

California Arbovirus Surveillance Bulletin #20

Week 29 Friday, July 19, 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, six WNV cases had been reported from five counties.

Horses

The first confirmed case of WNV infection in a horse this year has been reported from Stanislaus County. The horse was a 20 year-old unvaccinated mare that developed symptoms on July 14. The horse was euthanized as a result of her illness. At this time last year, no equine cases had been reported.

Dead Birds & Squirrels

Seventy-three WNV positive birds were reported this week from the following 21 counties: Alameda (2), Butte (1), Contra Costa (2), Kern (1), Los Angeles (28), Merced (1), Nevada (1), Orange (1), Placer (1), Riverside (1), Sacramento (9), San Bernardino (1), San Joaquin (6), Santa Clara (1), Shasta (1), Stanislaus (2), Sutter (2), Tulare (1), Ventura (1), Yolo (9), and Yuba (1). **These are the first indications of WNV activity in Alameda, Nevada, and Shasta counties this year,** and the first WNV positive bird detected in Butte and Riverside counties. Three tree squirrels tested positive for WNV infection from two counties: San Bernardino (1) and Santa Clara (2). These are the first WNV positive tree squirrels from both counties this year. An additional five dead birds tested positive for chronic WNV infection from four counties. In 2013, 228 dead birds have tested positive for WNV from 28 counties, 56 dead birds have tested positive for chronic WNV infection from 21 counties, and four dead squirrels have tested positive for WNV from three counties. At this time last year, 432 dead birds had tested positive for WNV from 19 counties.

Mosquito Pools

A total of 158 WNV positive mosquito pools were reported this week from 19 counties: Butte (1), Fresno (5), Kern (5), Kings (10), Lake (2), Los Angeles (28), Madera (2), Merced (2), Placer (4), Riverside (9), Sacramento (28), San Bernardino (12), San Joaquin (8), Shasta (1), Stanislaus (8), Sutter (7), Tulare (1), Yolo (23), and Yuba (2). **These are the first WNV positive mosquito pools detected in Butte, Madera, Merced, and Shasta counties this year.** In 2013, 555 mosquito pools from 22 counties have tested positive for WNV. At this time last year, 593 mosquito pools from 17 counties had tested positive for WNV.

Sentinel Chickens

A total of 15 sentinel chickens tested positive for WNV antibodies this week from six different flocks in two counties: Los Angeles (14) and Riverside (1). In 2013, 27 WNV antibody-positive chickens have been detected among 12 flocks in 7 counties. At this time last year, 19 WNV antibody-positive chickens had been detected among nine flocks in four counties.

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

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2012 & 2013 YTD West Nile Virus Comparisons		
	2012	2013
Total # Dead Bird Reports	8,009	7,392
# Positive Counties	22	30
# Human Cases	6	1
# Horse Cases	0	1
# Positive Dead Birds / # Tested	432 / 1,783	228 / 1,485
# Positive Mosquito Pools / # Tested	593 / 13,103	555 / 14,996
# Seroconversions / # Tested	19 / 9,205	27 / 7,783
# Positive Squirrels / # Tested	0 / 66	4 / 60

YTD WNV Activity by Element and County, 2013						
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			2			
Butte			1	1		1
Colusa					1	
Contra Costa			6	4		
Fresno			3	20		
Glenn			3			
Kern			2	36		
Kings			7	21		
Lake				4		
Los Angeles			72	89	19	
Madera			1	2		
Marin			2			
Merced			16	2	1	
Nevada			1			
Orange			4	2		
Placer			3	22		
Riverside			1	20	3	
Sacramento	1		44	108		
San Bernardino			2	29	1	1
San Diego			1			
San Joaquin			13	25		
Santa Clara			4	1		2
Shasta			1	1		
Solano			3			
Stanislaus		1	5	12		
Sutter			3	42	1	
Tulare			2	7		
Ventura			2			
Yolo			22	99		
Yuba			2	8	1	
Totals	1	1	228	555	27	4

