

California Arbovirus Surveillance Bulletin #20

Week 28 Friday, July 17, 2015



Weekly Update

Humans

Two asymptomatic West Nile virus (WNV) positive blood donors were reported to the California Department of Public Health this week from Butte County. **These are the first WNV infections reported in California this year.** No human cases of WNV illness have been reported as of July 16, 2015. At this time last year, nine human cases of WNV had been reported from five counties.

Dead Birds

A total of 63 WNV positive dead birds were reported this week from the following 18 counties: Alameda (1), Butte (4), Colusa (2), Contra Costa (1), Glenn (1), Kern (1), Merced (1), Placer (1), Riverside (4), Sacramento (7), San Diego (10), San Joaquin (1), San Mateo (1), Santa Clara (14), Solano (1), Stanislaus (1), Tulare (3), Yolo (8), and Yuba (1). **This is the first detection of WNV from Colusa County this year. These are the first WNV positive dead birds from Colusa, Contra Costa, Kern, Merced, and Placer Counties this year.** In 2015, 215 birds have tested positive for WNV from 30 counties. At this time last year, 537 WNV positive birds had been detected in 27 counties.

Mosquito Pools

A total of 149 WNV positive mosquito pools were reported this week from the following 21 counties: Butte (10), Fresno (2), Glenn (4), Kern (16), Kings (6), Lake (5), Los Angeles (1), Merced (1), Placer (3), Riverside (8), Sacramento (5), San Diego (3), San Joaquin (2), Santa Clara (1), Shasta (3), Sonoma (3), Stanislaus (3), Sutter (7), Tulare (55), Yolo (8), and Yuba (3). **This is the first detection of WNV in Lake County this year. These are the first positive mosquito pools from Glenn, Santa Clara, and Sonoma Counties.** In 2015, 497 WNV positive mosquito pools have been reported from 25 counties. At this time last year, 520 WNV positive mosquito pools had been detected from 23 counties.

Sentinel Chickens

Two new WNV seroconversions were reported this week from one flock in San Bernardino County; **these are the first WNV positive chickens detected in San Bernardino County this year.** In 2015, five WNV positive chickens have been reported from three counties. At this time last year, nine WNV seroconversions had been reported from four counties.

2014 & 2015 YTD West Nile Virus Comparisons		
	2014	2015
Total # Dead Bird Reports	5,682	5,484
# Positive Counties	29	33
# Human Cases	9	0
# Positive Dead Birds / # Tested	537 / 1,320	215 / 1,317
# Positive Mosquito Pools / # Tested	520 / 10,691	497 / 12,897
# Seroconversions / # Tested	9 / 6,723	5 / 6,159

California Arbovirus Surveillance Bulletin #20

Week 28 Friday, July 17, 2015

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

YTD Activity by Element and County, 2015				
County	Humans	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda		3		
Butte		5	25	
Colusa		2		
Contra Costa		1	2	
El Dorado		1		
Fresno			8	
Glenn		2	4	
Kern		1	31	
Kings		1	14	
Lake			5	
Los Angeles		2	7	
Madera		1		
Marin		1		
Merced		1	2	
Orange		4	8	
Placer		1	13	2
Riverside		9	68	
Sacramento		18	18	
San Bernardino		1	2	2
San Diego		59	6	
San Joaquin		5	38	
San Mateo		4		
Santa Barbara			1	
Santa Clara		37	1	
Shasta		3	4	1
Solano		4		
Sonoma		2	3	
Stanislaus		7	9	
Sutter		8	22	
Tulare		16	172	
Ventura		1		
Yolo		11	21	
Yuba		4	13	
Totals	0	215	497	5

California Arbovirus Surveillance Bulletin #20

Week 28 Friday, July 17, 2015

TESTING SUMMARIES

Humans

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

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	138	63
	YTD	1,317	215

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	498	2	0	0
	YTD	6,159	5	0	0
Mosquito Pools	Week	1,538	149	0	0
	YTD	12,897	497	0	0

