

California Arbovirus Surveillance Bulletin #25

Week 32 Friday, August 10, 2012



WEEKLY UPDATE

Human Cases

Seven new cases of West Nile virus (WNV) were reported this week from Fresno (3), Kern (1), Sacramento (2), and San Joaquin (1) counties. These are the first human cases of WNV from Sacramento and San Joaquin counties in 2012. As of August 9, 2012, a total of 18 human cases of WNV have been identified from eight counties: Fresno (4), Kern (4), Los Angeles (1), Merced (1), Orange (1), Sacramento (2), San Joaquin (1), and Stanislaus (4). Of the 18 cases, 9 (50%) had neuroinvasive illness. Dates of symptom onset for all cases ranged from May 23-July 26, 2012. One WNV-related fatality has been reported in Kern County. A total of 11 WNV-positive blood donors have been reported this year; 3 individuals developed symptoms and were reclassified as cases. At this time last year, 10 WNV cases had been reported from 6 counties.

National Comments: As of August 7, 2012, 390 human cases of WNV had been reported nationwide in 28 states. Of the 390 cases, 253 (65%) were classified as neuroinvasive disease. Eight WNV-related fatalities had been reported in Arizona (1), California (1), Louisiana (1), Mississippi (1), South Dakota (1), and Texas (3).

Horses

No new WNV equine cases were reported this week. In 2012, 4 horses from 4 counties have tested positive for WNV. At this time last year, one equine case of WNV from Los Angeles County had been reported.

Dead Birds & Squirrels

A total of 81 WNV positive dead birds were reported this week from 17 counties: Butte (2), Colusa (2), Contra Costa (4), El Dorado (1), Glenn (4), Kern (2), Los Angeles (7), Merced (2), Placer (10), Sacramento (29), San Bernardino (1), San Joaquin (4), Stanislaus (3), Tehama (1), Tulare (1), Ventura (3), and Yolo (5). This is the first detection of WNV activity in El Dorado and Tehama counties and the first WNV positive dead bird reported from Butte County this year. A total of 2 WNV positive tree squirrels were reported this week from 2 counties: Los Angeles and Santa Clara. These are the first WNV positive tree squirrels reported this year. In addition, 36 dead birds and 1 tree squirrel tested positive for chronic WNV infection this week. In 2012, 648 dead birds have tested positive for recent WNV infection from 26 counties. At this time last year, 152 dead birds from 13 counties and one tree squirrel from one county had tested positive for WNV.

Mosquito Pools

A total of 215 WNV positive mosquito pools were reported this week from 20 counties: Butte (3), Contra Costa (1), Fresno (9), Kern (46), Kings (6), Lake (1), Los Angeles (7), Madera (3), Orange (6), Placer (23), Riverside (13), Sacramento (31), San Joaquin (9), Santa Clara (1), Shasta (1), Sonoma (2), Stanislaus (15), Sutter (4), Tulare (6), and Yolo (28). These are the first WNV positive mosquito pools detected in Santa Clara County, and the first detections of WNV activity in Lake, Shasta and Sonoma counties this year. In 2012, 1,136 mosquito pools from 26 counties have tested positive for WNV. At this time last year, 609 mosquito pools had tested positive for WNV from 16 counties.

Sentinel Chickens

Twenty-seven WNV seroconversions were reported this week from 16 flocks in nine counties: Glenn (1), Imperial (1), Kern (3), Los Angeles (5), Placer (3), San Bernardino (1), Stanislaus (1), Sutter (8), and Yuba (4). These are the first seroconversions detected in Glenn, Imperial, Placer, Stanislaus, and Yuba counties this year. In 2012, 75 WNV antibody-positive chickens have been detected among 36 flocks in 14 counties. At this time last year, 47 WNV positive chickens had been detected from 3 counties.

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2011 & 2012 YTD West Nile Virus Comparisons		
	2011	2012
Total # Dead Bird Reports	5,735	10,046
# Positive Counties	19	32
# Human Cases	10	18
# Horse Cases	1	4
# Positive Dead Birds / # Tested	152 / 1,278	648 / 2,242
# Positive Mosquito Pools / # Tested	609 / 17,541	1,136 / 17,715
# Seroconversions / # Tested	47 / 12,363	75 / 14,958
# Positive Squirrels / # Tested	1/51	2 / 75

