

California Arbovirus Surveillance Bulletin #29

Week 36 Friday, September 7, 2012



Human Cases

A total of 19 new cases of West Nile virus (WNV) were reported this week from the following 11 counties: Fresno (3), Imperial (1), Kern (1), Merced (2), Los Angeles (3), Riverside (1), Sacramento (2), San Bernardino (1), Tulare (1), Ventura (1), and Yolo (3). As of September 6, 2012, a total of 75 human cases of WNV illness have been reported in 17 counties. Of the 75 cases, 46 (61%) had neuroinvasive illness. The median age of the 75 individuals is 58 years (range: 2-88 years); 48 (64%) are male. Dates of symptom onset for all cases ranged from May 23-August 24, 2012. Four WNV-related fatalities have been reported to date in Fresno (1), Kern (1), Merced (1), and Sacramento (1) counties. A total of 19 WNV-positive blood donors have been reported this year; 5 individuals developed symptoms and were reclassified as cases. At this time last year, 33 WNV cases had been reported from 11 counties.

National Comments: As of September 4, 2012, 1,993 cases had been reported nationwide from 43 states and the District of Columbia (DC). This is the highest number of cases reported through the first week of September since WNV was first detected in the United States in 1999. Almost half of all cases have been reported from Texas. Of the 1,993 cases, 1069 (54%) were classified as neuroinvasive disease, and 87 (4%) died.

Horses

One new equine case of WNV was reported this week: an unvaccinated filly from Butte County with onset date of August 28. In 2012, 10 horses from 8 counties have tested positive for WNV; three of the horses died or were euthanized as a result of their illness. At this time last year, five equine cases of WNV from four counties had been reported.

Dead Birds & Squirrels

A total of 132 WNV positive dead birds were reported this week from 20 counties: Alameda (7), Butte (8), Contra Costa (5), Fresno (2), Kern (1), Lake (3), Los Angeles (29), Madera (1), Merced (9), Riverside (1), Sacramento (19), San Bernardino (5), San Joaquin (3), San Mateo (1), Shasta (2), Stanislaus (3), Sutter (4), Tulare (4), Ventura (6), and Yolo (19). This is the first WNV positive dead bird reported from Madera County this year. Five WNV positive squirrels were reported this week from Butte (1), Los Angeles (3), and Shasta (1) counties; these are the first positive squirrels detected in Butte and Shasta counties this year. An additional 46 dead birds, two squirrels, and one rabbit tested positive for chronic WNV infection (see Dead Bird Table for details). In 2012, 1,086 dead birds and 8 squirrels have tested positive for recent WNV infection from 31 and 5 counties, respectively. At this time last year, 358 dead birds from 19 counties and one tree squirrel from one county had tested positive for WNV.

Mosquito Pools

A total of 197 WNV positive mosquito pools were reported this week from 15 counties: Butte (3), Contra Costa (1), Fresno (12), Kern (43), Lake (1), Los Angeles (32), Madera (1), Orange (6), Riverside (2), Sacramento (15), San Bernardino (7), San Joaquin (15), Stanislaus (32), Tulare (4), and Yolo (30). In 2012, 2,080 mosquito pools from 28 counties have tested positive for WNV. At this time last year, 1,479 mosquito pools had tested positive for WNV from 23 counties.

Sentinel Chickens

A total of 59 WNV seroconversions were reported this week from 25 flocks in 12 counties: Butte (16), Contra Costa (1), Glenn (3), Kern (7), Placer (1), Sacramento (7), Shasta (1), Stanislaus (4), Sutter (13), Tulare (1), Yolo (1), and Yuba (4). This is the first WNV positive chicken detected in Shasta County this year. In 2012, 276 WNV antibody-positive chickens have been detected among 70 flocks in 17 counties. At this time last year, 135 WNV positive chickens had been detected from 10 counties.

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2011 & 2012 YTD West Nile Virus Comparisons		
	2011	2012
Total # Dead Bird Reports	7,363	14,587
# Positive Counties	28	34
# Human Cases	33	75
# Horse Cases	5	10
# Positive Dead Birds / # Tested	358 / 1,747	1,086 / 3,016
# Positive Mosquito Pools / # Tested	1,479 / 23,774	2,080 / 23,996
# Seroconversions / # Tested	135 / 15,514	276 / 17,773
# Positive Squirrels & Rabbits / # Tested	1 / 63	8 / 102

YTD WNV Activity by Element and County, 2012						
County	Humans	Horses	Dead Birds*	Mosquito Pools	Sentinel Chickens	Squirrels*
Alameda			9			1
Butte	4	1	23	19	35	1
Colusa			5		1	
Contra Costa			35	15	4	
El Dorado			3			
Fresno	10	2	17	119		
Glenn		1	15	4	4	
Imperial	1			3	7	
Kern	10		14	427	36	
Kings				52		
La ke			5	13		
Los Angeles	7		93	142	45	4
Madera			1	10		
Merced	5	1	34	2		
Napa				1		
Orange	2		12	33		
Placer	3		40	103	5	
Riverside	2		3	109	35	
Sacramento	5	1	442	422	24	
San Bernardino	3		19	42	21	
San Joaquin	2	2	46	116		
San Mateo			3			
Santa Clara			15	2		1
Santa Cruz			1			
Shasta			11	10	1	1
Solano			17	3		
Sonoma			2	2		
Stanislaus	12	1	34	148	8	
Sutter	1		16	18	29	
Tehama			4			
Tulare	3		46	108	6	
Ventura	2		25	2		
Yolo	3	1	90	142	3	
Yuba			6	13	12	
Totals	75	10	1,086	2,080	276	8

