

## California Arbovirus Surveillance Bulletin #30

Week 37 Friday, September 14, 2012



### Human Cases

A total of 39 new cases of West Nile virus (WNV) were reported this week from the following 17 counties: Butte (2), Colusa (1), Contra Costa (1), Fresno (3), Glenn (2), Kern (5), Los Angeles (5), Madera (1), Merced (2), Orange (3), Placer (2), Riverside (1), Sacramento (3), San Joaquin (2), Solano (1), Sutter (4), and Tehama (1). These are the first human cases reported from Colusa, Contra Costa, Glenn, Madera, Solano, and Tehama counties this year. As of September 13, 2012, a total of 114 human cases of WNV illness have been reported in 23 counties. Of the 114 cases, 70 (61%) had neuroinvasive illness. The median age of the 114 individuals is 58 years (range: 2-88 years); 71 (62%) are male. Dates of symptom onset for all cases ranged from May 23-September 3, 2012. Six WNV-related fatalities have been reported to date in Fresno (1), Kern (1), Merced (1), Placer (1), and Sacramento (2) counties. A total of 26 WNV-positive blood donors have been reported this year; 5 individuals developed symptoms and were reclassified as cases. At this time last year, 48 WNV cases had been reported from 12 counties.

**National Comments:** As of September 11, 2012, 2,636 WNV cases had been reported nationwide from 44 states and the District of Columbia (DC). This is the highest number of cases reported through the second week of September since 2003. Two thirds of the cases have been reported from Texas, Louisiana, South Dakota, Mississippi, Michigan, and Oklahoma. Of the 2,636 cases, 1,405 (53%) were classified as neuroinvasive disease, and 118 (4%) died.

### Horses

One new equine case of WNV was reported this week: an unvaccinated gelding from Sacramento County with onset date of August 30; the horse was euthanized as a result of his illness. Additionally, an alpaca from Yolo County tested positive for WNV. The alpaca developed neurological symptoms in late August and died shortly after symptom onset. In 2012, 11 horses from 8 counties have tested positive for WNV; four of the horses died or were euthanized as a result of their illness. At this time last year, 7 equine cases of WNV from 6 counties had been reported.

### Dead Birds & Squirrels

A total of 119 WNV positive dead birds were reported this week from 19 counties: Butte (8), Contra Costa (6), El Dorado (1), Fresno (1), Kings (1), Los Angeles (20), Mendocino (1), Merced (2), Orange (32), Placer (10), Sacramento (13), San Joaquin (4), Shasta (1), Solano (3), Stanislaus (3), Sutter (3), Ventura (2), Yolo (5), and Yuba (3). This is the first WNV positive dead bird reported from Kings County and the first detection of WNV activity in Mendocino County this year. An additional 27 dead birds tested positive for chronic WNV infection (see Dead Bird Table for details). In 2012, 1,205 dead birds and 8 squirrels have tested positive for recent WNV infection from 33 and 5 counties, respectively. At this time last year, 398 dead birds from 21 counties and one tree squirrel from one county had tested positive for WNV.

### Mosquito Pools

A total of 202 WNV positive mosquito pools were reported this week from 20 counties: Butte (5), Contra Costa (2), Fresno (5), Imperial (1), Kern (31), Kings (28), Lake (2), Los Angeles (26), Merced (1), Orange (3), Placer (4), Riverside (7), Sacramento (25), San Bernardino (6), San Joaquin (17), Santa Clara (1), Shasta (3), Stanislaus (19), Tulare (14), and Yuba (2). In 2012, 2,282 mosquito pools from 28 counties have tested positive for WNV. At this time last year, 1,651 mosquito pools had tested positive for WNV from 24 counties.

### Sentinel Chickens

A total of 45 WNV seroconversions were reported this week from 24 flocks in 8 counties: Butte (1), Colusa (3), Imperial (1), Kern (7), Los Angeles (10), Riverside (12), San Bernardino (10), and Solano (1); this is the first WNV positive chicken detected in Solano County this year. In 2012, 321 WNV antibody-positive chickens have been detected among 77 flocks in 18 counties. At this time last year, 167 WNV positive chickens had been detected from 11 counties.

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2011 & 2012 YTD West Nile Virus Comparisons		
	2011	2012
Total # Dead Bird Reports	7,770	15,678
# Positive Counties	29	34
# Human Cases	48	114
# Horse Cases	7	11
# Positive Dead Birds / # Tested	398 / 1,812	1,205 / 3,224
# Positive Mosquito Pools / # Tested	1,651 / 25,427	2,282 / 25,325
# Seroconversions / # Tested	167 / 16,301	321 / 18,201
# Positive Squirrels / # Tested	1 / 64	8 / 109

YTD WNV Activity by Element and County, 2012						
County	Humans	Horses	Dead Birds*	Mosquito Pools	Sentinel Chickens	Squirrels*
Alameda			9			1
Butte	6	1	31	24	36	1
Colusa	1		5		4	
Contra Costa	1		41	17	4	
El Dorado			4			
Fresno	13	2	18	124		
Glenn	2	1	15	4	4	
Imperial	1			4	8	
Kern	15		14	458	43	
Kings			1	80		
Lake			5	15		
Los Angeles	12		113	168	55	4
Madera	1		1	10		
Mendocino			1			
Merced	7	1	36	3		
Napa				1		
Orange	5		44	36		
Placer	5		50	107	5	
Riverside	3		3	116	47	
Sacramento	8	2	455	447	24	
San Bernardino	3		19	48	31	
San Joaquin	4	2	50	133		
San Mateo			3			
Santa Clara			15	3		1
Santa Cruz			1			
Shasta			12	13	1	1
Solano	1		20	3	1	
Sonoma			2	2		
Stanislaus	12	1	37	167	8	
Sutter	5		19	18	29	
Tehama	1		4			
Tulare	3		46	122	6	
Ventura	2		27	2		
Yolo	3	1	95	142	3	
Yuba			9	15	12	
<b>Totals</b>	<b>114</b>	<b>11</b>	<b>1,205</b>	<b>2,282</b>	<b>321</b>	<b>8</b>