YTD WNV Activity by Element and County, 2012						
County	Humans	Horses	Dead Birds*	Mosquito Pools	Sentinel Chickens	Squirrels
Butte			2	6	1	
Colusa			3			
Contra Costa			13	7		
El Dorado			1			
Fresno	4	1	10	78		
Glenn		1	6	4	1	
Imperial				3	1	
Kern	4		12	261	6	
Kings				13		
Lake				1		
Los Angeles	1		33	53	12	1
Madera				7		
Merced	1		14			
Orange	1		1	12		
Placer			15	66	3	
Riverside			2	71	12	
Sacramento	2		354	351	13	
San Bernardino			5	15	7	
San Joaquin	1	1	35	48		
San Mateo			1			
Santa Clara			10	1		1
Santa Cruz			1			
Shasta				1		
Solano			12	1		
Sonoma				2		
Stanislaus	4	1	27	40	1	
Sutter			2	17	9	
Tehama			1			
Tulare			40	21	3	
Ventura			12	1		
Yolo			35	48	2	
Yuba			1	8	4	
Totals	18	4	648	1,136	75	2

**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	7	0	0	0	0	0
	YTD	18	0	0	0	0	0
Horse Cases	Week	0	0	0	0	0	0
	YTD	4	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	144	81
	YTD	2,242	648
Tree Squirrels	Week	5	2
	YTD	75	2

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	486	27	0	0
	YTD	14,958	75	0	0
Mosquito Pools	Week	1613	215	0	0
	YTD	17,715	1,136	0	0

POSITIVES: WEEK 32

Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
12-0012	8/2/2012	FRESNO	52	M	WNND	7/17/12	NO
12-0017	8/7/2012	FRESNO	40	M	WNF	7/25/12	NO
12-0018	8/7/2012	FRESNO	86	M	WNND	7/20/12	NO
12-0014	8/6/2012	KERN	67	M	WNF	6/28/12	NO
12-0015	8/7/2012	SACRAMENTO	31	M	WNF	7/11/12	NO
12-0016	8/7/2012	SACRAMENTO	52	M	WNF	7/26/12	NO
12-0013	8/2/2012	SAN JOAQUIN	73	F	WNND	7/12/12	NO
Presumptive Viremic Blood Donors (Asymptomatic Infections)							
BD12-0006	8/2/2012	FRESNO	73	M			
BD12-0007	8/2/2012	FRESNO	50	M			
BD12-0008	8/2/2012	SAN DIEGO	19	M			

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Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda Co MAD	Hayward	94545	American Crow	7/27/2012	WNV	Chronic	RT-PCR
Butte	Butte Co MVCD	Biggs	95917	Western Scrub-Jay	7/31/2012	WNV	Recent	RT-PCR
Butte	Butte Co MVCD	Oroville	95965	Western Scrub-Jay	7/30/2012	WNV	Recent	RT-PCR
Colusa	Colusa MAD	Colusa	95932	Mallard	7/30/2012	WNV	Recent	RT-PCR
Colusa	Colusa MAD	Colusa	95932	Mallard	7/30/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Discovery Bay	94505	American Crow	8/7/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Knightsen	94513	American Crow	8/8/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Martinez	94553	Western Scrub-Jay	7/25/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Oakley	94561	American Crow	8/2/2012	WNV	Recent	RAMP
El Dorado	El Dorado Co VC	S Lake Tahoe	96150	Steller's Jay	7/30/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado Co VC	S Lake Tahoe	96150	Steller's Jay	8/1/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado Co VC	S Lake Tahoe	96150	American Robin	7/30/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	Western Scrub-Jay	7/30/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	Western Scrub-Jay	7/30/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Willows	95988	American Crow	7/25/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Willows	95988	Western Scrub-Jay	7/27/2012	WNV	Recent	RT-PCR
Kern	Kern MVCD	Bakersfield	93305	American Crow	7/31/2012	WNV	Recent	RT-PCR
Kern	Kern MVCD	Bakersfield	93306	American Crow	7/27/2012	WNV	Recent	RT-PCR
Los Angeles	Antelope Valley MVCD	Lancaster	93535	House Finch	7/26/2012	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Woodland Hills	91367	American Crow	7/25/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90048	American Crow	7/25/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Malibu	90265	American Crow	7/7/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Mailbu	90265	Cooper's Hawk	7/26/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Rancho Palos Verdes	90275	Cooper's Hawk	7/24/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Chatsworth	91311	American Crow	7/27/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Northridge	91325	Red-tailed Hawk	7/24/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Reseda	91335	Fox Squirrel	7/27/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Woodland Hills	91364	American Crow	7/25/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Panorama City	91402	American Crow	7/23/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Lancaster	93535	House Finch	7/25/2012	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Valley MVCD	Arcadia	91007	American Crow	7/26/2012	WNV	Chronic	RT-PCR
Madera	Madera Co MVCD	Coarsegold	93614	American Goldfinch	7/26/2012	WNV	Chronic	RT-PCR
Merced	Merced Co MAD	Atwater	95301	American Crow	7/27/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Atwater	95301	American Crow	7/30/2012	WNV	Recent	RT-PCR
Monterey	N Salinas Valley MAD	Salinas	93901	House Finch	7/31/2012	WNV	Chronic	RT-PCR
Napa	Napa Co MAD	Napa	94558	American Crow	7/27/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Western Bluebird	7/31/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Western Bluebird	7/31/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	American Crow	7/31/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	American Robin	8/3/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95678	Western Scrub-Jay	8/6/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95678	House Finch	8/4/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Granite Bay	95746	Western Scrub-Jay	8/2/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	Western Scrub-Jay	7/26/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	Unknown	7/27/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	Western Scrub-Jay	8/3/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	8/6/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elverta	95626	American Robin	8/7/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elverta	95626	House Sparrow	8/2/2012	WNV	Recent	RT-PCR

