

California Arbovirus Surveillance Bulletin #19

Week 28 Friday, July 12, 2013



WEEKLY UPDATE

Human Cases

No new cases were reported this week. In 2013, one human case of West Nile virus (WNV) has been reported from Sacramento County. At this time last year, one WNV case had been reported from Kern County.

Horses

No equine cases have been reported in 2013.

Dead Birds & Squirrels

Forty-nine WNV positive birds were reported this week from the following 18 counties: Contra Costa (2), Fresno (2), Glenn (2), Kings (1), Los Angeles (6), Madera (1), Merced (3), Orange (1), Placer (1), Sacramento (16), San Diego (1), San Joaquin (1), Santa Clara (2), Solano (1), Stanislaus (1), Sutter (1), Tulare (1), and Yolo (6). **These are the first indications of WNV activity in Madera and San Diego counties this year**, and the first WNV positive bird detected in Tulare County. An additional three dead birds tested positive for chronic WNV infection from three counties. In 2013, 155 dead birds have tested positive for WNV from 23 counties, 51 dead birds have tested positive for chronic WNV infection from 20 counties, and one dead squirrel has tested positive for WNV from one county. At this time last year, 353 dead birds had tested positive for WNV from 16 counties.

Mosquito Pools

A total of 159 WNV positive mosquito pools were reported this week from 15 counties: Contra Costa (1), Fresno (3), Kern (7), Kings (8), Los Angeles (11), Placer (6), Riverside (5), Sacramento (22), San Bernardino (8), San Joaquin (6), Santa Clara (1), Sutter (20), Tulare (1), Yolo (57), and Yuba (3). **This is the first WNV positive mosquito pool detected in Santa Clara County this year.** In 2013, 396 mosquito pools from 18 counties have tested positive for WNV. At this time last year, 448 mosquito pools from 16 counties had tested positive for WNV.

Sentinel Chickens

Five sentinel chickens tested positive for WNV antibodies this week from five flocks in the following counties: Colusa (1), Merced (1), San Bernardino (1), Sutter (1), and Yuba (1). **This is the first indication of WNV activity in Colusa County in 2013**, and the first seroconversions detected in Merced, San Bernardino, Sutter, and Yuba this year. In 2013, 12 WNV antibody-positive chickens have been detected among 8 flocks in 7 counties. At this time last year, 5 WNV antibody-positive chickens had been detected among 4 flocks in 2 counties.

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2012 & 2013 YTD West Nile Virus Comparisons		
	2012	2013
Total # Dead Bird Reports	7,260	6,703
# Positive Counties	20	27
# Human Cases	1	1
# Horse Cases	0	0
# Positive Dead Birds / # Tested	353 / 1,616	155 / 1,338
# Positive Mosquito Pools / # Tested	448 / 11,793	396 / 13,883
# Seroconversions / # Tested	5 / 8,102	12 / 7,351
# Positive Squirrels / # Tested	0 / 59	1 / 57

YTD WNV Activity by Element and County, 2013						
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Butte						1
Colusa					1	
Contra Costa			4	4		
Fresno			3	15		
Glenn			3			
Kern			1	31		
Kings			7	10		
Lake				2		
Los Angeles			44	61	5	
Madera			1			
Marin			2			
Merced			15		1	
Orange			3	2		
Placer			2	18		
Riverside				11	2	
Sacramento	1		35	80		
San Bernardino			1	17	1	
San Diego			1			
San Joaquin			7	17		
Santa Clara			3	1		
Solano			3			
Stanislaus			3	4		
Sutter			1	35	1	
Tulare			1	6		
Ventura			1			
Yolo			13	76		
Yuba			1	6	1	
Totals	1	0	155	396	12	1

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TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	0	0	0	0	0	0
	YTD	1	0	0	0	0	0
Horse Cases	Week	0	0	0	0	0	0
	YTD	0	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	156	49
	YTD	1,338	155
Tree Squirrels	Week	2	0
	YTD	57	1

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	618	5	0	0
	YTD	7,351	12	0	0
Mosquito Pools	Week	1,138	159	0	0
	YTD	13,883	396	0	0

