

California Arbovirus Surveillance Bulletin #26

Week 33 Friday, August 17, 2012



WEEKLY UPDATE

Human Cases

Eight new cases of West Nile virus (WNV) were reported this week from Butte (1), Kern (2), Los Angeles (1), San Joaquin (1), Stanislaus (2), and Ventura (1) counties. These are the first human cases of WNV from Butte and Ventura counties. As of August 16, 2012, a total of 26 human cases of West Nile virus (WNV) illness have been identified in 10 counties: Butte (1), Fresno (4), Kern (6), Los Angeles (2), Merced (1), Orange (1), Sacramento (2), San Joaquin (2), Stanislaus (6), and Ventura (1). Of the 26 cases, 15 (58%) had neuroinvasive illness. Dates of symptom onset for all cases ranged from May 23-August 2, 2012. One WNV-related fatality has been reported in Kern County. A total of 12 WNV-positive blood donors have been reported this year; 4 individuals developed symptoms and were reclassified as cases. At this time last year, 12 WNV cases had been reported from 6 counties.

National Comments: As of August 14, 2012, 693 human cases of WNV had been reported nationwide in 32 states. This is the highest number of cases reported through the second week of August since 2003. Of the 693 cases, 406 (59%) were classified as neuroinvasive disease, and 26 (4%) died.

Horses

Two new WNV equine cases were reported this week: an unvaccinated 2-year old filly from Fresno County with onset date of 8/7, and an unvaccinated yearling filly from Yolo County with onset date of 8/12. This is the first equine case of WNV reported from Yolo County this year. In 2012, 6 horses from 5 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 69 WNV positive dead birds were reported this week from 18 counties: Butte (2), Contra Costa (1), El Dorado (1), Fresno (2), Glenn (2), Los Angeles (13), Orange (7), Placer (5), Sacramento (22), San Bernardino (1), San Joaquin (1), Sonoma (2), Stanislaus (1), Sutter (1), Tulare (1), Ventura (1), Yolo (4), and Yuba (2). These are the first WNV positive dead birds reported from Sonoma County this year. In addition, 48 dead birds and 3 tree squirrels tested positive for chronic WNV infection this week. In 2012, 717 dead birds and 2 tree squirrels have tested positive for recent WNV infection from 27 and 2 counties, respectively. At this time last year, 175 dead birds from 15 counties and one tree squirrel from one county had tested positive for WNV.

Mosquito Pools

A total of 211 WNV positive mosquito pools were reported this week from 23 counties: Butte (3), Contra Costa (1), Fresno (9), Kern (44), Kings (10), Lake (4), Los Angeles (20), Merced (1), Napa (1), Orange (6), Placer (6), Riverside (23), Sacramento (15), San Bernardino (9), San Joaquin (15), Shasta (4), Solano (2), Stanislaus (19), Sutter (1), Tulare (6), Ventura (1), Yolo (8), and Yuba (3). This is the first WNV positive mosquito pool detected in Merced County and the first detection of WNV activity in Napa County this year. In 2012, 1,347 mosquito pools from 28 counties have tested positive for WNV. At this time last year, 808 mosquito pools had tested positive for WNV from 19 counties.

Sentinel Chickens

Fifty-six WNV seroconversions were reported this week from 25 flocks in seven counties: Butte (16), Imperial (1), Kern (11), Los Angeles (11), Riverside (9), San Bernardino (6), and Tulare (2). In 2012, 131 WNV

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antibody-positive chickens have been detected among 46 flocks in 14 counties. At this time last year, 55 WNV positive chickens had been detected from 3 counties.

2011 & 2012 YTD West Nile Virus Comparisons		
	2011	2012
Total # Dead Bird Reports	6,258	10,807
# Positive Counties	21	33
# Human Cases	12	26
# Horse Cases	1	6
# Positive Dead Birds / # Tested	175 / 1,355	717 / 2,415
# Positive Mosquito Pools / # Tested	808 / 19,366	1,347 / 19,231
# Seroconversions / # Tested	55 / 13,543	131 / 15,787
# Positive Squirrels / # Tested	1 / 56	2 / 78

YTD WNV Activity by Element and County, 2012						
County	Humans	Horses	Dead Birds*	Mosquito Pools	Sentinel Chickens	Squirrels
Butte	1		4	9	17	
Colusa			3			
Contra Costa			14	8		
El Dorado			2			
Fresno	4	2	12	87		
Glenn		1	8	4	1	
Imperial				3	2	
Kern	6		12	305	17	
Kings				23		
Lake				5		
Los Angeles	2		46	73	23	1
Madera				7		
Merced	1		14	1		
Napa				1		
Orange	1		8	18		
Placer			20	72	3	
Riverside			2	94	21	
Sacramento	2		376	366	13	
San Bernardino			6	24	13	
San Joaquin	2	1	36	63		
San Mateo			1			
Santa Clara			10	1		1
Santa Cruz			1			
Shasta				5		
Solano			12	3		
Sonoma			2	2		
Stanislaus	6	1	28	59	1	
Sutter			3	18	9	
Tehama			1			
Tulare			41	27	5	
Ventura	1		13	2		
Yolo		1	39	56	2	
Yuba			3	11	4	
Totals	26	6	717	1,347	131	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	8	0	0	0	0	0
	YTD	26	0	0	0	0	0
Horse Cases	Week	2	0	0	0	0	0
	YTD	6	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	173	69
	YTD	2,415	717
Tree Squirrels	Week	3	0
	YTD	78	2