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Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	American Crow	8/6/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	American Crow	8/8/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Folsom	95630	American Crow	8/4/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Folsom	95630	American Crow	8/7/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Yellow-billed Magpie	8/1/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Scrub-Jay	7/27/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	American Crow	8/4/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Scrub-Jay	8/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	American Crow	8/7/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	American Crow	8/7/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	McClellan	95652	Western Scrub-Jay	7/26/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	American Crow	7/26/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	8/5/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	House Finch	8/6/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	American Crow	8/4/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	American Crow	8/4/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Gold River	95670	Western Scrub-Jay	8/1/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	House Sparrow	8/4/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	Western Scrub-Jay	8/3/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	House Finch	8/1/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	American Robin	8/5/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	Oak Titmouse	8/6/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	8/3/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95757	American Crow	8/7/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95758	American Robin	8/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95813	House Finch	7/27/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95832	Western Scrub-Jay	8/5/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Antelope	95843	Yellow-billed Magpie	8/4/2012	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Fontana	92335	Rock Dove	7/24/2012	WNV	Chronic	RT-PCR
San Bernardino	West Valley MVCD	Chino	91710	American Crow	7/30/2012	WNV	Chronic	RT-PCR
San Bernardino	West Valley MVCD	Ontario	91761	American Crow	8/1/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95209	Unknown	8/7/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	French Camp	95231	American Crow	7/24/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Lockeford	95237	Western Scrub-Jay	8/3/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Lodi	95240	Western Scrub-Jay	8/5/2012	WNV	Recent	RT-PCR
San Mateo	San Mateo Co MAD	Atherton	94027	House Sparrow	7/31/2012	WNV	Chronic	RT-PCR
San Mateo	San Mateo Co MAD	San Mateo	94403	Canada Goose	7/31/2012	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara	San Jose	95125	Eastern Gray Squirrel	7/25/2012	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara	San Jose	95129	Eastern Gray Squirrel	7/25/2012	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	Cooper's Hawk	7/26/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Santa Cruz	95060	European Starling	8/1/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Santa Cruz	95065	Mourning Dove	8/1/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Scotts Valley	95066	California Towhee	8/1/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Watsonville	95076	American Crow	8/1/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Watsonville	95076	American Crow	8/1/2012	WNV	Chronic	RT-PCR
Shasta	Shasta MVCD	Redding	96003	Acorn Woodpecker	8/1/2012	WNV	Chronic	RT-PCR
Shasta	Shasta MVCD	Anderson, CA	96007	Yellow-billed Magpie	7/30/2012	WNV	Chronic	RT-PCR
Solano	Solano Co MAD	Fairfield	94533	American Crow	7/27/2012	WNV	Chronic	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95401	Common Raven	7/28/2012	WNV	Chronic	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95403	American Crow	7/25/2012	WNV	Chronic	RT-PCR
Stanislaus	East Side MAD	Modesto	95351	American Crow	7/26/2012	WNV	Recent	RT-PCR

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Stanislaus	East Side MAD	Modesto	95357	European Starling	8/1/2012	WNV	Chronic	RT-PCR
Stanislaus	East Side MAD	Modesto	95357	Lesser Goldfinch	7/30/2012	WNV	Chronic	RT-PCR
Stanislaus	East Side MAD	Modesto	95357	Peacock	7/27/2012	WNV	Chronic	RT-PCR
Stanislaus	East Side MAD	Modesto	95357	European Starling	8/1/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95382	American Crow	8/5/2012	WNV	Recent	VecTest
Tehama	Tehama Co MVCD	Cottonwood	96022	Western Scrub-Jay	7/31/2012	WNV	Recent	RT-PCR
Tehama	Tehama Co MVCD	Tehama	96090	Nuttall's Woodpecker	8/1/2012	WNV	Chronic	RT-PCR
Tulare	Delta VCD	Farmersville	93223	Red-tailed Hawk	7/26/2012	WNV	Chronic	RT-PCR
Tulare	Delta VCD	Visalia	93291	Northern Mockingbird	7/27/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93292	American Robin	7/28/2012	WNV	Chronic	RT-PCR
Ventura	Ventura Co EHD	Thousand Oaks	91360	American Crow	7/30/2012	WNV	Chronic	RT-PCR
Ventura	Ventura Co EHD	Simi Valley	93063	American Crow	7/26/2012	WNV	Recent	RT-PCR
Ventura	Ventura Co EHD	Simi Valley	93063	American Crow	7/27/2012	WNV	Recent	RT-PCR
Ventura	Ventura Co EHD	Simi Valley	93065	American Crow	7/31/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	8/5/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	Western Scrub-Jay	7/30/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	8/4/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	American Crow	8/5/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Yellow-billed Magpie	8/6/2012	WNV	Recent	RT-PCR

Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Method
Butte	BUCO0	81	Oroville	Unknown	50	NA	8/3/12	WNV	RTPCR
Butte	BUCO0	86	Oroville	Unknown	50	NA	8/3/12	WNV	RTPCR
Butte	BUCO0	88	Oroville	Unknown	50	NA	8/3/12	WNV	RTPCR
Contra Costa	CNTR9223	243	Antioch	Cx. tarsalis	11	CO2	8/6/12	WNV	RTPCR
Fresno	CNSL1038	452	Fresno	Cx. erythrothorax	48	CO2	8/3/12	WNV	RTPCR
Fresno	CNSL1675	455	Clovis	Cx. quinquefasciatus	17	CO2	8/3/12	WNV	RTPCR
Fresno	CNSL1712	444	Fresno	Cx. quinquefasciatus	25	GRVD	8/2/12	WNV	RTPCR
Fresno	CNSL3314	654	Reedley	Cx. quinquefasciatus	50	GRVD	8/1/12	WNV	RTPCR
Fresno	CNSL4161	661	Fowler	Cx. quinquefasciatus	50	GRVD	8/3/12	WNV	RTPCR
Fresno	CNSL4174	662	Fowler	Cx. quinquefasciatus	44	GRVD	8/3/12	WNV	RTPCR
Fresno	CNSL6173	660	Riverdale	Cx. tarsalis	50	CO2	8/2/12	WNV	RTPCR
Fresno	FRWS1101	123	Dos Palos	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Fresno	FRWS1202	126	Dos Palos	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Kern	KERN1002	1230	Bakersfield	Cx. quinquefasciatus	26	GRVD	7/30/12	WNV	RTPCR
Kern	KERN1005	1231	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/30/12	WNV	RTPCR
Kern	KERN1005	1232	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/30/12	WNV	RTPCR
Kern	KERN111	1346	Arvin	Cx. tarsalis	50	CO2	8/1/12	WNV	RTPCR
Kern	KERN1114	1342	Bakersfield	Cx. quinquefasciatus	50	CO2	8/1/12	WNV	RTPCR
Kern	KERN1137	1363	Bakersfield	Cx. quinquefasciatus	50	CO2	8/2/12	WNV	RTPCR
Kern	KERN115	1254	Bakersfield	Cx. quinquefasciatus	50	CO2	7/30/12	WNV	RTPCR
Kern	KERN115	1255	Bakersfield	Cx. quinquefasciatus	43	CO2	7/30/12	WNV	RTPCR
Kern	KERN115	1256	Bakersfield	Cx. tarsalis	50	CO2	7/30/12	WNV	RTPCR
Kern	KERN115	1257	Bakersfield	Cx. tarsalis	50	CO2	7/30/12	WNV	RTPCR
Kern	KERN115	1258	Bakersfield	Cx. tarsalis	50	CO2	7/30/12	WNV	RTPCR
Kern	KERN115	1259	Bakersfield	Cx. tarsalis	50	CO2	7/30/12	WNV	RTPCR
Kern	KERN121	1355	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/2/12	WNV	RTPCR
Kern	KERN121	1356	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/2/12	WNV	RTPCR
Kern	KERN15	1295	Pumpkin Center	Cx. quinquefasciatus	26	CO2	7/31/12	WNV	RTPCR

