

California Arbovirus Surveillance Bulletin #20

Week 27 Friday, July 6, 2012



WEEKLY UPDATE

Human Cases

No new cases have been reported. To date this year, one West Nile virus (WNV) case has been reported from Kern County.

Horses

No equine cases have been reported in 2012.

Dead Birds & Squirrels

A total of 92 WNV positive dead birds were reported this week from 12 counties: Contra Costa (2), Fresno (7), Kern (1), Los Angeles (2), Merced (2), Orange (1), Sacramento (57), San Joaquin (3), Stanislaus (6), Tulare (4), Ventura (3), and Yolo (4). These are the first WNV positive dead birds reported from Fresno and Orange counties this year. In addition, 20 dead birds tested positive for chronic WNV infection this week. In 2012, 315 dead birds have tested positive for recent WNV infection from 16 counties.

At this time last year, 37 dead birds from nine counties had tested positive for WNV.

**In 2010, The University of California, Center for Vectorborne Diseases (CVEC) and the California Department of Public Health, Vector-Borne Disease Section began differentiating between chronic and acute infections in WNV positive dead birds. Birds considered to have chronic infection with WNV are unlikely to have been infected recently with WNV and have limited surveillance utility.*

Mosquito Pools

A total of 88 WNV positive mosquito pools were reported this week from eight counties: Fresno (6), Imperial (1), Kern (20), Los Angeles (6), Placer (3), Sacramento (44), San Joaquin (5), and Yolo (3). This is the first detection of WNV activity in Imperial and Placer counties this year. In 2012, 370 mosquito pools from 14 counties have tested positive for WNV.

At this time last year, 46 mosquito pools had tested positive for WNV from eight counties.

Sentinel Chickens

Three chickens from Riverside (2) and Tulare (1) counties tested positive for WNV antibodies this week. This is the first WNV seroconversion detected in Tulare County this year. In 2012, five WNV antibody-positive chickens have been detected among four flocks in two counties.

At this time last year, no seroconversions had been reported.

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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2011 & 2012 YTD West Nile Virus Comparisons		
	2011	2012
Total # Dead Bird Reports	4,070	6,679
# Positive Counties	12	20
# Human Cases	0	1
# Horse Cases	0	0
# Positive Dead Birds / # Tested	37 / 925	315 / 1,485
# Positive Mosquito Pools / # Tested	46 / 9,819	370 / 10,452
# Seroconversions / # Tested	0 / 8,379	5 / 7,334
# Positive Squirrels / # Tested	0 / 44	0 / 55

YTD WNV Activity by Element and County, 2012

County	Humans	Horses	Dead Birds*	Mosquito Pools	Sentinel Chickens	Squirrels
Contra Costa			4			
Fresno			7	27		
Imperial				1		
Kern	1		4	102		
Los Angeles			8	10		
Merced			7			
Orange			1	1		
Placer				3		
Riverside			1	23	4	
Sacramento			217	171		
San Bernardino				2		
San Joaquin			15	11		
San Mateo			1			
Santa Clara			6			
Solano			2	1		
Stanislaus			12			
Sutter				3		
Tulare			14	8	1	
Ventura			4			
Yolo			12	7		
Totals	1	0	315	370	5	0

**Total does not include chronic infections*

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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	231	92
	YTD	1,485	315
Tree Squirrels	Week	4	0
	YTD	55	0

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	486	3	0	0
	YTD	7,334	5	0	0
Mosquito Pools	Week	935	88	0	0
	YTD	10,452	370	0	0