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	829	56	0	0
	YTD	15,787	131	0	0
Mosquito Pools	Week	1516	211	0	0
	YTD	19,231	1,347	0	0

POSITIVES: WEEK 33

Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
12-0024	8/14/2012	BUTTE	>18	F	WNND	7/1/2012	NO
12-0022	8/13/2012	KERN	32	F	WNND	7/9/2012	NO
12-0023	8/13/2012	KERN	54	M	WNND	7/25/2012	NO
12-0020	8/2/2012	LOS ANGELES	54	M	WNF	7/23/2012	NO
12-0026	8/15/2012	SAN JOAQUIN	62	M	WNND	7/17/2012	NO
12-0021	8/9/2012	STANISLAUS	50	F	WNF	7/21/2012	NO
12-0025	8/14/2012	STANISLAUS	74	M	WNND	8/2/2012	NO
12-0019	8/9/2012	VENTURA	>18	n/a	WNND	n/a	NO
Presumptive Viremic Blood Donors (Asymptomatic Infections)							
ID	Report Date	County	Age	Sex			
BD12-0009	8/13/2012	HUMBOLDT	>18	F			
BD12-0010	8/16/2012	SAN JOAQUIN	46	M			

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Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda Co MAD	Livermore	94550	Barn Owl	8/7/2012	WNV	Chronic	RT-PCR
Alameda	Alameda Co MAD	Livermore	94550	American Robin	8/1/2012	WNV	Chronic	RT-PCR
Alameda	Alameda Co MAD	Oakland	94602	House Finch	8/6/2012	WNV	Chronic	RT-PCR
Alameda	Alameda Co MAD	Oakland	94610	American Robin	8/6/2012	WNV	Chronic	RT-PCR
Alameda	Alameda County MAD	Berkeley	94710	Fox Squirrel	8/3/2012	WNV	Chronic	RT-PCR
Butte	Butte Co MVCD	Chico	95928	Yellow-billed Magpie	8/8/2012	WNV	Recent	RT-PCR
Butte	Butte Co MVCD	Durham	95928	Yellow-billed Magpie	8/5/2012	WNV	Chronic	RT-PCR
Butte	Butte Co MVCD	Oroville	95966	Western Scrub-Jay	8/7/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	Western Scrub-Jay	8/9/2012	WNV	Recent	RAMP
El Dorado	El Dorado Co EM	Cameron Park	95682	Black-headed Grosbeak	8/2/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado Co VC	S Lake Tahoe	96150	American Robin	8/2/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado Co VC	S Lake Tahoe	96150	American Robin	8/3/2012	WNV	Recent	RT-PCR
Fresno	Consolidated MAD	Fresno	93720	American Crow	8/9/2012	WNV	Recent	RAMP
Fresno	Fresno MVCD	Fresno	93704	Western Tanager	8/7/2012	WNV	Chronic	RT-PCR
Fresno	Fresno MVCD	Fresno	93705	House Sparrow	8/1/2012	WNV	Chronic	RT-PCR
Fresno	Fresno MVCD	Fresno	93706	House Finch	8/6/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	Yellow-billed Magpie	8/8/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	House Sparrow	8/1/2012	WNV	Chronic	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	European Starling	8/2/2012	WNV	Chronic	RT-PCR
Glenn	Glenn Co MVCD	Willows	95988	American Crow	8/8/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Willows	95988	American Crow	8/2/2012	WNV	Chronic	RT-PCR
Humboldt	Humboldt Co EH	Arcata	95521	Seagull	8/7/2012	WNV	Chronic	RT-PCR
Los Angeles	Greater LA VCD	Reseda	91335	House Finch	8/6/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Santa Monica	90025	American Crow	8/8/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90026	American Crow	8/8/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Winnetka	91306	Cooper's Hawk	8/8/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	91311	Cooper's Hawk	8/8/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Chatsworth	91311	American Crow	8/8/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Chatsworth	91311	American Crow	8/8/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Northridge	91324	American Crow	8/8/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Reseda	91335	American Crow	8/8/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Granada Hills	91344	American Crow	8/8/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Santa Clarita	91350	Barn Owl	8/8/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Sherman oaks	91423	American Crow	8/8/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Hacienda Heights	91745	Black Phoebe	8/2/2012	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co West VCD	Los Angeles	90004	American Crow	8/6/2012	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co West VCD	Los Angeles	90066	American Crow	8/8/2012	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co West VCD	Culver City	90230	American Crow	8/7/2012	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co West VCD	Calabasas	91302	Cliff Swallow	8/2/2012	WNV	Chronic	RT-PCR
Los Angeles	San Gabriel Valley MVCD	Baldwin Park	91706	Cooper's Hawk	8/1/2012	WNV	Recent	RT-PCR
Marin	Marin-Sonoma MVCD	Novato	94945	Western Scrub-Jay	8/7/2012	WNV	Chronic	RT-PCR
Merced	Merced Co MAD	Gustine	95322	American Robin	7/20/2012	WNV	Chronic	RT-PCR
Napa	Napa Co MAD	Napa	94558	Western Tanager	8/2/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	La Habra	90631	House Sparrow	7/26/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Laguna Beach	92651	Northern Mockingbird	7/30/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Santa Ana	92705	American Crow	7/26/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Santa Ana	92706	American Crow	8/7/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Tustin	92780	American Crow	8/3/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Fullerton	92833	Western Bluebird	8/2/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Orange	92865	American Crow	7/31/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Auburn	95602	Mourning Dove	7/23/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Auburn	95602	Evening Grosbeak	7/16/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Auburn	95603	Nuttall's Woodpecker	7/16/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Unknown	8/7/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	American Robin	7/16/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Roseville	95661	Northern Mockingbird	7/24/2012	WNV	Chronic	RT-PCR