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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	1	0	0	0	0	0
	YTD	1	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	147	73
	YTD	1,485	228
Tree Squirrels	Week	3	3
	YTD	60	4

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	432	15	0	0
	YTD	7,783	27	0	0
Mosquito Pools	Week	1,113	158	0	0
	YTD	14,996	555	0	0

POSITIVES

Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda MAD	Pleasanton	94588	American Crow	7/12/2013	WNV	Recent	RAMP
Alameda	Alameda MAD	Oakland	94602	American Crow	7/16/2013	WNV	Recent	RAMP
Butte	Butte MVCD	Chico	95928	Bullock's Oriole	6/27/2013	WNV	Chronic	RT-PCR
Butte	Butte MVCD	Durham	95938	Yellow-billed Magpie	7/2/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Magalia	95954	Western Scrub-Jay	7/9/2013	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Alamo	94507	American Crow	7/12/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	7/9/2013	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Pittsburg	94565	American Crow	7/17/2013	WNV	Recent	RAMP
Kern	Kern MVCD	Bakersfield	93313	Western Scrub-Jay	7/8/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Whittier	90603	American Crow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Montebello	90640	Common Raven	7/3/2013	WNV	Chronic	RT-PCR
Los Angeles	Greater LA VCD - SFS	Carson	90745	American Crow	6/24/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Carson	90745	Western Scrub-Jay	7/8/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90808	American Kestrel	7/3/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90815	American Crow	7/2/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Palos Verdes Estates	90274	American Crow	7/8/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Rancho Palos Verdes	90275	American Crow	6/30/2013	WNV	Recent	RT-PCR

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Los Angeles	LA Co Vet	Rancho Palos Verdes	90275	American Crow	7/8/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Rancho Palos Verdes	90275	American Crow	7/8/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Rancho Palos Verdes	90275	American Crow	7/2/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/8/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/7/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/9/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/9/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/8/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/7/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/9/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/7/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/9/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/7/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Torrance	90505	American Crow	6/30/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Lomita	90717	Western Scrub-Jay	7/2/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Covina	91722	American Crow	6/21/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Covina	91722	American Crow	6/21/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Covina	91722	American Crow	6/21/2013	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Valley MVCD	Monrovia	91016	American Crow	7/11/2013	WNV	Recent	RAMP
Marin	Marin-Sonoma MVCD	San Rafael	94903	American Crow	7/9/2013	WNV	Chronic	RT-PCR
Merced	Merced Co MAD	Gustine	95322	American Crow	7/2/2013	WNV	Recent	RT-PCR
Nevada	Nevada Co EH	Nevada City	95959	American Crow	7/8/2013	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Seal Beach	90720	American Crow	7/17/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	American Robin	7/11/2013	WNV	Recent	RT-PCR
Riverside	Riverside VCP	Banning	92220	American Crow	7/3/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	7/11/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	American Crow	7/10/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95621	House Finch	7/11/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Scrub-Jay	7/10/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	7/10/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	Cooper's Hawk	7/10/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95822	Western Scrub-Jay	7/10/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	7/10/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95833	American Robin	7/10/2013	WNV	Recent	RT-PCR
San Bernardino	San Bernardino AC	Big Bear Lake	92315	Unknown - Squirrel	7/9/2013	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Chino	91710	American Crow	7/9/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Stockton	95219	House Sparrow	7/16/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Acampo	95220	House Finch	7/18/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Escalon	95320	Western Scrub-Jay	7/17/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Manteca	95337	Finch	7/16/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Ripon	95366	Cooper's Hawk	7/11/2013	WNV	Recent	RT-PCR

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San Joaquin	San Joaquin MVCD	Tracy	95376	Western Scrub-Jay	7/16/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95132	American Crow	7/9/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	Sunnyvale	94087	Eastern Gray Squirrel	7/5/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	Sunnyvale	94087	Eastern Gray Squirrel	7/5/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Redding	96002	Western Scrub-Jay	7/10/2013	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95355	Western Scrub-Jay	7/9/2013	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Oakdale	95361	Western Scrub-Jay	7/9/2013	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Sutter	95982	Western Scrub-Jay	7/8/2013	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95993	American Crow	7/8/2013	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93292	Western Scrub-Jay	7/8/2013	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Simi Valley	93063	American Crow	7/8/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Robin	7/9/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	7/10/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/8/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/10/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/10/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/12/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Northern Mockingbird	7/10/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	American Crow	7/11/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	American Crow	7/11/2013	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Olivehurst	95961	House Finch	7/5/2013	WNV	Recent	RT-PCR

Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Method
Butte	BUCO0034	20	Richvale	Cx. tarsalis	50	CO2	7/9/2013	WNV	RTPCR
Fresno	CNSL2266	184	Sanger	Cx. quinquefasciatus	15	GRVD	7/16/2013	WNV	RTPCR
Fresno	CNSL3069	367	Parlier	Cx. quinquefasciatus	50	GRVD	7/12/2013	WNV	RTPCR
Fresno	CNSL4124	370	Selma	Cx. quinquefasciatus	23	GRVD	7/16/2013	WNV	RTPCR
Fresno	FRWS1101	53	Dos Palos	Cx. tarsalis	50	CO2	7/11/2013	WNV	RTPCR
Fresno	FRWS1101	56	Dos Palos	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Kern	KERN2016	255	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/10/2013	WNV	RTPCR
Kern	KERN2040	246	Arvin	Cx. quinquefasciatus	50	GRVD	7/9/2013	WNV	RTPCR
Kern	KERN0045	249	Buttonwillow	Cx. quinquefasciatus	50	CO2	7/9/2013	WNV	RTPCR
Kern	WEST6237	62	Maricopa	Cx. tarsalis	50	CO2	7/17/2013	WNV	RTPCR
Kern	WEST6237	64	Maricopa	Cx. tarsalis	50	CO2	7/17/2013	WNV	RTPCR
Kings	KNGS3004	105	Lemoore	Cx. tarsalis	34	CO2	7/9/2013	WNV	RTPCR
Kings	KNGS3018	114	Lemoore	Cx. tarsalis	50	CO2	7/11/2013	WNV	RTPCR
Kings	KNGS3018	115	Lemoore	Cx. tarsalis	50	CO2	7/11/2013	WNV	RTPCR
Kings	KNGS3018	116	Lemoore	Cx. tarsalis	50	CO2	7/11/2013	WNV	RTPCR
Kings	KNGS3018	117	Lemoore	Cx. tarsalis	50	CO2	7/11/2013	WNV	RTPCR
Kings	KNGS3022	103	Hanford	Cx. tarsalis	50	CO2	7/9/2013	WNV	RTPCR
Kings	KNGS3062	109	Lemoore	Cx. tarsalis	41	CO2	7/10/2013	WNV	RTPCR
Kings	KNGS3077	127	Hanford	Cx. pipiens	24	CO2	7/12/2013	WNV	RTPCR
Kings	KNGS3085	113	Lemoore	Cx. tarsalis	50	CO2	7/11/2013	WNV	RTPCR
Kings	KNGS3093	112	Lemoore	Cx. pipiens	15	CO2	7/10/2013	WNV	RTPCR
Lake	LAKE0094	86		Cx. tarsalis	50	CO2	7/11/2013	WNV	RTPCR