NEW POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Fremont	94536	American Crow	7/9/2015	WNV
Butte	Butte Co MVCD	Chico	95926	American Crow	7/13/2015	WNV
Butte	Butte Co MVCD	Chico	95928	Green Heron	7/13/2015	WNV
Butte	Butte Co MVCD	Gridley	95948	Western Scrub-Jay	7/9/2015	WNV
Butte	Butte Co MVCD	Oroville	95965	Western Scrub-Jay	7/13/2015	WNV
Colusa	Colusa MAD	Colusa	95932	Mallard	7/8/2015	WNV
Colusa	Colusa MAD	Colusa	95932	Western Scrub-Jay	7/13/2015	WNV
Contra Costa	Contra Costa MVCD	Oakley	94561	American Crow	7/14/2015	WNV
Glenn	Glenn Co MVCD	Willows	95988	American Crow	7/13/2015	WNV
Kern	Kern MVCD	Bakersfield	93309	Western Scrub-Jay	7/5/2015	WNV
Merced	Merced Co MAD	Atwater	95301	Finch	7/15/2015	WNV
Placer	Placer MVCD	Granite Bay	95746	American Crow	7/11/2015	WNV
Riverside	Northwest Mosquito VCD	Calimesa	92320	Common Raven	7/10/2015	WNV
Riverside	Northwest Mosquito VCD	Corona	92882	Sparrow	7/9/2015	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	6/24/2015	WNV
Riverside	Northwest Mosquito VCD	Riverside	92505	American Crow	7/6/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	7/13/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	7/14/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Lesser Goldfinch	7/11/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/9/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Yellow-billed Magpie	6/22/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	Yellow-billed Magpie	7/11/2015	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	American Crow	7/13/2015	WNV
San Diego	San Diego Co VCP	El Cajon	92019	Western Scrub-Jay	7/13/2015	WNV
San Diego	San Diego Co VCP	La Mesa	91941	American Crow	7/14/2015	WNV
San Diego	San Diego Co VCP	La Mesa	91941	Western Scrub-Jay	7/10/2015	WNV

California Arbovirus Surveillance Bulletin #20

Week 28 Friday, July 17, 2015

San Diego	San Diego Co VCP	Oceanside	92058	American Crow	7/9/2015	WNV
San Diego	San Diego Co VCP	San Diego	92105	American Crow	7/14/2015	WNV
San Diego	San Diego Co VCP	San Diego	92109	American Crow	7/10/2015	WNV
San Diego	San Diego Co VCP	San Diego	92126	American Crow	7/13/2015	WNV
San Diego	San Diego Co VCP	San Diego	92129	Western Scrub-Jay	7/10/2015	WNV
San Diego	San Diego Co VCP	San Diego	92130	American Crow	7/10/2015	WNV
San Diego	San Diego Co VCP	San Diego	92130	American Crow	7/10/2015	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95206	Sparrow	7/10/2015	WNV
San Mateo	San Mateo Co MAD	Menlo Park	94025	Western Screech Owl	7/9/2015	WNV
Santa Clara	Santa Clara Co VCD	Cupertino	95014	American Crow	7/15/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	Western Scrub-Jay	7/16/2015	WNV
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	American Crow	7/7/2015	WNV
Santa Clara	Santa Clara Co VCD	Mountain View	94040	American Crow	7/13/2015	WNV
Santa Clara	Santa Clara Co VCD	Mountain View	94040	American Crow	7/16/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	7/11/2015	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	7/15/2015	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95051	American Crow	7/15/2015	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95053	American Crow	7/7/2015	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	7/8/2015	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	7/9/2015	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	7/13/2015	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	7/16/2015	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	7/8/2015	WNV
Solano	Solano Co MAD	Dixon	95620	Yellow-billed Magpie	7/16/2015	WNV
Stanislaus	Turlock MAD	Turlock	95380	Western Scrub-Jay	7/10/2015	WNV
Tulare	Delta VCD	Visalia	93277	American Crow	7/16/2015	WNV
Tulare	Delta VCD	Visalia	93277	Northern Mockingbird	7/13/2015	WNV
Tulare	Delta VCD	Visalia	93291	Western Scrub-Jay	7/14/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/13/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Barn Swallow	7/12/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Yellow-billed Magpie	7/11/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	7/10/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/13/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/13/2015	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	White-tailed Kite	7/12/2015	WNV
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	American Crow	7/9/2015	WNV
Yuba	Sutter-Yuba MVCD	Marysville	95901	Finch	7/9/2015	WNV