**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	19	0	0	0	0	0
	YTD	75	0	0	0	0	0
Horse Cases	Week	1	0	0	0	0	0
	YTD	10	0	0	0	0	0

Dead Birds, Squirrels, & Rabbits

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	237	132
	YTD	3,016	1,086
Squirrels & Rabbits	Week	13	5
	YTD	102	8

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	590	59	0	0
	YTD	17,773	276	0	0
Mosquito Pools	Week	1,363	197	0	0
	YTD	23,996	2,080	0	0

POSITIVES: WEEK 36

Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
12-0057	08/30/12	KERN	73	M	WNND	08/09/12	NO
12-0058	08/30/12	TULARE	10	F	WNND	08/22/12	NO
12-0059	08/30/12	FRESNO	48	M	WNF	08/23/12	NO
12-0060	08/30/12	FRESNO	53	F	WNF	08/13/12	NO
12-0061	08/30/12	FRESNO	77	M	WNF	08/24/12	NO
12-0062	08/30/12	YOLO	>18	F	WNF	08/10/12	NO
12-0063	08/30/12	LOS ANGELES	84	M	WNND	07/30/12	NO
12-0064	08/30/12	LOS ANGELES	73	M	WNND	08/12/12	NO
12-0065	08/30/12	LOS ANGELES	64	M	WNND	08/10/12	NO
12-0066	08/31/12	VENTURA	>18	N/A	WNND	N/A	NO
12-0067	08/31/12	YOLO	>18	M	WNF	08/02/12	NO
12-0068	09/04/12	SACRAMENTO	85	M	WNND	08/05/12	YES
12-0069	09/04/12	RIVERSIDE	22	M	WNND	08/14/12	NO
12-0070	08/30/12	SACRAMENTO	67	F	WNND	08/10/12	NO

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12-0071	09/04/12	SAN BERNARDINO	58	M	WNND	07/23/12	NO
12-0072	09/04/12	MERCED	82	M	WNF	08/11/12	NO
12-0073	09/05/12	MERCED	86	F	WNND	N/A	YES
12-0074	09/05/12	IMPERIAL	>18	M	WNF	N/A	NO
12-0075	09/06/12	YOLO	>18	M	WNF	08/01/12	NO
Presumptive Viremic Blood Donors (Asymptomatic Infections)							
ID	Report Date	County	Age	Sex			
BD12-0015	08/30/12	STANISLAUS	76	M			
BD12-0016	09/05/12	FRESNO	66	M			

Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda MAD	Fremont	94536	American Crow	8/28/2012	WNV	Recent	RT-PCR
Alameda	Alameda MAD	Fremont	94536	American Crow	8/27/2012	WNV	Recent	RT-PCR
Alameda	Alameda MAD	Fremont	94538	American Crow	8/28/2012	WNV	Recent	RT-PCR
Alameda	Alameda MAD	Fremont	94539	American Crow	8/28/2012	WNV	Recent	RT-PCR
Alameda	Alameda MAD	Fremont	94539	American Crow	8/24/2012	WNV	Recent	RT-PCR
Alameda	Alameda MAD	Livermore	94551	House Sparrow	8/23/2012	WNV	Chronic	RT-PCR
Alameda	Alameda MAD	Livermore	94551	American Goldfinch	8/28/2012	WNV	Recent	RT-PCR
Alameda	Alameda MAD	Newark	94560	American Crow	8/28/2012	WNV	Recent	RT-PCR
Butte	Butte Co MVCD	Biggs	95917	Beechey Squirrel	8/27/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Biggs	95917	Western Scrub-Jay	8/28/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95926	Western Scrub-Jay	8/22/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95928	Western Scrub-Jay	8/28/2012	WNV	Chronic	RT-PCR
Butte	Butte MVCD	Chico	95928	Brewer's Blackbird	8/27/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Durham	95938	Western Scrub-Jay	8/23/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Gridley	95948	Western Scrub-Jay	8/23/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Magalia	95954	Red-Breasted Nuthatch	8/23/2012	WNV	Chronic	RT-PCR
Butte	Butte MVCD	Oroville	95966	Western Scrub-Jay	8/23/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95973	American Crow	8/23/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95973	American Crow	8/23/2012	WNV	Recent	RT-PCR
Butte	Oroville MAD	Oroville	95966	Western Scrub-Jay	8/27/2012	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Antioch	94509	Western Scrub-Jay	8/27/2012	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Antioch	94509	Western Scrub-Jay	8/28/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	Western Scrub-Jay	8/20/2012	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	Western Scrub-Jay	8/27/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Concord	94520	American Crow	9/6/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94521	Western Scrub-Jay	8/27/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	San Ramon	94583	Western Scrub-Jay	9/4/2012	WNV	Recent	RAMP
El Dorado	El Dorado VC	South Lake Tahoe	96150	House Finch	8/23/2012	WNV	Chronic	RT-PCR
Fresno	Consolidated MAD	Clovis	93612	American Crow	9/4/2012	WNV	Recent	RAMP
Fresno	Consolidated MAD	Selma	93662	Western Scrub-Jay	8/22/2012	WNV	Recent	RT-PCR
Kern	Kern MVCD	Wasco	93280	Great Egret	8/22/2012	WNV	Chronic	RT-PCR
Kern	Kern MVCD	Bakersfield	93314	House Finch	8/22/2012	WNV	Recent	RT-PCR
Kings	Kings MAD	Corcoran	93212	Northern Mockingbird	8/20/2012	WNV	Chronic	RT-PCR