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Kern	KERN2007	1353	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/2/12	WNV	RTPCR
Kern	KERN2007	1354	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/2/12	WNV	RTPCR
Kern	KERN2010	1347	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/2/12	WNV	RTPCR
Kern	KERN2011	1293	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/31/12	WNV	RTPCR
Kern	KERN2018	1289	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/31/12	WNV	RTPCR
Kern	KERN2018	1290	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/31/12	WNV	RTPCR
Kern	KERN2020	1348	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/2/12	WNV	RTPCR
Kern	KERN2020	1349	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/2/12	WNV	RTPCR
Kern	KERN2024	1285	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/31/12	WNV	RTPCR
Kern	KERN2025	1357	Bakersfield	Cx. quinquefasciatus	20	GRVD	8/2/12	WNV	RTPCR
Kern	KERN2028	1350	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/2/12	WNV	RTPCR
Kern	KERN2030	1292	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/31/12	WNV	RTPCR
Kern	KERN2031	1358	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/2/12	WNV	RTPCR
Kern	KERN2031	1359	Bakersfield	Cx. quinquefasciatus	19	GRVD	8/2/12	WNV	RTPCR
Kern	KERN2033	1229	Bakersfield	Cx. quinquefasciatus	13	GRVD	7/30/12	WNV	RTPCR
Kern	KERN2040	1309	Arvin	Cx. quinquefasciatus	47	GRVD	8/1/12	WNV	RTPCR
Kern	KERN2042	1308	Lamont	Cx. quinquefasciatus	16	GRVD	8/1/12	WNV	RTPCR
Kern	KERN2049	1307	Lamont	Cx. quinquefasciatus	11	GRVD	8/1/12	WNV	RTPCR
Kern	KERN29	1260	Lamont	Cx. quinquefasciatus	50	CO2	7/30/12	WNV	RTPCR
Kern	KERN29	1261	Lamont	Cx. quinquefasciatus	50	CO2	7/30/12	WNV	RTPCR
Kern	KERN29	1262	Lamont	Cx. quinquefasciatus	50	CO2	7/30/12	WNV	RTPCR
Kern	KERN29	1263	Lamont	Cx. quinquefasciatus	50	CO2	7/30/12	WNV	RTPCR
Kern	KERN29	1264	Lamont	Cx. tarsalis	50	CO2	7/30/12	WNV	RTPCR
Kern	KERN29	1266	Lamont	Cx. tarsalis	50	CO2	7/30/12	WNV	RTPCR
Kern	KERN3004	1314	Bakersfield	Cx. quinquefasciatus	32	CO2	8/1/12	WNV	RTPCR
Kern	KERN3004	1315	Bakersfield	Cx. tarsalis	26	CO2	8/1/12	WNV	RTPCR
Kern	KERN3014	1323	Bakersfield	Cx. tarsalis	50	CO2	8/1/12	WNV	RTPCR
Kern	KERN3024	1248	Bakersfield	Cx. tarsalis	50	CO2	7/30/12	WNV	RTPCR
Kern	KERN3031	1329	Shafter	Cx. quinquefasciatus	50	CO2	8/1/12	WNV	RTPCR
Kern	KERN3031	1330	Shafter	Cx. quinquefasciatus	50	CO2	8/1/12	WNV	RTPCR
Kern	KERN33	1234	Arvin	Cx. quinquefasciatus	23	CO2	7/30/12	WNV	RTPCR
Kings	KNGS3018	272	Lemoore	Cx. tarsalis	50	CO2	8/3/12	WNV	RTPCR
Kings	KNGS3018	273	Lemoore	Cx. tarsalis	50	CO2	8/3/12	WNV	RTPCR
Kings	KNGS3027	284	Lemoore	Cx. tarsalis	50	CO2	8/3/12	WNV	RTPCR
Kings	KNGS3027	286	Lemoore	Cx. pipiens	50	CO2	8/3/12	WNV	RTPCR
Kings	KNGS3060	280	Lemoore	Cx. tarsalis	50	CO2	8/3/12	WNV	RTPCR
Kings	KNGS3074	252	Armona	Cx. tarsalis	50	CO2	8/2/12	WNV	RTPCR
Lake	LAKE94	223		Cx. tarsalis	50	CO2	8/8/12	WNV	RTPCR
Los Angeles	GRLA2334	809	Whittier	Cx. stigmatosoma	19	GRVD	7/31/12	WNV	RTPCR
Los Angeles	GRLA2335	811	Whittier	Cx. quinquefasciatus	22	GRVD	7/31/12	WNV	RTPCR
Los Angeles	GRLA2539	5813	Northridge	Cx. quinquefasciatus	28	GRVD	7/31/12	WNV	RTPCR
Los Angeles	GRLA2549	5814	Granada Hills	Cx. quinquefasciatus	50	GRVD	7/31/12	WNV	RTPCR
Los Angeles	GRLA2550	5816	Mission Hills	Cx. quinquefasciatus	50	GRVD	7/31/12	WNV	RTPCR
Los Angeles	GRLA2550	5817	Mission Hills	Cx. quinquefasciatus	22	GRVD	7/31/12	WNV	RTPCR
Los Angeles	GRLA2937	5821	Burbank	Cx. quinquefasciatus	50	GRVD	7/31/12	WNV	RTPCR
Madera	MADR1006	79	Madera	Cx. quinquefasciatus	25	CO2	8/2/12	WNV	RTPCR
Madera	MADR1076	78	La Vina	Cx. quinquefasciatus	4	CO2	8/2/12	WNV	RTPCR
Madera	MADR6	70		Cx. tarsalis	25	CO2	7/27/12	WNV	RTPCR
Orange	ORCO17	846	Orange	Cx. quinquefasciatus	12	GRVD	8/1/12	WNV	RTPCR
Orange	ORCO170	824	Anaheim	Cx. quinquefasciatus	50	GRVD	7/31/12	WNV	RTPCR
Orange	ORCO198	835	La Habra	Cx. quinquefasciatus	50	GRVD	7/31/12	WNV	RTPCR
Orange	ORCO2	840	Fullerton	Cx. quinquefasciatus	24	GRVD	7/31/12	WNV	RTPCR