*\*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	39	0	0	0	0	0
	YTD	114	0	0	0	0	0
Horse Cases	Week	1	0	0	0	0	0
	YTD	11	0	0	0	0	0

### Dead Birds, Squirrels, & Rabbits

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	209	119
	YTD	3,224	1,205
Squirrels	Week	7	0
	YTD	109	8

### Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	428	45	0	0
	YTD	18,201	321	0	0
Mosquito Pools	Week	1,329	202	0	0
	YTD	25,325	2,282	0	0

## POSITIVES: WEEK 37

### Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
12-0076	09/06/12	KERN	77	M	WNF	08/18/12	NO
12-0077	09/06/12	PLACER	>18	M	WNND	08/27/12	NO
12-0078	09/06/12	GLENN	>18	F	WNF	N/A	NO
12-0079	09/06/12	BUTTE	>18	M	WNF	N/A	NO
12-0080	09/06/12	MERCED	>18	M	WNND	08/26/12	NO
12-0081	09/06/12	LOS ANGELES	58	M	WNND	08/19/12	NO
12-0082	09/06/12	LOS ANGELES	32	F	WNF	08/04/12	NO
12-0083	09/06/12	LOS ANGELES	81	M	WNF	08/14/12	NO
12-0084	09/06/12	LOS ANGELES	54	M	WNND	08/21/12	NO
12-0085	09/06/12	LOS ANGELES	55	M	WNND	08/17/12	NO
12-0086	09/07/12	SACRAMENTO	51	F	WNF	08/03/12	NO
12-0087	09/07/12	ORANGE	59	M	WNND	Week 35	NO
12-0088	09/07/12	ORANGE	56	F	WNND	Week 34	NO
12-0089	09/07/12	ORANGE	80	F	WNND	Week 33	NO
12-0090	09/07/12	FRESNO	82	M	WNND	08/21/12	NO

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12-0091	09/07/12	FRESNO	59	M	WNND	08/26/12	NO
12-0092	09/07/12	FRESNO	60	M	WNND	08/22/12	NO
12-0093	09/10/12	BUTTE	>18	M	WNND	08/15/12	NO
12-0094	09/11/12	SAN JOAQUIN	71	F	WNND	08/15/12	NO
12-0095	09/11/12	GLENN	>18	F	WNF	N/A	NO
12-0096	09/11/12	MERCED	>18	F	WNF	08/23/12	NO
12-0097	09/11/12	SACRAMENTO	70	F	WNND	08/09/12	NO
12-0098	09/11/12	SACRAMENTO	82	M	WNND	08/24/12	YES
12-0099	09/11/12	PLACER	>18	M	WNND	08/26/12	YES
12-0100	09/11/12	SOLANO	>18	M	WNF	08/13/12	NO
12-0101	09/12/12	SUTTER	>18	F	WNF	N/A	NO
12-0102	09/12/12	SUTTER	>18	M	WNND	08/08/12	NO
12-0103	09/12/12	SUTTER	>18	M	WNND	08/25/12	NO
12-0104	09/12/12	SUTTER	>18	M	N/A	N/A	NO
12-0105	09/12/12	MADERA	56	F	WNND	08/19/12	NO
12-0106	09/12/12	TEHAMA	>18	M	WNF	Week 33	NO
12-0107	09/12/12	CONTRA COSTA	>18	F	WNF	08/12/12	NO
12-0108	09/12/12	COLUSA	>18	N/A	WNND	08/25/12	NO
12-0109	09/12/12	SAN JOAQUIN	62	M	WNND	08/01/12	NO
12-0110	09/12/12	RIVERSIDE	19	F	WNND	08/26/12	NO
12-0111	09/12/12	KERN	50	M	WNF	08/01/12	NO
12-0112	09/12/12	KERN	59	F	WNF	07/29/12	NO
12-0113	09/12/12	KERN	27	F	WNND	N/A	NO
12-0114	09/12/12	KERN	64	M	WNF	08/17/12	NO

### Presumptive Viremic Blood Donors (Asymptomatic Infections)

ID	Report Date	County	Age	Sex			
BD12-0017	09/06/12	LOS ANGELES	62	F			
BD12-0018	09/06/12	LOS ANGELES	52	F			
BD12-0019	09/06/12	LOS ANGELES	66	M			
BD12-0020	09/06/12	LOS ANGELES	29	F			
BD12-0021	09/06/12	LOS ANGELES	60	M			