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Lake	Lake Co VCD	Clearlake Oaks	95423	American Crow	8/27/2012	WNV	Recent	RT-PCR
Lake	Lake Co VCD	Lower Lake	95457	American Crow	8/24/2012	WNV	Recent	RT-PCR
Lake	Lake Co VCD	Lucerne	95458	American Crow	8/22/2012	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD2	Chatsworth	91311	Fox Squirrel	8/23/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90012	American Crow	8/25/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90045	American Crow	8/28/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90064	American Crow	8/24/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90064	American Crow	8/29/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Culver City	90230	American Crow	8/22/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Culver City	90232	American Robin	8/27/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Torrance	90505	Western Scrub-Jay	8/29/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	La Mirada	90638	House Finch	8/21/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Glendale	91202	American Crow	8/21/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Woodland Hills	91304	Western Scrub-Jay	8/23/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Northridge	91325	Fox Squirrel	8/23/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Granada Hills	91344	American Crow	8/29/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Granada Hills	91344	Fox Squirrel	8/23/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Woodland Hills	91367	Fox Squirrel	8/23/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Van Nuys	91401	Northern Mockingbird	8/29/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Acton	93510	Common Raven	8/23/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - Sylmar	Glendale	91201	American Crow	8/27/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - Sylmar	Northridge	91325	American Crow	8/27/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - Sylmar	Reseda	91335	American Crow	8/27/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - Sylmar	Reseda	91335	American Crow	8/28/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - Sylmar	Granada Hills	91344	American Crow	8/24/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - Sylmar	Encino	91436	American Crow	8/28/2012	WNV	Recent	RT-PCR
Los Angeles	LA VCD - Sylmar	North Hollywood	91606	Rufous Hummingbird	8/24/2012	WNV	Chronic	RT-PCR
Los Angeles	LA West VCD	Westchester	90045	American Crow	8/22/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Westchester	90045	American Crow	8/23/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Beverly Hills	90210	American Robin	8/26/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90230	American Crow	8/29/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90232	American Crow	8/23/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90232	American Crow	8/27/2012	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Inglewood	90305	American Crow	8/29/2012	WNV	Recent	RT-PCR
Los Angeles	San Gabriel MVCD	Monrovia	91006	American Crow	9/4/2012	WNV	Recent	RAMP
Los Angeles	San Gabriel MVCD	Monrovia	91016	American Crow	9/5/2012	WNV	Recent	RAMP
Los Angeles	San Gabriel MVCD	Covina	91722	House Sparrow	8/26/2012	WNV	Recent	RT-PCR
Los Angeles	San Gabriel MVCD	Covina	91723	American Crow	9/6/2012	WNV	Recent	RAMP
Los Angeles	San Gabriel MVCD	San Gabriel	91776	American Crow	8/24/2012	WNV	Recent	RT-PCR
Madera	Madera Co MVCD	Madera	93636	Western Scrub-Jay	8/23/2012	WNV	Recent	RT-PCR
Madera	Madera Co MVCD	Madera	93637	House Finch	8/26/2012	WNV	Chronic	RT-PCR
Merced	Merced Co MAD	Dos Palos	93620	American Crow	8/23/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Atwater	95301	American Kestrel	8/26/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Atwater	95301	American Crow	8/23/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Delhi	95315	House Finch	8/23/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Merced	95340	American Crow	8/24/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Merced	95340	Yellow-billed Magpie	8/28/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Merced	95341	American Crow	8/23/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Merced	95341	Yellow-billed Magpie	8/28/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Merced	95348	American Crow	8/28/2012	WNV	Recent	RT-PCR
Modoc	Modoc Co Health	Canby	96015	House Sparrow	8/27/2012	WNV	Chronic	RT-PCR

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Napa	Napa Co MAD	Napa	94558	American Crow	8/29/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Lincoln	95648	House Sparrow	8/7/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Lincoln	95648	House Finch	8/15/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Roseville	95661	Mallard	8/8/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Roseville	95678	American Robin	8/8/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Roseville	95678	Mourning Dove	8/10/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Granite Bay	95746	California Towhee	8/15/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Roseville	95747	Barn Owl	8/14/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Roseville	95747	House Finch	8/9/2012	WNV	Chronic	RT-PCR
Riverside	NW Mosquito VCD	Riverside	92509	American Crow	8/23/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	American Crow	8/27/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95621	Western Scrub-Jay	8/23/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	American Goldfinch	8/24/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	8/28/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Folsom	95630	American Coot	8/17/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Folsom	95630	House Finch	8/21/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Folsom	95630	Lesser Goldfinch	8/23/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Turkey Vulture	8/19/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Turkey Vulture	8/19/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Scrub-Jay	8/22/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Yellow-billed Magpie	8/23/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Scrub-Jay	8/28/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	American Crow	8/28/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	Yellow-billed Magpie	8/28/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	American Crow	8/31/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	American Crow	8/27/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	8/30/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	8/30/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	8/31/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	9/1/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	9/2/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	Brewer's Blackbird	8/22/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	Acorn Woodpecker	8/19/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	House Finch	8/26/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95742	Brewer's Blackbird	8/20/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95832	American Crow	8/22/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95835	American Crow	8/29/2012	WNV	Recent	RT-PCR
San Bernardino	Apple Valley AC	Apple Valley	92308	House Sparrow	8/28/2012	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Fontana	92336	Northern Mockingbird	8/23/2012	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	Redlands	92374	Spotted Towhee	8/28/2012	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	Yucaipa	92399	House Finch	8/27/2012	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	San Bernardino	92408	American Crow	8/23/2012	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Chino	91710	American Crow	8/27/2012	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Rancho Cucamonga	91730	American Crow	8/23/2012	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Rancho Cucamonga	91739	American Crow	8/26/2012	WNV	Recent	RT-PCR
San Francisco	Presidio Trust	San Francisco	94129	Rufous Hummingbird	8/23/2012	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin MVCD	Lodi	95242	American Crow	9/3/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Ripon	95366	Goldfinch	9/4/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Tracy	95376	American Crow	9/4/2012	WNV	Recent	RT-PCR
San Mateo	San Mateo Co MAD	Atherton	94027	American Crow	8/27/2012	WNV	Chronic	RT-PCR
San Mateo	San Mateo Co MAD	Atherton	94027	American Crow	8/29/2012	WNV	Chronic	RT-PCR