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Orange	ORCO33	851	Westminster	Cx. quinquefasciatus	50	GRVD	8/1/12	WNV	RTPCR
Orange	ORCO70	832	Anaheim	Cx. quinquefasciatus	30	GRVD	7/31/12	WNV	RTPCR
Placer	PLCR1025	1010	Lincoln	Cx. tarsalis	13	CO2	7/31/12	WNV	RTPCR
Placer	PLCR1025	1131	Lincoln	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Placer	PLCR1025	1132	Lincoln	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Placer	PLCR1025	1134	Lincoln	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Placer	PLCR1026	1149	Lincoln	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Placer	PLCR1026	1150	Lincoln	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Placer	PLCR1026	1151	Lincoln	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Placer	PLCR1070	1084	Roseville	Cx. pipiens	18	CO2	8/6/12	WNV	RTPCR
Placer	PLCR1070	1085	Roseville	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Placer	PLCR155	1106	Sheridan	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Placer	PLCR17	1076	Sheridan	Cx. pipiens	3	CO2	8/6/12	WNV	RTPCR
Placer	PLCR17	1077	Sheridan	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Placer	PLCR17	1078	Sheridan	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Placer	PLCR25	1072	Lincoln	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Placer	PLCR25	1073	Lincoln	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Placer	PLCR25	1075	Lincoln	Cx. tarsalis	3	CO2	8/6/12	WNV	RTPCR
Placer	PLCR378	1053	Lincoln	Cx. tarsalis	33	CO2	8/1/12	WNV	RTPCR
Placer	PLCR516	1101	Roseville	Cx. tarsalis	26	CO2	8/6/12	WNV	RTPCR
Placer	PLCR525	1091	Lincoln	Cx. pipiens	50	CO2	8/6/12	WNV	RTPCR
Placer	PLCR525	1093	Lincoln	Cx. tarsalis	41	CO2	8/6/12	WNV	RTPCR
Placer	PLCR58	1109	Lincoln	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Placer	PLCR58	1111	Lincoln	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Placer	PLCR95	1080	Lincoln	Cx. pipiens	47	CO2	8/6/12	WNV	RTPCR
Riverside	COAV13	1990	Mecca	Cx. tarsalis	38	CO2	7/31/12	WNV	RTPCR
Riverside	COAV204	2042	Indio	Cx. tarsalis	50	CO2	8/2/12	WNV	RTPCR
Riverside	COAV204	2044	Indio	Cx. tarsalis	50	CO2	8/2/12	WNV	RTPCR
Riverside	COAV30	2009	Mecca	Cx. tarsalis	50	CO2	7/31/12	WNV	RTPCR
Riverside	COAV30	2011	Mecca	Cx. tarsalis	50	CO2	7/31/12	WNV	RTPCR
Riverside	COAV35	2003	Mecca	Cx. tarsalis	50	CO2	7/31/12	WNV	RTPCR
Riverside	COAV35	2004	Mecca	Cx. tarsalis	47	CO2	7/31/12	WNV	RTPCR
Riverside	COAV45	1970	Mecca	Cx. tarsalis	45	CO2	7/31/12	WNV	RTPCR
Riverside	COAV536	1982	Thermal	Cx. tarsalis	13	CO2	7/31/12	WNV	RTPCR
Riverside	COAV536	9001	Thermal	Cx. quinquefasciatus	19	CO2	8/7/12	WNV	RAMP
Riverside	COAV54	1986	Mecca	Cx. tarsalis	22	CO2	7/31/12	WNV	RTPCR
Riverside	COAV540	1995	Mecca	Cx. tarsalis	11	CO2	7/31/12	WNV	RTPCR
Riverside	COAV608	2048	Mecca	Cx. tarsalis	50	CO2	8/2/12	WNV	RTPCR
Sacramento	SAYO201001	4125	Sacramento	Cx. tarsalis	10	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO203011	4102	Antelope	Cx. pipiens	33	GRVD	8/9/12	WNV	RTPCR
Sacramento	SAYO203019	4119	Rio Linda	Cx. pipiens	2	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO205013	3758	Folsom	Cx. pipiens	26	GRVD	8/7/12	WNV	RTPCR
Sacramento	SAYO213028	4090	Carmichael	Cx. pipiens	10	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO213035	4093	Sacramento	Cx. pipiens	16	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO213038	4083	Sacramento	Cx. pipiens	14	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO222032	4008	Sacramento	Cx. pipiens	29	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO223019	4015	Sacramento	Cx. tarsalis	3	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO223019	4018	Sacramento	Cx. pipiens	15	GRVD	8/9/12	WNV	RTPCR
Sacramento	SAYO223043	4024	Sacramento	Cx. pipiens	50	GRVD	8/9/12	WNV	RTPCR
Sacramento	SAYO223043	4025	Sacramento	Cx. pipiens	39	GRVD	8/9/12	WNV	RTPCR
Sacramento	SAYO232017	4133	Elk Grove	Cx. tarsalis	24	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO232017	4134	Elk Grove	Cx. pipiens	43	CO2	8/9/12	WNV	RTPCR