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### Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Butte	Butte MVCD	Chico	95926	Western Scrub-Jay	8/30/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95926	Western Scrub-Jay	8/29/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95926	American Crow	8/29/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95928	Western Scrub-Jay	8/30/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Durham	95938	Yellow-billed Magpie	8/29/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Gridley	95948	Western Scrub-Jay	8/30/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Gridley	95948	American Crow	9/3/2012	WNV	Recent	RT-PCR
Butte	Butte MVCD	Oroville	95966	Yellow Warbler	8/30/2012	WNV	Chronic	RT-PCR
Butte	Oroville MAD	Oroville	95965	Cooper's Hawk	8/29/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Antioch	94509	Western Scrub-Jay	9/11/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	9/10/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	9/11/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94519	American Crow	9/7/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	9/10/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Pleasant Hill	94523	American Crow	9/13/2012	WNV	Recent	RAMP
El Dorado	El Dorado EM	Cameron Park	95682	California Towhee	9/4/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado EM	El Dorado Hills	95762	Western Scrub-Jay	8/30/2012	WNV	Recent	RT-PCR
Fresno	Consolidated MAD	Fresno	93720	American Crow	9/12/2012	WNV	Recent	RAMP
Kern	Kern MVCD	Bakersfield	93308	American Crow	8/30/2012	WNV	Chronic	RT-PCR
Kern	Kern MVCD	Bakersfield	93312	Mourning Dove	8/31/2012	WNV	Chronic	RT-PCR
Kings	Kings MAD	Hanford	93230	American Crow	8/31/2012	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Whittier	90603	American Crow	8/23/2012	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Artesia	90701	American Crow	8/6/2012	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Lakewood	90712	Pacific-slope Flycatcher	8/27/2012	WNV	Chronic	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90808	American Crow	8/27/2012	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Hacienda Heights	91745	House Finch	7/23/2012	WNV	Chronic	RT-PCR
Los Angeles	Greater LA VCD - Sylmar	Sylmar	91342	American Crow	8/30/2012	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - Sylmar	Santa Clarita	91350	Lesser Goldfinch	8/29/2012	WNV	Chronic	RT-PCR
Los Angeles	Greater LA VCD - Sylmar	Sherman Oaks	91423	American Crow	8/29/2012	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - Sylmar	Valley Village	91607	American Crow	8/31/2012	WNV	Recent	RT-PCR
Los Angeles	LA Vet	Los Angeles	90036	American Crow	8/28/2012	WNV	Recent	RT-PCR
Los Angeles	LA Vet	Los Angeles	90064	American Crow	9/1/2012	WNV	Recent	RT-PCR
Los Angeles	LA Vet	Los Angeles	90066	American Crow	8/29/2012	WNV	Recent	RT-PCR
Los Angeles	LA Vet	Santa Monica	90402	American Crow	9/3/2012	WNV	Recent	RT-PCR
Los Angeles	LA Vet	Carson	90746	House Sparrow	8/30/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Vet	Reseda	91335	American Crow	8/30/2012	WNV	Recent	RT-PCR
Los Angeles	LA Vet	Woodland Hills	91364	American Crow	8/31/2012	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles W VCD	Los Angeles	90064	American Crow	8/30/2012	WNV	Recent	RT-PCR
Los Angeles	Los Angeles W VCD	Culver City	90230	American Crow	8/29/2012	WNV	Recent	RT-PCR
Los Angeles	Los Angeles W VCD	Santa Monica	90402	American Crow	8/31/2012	WNV	Recent	RT-PCR
Los Angeles	Los Angeles W VCD	Santa Monica	90405	American Crow	8/30/2012	WNV	Recent	RT-PCR
Los Angeles	Pasadena Humane Soc.	Pasadena	91107	House Finch	8/29/2012	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Vall. MVCD	Monrovia	91016	House Finch	8/30/2012	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Vall. MVCD	Azusa	91702	American Crow	9/10/2012	WNV	Recent	RAMP
Los Angeles	San Gabriel Vall. MVCD	Irwindale	91706	House Finch	9/4/2012	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Vall. MVCD	Covina	91724	Common Raven	9/7/2012	WNV	Recent	RAMP
Los Angeles	San Gabriel Vall. MVCD	West Covina	91790	Mourning Dove	9/4/2012	WNV	Chronic	RT-PCR
Los Angeles	San Gabriel Vall. MVCD	Alhambra	91803	Lesser Goldfinch	8/28/2012	WNV	Chronic	RT-PCR

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Mendocino	Mendocino EHD	Willits	95490	Western Scrub-Jay	8/30/2012	WNV	Recent	RT-PCR
Merced	Merced MAD	Merced	95341	Western Scrub-Jay	9/4/2012	WNV	Recent	RT-PCR
Merced	Merced MAD	Winton	95388	Yellow-billed Magpie	9/5/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Buena Park	90620	American Crow	8/24/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Cypress	90630	American Crow	8/28/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	La Habra	90631	House Sparrow	8/28/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Newport Beach	92660	American Crow	8/28/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Westminster	92683	American Crow	9/5/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Rancho Santa Margarita	92688	House Finch	8/30/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Mission Viejo	92691	Finch	9/6/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Mission Viejo	92692	House Finch	8/30/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Santa Ana	92705	American Crow	9/5/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Santa Ana	92706	American Crow	9/7/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Fountain Valley	92708	American Crow	8/30/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92801	American Crow	8/29/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92802	American Crow	9/10/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Anaheim	92802	American Crow	9/10/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92802	American Crow	9/4/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92805	House Sparrow	8/30/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92805	American Crow	9/6/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92807	American Crow	9/6/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Brea	92821	Mourning Dove	8/23/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Brea	92821	American Crow	8/24/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Fullerton	92835	American Crow	8/24/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Garden Grove	92840	American Crow	8/24/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Garden Grove	92840	American Crow	8/28/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Garden Grove	92840	American Crow	9/3/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Garden Grove	92840	American Crow	9/6/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Garden Grove	92840	American Crow	8/31/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Garden Grove	92841	Parrot	9/10/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Garden Grove	92843	American Crow	8/28/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Garden Grove	92843	American Crow	8/28/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Garden Grove	92843	American Crow	9/5/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Villa Park	92861	Unknown	8/31/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Orange	92865	American Crow	8/29/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Orange	92866	American Crow	9/10/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Orange	92867	House Finch	8/28/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Orange	92868	American Crow	8/27/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Orange	92869	Lesser Goldfinch	8/27/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Orange	92869	American Crow	8/28/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Placentia	92870	American Crow	9/5/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Tustin	92870	American Crow	8/24/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Placentia	92870	American Crow	9/10/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	American Crow	9/5/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	American Crow	9/7/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Loomis	95650	Western Scrub-Jay	9/5/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95661	American Crow	8/30/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95661	Finch	9/11/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95678	Unknown	9/6/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Granite Bay	95746	American Robin	9/1/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Granite Bay	95746	Mourning Dove	8/31/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	Northern Mockingbird	9/1/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	Western Scrub-Jay	8/31/2012	WNV	Recent	RT-PCR

