/2015	WNV
Tulare	DLTA8324	966	Cx. quinquefasciatus	Goshen	22	GRVD	7/29/2015	WNV
Tulare	DLTA8324	969	Cx. quinquefasciatus	Goshen	50	GRVD	7/29/2015	WNV
Tulare	DLTA8324	971	Cx. quinquefasciatus	Goshen	43	GRVD	7/29/2015	WNV
Tulare	DLTA8413	979	Cx. quinquefasciatus	Visalia	26	GRVD	7/30/2015	WNV
Tulare	DLTA8434	865	Cx. quinquefasciatus	Visalia	31	GRVD	7/24/2015	WNV
Tulare	DLTA8434	868	Cx. quinquefasciatus	Visalia	27	GRVD	7/24/2015	WNV
Tulare	DLTA8434	917	Cx. quinquefasciatus	Visalia	43	GRVD	7/28/2015	WNV
Tulare	DLTA8434	919	Cx. quinquefasciatus	Visalia	50	GRVD	7/28/2015	WNV
Tulare	DLTA8434	920	Cx. quinquefasciatus	Visalia	48	GRVD	7/28/2015	WNV
Tulare	DLTA8434	922	Cx. quinquefasciatus	Visalia	33	GRVD	7/28/2015	WNV
Tulare	DLTA8435	954	Cx. quinquefasciatus	Visalia	28	GRVD	7/28/2015	WNV
Tulare	DLTA8436	915	Cx. quinquefasciatus	Visalia	50	GRVD	7/28/2015	WNV
Tulare	DLTA8436	916	Cx. quinquefasciatus	Visalia	48	GRVD	7/28/2015	WNV
Tulare	DLTA8519	995	Cx. quinquefasciatus	Visalia	50	GRVD	7/30/2015	WNV
Tulare	DLTA8520	998	Cx. quinquefasciatus	Visalia	50	GRVD	7/30/2015	WNV
Tulare	DLTA8520	1001	Cx. quinquefasciatus	Visalia	44	GRVD	7/30/2015	WNV
Tulare	DLTA8520	1002	Cx. quinquefasciatus	Visalia	50	GRVD	7/30/2015	WNV
Tulare	DLTA8520	1003	Cx. quinquefasciatus	Visalia	49	GRVD	7/30/2015	WNV
Tulare	DLTA8520	1004	Cx. quinquefasciatus	Visalia	50	GRVD	7/30/2015	WNV
Tulare	DLTA8521	986	Cx. quinquefasciatus	Visalia	50	GRVD	7/30/2015	WNV
Tulare	DLTA8521	989	Cx. quinquefasciatus	Visalia	38	GRVD	7/30/2015	WNV
Tulare	DLTA8522	980	Cx. quinquefasciatus	Visalia	50	GRVD	7/30/2015	WNV
Tulare	DLTA8522	982	Cx. quinquefasciatus	Visalia	50	GRVD	7/30/2015	WNV
Tulare	DLTA8522	984	Cx. quinquefasciatus	Visalia	50	GRVD	7/30/2015	WNV
Tulare	DLTA8523	851	Cx. quinquefasciatus	Visalia	16	GRVD	7/23/2015	WNV
Tulare	DLTA8533	962	Cx. quinquefasciatus	Visalia	13	GRVD	7/28/2015	WNV
Tulare	DLTA9401	961	Cx. quinquefasciatus	Visalia	42	GRVD	7/28/2015	WNV
Tulare	DLTA9402	956	Cx. quinquefasciatus	Visalia	14	GRVD	7/28/2015	WNV
Tulare	DLTA9403	873	Cx. quinquefasciatus	Visalia	37	GRVD	7/24/2015	WNV
Tulare	DLTA9403	874	Cx. quinquefasciatus	Visalia	16	GRVD	7/24/2015	WNV