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Sacramento	SAYO232017	4135	Elk Grove	Cx. pipiens	31	GRVD	8/9/12	WNV	RTPCR
Sacramento	SAYO233009	3991	Elk Grove	Cx. tarsalis	27	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO233009	3993	Elk Grove	Cx. pipiens	35	GRVD	8/9/12	WNV	RTPCR
Sacramento	SAYO233021	3996	Elk Grove	Cx. tarsalis	14	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO233021	3999	Elk Grove	Cx. pipiens	37	GRVD	8/9/12	WNV	RTPCR
Sacramento	SAYO233030	4014	Sacramento	Cx. pipiens	13	GRVD	8/9/12	WNV	RTPCR
Sacramento	SAYO234011	3995	Sacramento	Cx. pipiens	2	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO243025	4142	Elk Grove	Cx. pipiens	12	GRVD	8/9/12	WNV	RTPCR
Sacramento	SAYO244011	4043	Wilton	Cx. pipiens	23	GRVD	8/9/12	WNV	RTPCR
Sacramento	SAYO253009	4062	Galt	Cx. tarsalis	29	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO254015	4055	Galt	Cx. pipiens	47	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO254015	4056	Galt	Cx. pipiens	7	GRVD	8/9/12	WNV	RTPCR
Sacramento	SAYO254016	4057	Galt	Cx. tarsalis	13	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO254016	4059	Galt	Cx. pipiens	32	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO254016	4060	Galt	Cx. pipiens	42	GRVD	8/9/12	WNV	RTPCR
Sacramento	SAYO254029	4065	Galt	Cx. tarsalis	50	CO2	8/9/12	WNV	RTPCR
Sacramento	SAYO261002	4137	Isleton	Cx. tarsalis	50	CO2	8/9/12	WNV	RTPCR
San Joaquin	SJCM8010	558	Ripon	Cx. pipiens	34	CO2	8/7/12	WNV	RTPCR
San Joaquin	SJCM8011	555	Ripon	Cx. pipiens	46	CO2	8/7/12	WNV	RTPCR
San Joaquin	SJCM8018	579	Stockton	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
San Joaquin	SJCM8018	581	Stockton	Cx. tarsalis	46	CO2	8/7/12	WNV	RTPCR
San Joaquin	SJCM8020	589	Acampo	Cx. pipiens	10	CO2	8/7/12	WNV	RTPCR
San Joaquin	SJCM8027	598	McDonald Isl. bridge	Cx. pipiens	33	CO2	8/7/12	WNV	RTPCR
San Joaquin	SJCM8056	575	Manteca	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
San Joaquin	SJCM8161	561	Ripon	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
San Joaquin	SJCM8161	562	Ripon	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
Santa Clara	STCL1941	4282	Los Altos	Cx. tarsalis	9	CO2	8/1/12	WNV	RTPCR
Shasta	SHAS10010	429	Anderson	Cx. pipiens	50	CO2	8/3/12	WNV	RTPCR
Sonoma	MARN313	750	Santa Rosa	Cx. stigmatosoma	50	GRVD	7/31/12	WNV	RTPCR
Sonoma	MARN313	753	Santa Rosa	Cx. stigmatosoma	50	GRVD	7/31/12	WNV	RTPCR
Stanislaus	EAST1026	####	Empire	Cx. tarsalis	13	CO2	7/31/12	WNV	RTPCR
Stanislaus	TRLK1105	570	Turlock	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
Stanislaus	TRLK1105	572	Turlock	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
Stanislaus	TRLK305	502	Grayson	Cx. tarsalis	50	CO2	7/31/12	WNV	RTPCR
Stanislaus	TRLK305	514	Grayson	Cx. tarsalis	50	CO2	7/31/12	WNV	RTPCR
Stanislaus	TRLK432	553	Turlock	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
Stanislaus	TRLK432	554	Turlock	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
Stanislaus	TRLK432	556	Turlock	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
Stanislaus	TRLK516	580	Denair	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
Stanislaus	TRLK516	587	Denair	Cx. pipiens	49	CO2	8/7/12	WNV	RTPCR
Stanislaus	TRLK530	539	Turlock	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
Stanislaus	TRLK530	540	Turlock	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
Stanislaus	TRLK613	590	Hickman	Cx. pipiens	44	CO2	8/7/12	WNV	RTPCR
Stanislaus	TRLK9737	601	Grayson	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Stanislaus	TRLK9737	606	Grayson	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Sutter	SUYA15	299	Robbins	Cx. tarsalis	10	REST	8/7/12	WNV	RTPCR
Sutter	SUYA18	274	Sutter National Wild	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Sutter	SUYA18	286	Sutter National Wild	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Sutter	SUYA20	256	Meridian	Cx. tarsalis	50	CO2	7/31/12	WNV	RTPCR