Mosquitoes

County	Site Code	Pool #	City	Species	# in Pool	Trap	Collected	Virus
Butte	BUCO43	165	Chico	Cx. tarsalis	50	CO2	7/14/15	WNV
Butte	BUCO43	168	Chico	Cx. tarsalis	50	CO2	7/14/15	WNV
Butte	BUCO43	169	Chico	Cx. tarsalis	50	CO2	7/14/15	WNV
Butte	BUCO45	147	Paradise	Cx. pipiens	50	CO2	7/8/15	WNV
Butte	BUCO51	171	Dayton	Cx. tarsalis	50	CO2	7/14/15	WNV
Butte	BUCO51	172	Dayton	Cx. tarsalis	50	CO2	7/14/15	WNV
Butte	BUCO51	174	Dayton	Cx. tarsalis	50	CO2	7/14/15	WNV
Butte	BUCO60	161	Chico	Cx. tarsalis	50	CO2	7/14/15	WNV
Butte	BUCO60	162	Chico	Cx. tarsalis	50	CO2	7/14/15	WNV
Butte	BUCO78	150	Oroville	Cx. tarsalis	50	CO2	7/8/15	WNV
Fresno	CNSL4027	349	Selma	Cx. quinquefasciatus	50	GRVD	7/3/15	WNV
Fresno	CNSL4150	348	Selma	Cx. quinquefasciatus	29	GRVD	7/9/15	WNV
Glenn	BUCO47	155	Hamilton City	Cx. tarsalis	50	CO2	7/8/15	WNV
Glenn	BUCO47	156	Hamilton City	Cx. tarsalis	50	CO2	7/8/15	WNV
Glenn	BUCO47	157	Hamilton City	Cx. tarsalis	50	CO2	7/8/15	WNV
Glenn	BUCO47	158	Hamilton City	Cx. tarsalis	50	CO2	7/8/15	WNV
Kern	KERN115	265	Bakersfield	Cx. tarsalis	50	CO2	7/7/15	WNV
Kern	KERN121	289	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/10/15	WNV
Kern	KERN2007	290	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/10/15	WNV

