

## California Arbovirus Surveillance Bulletin #21

Week 30 Friday, July 26, 2013



### WEEKLY UPDATE

#### **Human Cases**

Three new cases of West Nile virus (WNV) illness were reported this week from Glenn (1) and Los Angeles (2) counties. As of July 26, 2013, a total of four WNV human cases have been reported in three counties. Of the four cases, 3 (75%) had neuroinvasive illness. The median age of the four individuals where data are available is 63 years (range: 1-91 years); three (75%) of four cases are male. Dates of symptom onset for all cases ranged from March 1-July 13, 2013. One WNV-related fatality has been reported from Sacramento County. A total of five WNV-positive blood donors have been reported this year; to date none of these individuals developed symptoms. At this time last year, seven cases had been reported from five counties.

National Comments: As of July 23, 2013, 31 cases had been reported nationwide from 14 states. Of the 31 cases, 11 (35%) were classified as neuroinvasive disease, and 3 (10%) died.

#### **Horses**

**No new cases were reported this week.** In 2013, one horse from Stanislaus County has tested positive for WNV. At this time last year, one horse had tested positive for WNV from Stanislaus County.

#### **Dead Birds & Squirrels**

Ninety-five WNV positive birds were reported this week from the following 19 counties: Contra Costa (5), Fresno (1), Kings (1), Lake (1), Los Angeles (20), Madera (3), Mendocino (1), Merced (4), Placer (2), Sacramento (20), San Bernardino (3), San Diego (2), San Joaquin (3), Santa Clara (6), Shasta (2), Solano (2), Sutter (6), Yolo (11), and Yuba (2). **This is the first indication of WNV activity in Mendocino County this year** and the first WNV positive bird detected in Lake County. An additional 16 dead birds tested positive for chronic WNV infection from 13 counties. In 2013, 323 dead birds have tested positive for WNV from 30 counties, 72 dead birds have tested positive for chronic WNV infection from 25 counties, and four dead squirrels have tested positive for WNV from three counties. At this time last year, 432 dead birds had tested positive for WNV from 19 counties.

#### **Mosquito Pools**

A total of 206 WNV positive mosquito pools were reported this week from 18 counties: Fresno (9), Kern (14), Kings (6), Lake (9), Los Angeles (29), Madera (4), Placer (15), Riverside (1), Sacramento (48), San Bernardino (19), San Joaquin (14), San Luis Obispo (1), Santa Clara (2), Stanislaus (4), Sutter (9), Tulare (2), Yolo (19), and Yuba (1). **This is the first indication of WNV activity in San Luis Obispo County this year.** In 2013, 761 mosquito pools from 23 counties have tested positive for WNV. At this time last year, 761 mosquito pools from 20 counties had tested positive for WNV.

#### **Sentinel Chickens**

A total of 49 sentinel chickens tested positive for WNV antibodies this week from 20 flocks located in 11 counties: Butte (13), Colusa (3), Glenn (5), Kern (1), Lake (1), Merced (5), San Bernardino (1), Shasta (3), Stanislaus (2), Sutter (11), and Yuba (4). **These are the first WNV seroconversions detected in Butte, Glenn, Kern, Lake, Shasta, and Stanislaus counties this year.** In 2013, 76 WNV antibody-positive chickens have been detected among 28 flocks in 13 counties. At this time last year, 30 WNV antibody-positive chickens had been detected among 12 flocks in six counties.

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<b>2012 &amp; 2013 YTD West Nile Virus Comparisons</b>		
	<b>2012</b>	<b>2013</b>
Total # Dead Bird Reports	8,697	8,050
# Positive Counties	26	32
# Human Cases	7	4
# Horse Cases	1	1
# Positive Dead Birds / # Tested	493 / 1,936	323 / 1,670
# Positive Mosquito Pools / # Tested	761 / 14,472	761 / 16,500
# Seroconversions / # Tested	30 / 9,723	76 / 8,423
# Positive Squirrels / # Tested	0 / 69	4 / 61