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San Mateo	San Mateo Co MAD	Redwood City	94061	California Towhee	8/28/2012	WNV	Chronic	RT-PCR
San Mateo	San Mateo MAD	Atherton	94027	Fox Squirrel	8/24/2012	WNV	Chronic	RT-PCR
San Mateo	San Mateo MAD	Redwood City	94062	Common Raven	8/29/2012	WNV	Recent	RT-PCR
Santa Barbara	SB MVMD	Santa Ynez	93460	American Crow	8/27/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Santa Cruz	95062	American Crow	8/23/2012	WNV	Chronic	RT-PCR
Shasta	Shasta	Redding	96002	Western Gray Squirrel	8/23/2012	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Anderson	96007	House Finch	8/29/2012	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Cottonwood	96022	Oak Titmouse	8/28/2012	WNV	Recent	RT-PCR
Sonoma	Marin-Sonoma MVCD	Windsor	95492	Western Scrub-Jay	8/28/2012	WNV	Chronic	RT-PCR
Stanislaus	East Side MAD	Modesto	95356	Yellow-billed Magpie	8/26/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Denair	95316	American Crow	8/23/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95380	Yellow-billed Magpie	8/23/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95382	House Finch	8/22/2012	WNV	Chronic	RT-PCR
Sutter	Sutter-Yuba	Yuba City	95993	Cottontail Rabbit	8/27/2012	WNV	Chronic	RT-PCR
Sutter	Sutter-Yuba MVCD	Pleasant Grove	95668	Yellow-billed Magpie	8/28/2012	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95991	American Crow	8/22/2012	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95991	Yellow-billed Magpie	8/23/2012	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95993	American Crow	8/24/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	Western Scrub-Jay	8/17/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	8/23/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93291	House Sparrow	8/16/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93291	American Crow	8/17/2012	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Simi Valley	93063	House Finch	8/27/2012	WNV	Chronic	RT-PCR
Ventura	Ventura EHD	Simi Valley	93063	American Crow	8/22/2012	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Simi Valley	93063	American Crow	8/28/2012	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Simi Valley	93065	American Crow	8/24/2012	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Simi Valley	93065	House Sparrow	8/24/2012	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Simi Valley	93065	American Crow	8/27/2012	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Simi Valley	93065	Common Raven	8/27/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	Western Scrub-Jay	8/23/2012	WNV	Chronic	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	8/24/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	Western Scrub-Jay	8/27/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	Anna's Hummingbird	8/20/2012	WNV	Chronic	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	Western Scrub-Jay	8/22/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	8/23/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	8/27/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	8/27/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	8/27/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	Western Scrub-Jay	8/31/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	8/31/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Esparto	95627	Western Scrub-Jay	8/29/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Esparto	95627	Western Scrub-Jay	8/29/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	W Sacramento	95691	Western Scrub-Jay	8/21/2012	WNV	Chronic	RT-PCR
Yolo	Sac-Yolo MVCD	W Sacramento	95691	Western Scrub-Jay	9/1/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/24/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/25/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/28/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	American Crow	8/25/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/27/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95776	Northern Mockingbird	8/25/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95776	American Crow	8/27/2012	WNV	Recent	RT-PCR