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Lake	LAKE0094	93		Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Los Angeles	GRLA2017	5682	Toluca Lake	Cx. quinquefasciatus	36	GRVD	7/12/2013	WNV	RTPCR
Los Angeles	GRLA2093	638	South Gate	Cx. quinquefasciatus	50	GRVD	7/10/2013	WNV	RTPCR
Los Angeles	GRLA2100	628	Norwalk	Cx. quinquefasciatus	50	GRVD	7/10/2013	WNV	RTPCR
Los Angeles	GRLA2115	631	Bell	Cx. quinquefasciatus	50	GRVD	7/10/2013	WNV	RTPCR
Los Angeles	GRLA2145	644	Long Beach	Cx. quinquefasciatus	49	GRVD	7/10/2013	WNV	RTPCR
Los Angeles	GRLA2550	5678	Mission Hills	Cx. quinquefasciatus	37	GRVD	7/11/2013	WNV	RTPCR
Los Angeles	GRLA2567	5652	Woodland Hills	Cx. stigmatosoma	20	GRVD	7/10/2013	WNV	RTPCR
Los Angeles	GRLA2604	5666	Los Angeles	Cx. quinquefasciatus	47	GRVD	7/11/2013	WNV	RTPCR
Los Angeles	GRLA2889	646	Lakewood	Cx. quinquefasciatus	42	GRVD	7/10/2013	WNV	RTPCR
Los Angeles	GRLA2890	647	Lakewood	Cx. quinquefasciatus	49	GRVD	7/10/2013	WNV	RTPCR
Los Angeles	GRLA2953	623	Santa Fe Springs	Cx. quinquefasciatus	50	GRVD	7/10/2013	WNV	RTPCR
Los Angeles	GRLA3029	5676	Arleta	Cx. quinquefasciatus	42	GRVD	7/11/2013	WNV	RTPCR
Los Angeles	GRLA3029	5677	Arleta	Cx. quinquefasciatus	20	CO2	7/11/2013	WNV	RTPCR
Los Angeles	GRLA3046	641	Bellflower	Cx. quinquefasciatus	50	GRVD	7/10/2013	WNV	RTPCR
Los Angeles	GRLA3049	629	Downey	Cx. quinquefasciatus	44	GRVD	7/10/2013	WNV	RTPCR
Los Angeles	GRLA3054	630	Bell Gardens	Cx. quinquefasciatus	50	GRVD	7/10/2013	WNV	RTPCR
Los Angeles	GRLA3057	635	Huntington Park	Cx. quinquefasciatus	50	GRVD	7/10/2013	WNV	RTPCR
Los Angeles	GRLA3058	637	Lynwood	Cx. quinquefasciatus	50	GRVD	7/10/2013	WNV	RTPCR
Los Angeles	GRLA3059	639	Paramount	Cx. quinquefasciatus	50	GRVD	7/10/2013	WNV	RTPCR
Los Angeles	GRLA3066	5686	North Hollywood	Cx. quinquefasciatus	36	GRVD	7/12/2013	WNV	RTPCR
Los Angeles	GRLA3069	5683	Valley Village	Cx. quinquefasciatus	15	GRVD	7/12/2013	WNV	RTPCR
Los Angeles	GRLA3070	608	Commerce	Cx. quinquefasciatus	50	GRVD	7/9/2013	WNV	RTPCR
Los Angeles	GRLA3074	614	Lincoln Heights	Cx. quinquefasciatus	50	GRVD	7/9/2013	WNV	RTPCR
Los Angeles	GRLA3076	5680	Valley Glen	Cx. quinquefasciatus	45	GRVD	7/12/2013	WNV	RTPCR
Los Angeles	GRLA3079	5684	Simi Valley	Cx. quinquefasciatus	16	GRVD	7/12/2013	WNV	RTPCR
Los Angeles	LONG905	52	Long Beach	Cx. quinquefasciatus	50	CO2	7/16/2013	WNV	RTPCR
Los Angeles	LONG905	60	Long Beach	Cx. quinquefasciatus	50	CO2	7/16/2013	WNV	RTPCR
Los Angeles	LONG905	65	Long Beach	Cx. quinquefasciatus	50	CO2	7/16/2013	WNV	RTPCR
Madera	MADR1039	29	Madera Ranchos	Cx. tarsalis	20	CO2	7/11/2013	WNV	RTPCR
Madera	MADR1040	28	Madera Ranchos	Cx. tarsalis	26	CO2	7/11/2013	WNV	RTPCR
Merced	MERC1306	37	merced	Cx. tarsalis	3	CO2	7/9/2013	WNV	RTPCR
Merced	MERC0909	31	Merced	Cx. pipiens	16	CO2	7/9/2013	WNV	RTPCR
Placer	PLCR1113	794	Pleasant Grove	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Placer	PLCR1113	795	Pleasant Grove	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Placer	PLCR1113	796	Pleasant Grove	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Placer	PLCR0058	786	LINCOLN	Cx. tarsalis	36	CO2	7/16/2013	WNV	RTPCR
Riverside	RIVR0027	252	San Jacinto	Cx. erythrothorax	50	CO2	7/16/2013	WNV	RTPCR
Riverside	RIVR0027	277	San Jacinto	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Riverside	RIVR0031	263	Nuevo	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Riverside	RIVR0031	264	Nuevo	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Riverside	RIVR0060	272	Hemet	Cx. tarsalis	44	CO2	7/16/2013	WNV	RTPCR
Riverside	RIVR0088	280	Nuevo	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Riverside	RIVR0088	283	Nuevo	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Riverside	RIVR0088	285	Nuevo	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Riverside	RIVR0089	267	Nuevo92571	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Sacramento	SAYO201006	2839	Sacramento	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Sacramento	SAYO201007	2860	Sacramento	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Sacramento	SAYO203008	2705	Elverta	Cx. tarsalis	3	CO2	7/12/2013	WNV	RTPCR
Sacramento	SAYO204025	2698	Citrus Heights	Cx. pipiens	39	GRVD	7/12/2013	WNV	RTPCR
Sacramento	SAYO204037	2678	Citrus Heights	Cx. pipiens	19	GRVD	7/12/2013	WNV	RTPCR
Sacramento	SAYO205003	2669	Orangevale	Cx. pipiens	9	GRVD	7/12/2013	WNV	RTPCR
Sacramento	SAYO222001	2854	Sacramento	Cx. pipiens	14	GRVD	7/16/2013	WNV	RTPCR
Sacramento	SAYO232005	2965	Sacramento	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR

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Sacramento	SAYO232005	2966	Sacramento	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Sacramento	SAYO234019	2793	Elk Grove	Cx. tarsalis	4	CO2	7/12/2013	WNV	RTPCR
Sacramento	SAYO234024	2872	Wilton	Cx. tarsalis	5	CO2	7/16/2013	WNV	RTPCR
Sacramento	SAYO234024	2873	Wilton	Cx. tarsalis	1	GRVD	7/16/2013	WNV	RTPCR
Sacramento	SAYO234024	2874	Wilton	Cx. pipiens	4	CO2	7/16/2013	WNV	RTPCR
Sacramento	SAYO235012	2901	Wilton	Cx. tarsalis	35	CO2	7/16/2013	WNV	RTPCR
Sacramento	SAYO244010	2878	Wilton	Cx. tarsalis	5	CO2	7/16/2013	WNV	RTPCR
Sacramento	SAYO245002	2927	Wilton	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Sacramento	SAYO245023	2875	Wilton	Cx. tarsalis	5	CO2	7/16/2013	WNV	RTPCR
Sacramento	SAYO261002	2760	Isleton	Cx. tarsalis	50	CO2	7/12/2013	WNV	RTPCR
Sacramento	SAYO261002	2761	Isleton	Cx. tarsalis	14	CO2	7/12/2013	WNV	RTPCR
Sacramento	SAYO261003	2787	Isleton	Cx. tarsalis	50	CO2	7/12/2013	WNV	RTPCR
Sacramento	SAYO261003	2789	Isleton	Cx. pipiens	10	CO2	7/12/2013	WNV	RTPCR
Sacramento	SAYO271007	2784	Isleton	Cx. pipiens	2	GRVD	7/12/2013	WNV	RTPCR
Sacramento	SAYO280001	2768	Rio Vista	Cx. tarsalis	50	CO2	7/12/2013	WNV	RTPCR
Sacramento	SAYO280001	2770	Rio Vista	Cx. tarsalis	50	CO2	7/12/2013	WNV	RTPCR
Sacramento	SAYO280001	2771	Rio Vista	Cx. tarsalis	50	CO2	7/12/2013	WNV	RTPCR
Sacramento	SAYO280001	2772	Rio Vista	Cx. tarsalis	50	CO2	7/12/2013	WNV	RTPCR
Sacramento	SAYO280001	2775	Rio Vista	Cx. tarsalis	50	CO2	7/12/2013	WNV	RTPCR
Sacramento	SAYO280001	2776	Rio Vista	Cx. tarsalis	50	CO2	7/12/2013	WNV	RTPCR
San Bernardino	WVAL1007	623	Ontario	Cx. quinquefasciatus	50	CO2	7/16/2013	WNV	RTPCR
San Bernardino	WVAL1009	657	Ontario	Cx. quinquefasciatus	8	REST	7/17/2013	WNV	RTPCR
San Bernardino	WVAL2012	600	Chino	Cx. quinquefasciatus	35	CO2	7/10/2013	WNV	RTPCR
San Bernardino	WVAL2012	602	Chino	Cx. stigmatosoma	28	CO2	7/10/2013	WNV	RTPCR
San Bernardino	WVAL2012	641	Chino	Cx. quinquefasciatus	50	CO2	7/16/2013	WNV	RTPCR
San Bernardino	WVAL2022	645	Fwy CA 60	Cx. quinquefasciatus	12	GRVD	7/16/2013	WNV	RTPCR