<b>YTD WNV Activity by Element and County, 2013</b>						
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			2			
Butte			1	1	13	1
Colusa					4	
Contra Costa			11	4		
Fresno			4	29		
Glenn	1		3		5	
Kern			2	50	1	
Kings			8	27		
Lake			1	13	1	
Los Angeles	2		92	118	19	
Madera			4	6		
Marin			2			
Mendocino			1			
Merced			20	2	6	
Nevada			1			
Orange			4	2		
Placer			5	37		
Riverside			1	21	3	
Sacramento	1		64	156		
San Bernardino			5	48	2	1
San Diego			3			
San Joaquin			16	39		
San Luis Obispo				1		
Santa Clara			10	3		2
Shasta			3	1	3	
Solano			5			
Stanislaus		1	5	16	2	
Sutter			9	51	12	
Tulare			2	9		
Ventura			2			
Yolo			33	118		
Yuba			4	9	5	
<b>Totals</b>	<b>4</b>	<b>1</b>	<b>323</b>	<b>761</b>	<b>76</b>	<b>4</b>

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## TESTING SUMMARIES

### Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
<b>Human Cases</b>	Week	3	0	0	0	0	0
	YTD	4	0	0	0	0	0
<b>Horse Cases</b>	Week	0	0	0	0	0	0
	YTD	1	0	0	0	0	0

### Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
<b>Dead Birds</b>	Week	185	95
	YTD	1,670	323
<b>Tree Squirrels</b>	Week	1	0
	YTD	61	4

### Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
<b>Chicken Sera</b>	Week	640	49	0	0
	YTD	8,423	76	0	0
<b>Mosquito Pools</b>	Week	1,504	206	0	0
	YTD	16,500	761	0	0

## POSITIVES

### Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda Co MAD	Castro Valley	94546	California Towhee	7/11/2013	WNV	Chronic	RT-PCR
Butte	Butte Co MVCD	Oroville	95966	House Finch	7/16/2013	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Antioch	94509	Western Scrub-Jay	7/11/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	7/22/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	7/21/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Oakley	94561	American Crow	7/22/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Pittsburg	94565	American Crow	7/22/2013	WNV	Recent	RAMP
Fresno	Consolidated MAD	Fresno	93710	American Crow	7/11/2013	WNV	Chronic	RT-PCR
Fresno	Consolidated MAD	Fresno	93727	American Crow	7/8/2013	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Fresno	93704	American Crow	7/10/2013	WNV	Chronic	RT-PCR
Kings	Kings MAD	Lemoore	93245	American Crow	7/9/2013	WNV	Recent	RT-PCR
Kings	Kings MAD	Lemoore	93245	European Starling	7/12/2013	WNV	Chronic	RT-PCR
Lake	Lake Co VCD	Lucerne	95458	American Crow	7/11/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - Syl	Van Nuys	91401	American Crow	7/16/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - Syl	Valley Village	91607	House Finch	7/16/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/10/2013	WNV	Recent	RT-PCR

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Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Carson	90746	American Crow	7/8/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Lancaster	93536	Mallard	7/12/2013	WNV	Chronic	RT-PCR
Los Angeles	LA Co West VCD	El Segundo	90245	American Crow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Lawndale	90260	American Crow	7/14/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Rolling Hills Estates	90274	American Crow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Palos Verdes Estates	90274	American Crow	7/11/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Rolling Hills Estates	90274	American Crow	7/9/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Palos Verdes Peninsula	90274	American Crow	7/10/2013	WNV	Chronic	RT-PCR
Los Angeles	LA Co West VCD	Rancho Palos Verdes	90275	Northern Mockingbird	7/16/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Torrance	90505	House Sparrow	7/9/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Torrance	90505	House Sparrow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Valley MVCD	Monrovia	91016	Cooper's Hawk	7/12/2013	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Valley MVCD	Covina	91724	American Crow	7/12/2013	WNV	Recent	RT-PCR
Madera	Madera Co MVCD	Chowchilla	93610	American Crow	7/16/2013	WNV	Chronic	RT-PCR
Madera	Madera Co MVCD	Madera	93636	Western Scrub-Jay	7/15/2013	WNV	Recent	RT-PCR
Madera	Madera Co MVCD	Madera	93638	Common Raven	7/12/2013	WNV	Recent	RT-PCR
Madera	Madera Co MVCD	Madera	93638	Western Scrub-Jay	7/16/2013	WNV	Recent	RT-PCR
Mendocino	Mendocino Co EHD	Redwood Valley	95470	American Crow	7/11/2013	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Gustine	95322	Yellow-billed Magpie	7/10/2013	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Gustine	95322	Yellow-billed Magpie	7/11/2013	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Gustine	95322	Yellow-billed Magpie	7/11/2013	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Merced	95348	American Crow	7/17/2013	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Merced	95348	Sparrow	7/10/2013	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Roseville	95661	American Crow	7/8/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Penryn	95663	Northern Flicker	7/11/2013	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Roseville	95747	Western Bluebird	7/9/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	Northern Mockingbird	7/16/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Herald	95638	American Crow	7/18/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Herald	95638	American Robin	7/16/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	Western Scrub-Jay	7/22/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	Western Bluebird	7/12/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	Yellow-billed Magpie	7/22/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95758	American Robin	7/15/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95818	American Crow	7/18/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95818	American Crow	7/18/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95818	House Finch	7/23/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95819	Western Scrub-Jay	7/22/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	Western Scrub-Jay	7/14/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	7/17/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	7/17/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	Western Scrub-Jay	7/17/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	7/17/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	7/19/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	House Finch	7/2/2013	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95838	American Crow	7/14/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Antelope	95843	American Robin	7/11/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	American Crow	7/16/2013	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Upland	91786	Western Scrub-Jay	7/12/2013	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Upland	91786	American Crow	7/14/2013	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Fontana	92337	American Crow	7/9/2013	WNV	Chronic	RT-PCR