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Placer	Placer MVCD	Roseville	95678	American Robin	7/17/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Granite Bay	95746	California Towhee	8/8/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Granite Bay	95746	Green Heron	7/25/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Roseville	95747	Western Scrub-Jay	8/7/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	Unknown	8/9/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Tahoe City	96145	Steller's Jay	7/19/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Tahoe Vista	96148	Mallard	7/20/2012	WNV	Chronic	RT-PCR
Riverside	Riverside Co VCP	Banning	92220	Red-tailed Hawk	8/7/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	8/12/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95621	American Crow	8/10/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Folsom	95630	American Crow	7/31/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Scrub-Jay	8/8/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	American Robin	8/8/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	American Crow	8/10/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Scrub-Jay	8/13/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	8/9/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	American Crow	8/13/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	Western Scrub-Jay	8/11/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	House Wren	7/29/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Walnut Grove	95690	Western Scrub-Jay	8/10/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	8/8/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	8/9/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	8/11/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	8/14/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95742	Brewer's Blackbird	7/27/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95757	American Robin	8/11/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95757	House Finch	8/1/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95827	American Crow	8/13/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	House Finch	8/14/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95833	Black-crowned Night-Heron	8/8/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95834	American Robin	8/10/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95838	American Crow	7/30/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Antelope	95843	Western Scrub-Jay	8/8/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Antelope	95843	American Crow	8/13/2012	WNV	Recent	RT-PCR
San Benito	San Benito Env Health	Hollister	95023	House Sparrow	8/6/2012	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	Crestline	92325	Western Screech Owl	8/7/2012	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	Big Bear Lake	92333	Brewer's Blackbird	8/6/2012	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	San Bernardino	92407	House Finch	8/5/2012	WNV	Chronic	RT-PCR
San Bernardino	West Valley MVCD	Chino	91710	Northern Mockingbird	8/6/2012	WNV	Recent	RT-PCR
San Francisco	San Francisco EHD	San Francisco	94114	House Finch	8/8/2012	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin Co MVCD	Lodi	95242	Western Scrub-Jay	8/13/2012	WNV	Recent	RT-PCR
San Mateo	San Mateo Co MAD	Atherton	94027	American Crow	8/2/2012	WNV	Chronic	RT-PCR
San Mateo	San Mateo Co. MAD	Menlo Park	94025	Eastern Gray Squirrel	8/2/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz	Scotts Valley	95066	Beechey Squirrel	8/7/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Ben Lomond	95005	House Sparrow	8/7/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Watsonville	95076	California Towhee	8/7/2012	WNV	Chronic	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95404	House Finch	8/6/2012	WNV	Chronic	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95407	American Crow	8/6/2012	WNV	Recent	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95407	American Crow	8/6/2012	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95357	House Finch	8/6/2012	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95991	Sparrow	8/7/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	House Finch	8/6/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	8/1/2012	WNV	Chronic	RT-PCR
Tulare	Delta VCD	Visalia	93277	House Sparrow	8/6/2012	WNV	Chronic	RT-PCR
Ventura	City Of Moorpark VCD	Moorpark	93021	American Crow	8/8/2012	WNV	Recent	RT-PCR
Ventura	Ventura Co EHD	Thousand Oaks	91362	House Finch	8/2/2012	WNV	Chronic	RT-PCR
Ventura	Ventura Co EHD	Camarillo	93012	American White Pelican	8/7/2012	WNV	Chronic	RT-PCR
Ventura	Ventura Co EHD	Simi Valley	93065	American Crow	8/6/2012	WNV	Chronic	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Robin	8/12/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	West Sacramento	95691	House Finch	7/29/2012	WNV	Recent	RT-PCR

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Yolo	Sac-Yolo MVCD	Woodland	95695	American Crow	8/10/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	American Crow	8/10/2012	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Marysville	95901	American Crow	8/6/2012	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Marysville	95901	House Sparrow	8/7/2012	WNV	Recent	RT-PCR

Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Method
Butte	BUCO37	91	Honcut	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Butte	BUCO37	92	Honcut	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Butte	BUCO37	93	Honcut	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Contra Costa	CNTR3966	274	Brentwood	Cx. pipiens	8	CO2	8/16/12	WNV	RAMP
Fresno	CNSL1437	465	Clovis	Cx. quinquefasciatus	19	GRVD	8/10/12	WNV	RTPCR
Fresno	CNSL2409	467	Sanger	Cx. stigmatosoma	21	CO2	8/10/12	WNV	RTPCR
Fresno	CNSL2409	469	Sanger	Cx. tarsalis	20	CO2	8/10/12	WNV	RTPCR
Fresno	CNSL5061	468	Parlier	Cx. quinquefasciatus	15	GRVD	8/10/12	WNV	RTPCR
Fresno	FRWS1101	141	Dos Palos	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Fresno	FRWS1101	142	Dos Palos	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Fresno	FRWS200002	135	Mendota	Cx. tarsalis	23	CO2	8/9/12	WNV	RTPCR
Fresno	FRWS2105	146	Dos Palos	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Fresno	FRWS5110	148	Tranquillity	Cx. tarsalis	40	CO2	8/14/12	WNV	RTPCR
Kern	KERN1002	1371	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/6/12	WNV	RTPCR
Kern	KERN1002	1372	Bakersfield	Cx. quinquefasciatus	36	GRVD	8/6/12	WNV	RTPCR
Kern	KERN111	1466	Arvin	Cx. quinquefasciatus	50	CO2	8/8/12	WNV	RTPCR
Kern	KERN1114	1475	Bakersfield	Cx. quinquefasciatus	28	CO2	8/8/12	WNV	RTPCR
Kern	KERN1121	1473	Arvin	Cx. quinquefasciatus	12	CO2	8/8/12	WNV	RTPCR
Kern	KERN1137	1517	Bakersfield	Cx. quinquefasciatus	50	CO2	8/9/12	WNV	RTPCR
Kern	KERN1137	1518	Bakersfield	Cx. quinquefasciatus	50	CO2	8/9/12	WNV	RTPCR
Kern	KERN114	1463	Bakersfield	Cx. quinquefasciatus	50	CO2	8/8/12	WNV	RTPCR
Kern	KERN114	1464	Bakersfield	Cx. quinquefasciatus	27	CO2	8/8/12	WNV	RTPCR
Kern	KERN114	1465	Bakersfield	Cx. tarsalis	36	CO2	8/8/12	WNV	RTPCR
Kern	KERN115	1373	Bakersfield	Cx. quinquefasciatus	50	CO2	8/6/12	WNV	RTPCR
Kern	KERN115	1376	Bakersfield	Cx. quinquefasciatus	50	CO2	8/6/12	WNV	RTPCR
Kern	KERN115	1377	Bakersfield	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Kern	KERN115	1380	Bakersfield	Cx. tarsalis	50	CO2	8/6/12	WNV	RTPCR
Kern	KERN121	1505	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/9/12	WNV	RTPCR
Kern	KERN121	1506	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/9/12	WNV	RTPCR
Kern	KERN2002	1507	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/9/12	WNV	RTPCR
Kern	KERN2005	1368	Bakersfield	Cx. quinquefasciatus	33	GRVD	8/6/12	WNV	RTPCR
Kern	KERN2011	1425	Bakersfield	Cx. quinquefasciatus	35	GRVD	8/7/12	WNV	RTPCR
Kern	KERN2014	1500	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/9/12	WNV	RTPCR
Kern	KERN2015	1438	Bakersfield	Cx. quinquefasciatus	48	GRVD	8/8/12	WNV	RTPCR
Kern	KERN2018	1423	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/7/12	WNV	RTPCR
Kern	KERN2018	1424	Bakersfield	Cx. quinquefasciatus	20	GRVD	8/7/12	WNV	RTPCR
Kern	KERN2020	1502	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/9/12	WNV	RTPCR
Kern	KERN2020	1503	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/9/12	WNV	RTPCR
Kern	KERN2028	1498	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/9/12	WNV	RTPCR
Kern	KERN2028	1499	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/9/12	WNV	RTPCR
Kern	KERN2030	1430	Bakersfield	Cx. quinquefasciatus	36	GRVD	8/7/12	WNV	RTPCR
Kern	KERN2034	1370	Bakersfield	Cx. quinquefasciatus	29	GRVD	8/6/12	WNV	RTPCR
Kern	KERN2040	1441	Arvin	Cx. quinquefasciatus	50	GRVD	8/8/12	WNV	RTPCR
Kern	KERN2042	1443	Lamont	Cx. quinquefasciatus	42	GRVD	8/8/12	WNV	RTPCR