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Riverside	Riverside VCP	Sun City	92586	American Crow	8/26/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95621	American Crow	9/1/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95621	American Crow	9/4/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95621	American Crow	9/4/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95621	American Crow	9/4/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	California Towhee	8/14/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Isleton	95641	Western Scrub-Jay	9/3/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Gold River	95670	Lesser Goldfinch	9/4/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	American Crow	9/3/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95827	American Crow	9/5/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95833	Western Scrub-Jay	9/3/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95833	Yellow-billed Magpie	9/5/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95833	American Crow	9/6/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95834	American Crow	9/5/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Antelope	95843	Western Scrub-Jay	9/10/2012	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Fontana	92336	American Crow	8/29/2012	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin MVCD	Lodi	95240	American Crow	9/9/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Woodbridge	95258	Sparrow	9/6/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Tracy	95304	Yellow-billed Magpie	9/10/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Tracy	95376	American Crow	9/12/2012	WNV	Recent	RT-PCR
Santa Barbara	Santa Barbara MVMD	Santa Barbara	93103	Parakeet	9/3/2012	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95126	Sharp-shinned Hawk	8/29/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Santa Cruz	95062	California Towhee	8/30/2012	WNV	Chronic	RT-PCR
Shasta	Shasta MVCD	Anderson	96007	Western Scrub-Jay	9/12/2012	WNV	Recent	RAMP
Solano	Solano Co MAD	Fairfield	94533	American Crow	8/24/2012	WNV	Recent	RAMP
Solano	Solano Co MAD	Fairfield	94533	American Crow	8/27/2012	WNV	Recent	RT-PCR
Solano	Solano Co MAD	Vacaville	95687	Western Scrub-Jay	8/27/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Hughson	95326	Western Scrub-Jay	8/29/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Patterson	95363	Western Scrub-Jay	8/28/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Patterson	95363	Other	8/28/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95381	Yellow-billed Magpie	8/28/2012	WNV	Chronic	RT-PCR
Sutter	Sutter-Yuba MVCD	Live Oak	95953	American Crow	9/4/2012	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95993	Western Scrub-Jay	8/29/2012	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95993	Western Scrub-Jay	8/29/2012	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Thousand Oaks	91362	Lesser Goldfinch	8/29/2012	WNV	Chronic	RT-PCR
Ventura	Ventura EHD	Simi Valley	93065	American Crow	8/31/2012	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Simi Valley	93065	American Crow	8/30/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	Western Scrub-Jay	9/5/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Esparto	95627	Western Scrub-Jay	9/10/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	West Sacramento	95691	Western Scrub-Jay	9/5/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	West Sacramento	95691	American Crow	9/7/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Winters	95694	Yellow-billed Magpie	9/8/2012	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Browns Valley	95918	Western Scrub-Jay	9/4/2012	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Olivehurst	95961	Red-tailed Hawk	8/30/2012	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Olivehurst	95961	Yellow-billed Magpie	8/30/2012	WNV	Recent	RT-PCR