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San Bernardino	West Valley MVCD	Chino	91710	American Crow	7/10/2013	WNV	Recent	RT-PCR
San Diego	San Diego Co VCP	Carlsbad	92009	American Crow	7/19/2013	WNV	Recent	RT-PCR
San Diego	San Diego Co VCP	Ramona	92065	American Crow	7/18/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Stockton	95204	Western Scrub-Jay	7/7/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Stockton	95205	American Crow	7/9/2013	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin MVCD	Stockton	95207	Western Scrub-Jay	7/23/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Stockton	95207	Western Scrub-Jay	7/10/2013	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin MVCD	Acampo	95220	Western Scrub-Jay	7/18/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95101	American Crow	7/17/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95112	American Crow	7/11/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95126	American Crow	7/12/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95132	American Crow	7/15/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95132	American Crow	7/15/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95136	American Crow	7/15/2013	WNV	Recent	RT-PCR
Santa Cruz	Santa Cruz MVCD	Santa Cruz	95060	California Towhee	7/17/2013	WNV	Chronic	RT-PCR
Shasta	Shasta MVCD	Redding, CA	96002	Western Scrub-Jay	7/17/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Redding, CA	96003	House Finch	7/17/2013	WNV	Recent	RT-PCR
Solano	Solano Co MAD	Fairfield	94533	American Crow	7/22/2013	WNV	Recent	RAMP
Solano	Solano Co MAD	Suisun City	94585	American Crow	7/16/2013	WNV	Recent	RAMP
Stanislaus	East Side MAD	Modesto	95356	Rock Dove	7/17/2013	WNV	Chronic	RT-PCR
Sutter	Sutter-Yuba MVCD	Live Oak	95953	Western Scrub-Jay	7/10/2013	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Sutter	95982	American Crow	7/11/2013	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Sutter	95982	American Crow	7/12/2013	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Sutter	95982	American Crow	7/10/2013	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95993	Western Scrub-Jay	7/11/2013	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95993	Western Scrub-Jay	7/12/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	West Sacramento	95605	House Finch	7/19/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	7/16/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	7/16/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	7/18/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	Yellow-billed Magpie	7/17/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	House Finch	7/18/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	7/22/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	7/16/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	House Finch	7/22/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	7/19/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	7/19/2013	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Marysville	95901	Yellow-billed Magpie	7/10/2013	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Marysville	95901	Tricolored Blackbird	7/10/2013	WNV	Recent	RT-PCR

### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus	Method
Fresno	CNSL1118	187	Cx. quinquefasciatus	Fresno	32	GRVD	7/23/13	WNV	RTPCR
Fresno	CNSL3225	389	Cx. quinquefasciatus	Reedley	50	GRVD	7/18/13	WNV	RTPCR
Fresno	CNSL4024	395	Cx. quinquefasciatus	Selma	45	GRVD	7/23/13	WNV	RTPCR
Fresno	CNSL4028	393	Cx. quinquefasciatus	Selma	50	GRVD	7/19/13	WNV	RTPCR
Fresno	FRNO28	30	Cx. quinquefasciatus	Fresno	50	GRVD	7/24/13	WNV	RTPCR
Fresno	FRNO39	31	Cx. quinquefasciatus	Fresno	36	GRVD	7/24/13	WNV	RTPCR
Fresno	FRWS100007	60	Cx. tarsalis	Firebaugh	26	CO2	7/23/13	WNV	RTPCR
Fresno	FRWS1101	63	Cx. tarsalis	Dos Palos	50	CO2	7/23/13	WNV	RTPCR
Fresno	FRWS1101	64	Cx. tarsalis	Dos Palos	50	CO2	7/23/13	WNV	RTPCR