California Arbovirus Surveillance Bulletin #20

Week 28 Friday, July 17, 2015

Kern	KERN2020	274	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/8/15	WNV
Kern	KERN2025	291	Bakersfield	Cx. quinquefasciatus	32	GRVD	7/10/15	WNV
Kern	KERN2027	276	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/8/15	WNV
Kern	KERN2028	273	Bakersfield	Cx. quinquefasciatus	37	GRVD	7/8/15	WNV
Kern	KERN32	295	Arvin	Cx. quinquefasciatus	50	CO2	7/10/15	WNV
Kern	KERN7	288	Famoso	Cx. quinquefasciatus	40	CO2	7/9/15	WNV
Kern	WEST6212	21	Maricopa	Cx. tarsalis	50	CO2	7/15/15	WNV
Kern	WEST6212	24	Maricopa	Cx. tarsalis	50	CO2	7/15/15	WNV
Kern	WEST6212	25	Maricopa	Cx. tarsalis	50	CO2	7/15/15	WNV
Kern	WEST6212	26	Maricopa	Cx. tarsalis	50	CO2	7/15/15	WNV
Kern	WEST6212	27	Maricopa	Cx. tarsalis	50	CO2	7/15/15	WNV
Kern	WEST6212	28	Maricopa	Cx. tarsalis	50	CO2	7/15/15	WNV
Kern	WEST6230	19	Maricopa	Cx. tarsalis	50	CO2	7/15/15	WNV
Kings	KNGS3062	194	Lemoore	Cx. tarsalis	42	CO2	7/7/15	WNV
Kings	KNGS3062	195	Lemoore	Cx. pipiens	50	CO2	7/7/15	WNV
Kings	KNGS3062	196	Lemoore	Cx. pipiens	29	CO2	7/7/15	WNV
Kings	KNGS4009	199	Armona	Cx. pipiens	50	BGSENT	7/10/15	WNV
Kings	KNGS4009	200	Armona	Cx. pipiens	50	BGSENT	7/10/15	WNV
Kings	KNGS4009	201	Armona	Cx. pipiens	29	BGSENT	7/10/15	WNV
Lake	LAKE201	211	Cobb	Cx. tarsalis	48	CO2	7/14/15	WNV
Lake	LAKE234	203	Clearlake Oaks	Cx. tarsalis	48	CO2	7/9/15	WNV
Lake	LAKE234	217	Clearlake Oaks	Cx. tarsalis	50	CO2	7/15/15	WNV
Lake	LAKE80	226	Upper Lake	Cx. tarsalis	31	REST	7/15/15	WNV
Lake	LAKE94	227	Upper Lake	Cx. tarsalis	39	CO2	7/15/15	WNV
Los Angeles	GRLA2550	5494	Mission Hills	Cx. quinquefasciatus	28	GRVD	7/10/15	WNV
Merced	MERC405	117	Hilmar	Cx. pipiens	43	CO2	7/15/15	WNV
Placer	PLCR1113	800	Pleasant Grove	Cx. tarsalis	50	CO2	7/14/15	WNV
Placer	PLCR139	805	Roseville	Cx. tarsalis	50	CO2	7/14/15	WNV
Placer	PLCR191232	751	Lincoln	Cx. thriambus	2	CO2	7/9/15	WNV
Riverside	COAV37	2117	Mecca	Cx. tarsalis	19	CO2	7/14/15	WNV
Riverside	COAV416	2113	La Quinta	Cx. quinquefasciatus	27	CO2	7/14/15	WNV
Riverside	COAV46	2120	Mecca	Cx. tarsalis	32	CO2	7/14/15	WNV
Riverside	COAV536	2176	Thermal	Cx. tarsalis	50	CO2	7/16/15	WNV
Riverside	COAV536	2177	Thermal	Cx. tarsalis	50	CO2	7/16/15	WNV
Riverside	COAV8	2136	Mecca	Cx. tarsalis	30	CO2	7/14/15	WNV
Riverside	RIVR27	251	San Jacinto	Cx. tarsalis	16	CO2	7/1/15	WNV
Riverside	RIVR31	273	Nuevo	Cx. tarsalis	31	CO2	7/1/15	WNV
Sacramento	SAYO204009	2106	Citrus Heights	Cx. pipiens	16	GRVD	7/14/15	WNV
Sacramento	SAYO232017	2029	Elk Grove	Cx. pipiens	15	CO2	7/14/15	WNV
Sacramento	SAYO233075	2024	Elk Grove	Cx. pipiens	28	GRVD	7/14/15	WNV
Sacramento	SAYO242016	2026	Elk Grove	Cx. pipiens	27	CO2	7/14/15	WNV
Sacramento	SAYO271003	2239	Isleton	Cx. tarsalis	50	CO2	7/16/15	WNV
San Diego	SAND10026	117	Lemon Grove	Cx. quinquefasciatus	27	GRVD	7/6/2015	WNV
San Diego	SAND10027	115	Lemon Grove	Cx. quinquefasciatus	14	GRVD	7/6/2015	WNV
San Diego	SAND466	114	San Diego	Cx. quinquefasciatus	39	GRVD	7/6/2015	WNV
San Joaquin	SJCM8018	1099	Stockton	Cx. tarsalis	26	CO2	7/14/15	WNV
San Joaquin	SJCM8185	1170	Manteca	Cx. pipiens	33	CO2	7/16/15	WNV
Santa Clara	STCL4152	5778	Palo Alto	Cx. tarsalis	25	CO2	7/1/15	WNV
Shasta	SHAS10140	228		Cx. tarsalis	23	CO2	7/14/15	WNV
Shasta	SHAS110	237	Redding	Cx. tarsalis	23	CO2	7/14/15	WNV
Shasta	SHAS116	235	Anderson	Cx. pipiens	50	CO2	7/14/15	WNV
Sonoma	MARN1137	285	Petaluma	Cx. erythrothorax	50	CO2	7/14/15	WNV
Sonoma	MARN118	305	Cloverdale	Cx. stigmatosoma	39	GRVD	7/16/15	WNV
Sonoma	MARN209	303	Cloverdale	Cx. tarsalis	7	CO2	7/16/15	WNV
Stanislaus	EAST1008	15071	Modesto	Cx. tarsalis	17	CO2	7/14/15	WNV
Stanislaus	TRLK1105	588	Turlock	Cx. pipiens	50	CO2	7/16/15	WNV
Stanislaus	TRLK432	525	Turlock	Cx. pipiens	50	CO2	7/14/15	WNV
Sutter	SUYA107	183	Live Oak	Cx. tarsalis	27	REST	7/13/15	WNV
Sutter	SUYA16	197	Pleasant Grove	Cx. tarsalis	50	REST	7/13/15	WNV
Sutter	SUYA27	219	Tierra Buena	Cx. tarsalis	27	CO2	7/14/15	WNV
Sutter	SUYA30	189	Live Oak	Cx. tarsalis	34	REST	7/13/15	WNV
Sutter	SUYA31	218	Rio Oso	Cx. tarsalis	50	REST	7/13/15	WNV
Sutter	SUYA44	200	Pleasant Grove	Cx. tarsalis	27	REST	7/13/15	WNV
Sutter	SUYA70	203	Yuba City	Cx. tarsalis	36	CO2	7/13/15	WNV