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Kern	KERN2049	1440	Lamont	Cx. quinquefasciatus	45	GRVD	8/8/12	WNV	RTPCR
Kern	KERN2051	1436	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/8/12	WNV	RTPCR
Kern	KERN29	1451	Lamont	Cx. quinquefasciatus	50	CO2	8/8/12	WNV	RTPCR
Kern	KERN29	1452	Lamont	Cx. tarsalis	43	CO2	8/8/12	WNV	RTPCR
Kern	KERN3010	1512	Bakersfield	Cx. quinquefasciatus	18	CO2	8/9/12	WNV	RTPCR
Kern	KERN3014	1497	Bakersfield	Cx. tarsalis	50	CO2	8/8/12	WNV	RTPCR
Kern	KERN3026	1382	Arvin	Cx. quinquefasciatus	44	CO2	8/6/12	WNV	RTPCR
Kern	KERN3028	1446	Bakersfield	Cx. quinquefasciatus	48	CO2	8/8/12	WNV	RTPCR
Kern	KERN33	1397	Arvin	Cx. quinquefasciatus	50	CO2	8/6/12	WNV	RTPCR
Kern	KERN33	1398	Arvin	Cx. quinquefasciatus	50	CO2	8/6/12	WNV	RTPCR
Kern	KERN60	1417	Bakersfield	Cx. tarsalis	39	CO2	8/6/12	WNV	RTPCR
Kern	KERN83	1460	Arvin	Cx. tarsalis	50	CO2	8/8/12	WNV	RTPCR
Kern	KERN83	1462	Arvin	Cx. tarsalis	50	CO2	8/8/12	WNV	RTPCR
Kings	KNGS3005	318	Lemoore NAS	Cx. pipiens	50	CO2	8/8/12	WNV	RTPCR
Kings	KNGS3018	324	Lemoore	Cx. pipiens	50	CO2	8/9/12	WNV	RTPCR
Kings	KNGS3027	338	Lemoore	Cx. tarsalis	50	CO2	8/9/12	WNV	RTPCR
Kings	KNGS3027	339	Lemoore	Cx. pipiens	50	CO2	8/9/12	WNV	RTPCR
Kings	KNGS3030	310	Lemoore	Cx. tarsalis	50	CO2	8/8/12	WNV	RTPCR
Kings	KNGS3039	323	Lemoore	Cx. pipiens	22	CO2	8/9/12	WNV	RTPCR
Kings	KNGS3050	315	Lemoore	Cx. tarsalis	50	CO2	8/8/12	WNV	RTPCR
Kings	KNGS3050	316	Lemoore	Cx. tarsalis	50	CO2	8/8/12	WNV	RTPCR
Kings	KNGS4006	340	Hanford	Cx. pipiens	15	GRVD	8/13/12	WNV	RTPCR
Kings	KNGS8022	312	Lemoore	Cx. pipiens	50	CO2	8/8/12	WNV	RTPCR
Lake	LAKE233	237	Clearlake Oaks	Cx. tarsalis	50	CO2	8/10/12	WNV	RTPCR
Lake	LAKE273	273	Upper Lake	Cx. tarsalis	25	REST	8/13/12	WNV	RTPCR
Lake	LAKE276	248	Kelseyville	Cx. erythrothorax	50	CO2	8/14/12	WNV	RTPCR
Lake	LAKE93	244		Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Los Angeles	GRLA2065	854	Gardena	Cx. quinquefasciatus	47	CO2	8/9/12	WNV	RTPCR
Los Angeles	GRLA2097	823	La Mirada	Cx. quinquefasciatus	50	GRVD	8/7/12	WNV	RTPCR
Los Angeles	GRLA2228	836	Diamond Bar	Cx. quinquefasciatus	12	GRVD	8/7/12	WNV	RTPCR
Los Angeles	GRLA2268	839	Cerritos	Cx. quinquefasciatus	50	GRVD	8/9/12	WNV	RTPCR
Los Angeles	GRLA2383	826	Whittier	Cx. quinquefasciatus	50	GRVD	8/7/12	WNV	RTPCR
Los Angeles	GRLA2383	827	Whittier	Cx. quinquefasciatus	47	GRVD	8/7/12	WNV	RTPCR
Los Angeles	GRLA2414	5875	Granada Hills	Cx. quinquefasciatus	33	GRVD	8/9/12	WNV	RTPCR
Los Angeles	GRLA2520	5852	Los Angeles	Cx. quinquefasciatus	19	GRVD	8/9/12	WNV	RTPCR
Los Angeles	GRLA2540	5876	Northridge	Cx. quinquefasciatus	30	GRVD	8/9/12	WNV	RTPCR
Los Angeles	GRLA2554	5877	Winnetka	Cx. quinquefasciatus	50	GRVD	8/9/12	WNV	RTPCR
Los Angeles	GRLA2554	5878	Winnetka	Cx. quinquefasciatus	31	GRVD	8/9/12	WNV	RTPCR
Los Angeles	GRLA2592	5864	San Marino	Cx. quinquefasciatus	43	GRVD	8/9/12	WNV	RTPCR
Los Angeles	GRLA2614	5855	Newhall	Cx. quinquefasciatus	50	GRVD	8/9/12	WNV	RTPCR
Los Angeles	GRLA2655	5869	Encino	Cx. quinquefasciatus	50	GRVD	8/9/12	WNV	RTPCR
Los Angeles	GRLA2771	858	Whittier	Cx. quinquefasciatus	50	USDS	8/9/12	WNV	RTPCR
Los Angeles	GRLA2771	859	Whittier	Cx. quinquefasciatus	41	USDS	8/9/12	WNV	RTPCR
Los Angeles	GRLA2773	862	Whittier	Cx. quinquefasciatus	50	USDS	8/9/12	WNV	RTPCR
Los Angeles	GRLA2962	5880	Chatsworth	Cx. quinquefasciatus	47	GRVD	8/9/12	WNV	RTPCR
Los Angeles	GRLA2995	5879	Woodland Hills	Cx. quinquefasciatus	47	GRVD	8/9/12	WNV	RTPCR
Los Angeles	LACW1004	249	Lawndale	Cx. quinquefasciatus	44	GRVD	8/8/12	WNV	RTPCR
Merced	MERC28	68	Merced	Cx. pipiens	1	CO2	8/8/12	WNV	RTPCR
Napa	NAPA2828	56	Napa	Cx. erythrothorax	50	CO2	7/31/12	WNV	RTPCR
Orange	ORCO198	885	La Habra	Cx. quinquefasciatus	40	GRVD	8/7/12	WNV	RTPCR
Orange	ORCO198	886	La Habra	Cx. quinquefasciatus	40	GRVD	8/7/12	WNV	RTPCR