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**Mosquito Pools**

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Method
Butte	BUCO37	144	Honcut	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Butte	BUCO37	145	Honcut	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Butte	BUCO37	146	Honcut	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Butte	BUCO60	138	Chico	Cx. tarsalis	35	CO2	9/5/12	WNV	RTPCR
Butte	BUCO60	139	Chico	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Contra Costa	CNTR1688	370	Brentwood	Cx. pipiens	38	CO2	9/10/12	WNV	RAMP
Contra Costa	CNTR3802	353	Antioch	Cx. pipiens	6	CO2	9/10/12	WNV	RTPCR
Fresno	CNSL6128	713	Riverdale	Cx. quinquefasciatus	26	GRVD	9/12/12	WNV	RTPCR
Fresno	FRWS2105	252	Dos Palos	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Fresno	FRWS220001	241	Firebaugh	Cx. tarsalis	50	CO2	9/7/12	WNV	RTPCR
Fresno	FRWS4110	257	Mendota	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Fresno	FRWS5101	253	Mendota	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Imperial	COAV5001	2326	Niland	Cx. tarsalis	11	CO2	9/6/12	WNV	RTPCR
Kern	KERN0029	2052	Lamont	Cx. tarsalis	50	CO2	9/6/12	WNV	RTPCR
Kern	KERN0031	2064	Arvin	Cx. tarsalis	36	CO2	9/6/12	WNV	RTPCR
Kern	KERN0042	1988	Bakersfield	Cx. quinquefasciatus	50	CO2	9/4/12	WNV	RTPCR
Kern	KERN0045	1700	Buttonwillow	Cx. quinquefasciatus	50	CO2	8/20/12	WNV	RTPCR
Kern	KERN0045	2010	Buttonwillow	Cx. quinquefasciatus	49	CO2	9/4/12	WNV	RTPCR
Kern	KERN0083	2065	Arvin	Cx. quinquefasciatus	50	CO2	9/6/12	WNV	RTPCR
Kern	KERN0083	2066	Arvin	Cx. quinquefasciatus	50	CO2	9/6/12	WNV	RTPCR
Kern	KERN0083	2068	Arvin	Cx. tarsalis	50	CO2	9/6/12	WNV	RTPCR
Kern	KERN0114	2055	Bakersfield	Cx. tarsalis	50	CO2	9/6/12	WNV	RTPCR
Kern	KERN0115	1970	Bakersfield	Cx. quinquefasciatus	50	CO2	9/4/12	WNV	RTPCR
Kern	KERN0115	1971	Bakersfield	Cx. quinquefasciatus	50	CO2	9/4/12	WNV	RTPCR
Kern	KERN0115	1973	Bakersfield	Cx. tarsalis	50	CO2	9/4/12	WNV	RTPCR
Kern	KERN1105	2007	Lost Hills	Cx. tarsalis	50	CO2	9/4/12	WNV	RTPCR
Kern	KERN2007	1957	Bakersfield	Cx. quinquefasciatus	50	GRVD	9/4/12	WNV	RTPCR
Kern	KERN2007	1958	Bakersfield	Cx. quinquefasciatus	50	GRVD	9/4/12	WNV	RTPCR
Kern	KERN2020	1962	Bakersfield	Cx. quinquefasciatus	50	GRVD	9/4/12	WNV	RTPCR
Kern	KERN2021	2041	Wasco	Cx. quinquefasciatus	45	GRVD	9/6/12	WNV	RTPCR
Kern	KERN2024	2013	Bakersfield	Cx. quinquefasciatus	34	GRVD	9/5/12	WNV	RTPCR
Kern	KERN2030	2016	Bakersfield	Cx. quinquefasciatus	50	GRVD	9/5/12	WNV	RTPCR
Kern	KERN3026	1980	Arvin93203	Cx. tarsalis	19	CO2	9/4/12	WNV	RTPCR
Kern	KERN3029	2024	Buttonwillow	Cx. quinquefasciatus	50	CO2	9/5/12	WNV	RTPCR
Kern	KERN3029	2025	Buttonwillow	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Kern	KERN3029	2026	Buttonwillow	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Kern	KERN3030	2076	Shafter	Cx. quinquefasciatus	50	CO2	9/6/12	WNV	RTPCR
Kern	KERN3030	2077	Shafter	Cx. quinquefasciatus	50	CO2	9/6/12	WNV	RTPCR
Kern	KERN3030	2079	Shafter	Cx. tarsalis	37	CO2	9/6/12	WNV	RTPCR
Kern	KERN3031	2071	Shafter	Cx. quinquefasciatus	50	CO2	9/6/12	WNV	RTPCR
Kern	KERN3031	2072	Shafter	Cx. tarsalis	33	CO2	9/6/12	WNV	RTPCR
Kern	WEST6209	119	Maricopa	Cx. quinquefasciatus	50	CO2	9/12/12	WNV	RTPCR
Kern	WEST6209	124	Maricopa	Cx. tarsalis	18	CO2	9/12/12	WNV	RTPCR
Kern	WEST6231	126	Taft	Cx. quinquefasciatus	22	GRVD	9/12/12	WNV	RTPCR
Kings	CNSL5049	706	Kingsburg	Cx. quinquefasciatus	50	CO2	9/7/12	WNV	RTPCR
Kings	CNSL5123	705	Kingsburg	Cx. quinquefasciatus	50	CO2	9/7/12	WNV	RTPCR
Kings	KNGS2001	452	Hanford	Cx. pipiens	50	CO2	9/4/12	WNV	RTPCR
Kings	KNGS3005	468	Lemoore	Cx. pipiens	50	CO2	9/4/12	WNV	RTPCR
Kings	KNGS3005	470	Lemoore	Cx. tarsalis	50	CO2	9/4/12	WNV	RTPCR
Kings	KNGS3005	508	Lemoore NAS	Cx. tarsalis	50	CO2	9/10/12	WNV	RTPCR
Kings	KNGS3018	482	Lemoore	Cx. tarsalis	50	CO2	9/4/12	WNV	RTPCR
Kings	KNGS3018	483	Lemoore	Cx. tarsalis	50	CO2	9/4/12	WNV	RTPCR
Kings	KNGS3018	496	Lemoore	Cx. tarsalis	50	CO2	9/10/12	WNV	RTPCR