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Kern	DLNO7	36	Cx. quinquefasciatus	Delano	25	GRVD	7/22/13	WNV	RTPCR
Kern	KERN2005	268	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/16/13	WNV	RTPCR
Kern	KERN2049	271	Cx. quinquefasciatus	Lamont	46	GRVD	7/16/13	WNV	RTPCR
Kern	KERN32	287	Cx. tarsalis	Arvin	37	CO2	7/19/13	WNV	RTPCR
Kern	KERN7	270	Cx. quinquefasciatus	Famoso	50	GRVD	7/16/13	WNV	RTPCR
Kern	WEST6209	70	Cx. tarsalis	Maricopa	50	CO2	7/24/13	WNV	RTPCR
Kern	WEST6209	71	Cx. tarsalis	Maricopa	50	CO2	7/24/13	WNV	RTPCR
Kern	WEST6209	72	Cx. tarsalis	Maricopa	50	CO2	7/24/13	WNV	RTPCR
Kern	WEST6209	73	Cx. tarsalis	Maricopa	50	CO2	7/24/13	WNV	RTPCR
Kern	WEST6209	76	Cx. tarsalis	Maricopa	50	CO2	7/24/13	WNV	RTPCR
Kern	WEST6209	77	Cx. tarsalis	Maricopa	50	CO2	7/24/13	WNV	RTPCR
Kern	WEST6209	79	Cx. tarsalis	Maricopa	50	CO2	7/24/13	WNV	RTPCR
Kern	WEST6237	82	Cx. tarsalis	Maricopa	50	CO2	7/24/13	WNV	RTPCR
Kern	WEST6237	83	Cx. tarsalis	Maricopa	50	CO2	7/24/13	WNV	RTPCR
Kings	KNGS3018	143	Cx. tarsalis	Lemoore	50	CO2	7/18/13	WNV	RTPCR
Kings	KNGS3018	145	Cx. tarsalis	Lemoore	50	CO2	7/18/13	WNV	RTPCR
Kings	KNGS3061	152	Cx. tarsalis	Guernsey	47	CO2	7/18/13	WNV	RTPCR
Kings	KNGS4001	136	Cx. tarsalis	Hanford	18	CO2	7/16/13	WNV	RTPCR
Kings	KNGS4011	135	Cx. tarsalis	Hanford	17	CO2	7/16/13	WNV	RTPCR
Kings	KNGS8033	134	Cx. tarsalis	Hanford	15	CO2	7/16/13	WNV	RTPCR
Lake	LAKE130	141	Cx. tarsalis	Lower Lake	50	CO2	7/24/13	WNV	RTPCR
Lake	LAKE131	133	Cx. tarsalis		50	CO2	7/24/13	WNV	RTPCR
Lake	LAKE143	148	Cx. tarsalis		37	CO2	7/24/13	WNV	RTPCR
Lake	LAKE200	115	Cx. tarsalis		24	CO2	7/18/13	WNV	RTPCR
Lake	LAKE80	150	Cx. tarsalis		49	REST	7/24/13	WNV	RTPCR
Lake	LAKE80	151	Cx. tarsalis		25	REST	7/24/13	WNV	RTPCR
Lake	LAKE84	144	Cx. tarsalis		50	CO2	7/24/13	WNV	RTPCR
Lake	LAKE94	125	Cx. erythrothorax		24	CO2	7/24/13	WNV	RTPCR
Lake	LAKE94	126	Cx. tarsalis		50	CO2	7/24/13	WNV	RTPCR
Los Angeles	GRLA2065	669	Cx. quinquefasciatus	Gardena	42	GRVD	7/17/13	WNV	RTPCR