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Orange	ORCO2	890	Fullerton	Cx. quinquefasciatus	33	GRVD	8/7/12	WNV	RTPCR
Orange	ORCO202	881	Fullerton	Cx. quinquefasciatus	33	GRVD	8/7/12	WNV	RTPCR
Orange	ORCO203	895	Orange	Cx. quinquefasciatus	11	CO2	8/7/12	WNV	RTPCR
Orange	ORCO52	877	Anaheim	Cx. quinquefasciatus	32	GRVD	8/7/12	WNV	RTPCR
Placer	PLCR1023	1208	Roseville	Cx. pipiens	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR1023	1215	Roseville	Cx. tarsalis	47	CO2	8/13/12	WNV	RTPCR
Placer	PLCR1113	1220	Pleasant Grove	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR139	1243	Roseville	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR58	1245	Lincoln	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR58	1246	Lincoln	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Riverside	COAV17	2110	Mecca	Cx. tarsalis	8	CO2	8/14/12	WNV	RTPCR
Riverside	COAV200	2067	Mecca	Cx. quinquefasciatus	7	GRVD	8/9/12	WNV	RTPCR
Riverside	COAV200	2091	Mecca	Cx. tarsalis	9	CO2	8/9/12	WNV	RTPCR
Riverside	COAV200	2092	Mecca	Cx. quinquefasciatus	50	CO2	8/9/12	WNV	RTPCR
Riverside	COAV200	2094	Mecca	Cx. tarsalis	11	CO2	8/9/12	WNV	RTPCR
Riverside	COAV30	2075	Mecca	Cx. tarsalis	50	CO2	8/9/12	WNV	RTPCR
Riverside	COAV30	2077	Mecca	Cx. tarsalis	50	CO2	8/9/12	WNV	RTPCR
Riverside	COAV30	2125	Mecca	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Riverside	COAV302	2054	Rancho Mirage	Cx. quinquefasciatus	10	GRVD	8/9/12	WNV	RTPCR
Riverside	COAV302	9007	Rancho Mirage	Cx. quinquefasciatus	20	GRVD	8/15/12	WNV	RAMP
Riverside	COAV34	2109	Mecca	Cx. tarsalis	22	CO2	8/14/12	WNV	RTPCR
Riverside	COAV35	2116	Mecca	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Riverside	COAV35	2118	Mecca	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Riverside	COAV37	2119	Mecca	Cx. tarsalis	35	CO2	8/14/12	WNV	RTPCR
Riverside	COAV45	2142	Mecca	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Riverside	COAV46	2136	Mecca	Cx. tarsalis	12	CO2	8/14/12	WNV	RTPCR
Riverside	COAV48	2146	Mecca	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Riverside	COAV531	2101	Mecca	Cx. tarsalis	22	CO2	8/14/12	WNV	RTPCR
Riverside	COAV54	2134	Mecca	Cx. tarsalis	30	CO2	8/14/12	WNV	RTPCR
Riverside	COAV608	2072	Mecca	Cx. tarsalis	29	CO2	8/9/12	WNV	RTPCR
Riverside	COAV68	2069	Mecca	Cx. tarsalis	50	CO2	8/9/12	WNV	RTPCR
Riverside	COAV68	2129	Mecca	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Riverside	COAV8	2105	Mecca	Cx. quinquefasciatus	50	CO2	8/14/12	WNV	RTPCR
Sacramento	SAYO204014	4249	Citrus Heights	Cx. tarsalis	17	CO2	8/14/12	WNV	RTPCR
Sacramento	SAYO204014	4251	Citrus Heights	Cx. pipiens	6	CO2	8/14/12	WNV	RTPCR
Sacramento	SAYO213005	4172	Sacramento	Cx. pipiens	11	GRVD	8/13/12	WNV	RTPCR
Sacramento	SAYO214013	4308	Carmichael	Cx. pipiens	16	CO2	8/14/12	WNV	RTPCR
Sacramento	SAYO214013	4309	Carmichael	Cx. pipiens	14	GRVD	8/14/12	WNV	RTPCR
Sacramento	SAYO223019	4233	Sacramento	Cx. pipiens	4	CO2	8/14/12	WNV	RTPCR
Sacramento	SAYO233009	4204	Elk Grove	Cx. tarsalis	42	CO2	8/14/12	WNV	RTPCR
Sacramento	SAYO233009	4205	Elk Grove	Cx. pipiens	7	CO2	8/14/12	WNV	RTPCR
Sacramento	SAYO233009	4206	Elk Grove	Cx. pipiens	5	GRVD	8/14/12	WNV	RTPCR
Sacramento	SAYO235001	4225	Wilton	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Sacramento	SAYO235001	4226	Wilton	Cx. tarsalis	9	CO2	8/14/12	WNV	RTPCR
Sacramento	SAYO242013	4207	Hood	Cx. tarsalis	19	CO2	8/14/12	WNV	RTPCR
Sacramento	SAYO255007	4213	Herald	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Sacramento	SAYO261012	4210	Isleton	Cx. tarsalis	41	CO2	8/14/12	WNV	RTPCR
Sacramento	SAYO261012	4211	Isleton	Cx. pipiens	7	CO2	8/14/12	WNV	RTPCR
San Bernardino	WVAL2005	355	Chino	Cx. quinquefasciatus	15	CO2	8/15/12	WNV	RTPCR
San Bernardino	WVAL2021	352	Fwy CA 71	Cx. quinquefasciatus	10	GRVD	8/14/12	WNV	RTPCR