POSITIVES

Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	7/8/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	7/10/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Bay Point	94565	Western Scrub-Jay	6/28/2013	WNV	Chronic	RT-PCR
Fresno	Consolidated MAD	Fresno	93710	American Crow	6/21/2013	WNV	Recent	RT-PCR
Fresno	Consolidated MAD	Fresno	93726	Western Scrub-Jay	6/17/2013	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Willows	95988	Western Scrub-Jay	6/27/2013	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Willows	95988	American Crow	6/28/2013	WNV	Recent	RT-PCR
Kings	Kings MAD	Lemoore	93245	American Crow	7/2/2013	WNV	Recent	RAMP
Los Angeles	LA West VCD	Lawndale	90260	American Crow	6/25/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Palos Verdes Estates	90274	American Crow	6/28/2013	WNV	Recent	RT-PCR

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Los Angeles	LA West VCD	Rolling Hills Estates	90274	American Crow	6/27/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Rancho Palos Verdes	90275	American Crow	6/27/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Rolling Hills Estates	90275	American Crow	6/26/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Torrance	90504	American Crow	6/25/2013	WNV	Chronic	RT-PCR
Los Angeles	San Gabriel Valley MVCD	Arcadia	91006	American Crow	7/5/2013	WNV	Recent	RAMP
Madera	Madera MVCD	Madera	93636	Western Scrub-Jay	7/3/2013	WNV	Recent	RT-PCR
Merced	Merced MAD	Merced	95340	American Crow	7/2/2013	WNV	Recent	RT-PCR
Merced	Merced MAD	Merced	95340	Western Scrub-Jay	7/2/2013	WNV	Recent	RT-PCR
Merced	Merced MAD	Merced	95340	Western Scrub-Jay	6/27/2013	WNV	Recent	RT-PCR
Orange	Orange VCD	Garden Grove	92843	American Crow	7/1/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	American Crow	6/21/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95621	American Crow	7/8/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	American Robin	7/8/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	7/8/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	American Crow	7/9/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	House Finch	7/9/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95757	Black Phoebe	7/9/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95828	American Robin	7/2/2013	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	7/2/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	7/2/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	7/7/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	7/9/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	Osprey	7/3/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	Osprey	7/3/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	American Crow	7/3/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	American Crow	7/3/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	American Crow	7/9/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	American Crow	7/8/2013	WNV	Recent	RT-PCR
San Diego	San Diego VCP	Lakeside	92040	American Crow	7/3/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Stockton	95209	Western Scrub-Jay	7/8/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95123	American Crow	7/1/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95123	American Crow	7/1/2013	WNV	Recent	RT-PCR
Solano	Solano MAD	Fairfield	94533	American Crow	7/2/2013	WNV	Recent	RAMP
Stanislaus	Turlock MAD	Modesto	95351	Western Scrub-Jay	6/27/2013	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Nicolaus	95659	American Robin	6/27/2013	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	Western Scrub-Jay	7/9/2013	WNV	Recent	RAMP
Yolo	Sac-Yolo MVCD	Davis	95616	Western Scrub-Jay	7/9/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/8/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	American Crow	7/3/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	7/9/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Northern Mockingbird	6/30/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95776	House Finch	6/25/2013	WNV	Recent	RT-PCR