Los Angeles	GRLA2131	674	Cx. tarsalis	Wilmington	48	CO2	7/17/13	WNV	RTPCR
Los Angeles	GRLA2321	672	Cx. quinquefasciatus	Carson	16	CO2	7/17/13	WNV	RTPCR
Los Angeles	GRLA2416	5713	Cx. quinquefasciatus	Panorama City	46	CO2	7/18/13	WNV	RTPCR
Los Angeles	GRLA2419	5717	Cx. quinquefasciatus	Panorama City	50	GRVD	7/18/13	WNV	RTPCR
Los Angeles	GRLA2419	5718	Cx. quinquefasciatus	Panorama City	50	GRVD	7/18/13	WNV	RTPCR
Los Angeles	GRLA2421	5716	Cx. quinquefasciatus	Panorama City	47	GRVD	7/18/13	WNV	RTPCR
Los Angeles	GRLA2500	5688	Cx. quinquefasciatus	Los Angeles	48	GRVD	7/17/13	WNV	RTPCR
Los Angeles	GRLA2503	5689	Cx. quinquefasciatus	Los Angeles	50	GRVD	7/17/13	WNV	RTPCR
Los Angeles	GRLA2574	5704	Cx. quinquefasciatus	Sherman Oaks	30	GRVD	7/18/13	WNV	RTPCR
Los Angeles	GRLA2637	5711	Cx. quinquefasciatus	Van Nuys	50	GRVD	7/18/13	WNV	RTPCR
Los Angeles	GRLA2650	5709	Cx. quinquefasciatus	Encino	50	GRVD	7/18/13	WNV	RTPCR
Los Angeles	GRLA2650	5710	Cx. quinquefasciatus	Encino	50	GRVD	7/18/13	WNV	RTPCR
Los Angeles	GRLA2651	5706	Cx. quinquefasciatus	Encino	44	GRVD	7/18/13	WNV	RTPCR
Los Angeles	GRLA2669	5726	Cx. quinquefasciatus	Granada Hills	24	GRVD	7/19/13	WNV	RTPCR
Los Angeles	GRLA2936	5701	Cx. quinquefasciatus	Burbank	32	GRVD	7/17/13	WNV	RTPCR
Los Angeles	GRLA3009	5724	Cx. quinquefasciatus	Santa Clarita	29	GRVD	7/19/13	WNV	RTPCR
Los Angeles	GRLA3032	667	Cx. quinquefasciatus	Carson	50	GRVD	7/17/13	WNV	RTPCR
Los Angeles	GRLA3034	5719	Cx. quinquefasciatus	North Hills	50	GRVD	7/18/13	WNV	RTPCR
Los Angeles	GRLA3034	5720	Cx. quinquefasciatus	North Hills	50	GRVD	7/18/13	WNV	RTPCR
Los Angeles	GRLA3035	5714	Cx. quinquefasciatus	North Hills	50	GRVD	7/18/13	WNV	RTPCR
Los Angeles	GRLA3063	654	Cx. quinquefasciatus	Watts	50	GRVD	7/16/13	WNV	RTPCR
Los Angeles	GRLA3067	668	Cx. quinquefasciatus	Gardena	33	GRVD	7/17/13	WNV	RTPCR
Los Angeles	GRLA3068	666	Cx. quinquefasciatus	Wilmington	50	GRVD	7/17/13	WNV	RTPCR
Los Angeles	GRLA3068	671	Cx. tarsalis	Wilmington	19	CO2	7/17/13	WNV	RTPCR