POSITIVES: WEEK 27

Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Test Result	Method
Butte	Butte Co MVCD	Oroville	95966	House Sparrow	6/25/2012	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	7/2/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Pleasant Hill	94523	American Crow	7/5/2012	WNV	Recent	RAMP
El Dorado	El Dorado VC	South Lake Tahoe	96150	Northern Mockingbird	6/26/2012	WNV	Chronic	RT-PCR
Fresno	Consolidated MAD	Clovis	93619	American Crow	6/26/2012	WNV	Recent	RAMP
Fresno	Fresno MVCD	Fresno	93727	Western Scrub-Jay	6/18/2012	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Fresno	93727	Western Scrub-Jay	6/19/2012	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Fresno	93722	House Finch	6/19/2012	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Fresno	93722	American Crow	6/25/2012	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Fresno	93722	American Crow	6/25/2012	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Fresno	93711	Western Scrub-Jay	6/26/2012	WNV	Recent	RT-PCR
Kern	Kern MVCD	Bakersfield	93301	American Crow	6/24/2012	WNV	Recent	RT-PCR
Kern	Kern MVCD	Bakersfield	93308	Steller's Jay	6/21/2012	WNV	Chronic	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Encino	91436	Northern Mockingbird	6/24/2012	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co Vet	Lancaster	93535	House Sparrow	6/25/2012	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co Vet	Newhall	91321	Barn Owl	6/26/2012	WNV	Chronic	RT-PCR

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Los Angeles	Los Angeles Co West	Los Angeles	90034	American Crow	6/26/2012	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Valley	Sierra Madre	91024	American Crow	6/6/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Atwater	95301	Western Scrub-Jay	6/25/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Atwater	95301	Western Scrub-Jay	6/25/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Santa Ana	92705	American Crow	6/27/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	House Sparrow	6/15/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	House Sparrow	6/20/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	American Crow	6/20/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	6/20/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95816	Western Scrub-Jay	6/20/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95816	Western Scrub-Jay	6/20/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95816	Western Scrub-Jay	6/20/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95826	American Crow	6/21/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	6/22/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Antelope	95843	American Crow	6/26/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Carmichael	95608	American Crow	6/26/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95842	Western Scrub-Jay	6/26/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	American Crow	6/26/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95825	American Crow	6/26/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	McClellan	95652	American Crow	6/27/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Antelope	95843	House Sparrow	6/27/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95815	Western Scrub-Jay	6/27/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	6/27/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	6/27/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	6/27/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	Western Scrub-Jay	6/27/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95819	American Crow	6/27/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95829	Western Scrub-Jay	6/28/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95832	American Crow	6/28/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	6/28/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	6/28/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elverta	95626	American Crow	6/28/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95819	American Crow	6/29/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Folsom	95630	House Finch	6/29/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	6/29/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	6/29/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	American Crow	6/29/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95825	American Crow	6/29/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	American Crow	6/29/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	American Crow	6/30/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	Yellow-billed Magpie	6/30/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95842	American Crow	7/1/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	7/1/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95815	Western Scrub-Jay	7/1/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95825	American Crow	7/1/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95821	Northern Mockingbird	7/1/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95825	American Crow	7/1/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	Western Scrub-Jay	7/1/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95825	American Crow	7/1/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95819	American Crow	7/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	House Finch	7/2/2012	WNV	Recent	RT-PCR