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Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Method
Butte	BUCO000036	124	Gridley	Cx. tarsalis	50	CO2	8/27/12	WNV	RTPCR
Butte	BUCO000036	126	Gridley	Cx. tarsalis	50	CO2	8/27/12	WNV	RTPCR
Butte	BUCO000051	134	Dayton	Cx. tarsalis	50	CO2	8/29/12	WNV	RTPCR
Contra Costa	CNTR004435	343	Antioch	Cx. pipiens	24	CO2	9/4/12	WNV	RAMP
Fresno	CNSL003249	703	Reedley	Cx. quinquefasciatus	30	GRVD	9/5/12	WNV	RTPCR
Fresno	FRNO000023	44	Fresno	Cx. quinquefasciatus	50	GRVD	8/2/12	WNV	RTPCR
Fresno	FRWS003104	218	Firebaugh	Cx. tarsalis	26	CO2	8/30/12	WNV	RTPCR
Fresno	FRWS004110	240	Mendota	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Fresno	FRWS005101	233	Mendota	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Kern	KERN001002	1810	Bakersfield	Cx. quinquefasciatus	36	GRVD	8/27/12	WNV	RTPCR
Kern	KERN000111	1927	Arvin	Cx. tarsalis	50	CO2	8/29/12	WNV	RTPCR
Kern	KERN000111	1928	Arvin	Cx. tarsalis	50	CO2	8/29/12	WNV	RTPCR
Kern	KERN001137	1955	Bakersfield	Cx. quinquefasciatus	50	CO2	8/30/12	WNV	RTPCR
Kern	KERN100137	1956	Bakersfield	Cx. tarsalis	40	CO2	8/30/12	WNV	RTPCR
Kern	KERN00115	1815	Bakersfield	Cx. quinquefasciatus	50	CO2	8/27/12	WNV	RTPCR
Kern	KERN00115	1816	Bakersfield	Cx. tarsalis	50	CO2	8/27/12	WNV	RTPCR
Kern	KERN00115	1817	Bakersfield	Cx. tarsalis	50	CO2	8/27/12	WNV	RTPCR
Kern	KERN00121	1936	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/30/12	WNV	RTPCR
Kern	KERN000015	1873	Pumpkin Center	Cx. quinquefasciatus	50	CO2	8/28/12	WNV	RTPCR
Kern	KERN000015	1874	Pumpkin Center	Cx. quinquefasciatus	50	CO2	8/28/12	WNV	RTPCR
Kern	KERN000156	1841	Butttonwillow	Cx. tarsalis	47	CO2	8/27/12	WNV	RTPCR
Kern	KERN002002	1935	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/30/12	WNV	RTPCR
Kern	KERN002014	1931	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/30/12	WNV	RTPCR
Kern	KERN002016	1871	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/28/12	WNV	RTPCR
Kern	KERN002018	1870	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/28/12	WNV	RTPCR
Kern	KERN002020	1933	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/30/12	WNV	RTPCR
Kern	KERN002022	1891	Shafter	Cx. quinquefasciatus	50	GRVD	8/29/12	WNV	RTPCR
Kern	KERN002028	1944	Bakersfield	Cx. quinquefasciatus	12	CO2	8/30/12	WNV	RTPCR
Kern	KERN002040	1888	Arvin	Cx. quinquefasciatus	50	GRVD	8/29/12	WNV	RTPCR
Kern	KERN002040	1889	Arvin	Cx. quinquefasciatus	50	GRVD	8/29/12	WNV	RTPCR
Kern	KERN002042	1884	Lamont	Cx. quinquefasciatus	50	GRVD	8/29/12	WNV	RTPCR
Kern	KERN002042	1885	Lamont	Cx. quinquefasciatus	50	GRVD	8/29/12	WNV	RTPCR
Kern	KERN003004	1894	Bakersfield	Cx. quinquefasciatus	48	CO2	8/29/12	WNV	RTPCR
Kern	KERN003024	1831	Bakersfield	Cx. quinquefasciatus	50	CO2	8/27/12	WNV	RTPCR
Kern	KERN003026	1838	Arvin93203	Cx. quinquefasciatus	48	CO2	8/27/12	WNV	RTPCR
Kern	KERN003026	1839	Arvin93203	Cx. tarsalis	35	CO2	8/27/12	WNV	RTPCR
Kern	KERN003028	1898	Bakersfield	Cx. quinquefasciatus	35	CO2	8/29/12	WNV	RTPCR
Kern	KERN003030	1918	Shafter	Cx. quinquefasciatus	50	CO2	8/29/12	WNV	RTPCR
Kern	KERN003031	1914	Shafter	Cx. quinquefasciatus	41	CO2	8/29/12	WNV	RTPCR
Kern	KERN003032	1844		Cx. quinquefasciatus	50	CO2	8/27/12	WNV	RTPCR
Kern	KERN003041	1948	Bakersfield	Cx. quinquefasciatus	50	CO2	8/30/12	WNV	RTPCR
Kern	KERN003041	1949	Bakersfield	Cx. quinquefasciatus	43	CO2	8/30/12	WNV	RTPCR
Kern	KERN003041	1950	Bakersfield	Cx. tarsalis	50	CO2	8/30/12	WNV	RTPCR
Kern	KERN003041	1951	Bakersfield	Cx. tarsalis	50	CO2	8/30/12	WNV	RTPCR
Kern	KERN003041	1952	Bakersfield	Cx. tarsalis	50	CO2	8/30/12	WNV	RTPCR
Kern	KERN003041	1953	Bakersfield	Cx. tarsalis	50	CO2	8/30/12	WNV	RTPCR
Kern	KERN000043	1916	Shafter	Cx. quinquefasciatus	50	CO2	8/29/12	WNV	RTPCR
Kern	KERN000060	1842	Bakersfield	Cx. quinquefasciatus	27	CO2	8/27/12	WNV	RTPCR
Kern	KERN000060	1843	Bakersfield	Cx. tarsalis	26	CO2	8/27/12	WNV	RTPCR
Kern	KERN000083	1908	Arvin	Cx. tarsalis	50	CO2	8/29/12	WNV	RTPCR
Kern	KERN000083	1909	Arvin	Cx. tarsalis	50	CO2	8/29/12	WNV	RTPCR