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Los Angeles	LACW1002	258	Cx. quinquefasciatus	Torrance	38	GRVD	7/18/13	WNV	RTPCR
Los Angeles	LACW1003	260	Cx. quinquefasciatus	Redondo Beach	50	GRVD	7/18/13	WNV	RTPCR
Los Angeles	LACW1003	261	Cx. quinquefasciatus	Redondo Beach	30	GRVD	7/18/13	WNV	RTPCR
Los Angeles	LONG905	88	Cx. quinquefasciatus	Long Beach	50	CO2	7/23/13	WNV	RTPCR
Madera	MADR172	39	Cx. quinquefasciatus	Madera Ranchos	17	CO2	7/18/13	WNV	RTPCR
Madera	MADR95	40	Cx. tarsalis	Chowchilla	25	CO2	7/18/13	WNV	RTPCR
Madera	MADR97	33	Cx. tarsalis	Madera Ranchos	43	OTHER	7/12/13	WNV	RTPCR
Madera	MADR97	36	Cx. tarsalis	Madera Ranchos	50	OTHER	7/16/13	WNV	RTPCR
Placer	PLCR1070	935	Culex	Roseville	7	CO2	7/23/13	WNV	RTPCR
Placer	PLCR1113	902	Cx. tarsalis	Pleasant Grove	50	CO2	7/23/13	WNV	RTPCR
Placer	PLCR1113	903	Cx. tarsalis	Pleasant Grove	50	CO2	7/23/13	WNV	RTPCR
Placer	PLCR1113	911	Cx. tarsalis	Pleasant Grove	50	CO2	7/23/13	WNV	RTPCR
Placer	PLCR1113	912	Cx. tarsalis	Pleasant Grove	50	CO2	7/23/13	WNV	RTPCR
Placer	PLCR17	883	Cx. tarsalis	Sheridan	50	CO2	7/23/13	WNV	RTPCR
Placer	PLCR17	884	Cx. tarsalis	Sheridan	42	CO2	7/23/13	WNV	RTPCR
Placer	PLCR25	899	Cx. tarsalis	Lincoln	50	CO2	7/23/13	WNV	RTPCR
Placer	PLCR330	849	Cx. tarsalis	Lincoln	50	CO2	7/23/13	WNV	RTPCR
Placer	PLCR330	850	Cx. tarsalis	Lincoln	50	CO2	7/23/13	WNV	RTPCR
Placer	PLCR330	855	Cx. tarsalis	Lincoln	50	CO2	7/23/13	WNV	RTPCR
Placer	PLCR525	946	Cx. pipiens	Lincoln	50	CO2	7/23/13	WNV	RTPCR
Placer	PLCR733	880	Cx. tarsalis	lincoln	50	CO2	7/23/13	WNV	RTPCR
Placer	PLCR733	881	Cx. tarsalis	lincoln	50	CO2	7/23/13	WNV	RTPCR
Placer	PLCR88	963	Cx. tarsalis	Lincoln	50	CO2	7/24/13	WNV	RTPCR
Riverside	COAV311	1033	Cx. quinquefasciatus	Indio	7	GRVD	7/18/13	WNV	RTPCR
Sacramento	SAYO201006	3240	Cx. tarsalis	Sacramento	50	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO212002	3123	Cx. pipiens	Sacramento	5	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO213017	3061	Cx. pipiens	Sacramento	29	GRVD	7/19/13	WNV	RTPCR
Sacramento	SAYO215005	3055	Cx. pipiens	Folsom	12	GRVD	7/19/13	WNV	RTPCR
Sacramento	SAYO222010	3196	Cx. pipiens	Sacramento	22	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO222011	3190	Cx. pipiens	Sacramento	25	GRVD	7/23/13	WNV	RTPCR
Sacramento	SAYO222025	3207	Cx. tarsalis	Sacramento	1	GRVD	7/23/13	WNV	RTPCR
Sacramento	SAYO223006	3108	Cx. tarsalis	South Watt Avenue	24	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO223006	3109	Cx. pipiens	South Watt Avenue	40	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO223006	3110	Cx. pipiens	South Watt Avenue	22	GRVD	7/19/13	WNV	RTPCR
Sacramento	SAYO232011	3184	Cx. tarsalis	Sacramento	29	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO232012	3097	Cx. tarsalis	Elk Grove	13	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO232012	3098	Cx. pipiens	Elk Grove	8	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO232028	3376	Cx. tarsalis	Sacramento	38	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO232028	3377	Cx. tarsalis	Sacramento	50	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO232028	3384	Cx. tarsalis	Sacramento	43	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO233004	3101	Cx. tarsalis	Elk Grove	52	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO233015	3095	Cx. pipiens	Sacramento	6	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO233015	3096	Cx. pipiens	Sacramento	53	GRVD	7/19/13	WNV	RTPCR
Sacramento	SAYO234013	3093	Cx. pipiens	Elk Grove	29	GRVD	7/19/13	WNV	RTPCR
Sacramento	SAYO244004	3111	Cx. tarsalis	Galt	40	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO244004	3112	Cx. pipiens	Galt	20	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO244005	3115	Cx. tarsalis	Galt	50	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO245002	3161	Cx. tarsalis	Wilton	50	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO252014	3144	Cx. pipiens	Walnut Grove	7	GRVD	7/19/13	WNV	RTPCR
Sacramento	SAYO253011	3154	Cx. tarsalis	Galt	50	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO253011	3155	Cx. tarsalis	Galt	50	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO253011	3156	Cx. tarsalis	Galt	50	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO253011	3157	Cx. tarsalis	Galt	50	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO254011	3067	Cx. pipiens	Galt	5	CO2	7/19/13	WNV	RTPCR