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Kings	KNGS3027	537	Lemoore	Cx. tarsalis	50	CO2	9/10/12	WNV	RTPCR
Kings	KNGS3030	475	Lemoore	Cx. tarsalis	37	CO2	9/4/12	WNV	RTPCR
Kings	KNGS3030	503	Lemoore	Cx. tarsalis	36	CO2	9/10/12	WNV	RTPCR
Kings	KNGS3033	458	Hanford	Cx. pipiens	50	CO2	9/4/12	WNV	RTPCR
Kings	KNGS3033	516	Hanford	Cx. tarsalis	50	CO2	9/10/12	WNV	RTPCR
Kings	KNGS3039	477	Lemoore	Cx. tarsalis	50	CO2	9/4/12	WNV	RTPCR
Kings	KNGS3039	478	Lemoore	Cx. tarsalis	50	CO2	9/4/12	WNV	RTPCR
Kings	KNGS3039	479	Lemoore	Cx. tarsalis	50	CO2	9/4/12	WNV	RTPCR
Kings	KNGS3050	466	Lemoore	Cx. tarsalis	50	CO2	9/4/12	WNV	RTPCR
Kings	KNGS3062	472	Lemoore	Cx. tarsalis	50	CO2	9/4/12	WNV	RTPCR
Kings	KNGS3062	474	Lemoore	Cx. pipiens	47	CO2	9/4/12	WNV	RTPCR
Kings	KNGS4003	520	Hanford	Cx. tarsalis	50	CO2	9/10/12	WNV	RTPCR
Kings	KNGS4003	522	Hanford	Cx. pipiens	50	CO2	9/10/12	WNV	RTPCR
Kings	KNGS4007	493	Lemoore	Cx. pipiens	25	Gravid	9/4/12	WNV	RTPCR
Kings	KNGS5504	531	Hanford	Cx. pipiens	21	CO2	9/10/12	WNV	RTPCR
Kings	KNGS8022	463	Lemoore	Cx. tarsalis	50	CO2	9/4/12	WNV	RTPCR
Kings	KNGS8022	464	Lemoore	Cx. tarsalis	25	CO2	9/4/12	WNV	RTPCR
Kings	KNGS8030	501	Corcoran	Cx. tarsalis	50	CO2	9/10/12	WNV	RTPCR
Kings	KNGS8033	445	Hanford	Cx. pipiens	31	CO2	9/4/12	WNV	RTPCR
Lake	LAKE80	372		Cx. tarsalis	50	CO2	9/6/12	WNV	RTPCR
Lake	LAKE80	379		Cx. stigmatosoma	18	REST	9/11/12	WNV	RTPCR
Los Angeles	GRLA2065	1034	Gardena	Cx. quinquefasciatus	48	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA2100	1038	Norwalk	Cx. quinquefasciatus	20	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA2247	1024	Pico Rivera	Cx. quinquefasciatus	50	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA2247	1025	Pico Rivera	Cx. quinquefasciatus	47	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA2383	1023	Whittier	Cx. quinquefasciatus	23	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA2414	5987	Granada Hills	Cx. quinquefasciatus	50	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA2416	5997	Panorama City	Cx. quinquefasciatus	47	CO2	9/6/12	WNV	RTPCR
Los Angeles	GRLA2520	6004	Los Angeles	Cx. quinquefasciatus	19	GRVD	9/7/12	WNV	RTPCR
Los Angeles	GRLA2540	5989	Northridge	Cx. quinquefasciatus	16	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA2554	5990	Winnetka	Cx. quinquefasciatus	50	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA2592	5999	San Marino	Cx. quinquefasciatus	20	GRVD	9/7/12	WNV	RTPCR
Los Angeles	GRLA2604	6000	Los Angeles	Cx. quinquefasciatus	13	GRVD	9/7/12	WNV	RTPCR
Los Angeles	GRLA2655	5984	Encino	Cx. quinquefasciatus	50	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA2655	5985	Encino	Cx. quinquefasciatus	47	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA2655	5995	Encino	Cx. quinquefasciatus	50	CO2	9/6/12	WNV	RTPCR
Los Angeles	GRLA2655	5996	Encino	Cx. quinquefasciatus	50	CO2	9/6/12	WNV	RTPCR
Los Angeles	GRLA2780	1042	Pico Rivera	Cx. quinquefasciatus	50	USDS	9/6/12	WNV	RTPCR
Los Angeles	GRLA2780	1043	Pico Rivera	Cx. quinquefasciatus	42	USDS	9/6/12	WNV	RTPCR
Los Angeles	GRLA2936	6005	Burbank	Cx. quinquefasciatus	50	GRVD	9/7/12	WNV	RTPCR
Los Angeles	GRLA2955	1039	Cerritos	Cx. quinquefasciatus	42	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA2962	5994	Chatsworth	Cx. quinquefasciatus	50	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA2995	5992	Woodland Hills	Cx. quinquefasciatus	50	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA2995	5993	Woodland Hills	Cx. quinquefasciatus	35	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA3102	5981	Studio City	Cx. quinquefasciatus	50	GRVD	9/6/12	WNV	RTPCR
Los Angeles	GRLA3102	5982	Studio City	Cx. quinquefasciatus	50	GRVD	9/6/12	WNV	RTPCR
Los Angeles	LACW1049	302	Inglewood	Cx. quinquefasciatus	50	GRVD	9/5/12	WNV	RTPCR
Merced	TRLK00004	1253	Newman	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Orange	ORCO0002	1078	Fullerton	Cx. quinquefasciatus	34	GRVD	9/5/12	WNV	RTPCR
Orange	ORCO0013	1111	Irvine	Cx. tarsalis	8	CO2	9/6/12	WNV	RTPCR
Orange	ORCO0170	1068	Anaheim	Cx. quinquefasciatus	7	CO2	8/31/12	WNV	RTPCR
Placer	PLCR0058	1753	LINCOLN	Cx. tarsalis	48	CO2	9/11/12	WNV	RTPCR
Placer	PLCR0516	1676	Roseville	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Placer	PLCR1023	1687	Roseville	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Placer	PLCR1070	1663	Roseville	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR