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Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Method
Contra Costa	CNTR8202	146	Discovery Bay	Cx. pipiens	26	CO2	7/8/2013	WNV	RT-PCR
Fresno	CNSL1068	180	Fresno	Cx. quinquefasciatus	24	CO2	7/9/2013	WNV	RT-PCR
Fresno	CNSL1068	181	Fresno	Cx. quinquefasciatus	24	GRVD	7/9/2013	WNV	RT-PCR
Fresno	CNSL1489	175	Clovia	Cx. quinquefasciatus	16	GRVD	7/3/2013	WNV	RT-PCR
Kern	KERN115	231	Bakersfield	Cx. tarsalis	50	CO2	7/2/2013	WNV	RT-PCR
Kern	KERN2001	235	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/3/2013	WNV	RT-PCR
Kern	KERN2007	240	Bakersfield	Cx. quinquefasciatus	43	GRVD	7/5/2013	WNV	RT-PCR
Kern	KERN2016	237	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/3/2013	WNV	RT-PCR
Kern	KERN2018	238	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/3/2013	WNV	RT-PCR
Kern	KERN2025	236	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/3/2013	WNV	RT-PCR
Kern	KERN2040	241	Arvin	Cx. quinquefasciatus	41	GRVD	7/5/2013	WNV	RT-PCR
Kings	KNGS3018	69	Lemoore	Cx. tarsalis	42	CO2	6/28/2013	WNV	RT-PCR
Kings	KNGS3090	75	Lemoore	Cx. tarsalis	50	CO2	6/29/2013	WNV	RT-PCR
Kings	KNGS3091	76	Lemoore	Cx. tarsalis	12	CO2	6/29/2013	WNV	RT-PCR
Kings	KNGS3092	77	Lemoore	Cx. tarsalis	23	CO2	6/29/2013	WNV	RT-PCR
Kings	KNGS3092	78	Lemoore	Cx. tarsalis	36	CO2	6/29/2013	WNV	RT-PCR
Kings	KNGS3092	79	Lemoore	Cx. tarsalis	43	CO2	6/29/2013	WNV	RT-PCR
Kings	KNGS4001	87	Hanford	Cx. pipiens	17	CO2	7/2/2013	WNV	RT-PCR
Kings	KNGS4006	96	Hanford	Cx. tarsalis	48	CO2	7/3/2013	WNV	RT-PCR
Los Angeles	GRLA2133	587	Wilmington	Cx. quinquefasciatus	50	GRVD	7/2/2013	WNV	RT-PCR
Los Angeles	GRLA2321	590	Carson	Cx. quinquefasciatus	53	GRVD	7/2/2013	WNV	RT-PCR
Los Angeles	GRLA2419	5639	Panorama City	Cx. quinquefasciatus	50	GRVD	7/3/2013	WNV	RT-PCR
Los Angeles	GRLA2421	5638	Panorama City	Cx. quinquefasciatus	50	GRVD	7/3/2013	WNV	RT-PCR
Los Angeles	GRLA2580	5625	Sherman Oaks	Cx. quinquefasciatus	44	GRVD	7/3/2013	WNV	RT-PCR
Los Angeles	GRLA3044	597	South El Monte	Cx. quinquefasciatus	50	GRVD	7/3/2013	WNV	RT-PCR
Los Angeles	GRLA3067	591	Gardena	Cx. quinquefasciatus	50	GRVD	7/2/2013	WNV	RT-PCR
Los Angeles	GRLA3068	588	Wilmington	Cx. quinquefasciatus	50	CO2	7/2/2013	WNV	RT-PCR
Los Angeles	GRLA3068	593	Wilmington	Cx. tarsalis	20	CO2	7/2/2013	WNV	RT-PCR
Los Angeles	LACW1002	248	Torrance	Cx. quinquefasciatus	49	CO2	7/2/2013	WNV	RT-PCR
Los Angeles	LACW1082	249	Torrance	Cx. quinquefasciatus	27	CO2	7/2/2013	WNV	RT-PCR
Placer	PLCR139	696	ROSEVILLE	Cx. tarsalis	48	CO2	7/9/2013	WNV	RT-PCR
Placer	PLCR155	692	Sheridan	Cx. tarsalis	48	CO2	7/9/2013	WNV	RT-PCR
Placer	PLCR30	715	Lincoln	Cx. tarsalis	18	CO2	7/9/2013	WNV	RT-PCR
Placer	PLCR58	720	LINCOLN	Cx. tarsalis	28	CO2	7/9/2013	WNV	RT-PCR
Placer	PLCR668	690	Elverta	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Placer	PLCR668	691	Elverta	Cx. tarsalis	43	CO2	7/9/2013	WNV	RT-PCR
Riverside	COAV48	953	Mecca	Cx. tarsalis	50	CO2	7/2/2013	WNV	RT-PCR
Riverside	NWST99	53	Norco	Cx. quinquefasciatus	24	REST	7/5/2013	WNV	RT-PCR
Riverside	RIVR27	229	San Jacinto	Cx. tarsalis	50	CO2	7/2/2013	WNV	RT-PCR
Riverside	RIVR27	233	San Jacinto	Cx. erythrothorax	50	CO2	7/2/2013	WNV	RT-PCR
Riverside	RIVR52	248	Moreno Valley	Cx. tarsalis	50	CO2	7/3/2013	WNV	RT-PCR
Sacramento	SAYO201005	2510	Sacramento	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Sacramento	SAYO201005	2512	Sacramento	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Sacramento	SAYO201005	2513	Sacramento	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Sacramento	SAYO201005	2515	Sacramento	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Sacramento	SAYO201005	2516	Sacramento	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Sacramento	SAYO212008	2244	Sacramento	Cx. pipiens	22	GRVD	7/5/2013	WNV	RT-PCR
Sacramento	SAYO213035	2235	Sacramento	Cx. tarsalis	26	CO2	7/5/2013	WNV	RT-PCR
Sacramento	SAYO222011	2462	Sacramento	Cx. pipiens	25	GRVD	7/9/2013	WNV	RT-PCR
Sacramento	SAYO232028	2644	Sacramento	Cx. tarsalis	44	CO2	7/9/2013	WNV	RT-PCR
Sacramento	SAYO232028	2645	Sacramento	Cx. pipiens	1	CO2	7/9/2013	WNV	RT-PCR