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Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	7/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	Western Scrub-Jay	7/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	American Crow	7/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95819	American Crow	7/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	7/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rio Linda	95673	Yellow-billed Magpie	7/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Carmichael	95605	American Crow	7/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Scrub-Jay	7/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	Western Scrub-Jay	7/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95821	American Crow	7/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95816	American Crow	7/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	Anna's Hummingbird	6/21/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95838	Anna's Hummingbird	6/21/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95820	Northern Mockingbird	6/21/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95827	Northern Mockingbird	6/25/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95833	House Sparrow	6/25/2012	WNV	Chronic	RT-PCR
San Bernardino	Riverside Co VCP	Colton	92324	Red-shouldered Hawk	6/20/2012	WNV	Chronic	RT-PCR
San Francisco	San Francisco EH	San Francisco	94116	Western Scrub-Jay	6/26/2012	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin MVCD	Stockton	95204	Steller's Jay	6/28/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Lathrop	95330	American Crow	6/29/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Stockton	95219	American Robin	7/3/2012	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95356	American Crow	6/25/2012	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95351	Western Scrub-Jay	6/26/2012	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95355	Red-tailed Hawk	6/27/2012	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95355	Red-tailed Hawk	6/27/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Ceres	95307	Western Scrub-Jay	6/22/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Ceres	95307	Western Scrub-Jay	6/27/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95382	Northern Mockingbird	6/19/2012	WNV	Chronic	RT-PCR
Stanislaus	Turlock MAD	Newman	95360	American Crow	6/22/2012	WNV	Chronic	RT-PCR
Tulare	Delta VCD	Visalia	93292	Western Scrub-Jay	6/20/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	Western Scrub-Jay	6/21/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93292	American Crow	6/21/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	6/28/2012	WNV	Recent	RAMP
Tulare	Delta VCD	Visalia	93292	European Starling	6/21/2012	WNV	Chronic	RT-PCR
Tulare	Delta VCD	Visalia	93277	Unknown	6/27/2012	WNV	Chronic	RT-PCR
Tulare	Delta VCD	Visalia	93291	Mourning Dove	6/27/2012	WNV	Chronic	RT-PCR
Ventura	Ventura Co EH	Simi Valley	93063	American Crow	6/20/2012	WNV	Recent	RT-PCR
Ventura	Ventura Co EH	Simi Valley	93063	American Crow	6/26/2012	WNV	Recent	RT-PCR
Ventura	Ventura Co EH	Simi Valley	93063	American Crow	6/26/2012	WNV	Recent	RT-PCR
Ventura	Ventura Co EH	Newbury Park	91320	American Crow	6/20/2012	WNV	Chronic	RT-PCR
Ventura	Ventura Co EH	Simi Valley	93063	American Crow	6/22/2012	WNV	Chronic	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	6/27/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Clarksburg	95612	Ring-necked Pheasant	6/28/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	6/30/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	7/1/2012	WNV	Recent	RT-PCR