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Riverside	COAV0057	2249	Mecca	Cx. tarsalis	50	CO2	8/28/12	WNV	RTPCR
Riverside	COAV0331	2302	Palm Desert	Cx. quinquefasciatus	27	GRVD	9/6/12	WNV	RTPCR
Riverside	RIVR0031	387	Nuevo	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Riverside	RIVR0031	390	Nuevo	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Riverside	RIVR0032	394	Nuevo	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Riverside	RIVR0032	396	Nuevo	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Riverside	RIVR0032	398	Nuevo	Cx. tarsalis	50	CO2	9/5/12	WNV	RTPCR
Sacramento	SAYO201003	5358	Sacramento	Cx. tarsalis	50	CO2	9/7/12	WNV	RTPCR
Sacramento	SAYO201003	5359	Sacramento	Cx. tarsalis	48	CO2	9/7/12	WNV	RTPCR
Sacramento	SAYO202022	5317	Elverta	Cx. tarsalis	50	CO2	9/7/12	WNV	RTPCR
Sacramento	SAYO203022	5305	Sacramento	Cx. pipiens	8	GRVD	9/7/12	WNV	RTPCR
Sacramento	SAYO204037	5296	Citrus Heights	Cx. pipiens	18	GRVD	9/7/12	WNV	RTPCR
Sacramento	SAYO204047	5291	Orangevale	Cx. pipiens	2	CO2	9/7/12	WNV	RTPCR
Sacramento	SAYO205010	5289	Orangevale	Cx. tarsalis	1	CO2	9/7/12	WNV	RTPCR
Sacramento	SAYO205014	5471	Folsom	Cx. pipiens	1	GRVD	9/11/12	WNV	RTPCR
Sacramento	SAYO213009	5301	Sacramento	Cx. pipiens	12	GRVD	9/7/12	WNV	RTPCR
Sacramento	SAYO214013	5285	Carmichael	Cx. pipiens	19	GRVD	9/7/12	WNV	RTPCR
Sacramento	SAYO222010	5427	Sacramento	Cx. tarsalis	7	CO2	9/11/12	WNV	RTPCR
Sacramento	SAYO224005	5319	Rancho Cordova	Cx. tarsalis	12	CO2	9/7/12	WNV	RTPCR
Sacramento	SAYO226002	5426	Rancho Murieta	Cx. pipiens	19	GRVD	9/11/12	WNV	RTPCR
Sacramento	SAYO232028	5248	Sacramento	Cx. tarsalis	50	CO2	9/6/12	WNV	RTPCR
Sacramento	SAYO233001	5380	Elk Grove	Cx. pipiens	10	GRVD	9/7/12	WNV	RTPCR
Sacramento	SAYO233003	5273	Elk Grove	Cx. pipiens	21	GRVD	9/7/12	WNV	RTPCR
Sacramento	SAYO233009	5266	Elk Grove	Cx. tarsalis	36	CO2	9/7/12	WNV	RTPCR
Sacramento	SAYO233009	5267	Elk Grove	Cx. pipiens	25	CO2	9/7/12	WNV	RTPCR
Sacramento	SAYO233009	5268	Elk Grove	Cx. pipiens	3	GRVD	9/7/12	WNV	RTPCR
Sacramento	SAYO234016	5410	Wilton	Cx. tarsalis	50	CO2	9/7/12	WNV	RTPCR
Sacramento	SAYO235001	5396	Wilton	Cx. pipiens	5	GRVD	9/7/12	WNV	RTPCR
Sacramento	SAYO243013	5277	Elk Grove	Cx. tarsalis	20	CO2	9/7/12	WNV	RTPCR
Sacramento	SAYO243013	5278	Elk Grove	Cx. pipiens	50	CO2	9/7/12	WNV	RTPCR
Sacramento	SAYO243021	5274	Elk Grove	Cx. tarsalis	4	CO2	9/7/12	WNV	RTPCR
Sacramento	SAYO261012	5490	Isleton	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
San Bernardino	WVAL1007	416	Ontario	Cx. quinquefasciatus	28	GRVD	9/11/12	WNV	RTPCR
San Bernardino	WVAL2005	406	Chino	Cx. tarsalis	11	CO2	9/5/12	WNV	RTPCR
San Bernardino	WVAL2008	404	Chino	Cx. quinquefasciatus	44	CO2	9/5/12	WNV	RTPCR
San Bernardino	WVAL2021	409	Fwy CA 71	Cx. quinquefasciatus	5	GRVD	9/5/12	WNV	RTPCR
San Bernardino	WVAL2022	411	Fwy CA 60	Cx. quinquefasciatus	7	GRVD	9/5/12	WNV	RTPCR
San Bernardino	WVAL5005	413	Rancho Cucamonga	Cx. quinquefasciatus	16	GRVD	9/5/12	WNV	RTPCR
San Joaquin	SJCM8003	1017	Tracy	Cx. tarsalis	25	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8004	1004	Lodi	Cx. tarsalis	49	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8005	1040	Stockton	Cx. pipiens	18	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8009	1045	Stockton	Cx. tarsalis	33	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8027	1037	McDonald Isl. bridge	Cx. pipiens	50	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8032	977	Escalon	Cx. pipiens	40	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8047	981	Stockton	Cx. pipiens	26	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8056	1020	Manteca	Cx. pipiens	50	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8056	1021	Manteca	Cx. pipiens	50	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8070	1049	Galt	Cx. pipiens	15	CO2	9/13/12	WNV	RTPCR
San Joaquin	SJCM8160	994	Lodi	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8160	995	Lodi	Cx. tarsalis	30	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8161	962	Ripon	Cx. pipiens	50	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8161	963	Ripon	Cx. pipiens	50	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8161	966	Ripon	Cx. pipiens	50	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8161	967	Ripon	Cx. pipiens	50	CO2	9/11/12	WNV	RTPCR
San Joaquin	SJCM8161	968	Ripon	Cx. pipiens	50	CO2	9/11/12	WNV	RTPCR