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Sacramento	SAYO232028	2647	Sacramento	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Sacramento	SAYO232028	2649	Sacramento	Cx. pipiens	5	CO2	7/9/2013	WNV	RT-PCR
Sacramento	SAYO232028	2653	Sacramento	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Sacramento	SAYO232028	2654	Sacramento	Cx. tarsalis	47	CO2	7/9/2013	WNV	RT-PCR
Sacramento	SAYO233039	2441	Elk Grove	Cx. tarsalis	15	CO2	7/5/2013	WNV	RT-PCR
Sacramento	SAYO233039	2443	Elk Grove	Cx. pipiens	2	GRVD	7/5/2013	WNV	RT-PCR
Sacramento	SAYO235013	2595	Wilton	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Sacramento	SAYO243016	2452	Elk Grove	Cx. pipiens	27	CO2	7/5/2013	WNV	RT-PCR
Sacramento	SAYO244007	2587	Wilton	Cx. tarsalis	29	CO2	7/9/2013	WNV	RT-PCR
Sacramento	SAYO244007	2589	Wilton	Cx. pipiens	18	GRVD	7/9/2013	WNV	RT-PCR
Sacramento	SAYO244011	2614	Wilton	Cx. pipiens	40	CO2	7/9/2013	WNV	RT-PCR
Sacramento	SAYO245002	2590	Wilton	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
San Bernardino	WVAL1007	590	Ontario	Cx. quinquefasciatus	42	CO2	7/9/2013	WNV	RT-PCR
San Bernardino	WVAL1007	597	Ontario	Cx. stigmatosoma	32	CO2	7/9/2013	WNV	RT-PCR
San Bernardino	WVAL6002	571	Ontario	Cx. stigmatosoma	43	CO2	7/9/2013	WNV	RT-PCR
San Bernardino	WVAL6004	559	Ontario	Cx. quinquefasciatus	50	GRVD	7/9/2013	WNV	RT-PCR
San Bernardino	WVAL6004	560	Ontario	Cx. quinquefasciatus	50	GRVD	7/9/2013	WNV	RT-PCR
San Bernardino	WVAL6004	598	Ontario	Cx. quinquefasciatus	37	GRVD	7/10/2013	WNV	RT-PCR
San Bernardino	WVAL6007	589	Ontario	Cx. quinquefasciatus	25	GRVD	7/9/2013	WNV	RT-PCR
San Bernardino	WVAL7001	587	Montclair	Cx. quinquefasciatus	16	GRVD	7/9/2013	WNV	RT-PCR
San Joaquin	SJCM7021	721	Stockton	Cx. pipiens	7	GRVD	7/9/2013	WNV	RT-PCR
San Joaquin	SJCM7028	726	Lodi	Cx. pipiens	7	GRVD	7/11/2013	WNV	RT-PCR
San Joaquin	SJCM8003	727	Tracy	Cx. tarsalis	12	CO2	7/11/2013	WNV	RT-PCR
San Joaquin	SJCM8056	676	Manteca	Cx. tarsalis	40	CO2	7/9/2013	WNV	RT-PCR
San Joaquin	SJCM8056	677	Manteca	Cx. pipiens	50	CO2	7/9/2013	WNV	RT-PCR
San Joaquin	SJCM8125	706	Stockton	Cx. pipiens	14	CO2	7/9/2013	WNV	RT-PCR
Santa Clara	STCL2839	4501	San Jose	Cx. pipiens	17	CO2	7/3/2013	WNV	RT-PCR
Sutter	SUYA14	194	Sutter	Cx. tarsalis	50	REST	7/9/2013	WNV	RT-PCR
Sutter	SUYA14	195	Sutter	Cx. tarsalis	36	REST	7/9/2013	WNV	RT-PCR
Sutter	SUYA14	196	Sutter	Cx. tarsalis	35	REST	7/9/2013	WNV	RT-PCR
Sutter	SUYA15	174	Robbins	Cx. tarsalis	36	REST	7/8/2013	WNV	RT-PCR
Sutter	SUYA16	163	Trowbridge	Cx. tarsalis	50	REST	7/8/2013	WNV	RT-PCR
Sutter	SUYA22	166	Tudor	Cx. tarsalis	50	REST	7/8/2013	WNV	RT-PCR
Sutter	SUYA22	167	Tudor	Cx. tarsalis	50	REST	7/8/2013	WNV	RT-PCR
Sutter	SUYA22	186	Tudor	Cx. tarsalis	50	REST	7/9/2013	WNV	RT-PCR
Sutter	SUYA22	188	Tudor	Cx. tarsalis	50	REST	7/9/2013	WNV	RT-PCR
Sutter	SUYA22	189	Tudor	Cx. tarsalis	34	REST	7/9/2013	WNV	RT-PCR
Sutter	SUYA30	191	Live Oak	Cx. tarsalis	50	REST	7/9/2013	WNV	RT-PCR
Sutter	SUYA31	161	Rio Oso	Cx. tarsalis	50	REST	7/8/2013	WNV	RT-PCR
Sutter	SUYA31	162	Rio Oso	Cx. tarsalis	49	REST	7/8/2013	WNV	RT-PCR
Sutter	SUYA31	180	Rio Oso	Cx. tarsalis	50	REST	7/9/2013	WNV	RT-PCR
Sutter	SUYA31	181	Rio Oso	Cx. tarsalis	50	REST	7/9/2013	WNV	RT-PCR
Sutter	SUYA31	182	Rio Oso	Cx. tarsalis	50	REST	7/9/2013	WNV	RT-PCR
Sutter	SUYA31	183	Rio Oso	Cx. tarsalis	50	REST	7/9/2013	WNV	RT-PCR
Sutter	SUYA44	164	Pleasant Grove	Cx. tarsalis	24	REST	7/8/2013	WNV	RT-PCR
Sutter	SUYA44	185	Pleasant Grove	Cx. tarsalis	28	REST	7/9/2013	WNV	RT-PCR
Sutter	SUYA73	170	Meridian	Cx. tarsalis	25	REST	7/8/2013	WNV	RT-PCR
Tulare	DLTA9506	245	Visalia	Cx. quinquefasciatus	21	GRVD	7/11/2013	WNV	RT-PCR
Yolo	SAYO103002	2428	Dunnigan	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO103008	2410	Dunnigan	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO103008	2411	Dunnigan	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO114001	2640	Zamora	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO124007	2634	Woodland	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO125010	2269	Woodland	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR