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Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Method
Fresno	CNSL1108	177	Clovis	Cx. quinquefasciatus	11	GRVD	6/29/12	WNV	RTPCR
Fresno	CNSL1585	175	Fresno	Cx. quinquefasciatus	33	GRVD	6/29/12	WNV	RTPCR
Fresno	CNSL1802	171	Clovis	Cx. quinquefasciatus	41	GRVD	6/28/12	WNV	RTPCR
Fresno	CNSL1802	174	Clovis	Cx. tarsalis	19	CO2	6/28/12	WNV	RTPCR
Fresno	CNSL2019	179	Clovis	Cx. quinquefasciatus	24	GRVD	7/3/12	WNV	RTPCR
Fresno	CNSL2056	183	Clovis	Cx. stigmatosoma	12	CO2	7/3/12	WNV	RTPCR
Imperial	COAV5001	1689	Niland	Cx. tarsalis	50	CO2	6/26/12	WNV	RTPCR
Kern	KERN1005	740	Bakersfield	Cx. quinquefasciatus	12	GRVD	6/25/12	WNV	RTPCR
Kern	KERN2002	809	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/28/12	WNV	RTPCR
Kern	KERN2007	811	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/28/12	WNV	RTPCR
Kern	KERN2010	799	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/28/12	WNV	RTPCR
Kern	KERN2010	800	Bakersfield	Cx. quinquefasciatus	43	GRVD	6/28/12	WNV	RTPCR
Kern	KERN2014	801	Bakersfield	Cx. quinquefasciatus	29	GRVD	6/28/12	WNV	RTPCR
Kern	KERN2015	768	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/27/12	WNV	RTPCR
Kern	KERN2016	757	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/26/12	WNV	RTPCR
Kern	KERN2018	755	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/26/12	WNV	RTPCR
Kern	KERN2018	756	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/26/12	WNV	RTPCR
Kern	KERN2020	805	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/28/12	WNV	RTPCR
Kern	KERN2024	749	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/26/12	WNV	RTPCR
Kern	KERN2028	802	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/28/12	WNV	RTPCR
Kern	KERN2028	803	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/28/12	WNV	RTPCR
Kern	KERN2030	753	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/26/12	WNV	RTPCR
Kern	KERN2034	741	Bakersfield	Cx. quinquefasciatus	38	GRVD	6/25/12	WNV	RTPCR
Kern	KERN2051	765	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/27/12	WNV	RTPCR
Kern	KERN2051	766	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/27/12	WNV	RTPCR
Kern	KERN2051	767	Bakersfield	Cx. quinquefasciatus	50	GRVD	6/27/12	WNV	RTPCR
Kern	KERN29	782	Lamont	Cx. tarsalis	18	CO2	6/27/12	WNV	RTPCR
Los Angeles	GRLA2334	543	Whittier	Cx. quinquefasciatus	50	GRVD	6/27/12	WNV	RTPCR
Los Angeles	GRLA2512	5603	Los Angeles	Cx. stigmatosoma	31	GRVD	6/28/12	WNV	RTPCR
Los Angeles	GRLA2540	5659	Northridge	Cx. quinquefasciatus	36	GRVD	6/28/12	WNV	RTPCR
Los Angeles	GRLA2554	5654	Winnetka	Cx. quinquefasciatus	49	CO2	6/28/12	WNV	RTPCR
Los Angeles	GRLA2554	5662	Winnetka	Cx. quinquefasciatus	50	GRVD	6/28/12	WNV	RTPCR
Los Angeles	GRLA2554	5665	Winnetka	Cx. quinquefasciatus	28	GRVD	6/28/12	WNV	RTPCR
Placer	PLCR139	528	Roseville	Cx. tarsalis	24	CO2	7/2/12	WNV	RTPCR
Placer	PLCR146	548	Loomis	Cx. stigmatosoma	2	CO2	7/2/12	WNV	RTPCR
Placer	PLCR396	542	Roseville	Cx. tarsalis	3	CO2	7/2/12	WNV	RTPCR
Sacramento	SAYO203028	2433	North Highlands	Cx. tarsalis	9	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO204008	2431	Sacramento	Cx. tarsalis	10	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO204008	2432	Sacramento	Cx. pipiens	3	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO204020	2438	Sacramento	Cx. tarsalis	7	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO204020	2439	Sacramento	Cx. pipiens	1	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO204020	2440	Sacramento	Cx. pipiens	3	GRVD	7/5/12	WNV	RTPCR
Sacramento	SAYO213009	2245	Sacramento	Cx. pipiens	2	CO2	6/29/12	WNV	RTPCR
Sacramento	SAYO213030	2340	Sacramento	Cx. tarsalis	15	CO2	7/3/12	WNV	RTPCR
Sacramento	SAYO213035	2281	Sacramento	Cx. pipiens	6	GRVD	7/3/12	WNV	RTPCR
Sacramento	SAYO213039	2342	Carmichael	Cx. tarsalis	2	CO2	7/3/12	WNV	RTPCR
Sacramento	SAYO223006	2259	South Watt Avenue	Cx. pipiens	3	GRVD	6/29/12	WNV	RTPCR