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Tulare	DLTA6407	160	Dinuba	Cx. quinquefasciatus	50	GRVD	8/1/12	WNV	RTPCR
Tulare	DLTA6408	163	Dinuba	Cx. quinquefasciatus	22	GRVD	8/1/12	WNV	RTPCR
Tulare	DLTA8505	151		Cx. quinquefasciatus	44	CO2	7/31/12	WNV	RTPCR
Tulare	DLTA8508	154	Visalia	Cx. quinquefasciatus	50	CO2	7/31/12	WNV	RTPCR
Tulare	DLTA9604	138	Exeter	Cx. quinquefasciatus	15	GRVD	7/27/12	WNV	RTPCR
Tulare	TLRE89	29	Tulare	Cx. tarsalis	46	CO2	8/8/12	WNV	RTPCR
Yolo	SAYO103006	3864	Dunnigan	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO103006	3865	Dunnigan	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO103006	3867	Dunnigan	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO103006	3868	Dunnigan	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO103006	3870	Dunnigan	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO103006	3871	Dunnigan	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO103006	3874	Dunnigan	Cx. pipiens	1	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO103007	3795	Dunnigan	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO103007	3796	Dunnigan	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO114001	3828	Zamora	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO114001	3830	Zamora	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO114001	3832	Zamora	Cx. tarsalis	32	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO115003	3772	Knights Landing	Cx. pipiens	7	GRVD	8/7/12	WNV	RTPCR
Yolo	SAYO116002	3973	Knights Landing	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO125004	3896	Woodland	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO125004	3902	Woodland	Cx. pipiens	25	GRVD	8/7/12	WNV	RTPCR
Yolo	SAYO125005	3920	Woodland	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO125005	3923	Woodland	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO125009	3773	Woodland	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO125009	3774	Woodland	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO125009	3775	Woodland	Cx. tarsalis	47	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO125009	3776	Woodland	Cx. tarsalis	1	GRVD	8/7/12	WNV	RTPCR
Yolo	SAYO125016	3887	Woodland	Cx. pipiens	19	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO135006	3819	Woodland	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO135006	3860	Woodland	Cx. tarsalis	3	GRVD	8/7/12	WNV	RTPCR
Yolo	SAYO135012	3806	Woodland	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO136009	3905	Woodland	Cx. tarsalis	40	CO2	8/7/12	WNV	RTPCR
Yolo	SAYO145013	3852	Davis	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR

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Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Glenn	GLEN009701	Willows	8/1/2012	WNV	1678			
Imperial	COAV005001	Niland	7/23/2012	WNV	3905			
Kern	AFSB000130	Bakersfield	7/23/2012	WNV	2007			
Kern	AFSB000107	Bakersfield	8/6/2012	WNV	2047			
Kern	AFSB000109	Bakersfield	8/6/2012	WNV	2070			
Los Angeles	ANTV002667	Palmdale	7/25/2012	WNV	1246	1243	1245	
Los Angeles	ANTV002887	Lancaster	7/25/2012	WNV	1231	1235		
Placer	PLCR000017	Sheridan	7/30/2012	WNV	2802	2804	2806	
San Bernardino	SANB000007	Fontana	8/1/2012	WNV	1359			
Stanislaus	EAST001959	Oakdale	8/1/2012	WNV	1789			
Sutter	SUYA000015	Robbins	8/6/2012	WNV	1498			
Sutter	SUYA000020	Meridian	8/7/2012	WNV	1489			
Sutter	SUYA000030	Live Oak	8/2/2012	WNV	1464	1466		
Sutter	SUYA000084	Yuba City	8/2/2012	WNV	1434	1436	1437	1438
Yuba	SUYA000007	Marysville	8/2/2012	WNV	1442			
Yuba	SUYA000010	Olivehurst	8/2/2012	WNV	1453	1454	1456	

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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.

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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