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San Bernardino	WVAL2022	337	Fwy CA 60	Cx. quinquefasciatus	5	GRVD	8/14/12	WNV	RTPCR
San Bernardino	WVAL5002	338	Rancho Cucamonga	Cx. quinquefasciatus	26	GRVD	8/14/12	WNV	RTPCR
San Bernardino	WVAL5004	339	Rancho Cucamonga	Cx. quinquefasciatus	26	GRVD	8/14/12	WNV	RTPCR
San Bernardino	WVAL5009	351	Rancho Cucamonga	Cx. quinquefasciatus	12	GRVD	8/14/12	WNV	RTPCR
San Bernardino	WVAL6001	346	Ontario	Cx. quinquefasciatus	8	GRVD	8/14/12	WNV	RTPCR
San Bernardino	WVAL6003	335	Ontario	Cx. quinquefasciatus	12	GRVD	8/14/12	WNV	RTPCR
San Bernardino	WVAL6014	342	Fwy CA 60	Cx. quinquefasciatus	40	GRVD	8/14/12	WNV	RTPCR
San Joaquin	SJCM8010	649	Ripon	Cx. pipiens	50	CO2	8/14/12	WNV	RTPCR
San Joaquin	SJCM8010	651	Ripon	Cx. pipiens	50	CO2	8/14/12	WNV	RTPCR
San Joaquin	SJCM8018	679	Stockton	Cx. tarsalis	32	CO2	8/14/12	WNV	RTPCR
San Joaquin	SJCM8027	690	McDonald Isl. Bridge	Cx. pipiens	50	CO2	8/14/12	WNV	RTPCR
San Joaquin	SJCM8029	617	Farmington	Cx. tarsalis	36	CO2	8/9/2012	WNV	RTPCR
San Joaquin	SJCM8037	566	Lathrop	Cx. tarsalis	6	CO2	8/7/12	WNV	RTPCR
San Joaquin	SJCM8056	666	Manteca	Cx. tarsalis	40	CO2	8/14/12	WNV	RTPCR
San Joaquin	SJCM8100	687	Tracy	Cx. pipiens	13	CO2	8/14/12	WNV	RTPCR
San Joaquin	SJCM8161	644	Ripon	Cx. pipiens	50	CO2	8/14/12	WNV	RTPCR
San Joaquin	SJCM8161	645	Ripon	Cx. pipiens	50	CO2	8/14/12	WNV	RTPCR
San Joaquin	SJCM8161	646	Ripon	Cx. pipiens	50	CO2	8/14/12	WNV	RTPCR
San Joaquin	SJCM8161	647	Ripon	Cx. pipiens	45	CO2	8/14/12	WNV	RTPCR
San Joaquin	SJCM8161	648	Ripon	Cx. tarsalis	47	CO2	8/14/12	WNV	RTPCR
San Joaquin	SJCM8191	602	Lodi	Cx. tarsalis	50	CO2	8/9/2012	WNV	RTPCR
San Joaquin	SJCM9906	642	French Camp	Cx. tarsalis	21	CO2	8/14/12	WNV	RTPCR
Shasta	SHAS10010	487	Anderson	Cx. pipiens	50	CO2	8/8/12	WNV	RTPCR
Shasta	SHAS10020	442	Anderson	Cx. pipiens	41	CO2	8/7/12	WNV	RTPCR
Shasta	SHAS10110	448	Anderson	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
Shasta	SHAS20120	459	Redding	Cx. pipiens	50	CO2	8/7/12	WNV	RTPCR
Solano	SOLA26	26	Vacaville	Cx. pipiens	9	CO2	8/8/12	WNV	RTPCR
Solano	SOLA27	28	Vacaville	Cx. tarsalis	30	CO2	8/8/12	WNV	RTPCR
Stanislaus	EAST1013	12096	Modesto	Cx. tarsalis	50	CO2	8/8/12	WNV	RTPCR
Stanislaus	EAST1092	12082	Oakdale	Cx. pipiens	50	CO2	8/3/12	WNV	RTPCR
Stanislaus	TRLK305	726	Grayson	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK305	735	Grayson	Cx. pipiens	41	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK306	688	Grayson	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK307	655	Grayson	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK307	657	Grayson	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK307	661	Grayson	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK310	713	Grayson	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK437	639	Patterson	Cx. tarsalis	34	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK502	637	Vernalis	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK529	717	Vernalis	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK529	719	Vernalis	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK9737	665	Grayson	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK9737	668	Grayson	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK9737	669	Grayson	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK9769	627	Grayson	Cx. pipiens	7	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK9772	674	Grayson	Cx. pipiens	50	CO2	8/14/12	WNV	RTPCR
Stanislaus	TRLK9772	676	Grayson	Cx. pipiens	50	CO2	8/14/12	WNV	RTPCR
Sutter	SUYA5	308	Live Oak	Cx. tarsalis	18	CO2	8/9/12	WNV	RTPCR
Tulare	DLTA6405	189	Dinuba	Cx. quinquefasciatus	23	CO2	8/7/12	WNV	RTPCR