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Sacramento	SAYO223035	2417	Sacramento	Cx. tarsalis	1	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO223044	2434		Cx. tarsalis	14	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO232001	2242	Sacramento	Cx. tarsalis	10	CO2	6/29/12	WNV	RTPCR
Sacramento	SAYO233005	2471	Elk Grove	Cx. tarsalis	21	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO233005	2472	Elk Grove	Cx. tarsalis	1	GRVD	7/5/12	WNV	RTPCR
Sacramento	SAYO233016	2447	Sacramento	Cx. pipiens	3	GRVD	7/5/12	WNV	RTPCR
Sacramento	SAYO233018	2483	Sacramento	Cx. tarsalis	12	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO233018	2484	Sacramento	Cx. tarsalis	2	GRVD	7/5/12	WNV	RTPCR
Sacramento	SAYO233020	2429	Elk Grove	Cx. tarsalis	28	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO233060	2406	Elk Grove	Cx. tarsalis	50	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO233070	2414	Sacramento	Cx. tarsalis	33	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO233070	2415	Sacramento	Cx. pipiens	5	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO233070	2416	Sacramento	Cx. pipiens	2	GRVD	7/5/12	WNV	RTPCR
Sacramento	SAYO234013	2233	Elk Grove	Cx. tarsalis	12	CO2	6/29/12	WNV	RTPCR
Sacramento	SAYO234013	2234	Elk Grove	Cx. pipiens	26	CO2	6/29/12	WNV	RTPCR
Sacramento	SAYO234016	2282	Wilton	Cx. tarsalis	50	CO2	7/3/12	WNV	RTPCR
Sacramento	SAYO234016	2284	Wilton	Cx. tarsalis	4	GRVD	7/3/12	WNV	RTPCR
Sacramento	SAYO234016	2285	Wilton	Cx. pipiens	42	CO2	7/3/12	WNV	RTPCR
Sacramento	SAYO234016	2286	Wilton	Cx. pipiens	1	GRVD	7/3/12	WNV	RTPCR
Sacramento	SAYO234018	2393	Elk Grove	Cx. tarsalis	38	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO234018	2394	Elk Grove	Cx. pipiens	15	CO2	7/5/12	WNV	RTPCR
Sacramento	SAYO235003	2328	Wilton	Cx. pipiens	9	GRVD	7/3/12	WNV	RTPCR
Sacramento	SAYO235006	2297	Wilton	Cx. tarsalis	11	CO2	7/3/12	WNV	RTPCR
Sacramento	SAYO235006	2298	Wilton	Cx. pipiens	7	CO2	7/3/12	WNV	RTPCR
Sacramento	SAYO235012	2305	Wilton	Cx. pipiens	36	CO2	7/3/12	WNV	RTPCR
Sacramento	SAYO244001	2312	Wilton	Cx. tarsalis	50	CO2	7/3/12	WNV	RTPCR
Sacramento	SAYO244001	2313	Wilton	Cx. tarsalis	6	CO2	7/3/12	WNV	RTPCR
Sacramento	SAYO244001	2316	Wilton	Cx. pipiens	3	GRVD	7/3/12	WNV	RTPCR
Sacramento	SAYO244003	2333	Wilton	Cx. tarsalis	26	CO2	7/3/12	WNV	RTPCR
Sacramento	SAYO244003	2334	Wilton	Cx. pipiens	12	CO2	7/3/12	WNV	RTPCR
Sacramento	SAYO244006	2329	Wilton	Cx. tarsalis	33	CO2	7/3/12	WNV	RTPCR
Sacramento	SAYO244006	2330	Wilton	Cx. tarsalis	1	GRVD	7/3/12	WNV	RTPCR
Sacramento	SAYO245004	2277	Wilton	Cx. tarsalis	29	CO2	7/3/12	WNV	RTPCR
San Joaquin	SJCM8004	324	Lodi	Cx. pipiens	6	CO2	7/3/12	WNV	RTPCR
San Joaquin	SJCM8056	326	Manteca	Cx. tarsalis	50	CO2	7/3/12	WNV	RTPCR
San Joaquin	SJCM8084	325	Stockton	Cx. pipiens	25	CO2	7/3/12	WNV	RTPCR
San Joaquin	SJCM8185	322	Manteca	Cx. pipiens	18	CO2	7/3/12	WNV	RTPCR
San Joaquin	SJCM8194	316	Stockton	Cx. pipiens	6	CO2	6/28/12	WNV	RTPCR
			West						
Yolo	SAYO137005	2319	Sacramento	Cx. pipiens	3	GRVD	7/3/12	WNV	RTPCR
Yolo	SAYO157003	2274	Clarksburg	Cx. tarsalis	7	CO2	7/3/12	WNV	RTPCR
Yolo	SAYO157003	2275	Clarksburg	Cx. tarsalis	1	GRVD	7/3/12	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled**	Virus	Band 01	Band 02
Riverside	COAV000035	Mecca	6/25/2012	WNV	3863	3869
Tulare	DLTA008530	Visalia	6/22/2012	WNV	1755	

**The filter paper bleed date is reported as the date bled when whole blood is requested for confirmation.

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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.

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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