California Arbovirus Surveillance Bulletin #22

Week 30 Friday, July 31, 2015

Tulare	DLTA9403	907	Cx. quinquefasciatus	Visalia	50	GRVD	7/28/2015	WNV
Tulare	DLTA9403	909	Cx. quinquefasciatus	Visalia	44	GRVD	7/28/2015	WNV
Tulare	DLTA9403	910	Cx. quinquefasciatus	Visalia	15	GRVD	7/28/2015	WNV
Tulare	DLTA9403	911	Cx. quinquefasciatus	Visalia	13	GRVD	7/28/2015	WNV
Tulare	DLTA9403	912	Cx. quinquefasciatus	Visalia	50	GRVD	7/28/2015	WNV
Tulare	DLTA9403	913	Cx. quinquefasciatus	Visalia	50	GRVD	7/28/2015	WNV
Tulare	DLTA9403	914	Cx. quinquefasciatus	Visalia	37	GRVD	7/28/2015	WNV
Tulare	DLTA9411	957	Cx. quinquefasciatus	Visalia	50	GRVD	7/28/2015	WNV
Tulare	DLTA9411	958	Cx. quinquefasciatus	Visalia	16	GRVD	7/28/2015	WNV
Tulare	DLTA9412	959	Cx. quinquefasciatus	Visalia	50	GRVD	7/28/2015	WNV
Tulare	DLTA9412	960	Cx. quinquefasciatus	Visalia	45	GRVD	7/28/2015	WNV
Tulare	DLTA9501	930	Cx. quinquefasciatus	Farmersville	14	GRVD	7/28/2015	WNV
Tulare	DLTA9501	932	Cx. quinquefasciatus	Farmersville	49	GRVD	7/28/2015	WNV
Tulare	DLTA9501	934	Cx. quinquefasciatus	Farmersville	41	GRVD	7/28/2015	WNV
Tulare	DLTA9512	923	Cx. quinquefasciatus	Farmersville	47	GRVD	7/28/2015	WNV
Tulare	DLTA9512	924	Cx. quinquefasciatus	Farmersville	39	GRVD	7/28/2015	WNV
Tulare	DLTA9512	927	Cx. quinquefasciatus	Farmersville	49	GRVD	7/28/2015	WNV
Tulare	DLTA9606	935	Cx. quinquefasciatus	Farmersville	36	GRVD	7/28/2015	WNV
Tulare	DLTA9606	938	Cx. quinquefasciatus	Farmersville	50	GRVD	7/28/2015	WNV
Tulare	DLTA9606	940	Cx. quinquefasciatus	Farmersville	50	GRVD	7/28/2015	WNV
Tulare	DLTA9606	941	Cx. quinquefasciatus	Farmersville	35	GRVD	7/28/2015	WNV
Tulare	DLTA9606	943	Cx. quinquefasciatus	Farmersville	50	GRVD	7/28/2015	WNV
Tulare	DLTA9606	944	Cx. quinquefasciatus	Farmersville	50	GRVD	7/28/2015	WNV
Tulare	DLTA9606	945	Cx. quinquefasciatus	Farmersville	50	GRVD	7/28/2015	WNV
Tulare	DLTA9606	947	Cx. quinquefasciatus	Farmersville	50	GRVD	7/28/2015	WNV
Tulare	DLTA9606	948	Cx. quinquefasciatus	Farmersville	50	GRVD	7/28/2015	WNV
Tulare	DLTA9606	950	Cx. quinquefasciatus	Farmersville	50	GRVD	7/28/2015	WNV
Tulare	DLTA9606	951	Cx. quinquefasciatus	Farmersville	51	GRVD	7/28/2015	WNV
Tulare	DLTA9607	928	Cx. quinquefasciatus	Farmersville	35	GRVD	7/28/2015	WNV
Tulare	TLRE20	45	Cx. quinquefasciatus	Tulare	35	CO2	7/29/2015	WNV
Tulare	TLRE29	50	Cx. quinquefasciatus	Tulare	49	CO2	7/29/2015	WNV
Tulare	TLRE50	43	Cx. quinquefasciatus	Tulare	45	CO2	7/29/2015	WNV
Tulare	TLRE55	47	Cx. tarsalis	Tulare	14	CO2	7/29/2015	WNV
Tulare	TLRE55	48	Cx. quinquefasciatus	Tulare	50	CO2	7/29/2015	WNV
Tulare	TLRE55	49	Cx. quinquefasciatus	Tulare	50	CO2	7/29/2015	WNV
Tulare	TLRE56	41	Cx. quinquefasciatus	Tulare	10	CO2	7/22/2015	WNV
Tulare	TLRE68	33	Cx. quinquefasciatus	Tulare	50	CO2	7/22/2015	WNV
Tulare	TLRE68	36	Cx. quinquefasciatus	Tulare	50	CO2	7/22/2015	WNV
Tulare	TLRE68	38	Cx. quinquefasciatus	Tulare	25	CO2	7/22/2015	WNV
Tulare	TLRE68	39	Cx. tarsalis	Tulare	23	CO2	7/22/2015	WNV
Tulare	TLRE79	40	Cx. quinquefasciatus	Tulare	16	CO2	7/22/2015	WNV
Yolo	SAYO103002	3084	Cx. tarsalis	Dunnigan	50	CO2	7/31/2015	WNV
Yolo	SAYO103007	3100	Cx. tarsalis	Dunnigan	50	CO2	7/30/2015	WNV
Yolo	SAYO103009	3120	Cx. tarsalis	Dunnigan	50	CO2	7/30/2015	WNV
Yolo	SAYO103009	3121	Cx. tarsalis	Dunnigan	50	CO2	7/30/2015	WNV
Yolo	SAYO103009	3122	Cx. tarsalis	Dunnigan	50	CO2	7/30/2015	WNV
Yolo	SAYO103009	3124	Cx. tarsalis	Dunnigan	11	GRVD	7/30/2015	WNV
Yolo	SAYO104006	3095	Cx. tarsalis	Dunnigan	50	CO2	7/30/2015	WNV
Yolo	SAYO104006	3098	Cx. tarsalis	Dunnigan	50	CO2	7/30/2015	WNV
Yolo	SAYO104006	3099	Cx. tarsalis	Dunnigan	50	CO2	7/30/2015	WNV
Yolo	SAYO114001	3090	Cx. tarsalis	Zamora	50	CO2	7/30/2015	WNV
Yolo	SAYO114004	3067	Cx. tarsalis	Zamora	50	CO2	7/31/2015	WNV
Yolo	SAYO114004	3070	Cx. tarsalis	Zamora	50	CO2	7/31/2015	WNV
Yolo	SAYO115002	3113	Cx. tarsalis	Knights	50	CO2	7/30/2015	WNV