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Sacramento	SAYO254015	3131	Cx. pipiens	Galt	25	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO254015	3132	Cx. pipiens	Galt	2	GRVD	7/19/13	WNV	RTPCR
Sacramento	SAYO255007	3133	Cx. tarsalis	Herald	50	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO255007	3135	Cx. tarsalis	Herald	48	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO255007	3136	Cx. pipiens	Herald	15	CO2	7/19/13	WNV	RTPCR
Sacramento	SAYO261003	3281	Cx. tarsalis	Isleton	50	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO261015	3293	Cx. tarsalis	Isleton	50	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO261015	3294	Cx. tarsalis	Isleton	50	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO261015	3296	Cx. tarsalis	Isleton	50	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO261015	3297	Cx. tarsalis	Isleton	30	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO261015	3298	Cx. pipiens	Isleton	16	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO261015	3299	Cx. pipiens	Isleton	1	GRVD	7/23/13	WNV	RTPCR
Sacramento	SAYO271007	3263	Cx. tarsalis	Isleton	50	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO271007	3266	Cx. tarsalis	Isleton	50	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO271007	3267	Cx. tarsalis	Isleton	50	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO271007	3268	Cx. tarsalis	Isleton	50	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO271007	3269	Cx. tarsalis	Isleton	48	CO2	7/23/13	WNV	RTPCR
Sacramento	SAYO271007	3270	Cx. pipiens	Isleton	33	CO2	7/23/13	WNV	RTPCR
San Bernardino	WVAL2012	693	Cx. quinquefasciatus	Chino	50	CO2	7/23/13	WNV	RTPCR
San Bernardino	WVAL6001	690	Cx. quinquefasciatus	Ontario	20	GRVD	7/23/13	WNV	RTPCR
San Bernardino	WVAL6004	658	Cx. quinquefasciatus	Ontario	50	GRVD	7/18/13	WNV	RTPCR
San Bernardino	WVAL6004	659	Cx. quinquefasciatus	Ontario	50	GRVD	7/18/13	WNV	RTPCR
San Bernardino	WVAL6004	660	Cx. quinquefasciatus	Ontario	32	GRVD	7/18/13	WNV	RTPCR
San Bernardino	WVAL6004	661	Cx. quinquefasciatus	Ontario	50	GRVD	7/19/13	WNV	RTPCR
San Bernardino	WVAL6004	662	Cx. quinquefasciatus	Ontario	50	GRVD	7/19/13	WNV	RTPCR
San Bernardino	WVAL6004	663	Cx. quinquefasciatus	Ontario	50	GRVD	7/19/13	WNV	RTPCR
San Bernardino	WVAL6004	664	Cx. quinquefasciatus	Ontario	17	GRVD	7/19/13	WNV	RTPCR
San Bernardino	WVAL6004	697	Cx. quinquefasciatus	Ontario	7	GRVD	7/23/13	WNV	RTPCR
San Bernardino	WVAL6004	705	Cx. quinquefasciatus	Ontario	50	GRVD	7/23/13	WNV	RTPCR
San Bernardino	WVAL6004	706	Cx. quinquefasciatus	Ontario	49	GRVD	7/23/13	WNV	RTPCR
San Bernardino	WVAL6004	707	Cx. quinquefasciatus	Ontario	50	GRVD	7/24/13	WNV	RTPCR
San Bernardino	WVAL6004	708	Cx. quinquefasciatus	Ontario	36	GRVD	7/24/13	WNV	RTPCR
San Bernardino	WVAL6007	704	Cx. quinquefasciatus	Ontario	28	GRVD	7/23/13	WNV	RTPCR
San Bernardino	WVAL6009	701	Cx. quinquefasciatus	Ontario	50	GRVD	7/23/13	WNV	RTPCR
San Bernardino	WVAL6009	702	Cx. quinquefasciatus	Ontario	50	GRVD	7/23/13	WNV	RTPCR
San Bernardino	WVAL6009	703	Cx. quinquefasciatus	Ontario	17	GRVD	7/23/13	WNV	RTPCR
San Bernardino	WVAL7002	675	Cx. quinquefasciatus	Montclair	17	GRVD	7/23/13	WNV	RTPCR
San Joaquin	SJCM8003	856	Cx. tarsalis	Tracy	13	CO2	7/25/13	WNV	RTPCR
San Joaquin	SJCM8003	857	Cx. pipiens	Tracy	6	CO2	7/25/13	WNV	RTPCR
San Joaquin	SJCM8008	823	Cx. tarsalis	Manteca	40	CO2	7/23/13	WNV	RTPCR
San Joaquin	SJCM8009	789	Cx. pipiens	Stockton	20	CO2	7/23/13	WNV	RTPCR
San Joaquin	SJCM8018	797	Cx. tarsalis	Stockton	50	CO2	7/23/13	WNV	RTPCR
San Joaquin	SJCM8018	799	Cx. pipiens	Stockton	9	CO2	7/23/13	WNV	RTPCR
San Joaquin	SJCM8022	812	Cx. tarsalis	Holt	31	CO2	7/23/13	WNV	RTPCR
San Joaquin	SJCM8026	802	Cx. tarsalis	Stockton	18	CO2	7/23/13	WNV	RTPCR
San Joaquin	SJCM8027	794	Cx. pipiens	McDonald Isl. bridge	11	CO2	7/23/13	WNV	RTPCR
San Joaquin	SJCM8027	795	Cx. tarsalis	McDonald Isl. bridge	19	CO2	7/23/13	WNV	RTPCR
San Joaquin	SJCM8074	809	Cx. pipiens	Morada	26	CO2	7/23/13	WNV	RTPCR
San Joaquin	SJCM8097	850	Cx. tarsalis	Banta	15	CO2	7/25/13	WNV	RTPCR
San Joaquin	SJCM8108	848	Cx. tarsalis	Walnut Grove	31	CO2	7/25/13	WNV	RTPCR
San Joaquin	SJCM8161	815	Cx. pipiens	Ripon	50	CO2	7/23/13	WNV	RTPCR
San Luis Obispo	SBCO128	322	Cx. tarsalis	Pismo Beach	39	CO2	7/10/13	WNV	RTPCR
Santa Clara	STCL3225	4544	Cx. tarsalis	San Jose	13	CO2	7/17/13	WNV	RTPCR
Santa Clara	STCL3231	4537	Cx. tarsalis	San Jose	26	CO2	7/17/13	WNV	RTPCR