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Kern	KERN00009	1947	Bakersfield	Cx. quinquefasciatus	35	CO2	8/30/12	WNV	RTPCR
Lake	LAKE000274	350	Kelseyville	Cx. tarsalis	38	CO2	9/5/12	WNV	RTPCR
Los Angeles	GRLA2082	1017	Downey	Cx. quinquefasciatus	50	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2123	972	Harbor City	Cx. quinquefasciatus	50	GRVD	8/28/12	WNV	RTPCR
Los Angeles	GRLA2301	952	Los Angeles	Cx. quinquefasciatus	50	GRVD	8/28/12	WNV	RTPCR
Los Angeles	GRLA2310	955	Los Angeles(Rosewood)	Cx. quinquefasciatus	50	GRVD	8/28/12	WNV	RTPCR
Los Angeles	GRLA2310	956	Los Angeles(Rosewood)	Cx. quinquefasciatus	39	GRVD	8/28/12	WNV	RTPCR
Los Angeles	GRLA2329	988	Whittier	Cx. quinquefasciatus	52	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2334	980	Whittier	Cx. quinquefasciatus	50	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2334	981	Whittier	Cx. quinquefasciatus	47	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2334	982	Whittier	Cx. quinquefasciatus	12	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2335	984	Whittier	Cx. quinquefasciatus	50	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2335	985	Whittier	Cx. quinquefasciatus	50	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2335	986	Whittier	Cx. quinquefasciatus	50	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2335	987	Whittier	Cx. quinquefasciatus	17	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2421	5955	Panorama City	Cx. quinquefasciatus	50	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2450	5951	Glendale	Cx. quinquefasciatus	23	GRVD	8/28/12	WNV	RTPCR
Los Angeles	GRLA2589	5972	San Marino	Cx. quinquefasciatus	11	GRVD	8/31/12	WNV	RTPCR
Los Angeles	GRLA2593	5973	San Marino	Cx. quinquefasciatus	21	GRVD	8/31/12	WNV	RTPCR
Los Angeles	GRLA2635	5970	Van Nuys	Cx. quinquefasciatus	50	GRVD	8/30/12	WNV	RTPCR
Los Angeles	GRLA2635	5971	Van Nuys	Cx. quinquefasciatus	30	CO2	8/30/12	WNV	RTPCR
Los Angeles	GRLA2636	5968	Van Nuys	Cx. quinquefasciatus	50	GRVD	8/30/12	WNV	RTPCR
Los Angeles	GRLA2637	5958	Van Nuys	Cx. quinquefasciatus	50	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2650	5961	Encino	Cx. quinquefasciatus	28	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2650	5962	Encino	Cx. quinquefasciatus	50	CO2	8/30/12	WNV	RTPCR
Los Angeles	GRLA2651	5964	Encino	Cx. quinquefasciatus	50	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2651	5965	Encino	Cx. quinquefasciatus	50	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2891	1012	Hawaiian Gardens	Cx. quinquefasciatus	36	GRVD	8/29/12	WNV	RTPCR
Los Angeles	GRLA2937	5947	Burbank	Cx. quinquefasciatus	50	GRVD	8/28/12	WNV	RTPCR
Los Angeles	GRLA2937	5948	Burbank	Cx. quinquefasciatus	43	GRVD	8/28/12	WNV	RTPCR
Los Angeles	GRLA2937	5949	Burbank	Cx. quinquefasciatus	12	GRVD	8/28/12	WNV	RTPCR
Los Angeles	GRLA3000	5980	Sun Valley	Cx. quinquefasciatus	18	GRVD	8/31/12	WNV	RTPCR
Los Angeles	GRLA3132	5954	Los Angeles	Cx. quinquefasciatus	31	GRVD	8/28/12	WNV	RTPCR
Los Angeles	LACW1049	301	Inglewood	Cx. quinquefasciatus	48	GRVD	8/29/12	WNV	RTPCR
Madera	MADR0019	105		Cx. tarsalis	50	CO2	8/28/12	WNV	RTPCR
Orange	ORCO0198	1039	La Habra	Cx. quinquefasciatus	22	GRVD	8/28/12	WNV	RTPCR
Orange	ORCO0028	1045	Anaheim	Cx. quinquefasciatus	40	GRVD	8/29/12	WNV	RTPCR
Orange	ORCO0034	1041	Brea	Cx. quinquefasciatus	25	GRVD	8/28/12	WNV	RTPCR
Orange	ORCO0050	1032	Buena Park	Cx. quinquefasciatus	26	GRVD	8/28/12	WNV	RTPCR
Orange	ORCO0052	1034	Anaheim	Cx. quinquefasciatus	50	GRVD	8/28/12	WNV	RTPCR
Orange	ORCO0058	1050	Laguna Niguel	Cx. quinquefasciatus	18	GRVD	8/30/12	WNV	RTPCR
Riverside	COAV0204	2288	Indio	Cx. tarsalis	28	CO2	8/30/12	WNV	RTPCR
Riverside	NWST0100	277	riverside	Cx. quinquefasciatus	50	REST	8/13/12	WNV	RTPCR
Sacramento	SAYO201001	5010	Sacramento	Cx. tarsalis	50	CO2	8/31/12	WNV	RTPCR
Sacramento	SAYO201001	5011	Sacramento	Cx. tarsalis	50	CO2	8/31/12	WNV	RTPCR
Sacramento	SAYO201006	4989	Sacramento	Cx. tarsalis	50	CO2	8/31/12	WNV	RTPCR
Sacramento	SAYO202006	4987	Sacramento	Cx. tarsalis	26	CO2	8/31/12	WNV	RTPCR
Sacramento	SAYO202006	4988	Sacramento	Cx. pipiens	7	GRVD	8/31/12	WNV	RTPCR
Sacramento	SAYO203011	4955	Antelope	Cx. pipiens	11	GRVD	8/31/12	WNV	RTPCR
Sacramento	SAYO203027	4963	Sacramento	Cx. pipiens	7	GRVD	8/31/12	WNV	RTPCR
Sacramento	SAYO214011	4986	Fair Oaks	Cx. pipiens	5	CO2	8/31/12	WNV	RTPCR
Sacramento	SAYO214021	5095	Rancho Cordova	Cx. tarsalis	11	CO2	8/31/12	WNV	RTPCR
Sacramento	SAYO214021	5096	Rancho Cordova	Cx. pipiens	8	CO2	8/31/12	WNV	RTPCR
Sacramento	SAYO222015	5054	Sacramento	Cx. pipiens	12	GRVD	8/31/12	WNV	RTPCR