California Arbovirus Surveillance Bulletin #20

Week 28 Friday, July 17, 2015

Tulare	DLNO75	53	Earlimart	Cx. quinquefasciatus	26	GRVD	7/14/15	WNV
Tulare	DLTA7636	585	Woodlake	Cx. quinquefasciatus	25	GRVD	7/10/15	WNV
Tulare	DLTA7636	589	Woodlake	Cx. quinquefasciatus	28	GRVD	7/10/15	WNV
Tulare	DLTA8434	636	Visalia	Cx. quinquefasciatus	50	GRVD	7/14/15	WNV
Tulare	DLTA8434	637	Visalia	Cx. quinquefasciatus	50	GRVD	7/14/15	WNV
Tulare	DLTA8434	638	Visalia	Cx. quinquefasciatus	28	GRVD	7/14/15	WNV
Tulare	DLTA8435	634	Visalia	Cx. quinquefasciatus	50	GRVD	7/14/15	WNV
Tulare	DLTA8435	635	Visalia	Cx. quinquefasciatus	11	GRVD	7/14/15	WNV
Tulare	DLTA8436	633	Visalia	Cx. quinquefasciatus	48	GRVD	7/14/15	WNV
Tulare	DLTA8514	580	Visalia	Cx. quinquefasciatus	50	GRVD	7/10/15	WNV
Tulare	DLTA8514	581	Visalia	Cx. quinquefasciatus	50	GRVD	7/10/15	WNV
Tulare	DLTA8514	582	Visalia	Cx. quinquefasciatus	44	GRVD	7/10/15	WNV
Tulare	DLTA8519	618	Visalia	Cx. quinquefasciatus	16	GRVD	7/14/15	WNV
Tulare	DLTA8519	619	Visalia	Cx. quinquefasciatus	50	GRVD	7/14/15	WNV
Tulare	DLTA8519	622	Visalia	Cx. quinquefasciatus	50	GRVD	7/14/15	WNV
Tulare	DLTA8519	623	Visalia	Cx. quinquefasciatus	50	GRVD	7/14/15	WNV
Tulare	DLTA8522	591	Visalia	Cx. quinquefasciatus	50	GRVD	7/10/15	WNV
Tulare	DLTA8522	592	Visalia	Cx. quinquefasciatus	15	GRVD	7/10/15	WNV
Tulare	DLTA8523	584	Visalia	Cx. quinquefasciatus	19	GRVD	7/10/15	WNV
Tulare	DLTA8530	611	Visalia	Cx. quinquefasciatus	43	GRVD	7/14/15	WNV
Tulare	DLTA8530	612	Visalia	Cx. quinquefasciatus	17	GRVD	7/14/15	WNV
Tulare	DLTA8530	613	Visalia	Cx. quinquefasciatus	50	GRVD	7/14/15	WNV
Tulare	DLTA8530	614	Visalia	Cx. quinquefasciatus	26	GRVD	7/14/15	WNV
Tulare	DLTA8533	648	Visalia	Cx. quinquefasciatus	34	GRVD	7/14/15	WNV
Tulare	DLTA8534	650	Visalia	Cx. quinquefasciatus	21	GRVD	7/14/15	WNV
Tulare	DLTA8536	701	Farmersville	Cx. quinquefasciatus	29	GRVD	7/16/15	WNV
Tulare	DLTA8536	704	Farmersville	Cx. quinquefasciatus	31	GRVD	7/16/15	WNV
Tulare	DLTA9401	645	Visalia	Cx. quinquefasciatus	32	GRVD	7/14/15	WNV
Tulare	DLTA9403	639	Visalia	Cx. quinquefasciatus	50	GRVD	7/14/15	WNV
Tulare	DLTA9403	640	Visalia	Cx. quinquefasciatus	23	GRVD	7/14/15	WNV
Tulare	DLTA9411	596	Visalia	Cx. quinquefasciatus	49	GRVD	7/10/15	WNV
Tulare	DLTA9411	597	Visalia	Cx. quinquefasciatus	50	GRVD	7/10/15	WNV
Tulare	DLTA9411	602	Visalia	Cx. quinquefasciatus	36	GRVD	7/10/15	WNV
Tulare	DLTA9411	642	Visalia	Cx. quinquefasciatus	50	GRVD	7/14/15	WNV
Tulare	DLTA9412	604	Visalia	Cx. quinquefasciatus	26	GRVD	7/10/15	WNV