San Bernardino	WVAL6004	603	Ontario	Cx. quinquefasciatus	50	GRVD	7/11/2013	WNV	RTPCR
San Bernardino	WVAL6004	604	Ontario	Cx. quinquefasciatus	17	GRVD	7/11/2013	WNV	RTPCR
San Bernardino	WVAL6004	654	Ontario	Cx. quinquefasciatus	9	GRVD	7/17/2013	WNV	RTPCR
San Bernardino	WVAL6009	621	Ontario	Cx. quinquefasciatus	26	GRVD	7/16/2013	WNV	RTPCR
San Bernardino	WVAL6011	615	Ontario	Cx. quinquefasciatus	7	GRVD	7/16/2013	WNV	RTPCR
San Bernardino	WVAL7002	655	Montclair	Cx. quinquefasciatus	19	GRVD	7/17/2013	WNV	RTPCR
San Joaquin	SJCM7026	774	Tracy	Cx. pipiens	1	GRVD	7/18/2013	WNV	RTPCR
San Joaquin	SJCM8018	745	Stockton	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
San Joaquin	SJCM8018	746	Stockton	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
San Joaquin	SJCM8018	747	Stockton	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
San Joaquin	SJCM8018	748	Stockton	Cx. tarsalis	12	CO2	7/16/2013	WNV	RTPCR
San Joaquin	SJCM8056	759	Manteca	Cx. pipiens	53	CO2	7/16/2013	WNV	RTPCR
San Joaquin	SJCM8082	768	Stockton	Cx. tarsalis	6	CO2	7/18/2013	WNV	RTPCR
San Joaquin	SJCM8161	750	Ripon	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Shasta	SHAS10020	82	Anderson	Cx. tarsalis	12	CO2	7/10/2013	WNV	RTPCR
Stanislaus	EAST1013	13142	Modesto	Cx. pipiens	47	CO2	7/9/2013	WNV	RTPCR
Stanislaus	EAST1013	13143	Modesto	Cx. tarsalis	13	CO2	7/9/2013	WNV	RTPCR
Stanislaus	EAST1095	13141	Modesto	Cx. pipiens	28	CO2	7/9/2013	WNV	RTPCR
Stanislaus	TRLK1305	279	Westley	Cx. tarsalis	29	CO2	7/16/2013	WNV	RTPCR
Stanislaus	TRLK0305	267	Grayson	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Stanislaus	TRLK0305	271	Grayson	Cx. pipiens	50	CO2	7/16/2013	WNV	RTPCR
Stanislaus	TRLK9737	274	Grayson	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Stanislaus	TRLK9737	277	Grayson	Cx. tarsalis	32	CO2	7/16/2013	WNV	RTPCR
Sutter	SUYA0014	216	Sutter	Cx. tarsalis	30	REST	7/16/2013	WNV	RTPCR
Sutter	SUYA0016	208	Trowbridge	Cx. tarsalis	50	REST	7/15/2013	WNV	RTPCR
Sutter	SUYA0022	219	Tudor	Cx. tarsalis	37	REST	7/16/2013	WNV	RTPCR
Sutter	SUYA0003	225	Yuba City	Cx. pipiens	6	CO2	7/16/2013	WNV	RTPCR
Sutter	SUYA0031	204	Rio Oso	Cx. tarsalis	50	REST	7/15/2013	WNV	RTPCR