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Sacramento	SAYO232012	5017	Elk Grove	Cx. pipiens	6	CO2	8/31/12	WNV	RTPCR
Sacramento	SAYO233040	5023	Elk Grove	Cx. tarsalis	8	CO2	8/31/12	WNV	RTPCR
Sacramento	SAYO235001	5097	Wilton	Cx. tarsalis	50	CO2	8/31/12	WNV	RTPCR
Sacramento	SAYO243025	5036	Elk Grove	Cx. pipiens	3	GRVD	8/31/12	WNV	RTPCR
San Bernardino	SANB000001	407	Needles	Cx. tarsalis	50	CO2	8/29/12	WNV	RTPCR
San Bernardino	SANB000001	420	Needles	Cx. tarsalis	50	CO2	8/29/12	WNV	RTPCR
San Bernardino	SANB000001	447	Needles	Cx. tarsalis	50	CO2	8/29/12	WNV	RTPCR
San Bernardino	SANB000001	466	Needles	Cx. tarsalis	50	CO2	8/29/12	WNV	RTPCR
San Bernardino	SANB000001	472	Needles	Cx. tarsalis	50	CO2	8/29/12	WNV	RTPCR
San Bernardino	SANB000001	478	Needles	Cx. tarsalis	50	CO2	8/29/12	WNV	RTPCR
San Bernardino	SANB000001	481	Needles	Cx. tarsalis	50	CO2	8/29/12	WNV	RTPCR
San Joaquin	SJCM8003	927	Tracy	Cx. tarsalis	21	CO2	9/5/12	WNV	RTPCR
San Joaquin	SJCM8004	906	Lodi	Cx. tarsalis	11	CO2	9/5/12	WNV	RTPCR
San Joaquin	SJCM8010	890	Ripon	Cx. tarsalis	40	CO2	9/5/12	WNV	RTPCR
San Joaquin	SJCM8010	892	Ripon	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
San Joaquin	SJCM8010	894	Ripon	Cx. pipiens	49	CO2	9/5/12	WNV	RTPCR
San Joaquin	SJCM8018	912	Stockton	Cx. tarsalis	28	CO2	9/5/12	WNV	RTPCR
San Joaquin	SJCM8056	921	Manteca	Cx. tarsalis	19	CO2	9/5/12	WNV	RTPCR
San Joaquin	SJCM8076	941	Stockton	Cx. tarsalis	6	CO2	9/5/12	WNV	RTPCR
San Joaquin	SJCM8079	919	Manteca	Cx. tarsalis	5	CO2	9/5/12	WNV	RTPCR
San Joaquin	SJCM8094	933	Manteca	Cx. tarsalis	15	CO2	9/5/12	WNV	RTPCR
San Joaquin	SJCM8100	936	Tracy	Cx. tarsalis	13	CO2	9/5/12	WNV	RTPCR
San Joaquin	SJCM8105	942	Tracy	Cx. pipiens	1	GRVD	9/5/12	WNV	RTPCR
San Joaquin	SJCM8161	884	Ripon	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
San Joaquin	SJCM8161	885	Ripon	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
San Joaquin	SJCM8185	872	Manteca	Cx. pipiens	21	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK1105	1093	Turlock	Cx. pipiens	41	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK1107	1131	Denair	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0407	1052	Turlock	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0408	1056	Turlock	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0408	1058	Turlock	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0408	1059	Turlock	Cx. pipiens	20	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0421	1130	Hughson	Cx. pipiens	37	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0432	1061	Turlock	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0432	1065	Turlock	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0432	1066	Turlock	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0432	1071	Turlock	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0436	1156	Modesto	Cx. pipiens	22	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0514	1021	Turlock	Cx. pipiens	50	CO2	8/30/12	WNV	RTPCR
Stanislaus	TRLK0516	1134	Denair	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0516	1136	Denair	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0526	1079	Denair	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0526	1080	Denair	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0530	1039	Turlock	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0531	1007	Turlock	Cx. pipiens	50	CO2	8/30/12	WNV	RTPCR
Stanislaus	TRLK0531	1015	Turlock	Cx. pipiens	50	CO2	8/30/12	WNV	RTPCR
Stanislaus	TRLK0536	1047	Turlock	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0613	1144	Hickman	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0613	1145	Hickman	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0613	1146	Hickman	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0613	1148	Hickman	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0625	1075	Turlock	Cx. pipiens	41	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0703	1104	Turlock	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0703	1105	Turlock	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR

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Stanislaus	TRLK0703	1114	Turlock	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0703	1118	Turlock	Cx. pipiens	50	CO2	9/5/12	WNV	RTPCR
Stanislaus	TRLK0709	1002	Turlock	Cx. pipiens	38	CO2	8/30/12	WNV	RTPCR
Stanislaus	TRLK0713	1003	Keyes	Cx. pipiens	29	CO2	8/30/12	WNV	RTPCR
Tulare	DLTA6406	386	Dinuba	Cx. quinquefasciatus	13	CO2	8/31/12	WNV	RTPCR
Tulare	DLTA8501	383	Ivanhoe	Cx. quinquefasciatus	13	GRVD	8/31/12	WNV	RTPCR
Tulare	TLRE0055	66	Tulare	Cx. pipiens	41	CO2	9/5/12	WNV	RTPCR
Tulare	TLRE0075	65	Tulare	Cx. pipiens	14	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO114002	5219	Zamora	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO114002	5220	Zamora	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO114002	5221	Zamora	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO114002	5222	Zamora	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO114002	5223	Zamora	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO115001	4939	Knights Landing	Cx. tarsalis	50	CO2	8/28/12	WNV	RTPCR
Yolo	SAYO116002	5200	Knights Landing	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO116002	5201	Knights Landing	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO116002	5202	Knights Landing	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO116002	5203	Knights Landing	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO123001	5216	Esparto	Cx. tarsalis	16	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO123001	5217	Esparto	Cx. pipiens	3	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO123001	5218	Esparto	Cx. pipiens	6	GRVD	9/5/12	WNV	RTPCR
Yolo	SAYO123010	5215	Esparto	Cx. tarsalis	15	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO124004	5180	Woodland	Cx. tarsalis	25	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO124004	5181	Woodland	Cx. pipiens	4	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO125004	5143	Woodland	Cx. tarsalis	29	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO135005	5171	Woodland	Cx. pipiens	4	GRVD	9/5/12	WNV	RTPCR
Yolo	SAYO135006	5182	Woodland	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO135006	5184	Woodland	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO135006	5185	Woodland	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO135006	5186	Woodland	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO135006	5188	Woodland	Cx. pipiens	5	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO135010	5197	Woodland	Cx. tarsalis	25	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO135011	5134	Woodland	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO135011	5135	Woodland	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO136010	5192	Woodland	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO145016	5146	Davis	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Yolo	SAYO145018	5131	Davis	Cx. pipiens	45	GRVD	9/5/12	WNV	RTPCR
Yolo	SAYO146002	5149	Davis	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR

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Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05	Band 06
Butte	BUCO000002	Oroville	8/28/2012	WNV	1518	1520	1521	1522	1583	
Butte	BUCO000003	Oroville	8/28/2012	WNV	1524	1526	1580			
Butte	BUCO000004	Gridley	8/28/2012	WNV	1535	1538	1541	1543	1544	1582
Butte	BUCO000005	Honcut	8/28/2012	WNV	1554					
Butte	BUCO000007	Chico	8/28/2012	WNV	1570					
Contra Costa	CNTR008152	Knightsen	8/27/2012	WNV	1621					
Glenn	GLEN009701	Willows	8/29/2012	WNV	1677	1680	1683			
Kern	DLNO000035		8/30/2012	WNV	1726	1727	1731	1732	1734	
Kern	DLNO000060	Delano	8/30/2012	WNV	1701	1705				
Placer	PLCR000095	Lincoln	8/27/2012	WNV	2824					
Sacramento	SAYO202019	Rio Linda	8/27/2012	WNV	2361					
Sacramento	SAYO233001	Elk Grove	8/27/2012	WNV	2331	2395				
Sacramento	SAYO242002	Elk Grove	8/20/2012	WNV	2356					
Sacramento	SAYO245019	Wilton	8/27/2012	WNV	2323	2403	2404			
Shasta	SHAS009701	Cottonwood	8/30/2012	WNV	2713					
Stanislaus	EAST001947	Modesto	8/29/2012	WNV	1776	1778	1780			
Stanislaus	EAST001959	Oakdale	8/29/2012	WNV	1787					
Sutter	SUYA000014	Sutter	8/30/2012	WNV	1472	1474	1475	1476		
Sutter	SUYA000015	Robbins	8/30/2012	WNV	1492	1495	1499			
Sutter	SUYA000020	Meridian	8/30/2012	WNV	1483					
Sutter	SUYA000030	Live Oak	8/30/2012	WNV	1460	1462	1463	1465		
Sutter	SUYA000084	Yuba City	8/30/2012	WNV	1435					
Tulare	DLNO000021	Earlimart	8/30/2012	WNV	1719					
Yolo	SAYO125023	Woodland	8/27/2012	WNV	2370					
Yuba	SUYA000007	Marysville	8/30/2012	WNV	1440	1445	1446	1447		

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Test Protocols

Humans:

Specimens are tested by local laboratories with an IgM or IgG immunofluorescent assay (IFA) and/or an IgM enzyme immunoassay (EIA). Specimens with inconclusive results are forwarded to the California Department of Public Health Viral and Rickettsial Disease Laboratory (VRDL) for further testing or confirmation.

Horses:

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

Dead Birds and Tree Squirrels:

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

Sentinel Chickens:

Dried blood spot specimens from sentinel chickens are submitted to the California Department of Public Health Vector-Borne Disease Laboratory and tested for the presence of antibodies to West Nile, western equine encephalomyelitis (WEEV), and St. Louis encephalitis (SLEV) viruses by EIA and IFA. Positive samples are confirmed by western-blot or PRNT.

Mosquito Pools:

Mosquito pools are submitted to CVEC and screened for WEEV, SLEV, and WNV viral RNA using a Taqman multiplex RT-PCR. CVEC will cease confirmation testing on PCR-positive pools of *Cx. tarsalis* and *Cx. quinquefasciatus* but will continue to confirm multiplex PCR-positive results for other mosquito species using singleplex RT-PCR.

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Tina Feiszli by phone (510) 412-6253 or email: tina.feiszli@cdph.ca.gov.

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.