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Tulare	DLTA6407	182	Dinuba	Cx. quinquefasciatus	50	GRVD	8/7/12	WNV	RTPCR
Tulare	DLTA6407	183	Dinuba	Cx. quinquefasciatus	50	GRVD	8/7/12	WNV	RTPCR
Tulare	DLTA6408	194	Dinuba	Cx. quinquefasciatus	30	GRVD	8/7/12	WNV	RTPCR
Tulare	DLTA8514	180	Visalia	Cx. quinquefasciatus	15	GRVD	8/3/12	WNV	RTPCR
Tulare	DLTA9501	192	Farmersville	Cx. quinquefasciatus	12	GRVD	8/7/12	WNV	RTPCR
Ventura	VENT1011	11	Simi Valley	Cx. erythrothorax	50	CO2	8/9/12	WNV	RTPCR
Yolo	SAYO125001	4177	Woodland	Cx. pipiens	50	GRVD	8/9/12	WNV	RTPCR
Yolo	SAYO125001	4179	Woodland	Cx. pipiens	50	GRVD	8/9/12	WNV	RTPCR
Yolo	SAYO125011	4285	Woodland	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Yolo	SAYO125011	4286	Woodland	Cx. tarsalis	42	CO2	8/14/12	WNV	RTPCR
Yolo	SAYO136010	4316	Woodland	Cx. pipiens	18	CO2	8/14/12	WNV	RTPCR
Yolo	SAYO143009	4276	Winters	Cx. tarsalis	36	CO2	8/14/12	WNV	RTPCR
Yolo	SAYO144002	4318	Davis	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Yolo	SAYO146002	4261	Davis	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Yuba	SUYA4	301	Wheatland	Cx. tarsalis	50	CO2	8/7/12	WNV	RTPCR
Yuba	SUYA4	302	Wheatland	Cx. tarsalis	49	CO2	8/7/12	WNV	RTPCR
Yuba	SUYA4	306	Wheatland	Cx. tarsalis	32	CO2	8/7/12	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05	Band 06	Band 07	Band 08	Band 09
Butte	BUCO0003	Oroville	8/14/12	WNV	1525	1528	1581						
Butte	BUCO0004	Gridley	8/14/12	WNV	1534	1537	1542						
Butte	BUCO0005	Honcut	8/14/12	WNV	1545	1546	1547	1548	1551	1552	1553	1578	1579
Butte	BUCO0007	Chico	8/14/12	WNV	1567								
Imperial	COAV5001	Niland	8/6/12	WNV	3910								
Kern	AFSB0107	Bakersfield	8/6/12	WNV	2044								
Kern	AFSB0109	Bakersfield	8/6/12	WNV	2019								
Kern	AFSB0128	Bakersfield	8/6/12	WNV	2024	2028							
Kern	AFSB0129	Bakersfield	8/6/12	WNV	2031	2033	2035						
Kern	AFSB0132	Edison	8/7/12	WNV	2050	2052	2053	2054					
Los Angeles	ANTV2667	Palmdale	8/8/12	WNV	1248								
Los Angeles	ANTV2877	Lancaster	8/8/12	WNV	1232								
Los Angeles	ANTV3247	Lancaster	8/8/12	WNV	1207								
Los Angeles	ANTV7263	Lancaster	8/8/12	WNV	1201	1202	1204	1205	1206				
Los Angeles	ANTV8652	Palmdale	8/8/12	WNV	1238	1240							
Los Angeles	ANTV8656	Lancaster	8/8/12	WNV	1218								
Riverside	COAV0035	Mecca	8/6/12	WNV	3868								
Riverside	COAV0060	North Shore	8/6/12	WNV	3885								
Riverside	COAV0200	Mecca	8/6/12	WNV	3853	3856	3857	3858					
Riverside	COAV0201	Thermal	8/6/12	WNV	3942	3943	3949						
San Bernardino	SANB0003	Colton	8/6/12	WNV	1328								
San Bernardino	SANB0007	Fontana	8/6/12	WNV	1361	1363	1365						

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San Bernardino	SANB0008	Upland	8/6/12	WNV	1370								
San Bernardino	SANB0011	Rialto	8/6/12	WNV	1385								
Tulare	DLTA8530	Visalia	8/3/12	WNV	1756	1758							

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.