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Santa Clara	STCL1742	4374	San Jose	Cx. pipiens	11	CO2	9/5/12	WNV	RTPCR
Shasta	SHAS000148	642		Cx. tarsalis	37	CO2	9/12/12	WNV	RTPCR
Shasta	SHAS010111	639		Cx. tarsalis	12	CO2	9/12/12	WNV	RTPCR
Shasta	SHAS020040	630	Redding	Cx. tarsalis	32	CO2	9/6/12	WNV	RTPCR
Stanislaus	EAST1004	12155	Modesto	Cx. tarsalis	20	CO2	9/5/12	WNV	RAMP
Stanislaus	EAST1013	12170	Modesto	Cx. tarsalis	50	CO2	9/6/12	WNV	RAMP
Stanislaus	EAST1081	12205	Oakdale	Cx. pipiens	29	CO2	9/13/12	WNV	RAMP
Stanislaus	EAST1082	12184	Modesto	Cx. pipiens	50	CO2	9/6/12	WNV	RAMP
Stanislaus	EAST1095	12162	Modesto	Cx. pipiens	36	CO2	9/5/12	WNV	RAMP
Stanislaus	EAST1096	12166	Modesto	Cx. pipiens	50	CO2	9/6/12	WNV	RAMP
Stanislaus	TRLK0304	1245	Grayson	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Stanislaus	TRLK0305	1177	Grayson	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Stanislaus	TRLK0307	1202	Grayson	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Stanislaus	TRLK0424	1239	Patterson	Cx. pipiens	50	CO2	9/11/12	WNV	RTPCR
Stanislaus	TRLK0424	1241	Patterson	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Stanislaus	TRLK0437	1236	Patterson	Cx. tarsalis	38	CO2	9/11/12	WNV	RTPCR
Stanislaus	TRLK0508	1164	Turlock	Cx. pipiens	22	CO2	9/11/12	WNV	RTPCR
Stanislaus	TRLK0529	1224	Vernalis	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Stanislaus	TRLK0529	1225	Vernalis	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Stanislaus	TRLK9769	1166	Grayson	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Stanislaus	TRLK9769	1167	Grayson	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Stanislaus	TRLK9772	894	Grayson	Cx. tarsalis	50	CO2	8/28/12	WNV	RTPCR
Stanislaus	TRLK9772	1190	Grayson	Cx. tarsalis	50	CO2	9/11/12	WNV	RTPCR
Tulare	DLTA6406	387	Dinuba	Cx. quinquefasciatus	45	CO2	8/31/12	WNV	RTPCR
Tulare	DLTA6406	388	Dinuba	Cx. quinquefasciatus	24	CO2	8/31/12	WNV	RTPCR
Tulare	DLTA6406	389	Dinuba	Cx. quinquefasciatus	15	CO2	8/31/12	WNV	RTPCR
Tulare	DLTA6406	390	Dinuba	Cx. quinquefasciatus	20	CO2	8/31/12	WNV	RTPCR
Tulare	DLTA6406	391	Dinuba	Cx. quinquefasciatus	24	CO2	8/31/12	WNV	RTPCR
Tulare	DLTA6518	379	Cutler	Cx. quinquefasciatus	19	GRVD	8/31/12	WNV	RTPCR
Tulare	DLTA7316	395	Traver	Cx. quinquefasciatus	19	CO2	9/5/12	WNV	RTPCR
Tulare	DLTA7316	398	Traver	Cx. quinquefasciatus	50	CO2	9/5/12	WNV	RTPCR
Tulare	DLTA7316	401	Traver	Cx. quinquefasciatus	37	CO2	9/5/12	WNV	RTPCR
Tulare	DLTA7316	402	Traver	Cx. quinquefasciatus	36	CO2	9/5/12	WNV	RTPCR
Tulare	DLTA7316	403	Traver	Cx. quinquefasciatus	42	CO2	9/5/12	WNV	RTPCR
Tulare	DLTA8324	444	Goshen	Cx. tarsalis	26	CO2	9/13/12	WNV	RTPCR
Tulare	DLTA8324	446	Goshen	Cx. quinquefasciatus	50	CO2	9/13/12	WNV	RTPCR
Tulare	DLTA8501	382	Ivanhoe	Cx. quinquefasciatus	23	GRVD	8/31/12	WNV	RTPCR
Yuba	SUYA0106	343	Wheatland	Cx. tarsalis	50	CO2	9/6/12	WNV	RTPCR
Yuba	SUYA0106	344	Wheatland	Cx. tarsalis	50	CO2	9/6/12	WNV	RTPCR

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### Sentinel Chickens

County	Site Code	City	Seroconversion Date	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Butte	BUCO000001	Chico	8/28/2012	WNV	1503				
Colusa	CLSA000001	Colusa	8/28/2012	WNV	1605	1609	1610		
Imperial	COAV005001	Niland	9/4/2012	WNV	3909				
Kern	AFSB000109	Bakersfield	9/4/2012	WNV	2060				
Kern	AFSB000128	Bakersfield	9/4/2012	WNV	2022	2026			
Kern	AFSB000130	Bakersfield	9/4/2012	WNV	2001	2002	2059		
Kern	AFSB000132	Edison	9/5/2012	WNV	2055				
Los Angeles	ANTV002877	Lancaster	9/5/2012	WNV	1233	1234			
Los Angeles	ANTV003247	Lancaster	9/5/2012	WNV	1209	1211	1212		
Los Angeles	ANTV007947	Palmdale	9/5/2012	WNV	1255	1256	1257		
Los Angeles	ANTV008656	Lancaster	9/5/2012	WNV	1217				
Los Angeles	GRLA002651	Encino	9/4/2012	WNV	3525				
Riverside	COAV000035	Mecca	9/4/2012	WNV	3861	3864			
Riverside	COAV000131	Oasis	9/4/2012	WNV	3892				
Riverside	COAV000200	Mecca	9/4/2012	WNV	3852				
Riverside	COAV000201	Thermal	9/4/2012	WNV	3941	3950			
Riverside	COAV000204	Indio	9/4/2012	WNV	3932	3936	3940		
Riverside	NWST000004	Flabob Airport	9/5/2012	WNV	1002				
Riverside	NWST009401	Corona	9/5/2012	WNV	1010				
Riverside	RIVR0000002	Nuevo	9/5/2012	WNV	2234				
San Bernardino	SANB000001	Needles	9/4/2012	WNV	1303	1305	1306	1307	1308
San Bernardino	SANB000003	Colton	9/5/2012	WNV	1331	1333			
San Bernardino	SANB000011	Rialto	9/5/2012	WNV	1379	1380	1382		
Solano	SOLA000125	Cordelia	8/22/2012	WNV	2586				

### 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.

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### **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.

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### **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.

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### **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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*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](mailto:tina.feiszli@cdph.ca.gov).*

*Website Information: For updated information on WNV in California, please visit the California WNV website, [www.westnile.ca.gov](http://www.westnile.ca.gov), or the California Vectorborne Disease Surveillance System website, [www.calsurv.org](http://www.calsurv.org). For national information on WNV and other arboviruses, please visit the CDC website, [www.cdc.gov](http://www.cdc.gov), and the USGS website, [www.westnilemaps.usgs.gov](http://www.westnilemaps.usgs.gov).*