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Yolo	SAYO125010	2271	Woodland	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO125010	2272	Woodland	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO125010	2273	Woodland	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO125010	2274	Woodland	Cx. tarsalis	52	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO125010	2275	Woodland	Cx. tarsalis	1	GRVD	7/5/2013	WNV	RT-PCR
Yolo	SAYO125012	2262	Woodland	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO125012	2266	Woodland	Cx. tarsalis	39	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO125016	2245	Woodland	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO125016	2252	Woodland	Cx. pipiens	4	GRVD	7/5/2013	WNV	RT-PCR
Yolo	SAYO125020	2257	Woodland	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO125020	2258	Woodland	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO125020	2260	Woodland	Cx. tarsalis	10	GRVD	7/5/2013	WNV	RT-PCR
Yolo	SAYO135006	2573	Woodland	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO135006	2574	Woodland	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO135006	2575	Woodland	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO135006	2576	Woodland	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO135006	2577	Woodland	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO135006	2578	Woodland	Cx. tarsalis	1	GRVD	7/9/2013	WNV	RT-PCR
Yolo	SAYO135010	2289	Woodland	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO135010	2294	Woodland	Cx. pipiens	4	GRVD	7/5/2013	WNV	RT-PCR
Yolo	SAYO135013	2253	Woodland	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO135013	2254	Woodland	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO135013	2255	Woodland	Cx. tarsalis	10	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO135016	2601	Woodland	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO135016	2602	Woodland	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO135016	2603	Woodland	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO135016	2606	Woodland	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO135016	2607	Woodland	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO136010	2617	Woodland	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO136010	2620	Woodland	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO136010	2621	Woodland	Cx. tarsalis	4	GRVD	7/9/2013	WNV	RT-PCR
Yolo	SAYO136010	2622	Woodland	Cx. pipiens	8	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO143009	2627	Winters	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO143009	2628	Winters	Cx. tarsalis	26	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO145008	2345	Davis	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO145008	2348	Davis	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO145008	2352	Davis	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO145008	2353	Davis	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO145008	2355	Davis	Cx. pipiens	6	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO145010	2359	Davis	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO145010	2361	Davis	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO146002	2334	Davis	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO146002	2336	Davis	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO146002	2337	Davis	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO146002	2342	Davis	Cx. tarsalis	3	GRVD	7/5/2013	WNV	RT-PCR
Yolo	SAYO146006	2322	Davis	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO146006	2324	Davis	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO146006	2327	Davis	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO146006	2328	Davis	Cx. tarsalis	50	CO2	7/5/2013	WNV	RT-PCR
Yolo	SAYO146014	2662	W. Sacramento	Cx. tarsalis	50	CO2	7/9/2013	WNV	RT-PCR
Yolo	SAYO147013	2580	W. Sacramento	Cx. tarsalis	42	CO2	7/9/2013	WNV	RT-PCR
Yuba	SUYA10	159	Olivehurst	Cx. tarsalis	34	REST	7/8/2013	WNV	RT-PCR
Yuba	SUYA7	156	Marysville	Cx. tarsalis	41	REST	7/8/2013	WNV	RT-PCR
Yuba	SUYA7	177	Marysville	Cx. tarsalis	19	REST	7/9/2013	WNV	RT-PCR