California Arbovirus Surveillance Bulletin #22

Week 30 Friday, July 31, 2015

				Landing				
Yolo	SAYO115002	3116	Cx. tarsalis	Knights Landing	50	CO2	7/30/2015	WNV
Yolo	SAYO115008	3110	Cx. tarsalis	Zamora	50	CO2	7/30/2015	WNV
Yolo	SAYO124007	3060	Cx. tarsalis	Woodland	50	CO2	7/31/2015	WNV
Yolo	SAYO125005	2877	Cx. tarsalis	Woodland	50	CO2	7/28/2015	WNV
Yolo	SAYO125013	2849	Cx. tarsalis	Woodland	14	CO2	7/28/2015	WNV
Yolo	SAYO125013	2850	Cx. pipiens	Woodland	3	GRVD	7/28/2015	WNV
Yolo	SAYO125025	2869	Cx. tarsalis	Woodland	6	GRVD	7/28/2015	WNV
Yolo	SAYO135003	2820	Cx. tarsalis	Woodland	14	CO2	7/28/2015	WNV
Yolo	SAYO135005	2876	Cx. pipiens	Woodland	8	GRVD	7/28/2015	WNV
Yolo	SAYO135006	3053	Cx. tarsalis	Woodland	50	CO2	7/30/2015	WNV
Yolo	SAYO135006	3055	Cx. tarsalis	Woodland	50	CO2	7/30/2015	WNV
Yolo	SAYO135006	3057	Cx. tarsalis	Woodland	50	CO2	7/30/2015	WNV
Yolo	SAYO135010	2828	Cx. tarsalis	Woodland	50	CO2	7/28/2015	WNV
Yolo	SAYO135010	2830	Cx. tarsalis	Woodland	50	CO2	7/28/2015	WNV
Yolo	SAYO135016	2854	Cx. tarsalis	Woodland	50	CO2	7/28/2015	WNV
Yolo	SAYO135020	2839	Cx. tarsalis	Woodland	50	CO2	7/28/2015	WNV
Yolo	SAYO135020	2842	Cx. pipiens	Woodland	6	GRVD	7/28/2015	WNV
Yolo	SAYO145002	2765	Cx. tarsalis	Davis	36	CO2	7/28/2015	WNV
Yolo	SAYO145005	2782	Cx. tarsalis	Davis	50	CO2	7/28/2015	WNV
Yolo	SAYO145013	2806	Cx. tarsalis	Davis	50	CO2	7/28/2015	WNV
Yolo	SAYO145019	2754	Cx. tarsalis	Davis	49	CO2	7/28/2015	WNV
Yolo	SAYO145025	2811	Cx. tarsalis	Davis	50	CO2	7/28/2015	WNV
Yolo	SAYO145025	2813	Cx. tarsalis	Davis	50	CO2	7/28/2015	WNV
Yolo	SAYO146002	2790	Cx. tarsalis	Davis	50	CO2	7/28/2015	WNV
Yuba	SUYA4	286	Cx. tarsalis	Wheatland	37	CO2	7/28/2015	WNV
Yuba	SUYA8	280	Cx. tarsalis	Marysville	50	CO2	7/28/2015	WNV
Yuba	SUYA8	281	Cx. tarsalis	Marysville	50	CO2	7/28/2015	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01
Los Angeles	GRLA2371	S. El Monte	7/21/2015	WNV	5340
Placer	PLCR0757	Auburn	7/27/2015	WNV	2692

California Arbovirus Surveillance Bulletin #22

Week 30 Friday, July 31, 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.