Tulare	DLTA9412	605	Visalia	Cx. quinquefasciatus	37	GRVD	7/10/15	WNV
Tulare	DLTA9412	608	Visalia	Cx. quinquefasciatus	31	GRVD	7/10/15	WNV
Tulare	DLTA9501	691	Farmersville	Cx. quinquefasciatus	50	GRVD	7/16/15	WNV
Tulare	DLTA9501	695	Farmersville	Cx. quinquefasciatus	11	GRVD	7/16/15	WNV
Tulare	DLTA9501	698	Farmersville	Cx. quinquefasciatus	50	GRVD	7/16/15	WNV
Tulare	DLTA9501	700	Farmersville	Cx. quinquefasciatus	26	GRVD	7/16/15	WNV
Tulare	DLTA9504	651	Visalia	Cx. quinquefasciatus	50	GRVD	7/14/15	WNV
Tulare	DLTA9512	630	Farmersville	Cx. quinquefasciatus	50	GRVD	7/14/15	WNV
Tulare	DLTA9512	631	Farmersville	Cx. quinquefasciatus	50	GRVD	7/14/15	WNV
Tulare	DLTA9512	663	Farmersville	Cx. quinquefasciatus	50	GRVD	7/15/15	WNV
Tulare	DLTA9512	666	Farmersville	Cx. quinquefasciatus	50	GRVD	7/15/15	WNV
Tulare	DLTA9512	668	Farmersville	Cx. quinquefasciatus	40	GRVD	7/15/15	WNV
Tulare	DLTA9512	671	Farmersville	Cx. quinquefasciatus	50	GRVD	7/15/15	WNV
Tulare	DLTA9606	675	Farmersville	Cx. quinquefasciatus	16	GRVD	7/16/15	WNV
Tulare	DLTA9606	685	Farmersville	Cx. quinquefasciatus	50	GRVD	7/16/15	WNV
Tulare	DLTA9606	686	Farmersville	Cx. quinquefasciatus	39	GRVD	7/16/15	WNV
Tulare	DLTA9607	654	Farmersville	Cx. quinquefasciatus	50	GRVD	7/15/15	WNV
Tulare	DLTA9607	656	Farmersville	Cx. quinquefasciatus	34	GRVD	7/15/15	WNV
Tulare	DLTA9607	658	Farmersville	Cx. quinquefasciatus	50	GRVD	7/15/15	WNV
Tulare	DLTA9607	659	Farmersville	Cx. quinquefasciatus	50	GRVD	7/15/15	WNV
Yolo	SAYO103003	2284	Dunnigan	Cx. tarsalis	50	CO2	7/16/15	WNV
Yolo	SAYO103005	2271	Dunnigan	Cx. tarsalis	50	CO2	7/16/15	WNV
Yolo	SAYO103007	2276	Dunnigan	Cx. tarsalis	50	CO2	7/16/15	WNV
Yolo	SAYO114001	2306	Zamora	Cx. tarsalis	50	CO2	7/16/15	WNV
Yolo	SAYO116003	2327	Knights Landing	Cx. tarsalis	38	CO2	7/16/15	WNV
Yolo	SAYO135005	2079	Woodland	Cx. tarsalis	22	CO2	7/14/15	WNV
Yolo	SAYO135006	2319	Woodland	Cx. tarsalis	50	CO2	7/16/15	WNV
Yolo	SAYO135010	2072	Woodland	Cx. tarsalis	50	CO2	7/14/15	WNV
Yuba	SUYA10	198	Olivehurst	Cx. tarsalis	35	REST	7/13/15	WNV

California Arbovirus Surveillance Bulletin #20

Week 28 Friday, July 17, 2015

Yuba	SUYA108	206	Plumas Lake	Cx. tarsalis	50	CO2	7/13/15	WNV
Yuba	SUYA8	222	Marysville	Cx. tarsalis	30	CO2	7/14/15	WNV

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02
San Bernardino	SANB0011	Rialto	7/7/2015	WNV	2034	2037

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.

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.