California Arbovirus Surveillance Bulletin #19

Week 28 Friday, July 12, 2013

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01
Colusa	CLSA0001	Colusa	7/2/2013	WNV	1102
Merced	MERC0006	Merced	7/3/2013	WNV	1480
San Bernardino	WVAL0006	Ontario	6/28/2013	WNV	3760
Sutter	SUYA0020	Meridian	7/3/2013	WNV	2036
Yuba	SUYA0007	Marysville	7/3/2013	WNV	2011

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.

Horses:

Serum or brain tissue specimens from horses displaying neurological symptoms are submitted to the California Animal Health and Safety Laboratory (CAHFS) and tested by EIA and PRNT.

Dead Birds and Tree Squirrels:

Dead birds and tree squirrels are necropsied at CAHFS laboratory at University of California, Davis. Oral swabs from American Crows and kidney tissue from all other dead birds and squirrels are forwarded to the UC Davis Center for Vectorborne Diseases (CVEC) for West Nile virus testing using the singleplex RT-PCR Taqman assay and confirmed with a second primer set.

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 (WEEV), and St. Louis encephalitis (SLEV) viruses by EIA and IFA. Positive samples are confirmed by western-blot or PRNT.

Mosquito Pools:

Mosquito pools are submitted to CVEC and screened for WEEV, SLEV, and WNV viral RNA using a Taqman multiplex RT-PCR. CVEC will cease confirmation 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.