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Sutter	SUYA0031	207	Rio Oso	Cx. tarsalis	45	REST	7/15/2013	WNV	RTPCR
Sutter	SUYA0031	213	Rio Oso	Cx. tarsalis	50	REST	7/16/2013	WNV	RTPCR
Tulare	DLTA8534	236	Visalia	Cx. quinquefasciatus	22	GRVD	7/10/2013	WNV	RTPCR
Yolo	SAYO103005	2945	Dunnigan	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Yolo	SAYO103005	2947	Dunnigan	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Yolo	SAYO103005	2949	Dunnigan	Cx. tarsalis	19	CO2	7/16/2013	WNV	RTPCR
Yolo	SAYO103007	2954	Dunnigan	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Yolo	SAYO114002	2916	Zamora	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Yolo	SAYO114002	2917	Zamora	Cx. tarsalis	41	CO2	7/16/2013	WNV	RTPCR
Yolo	SAYO125012	2717	Woodland	Cx. pipiens	19	GRVD	7/12/2013	WNV	RTPCR
Yolo	SAYO125016	2713	Woodland	Cx. pipiens	3	GRVD	7/12/2013	WNV	RTPCR
Yolo	SAYO135013	2714	Woodland	Cx. tarsalis	6	CO2	7/12/2013	WNV	RTPCR
Yolo	SAYO136010	2919	Woodland	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Yolo	SAYO136010	2920	Woodland	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Yolo	SAYO136010	2922	Woodland	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Yolo	SAYO136010	2923	Woodland	Cx. tarsalis	31	CO2	7/16/2013	WNV	RTPCR
Yolo	SAYO136010	2924	Woodland	Cx. tarsalis	1	GRVD	7/16/2013	WNV	RTPCR
Yolo	SAYO145010	2744	Davis	Cx. tarsalis	19	CO2	7/12/2013	WNV	RTPCR
Yolo	SAYO145016	2732	Davis	Cx. tarsalis	48	CO2	7/12/2013	WNV	RTPCR
Yolo	SAYO145017	2735	Davis	Cx. tarsalis	12	CO2	7/12/2013	WNV	RTPCR
Yolo	SAYO145017	2736	Davis	Cx. pipiens	1	CO2	7/12/2013	WNV	RTPCR
Yolo	SAYO146006	2730	Davis	Cx. pipiens	4	CO2	7/12/2013	WNV	RTPCR
Yolo	SAYO146006	2731	Davis	Cx. pipiens	1	GRVD	7/12/2013	WNV	RTPCR
Yolo	SAYO146014	2906	West Sacramento	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Yolo	SAYO146014	2907	West Sacramento	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Yolo	SAYO146014	2908	West Sacramento	Cx. tarsalis	50	CO2	7/16/2013	WNV	RTPCR
Yuba	SUYA0007	199	Marysville	Cx. tarsalis	44	REST	7/15/2013	WNV	RTPCR
Yuba	SUYA0097	201	Marysville	Cx. tarsalis	9	REST	7/15/2013	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Los Angeles	ANTV8656	Lancaster	7/10/2013	WNV	3608	3612			
Los Angeles	GRLA2132	Wilmington	7/11/2013	WNV	2631	2634	2635	2637	2639
Los Angeles	LACW1002	Torrance	6/26/2013	WNV	1311				
Los Angeles	LACW1001	Rolling Hills Estates	7/2/2013	WNV	1303	1305			
Los Angeles	LONG0002	Long Beach	7/8/2013	WNV	3071	3072	3073	3074	
Riverside	RIVR0002	Nuevo	7/10/2013	WNV	3925				

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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.

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.