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Stanislaus	EAST1082	13152	Cx. pipiens	Modesto	26	CO2	7/16/13	WNV	RTPCR
Stanislaus	EAST1088	13159	Cx. pipiens	Modesto	19	CO2	7/17/13	WNV	RTPCR
Stanislaus	EAST1097	13155	Cx. pipiens		40	CO2	7/17/13	WNV	RTPCR
Stanislaus	TRLK327	332	Cx. pipiens	Denair	50	CO2	7/23/13	WNV	RTPCR
Sutter	SUYA14	256	Cx. tarsalis	Sutter	29	REST	7/23/13	WNV	RTPCR
Sutter	SUYA20	238	Cx. tarsalis	Meridian	50	REST	7/22/13	WNV	RTPCR
Sutter	SUYA22	243	Cx. tarsalis	Tudor	50	REST	7/22/13	WNV	RTPCR
Sutter	SUYA22	245	Cx. tarsalis	Tudor	39	REST	7/22/13	WNV	RTPCR
Sutter	SUYA22	262	Cx. tarsalis	Tudor	50	REST	7/23/13	WNV	RTPCR
Sutter	SUYA22	263	Cx. tarsalis	Tudor	50	REST	7/23/13	WNV	RTPCR
Sutter	SUYA31	234	Cx. tarsalis	Rio Oso	50	REST	7/22/13	WNV	RTPCR
Sutter	SUYA31	248	Cx. tarsalis	Rio Oso	50	REST	7/23/13	WNV	RTPCR
Sutter	SUYA31	249	Cx. tarsalis	Rio Oso	50	REST	7/23/13	WNV	RTPCR
Tulare	DLTA8534	264	Cx. quinquefasciatus	Visalia	11	GRVD	7/19/13	WNV	RTPCR
Tulare	DLTA9506	277	Cx. quinquefasciatus	Visalia	20	GRVD	7/23/13	WNV	RTPCR
Yolo	SAYO103006	3330	Cx. tarsalis	Dunnigan	50	CO2	7/23/13	WNV	RTPCR
Yolo	SAYO103006	3331	Cx. tarsalis	Dunnigan	50	CO2	7/23/13	WNV	RTPCR
Yolo	SAYO103006	3332	Cx. tarsalis	Dunnigan	50	CO2	7/23/13	WNV	RTPCR
Yolo	SAYO103006	3334	Cx. tarsalis	Dunnigan	50	CO2	7/23/13	WNV	RTPCR
Yolo	SAYO103006	3335	Cx. tarsalis	Dunnigan	50	CO2	7/23/13	WNV	RTPCR
Yolo	SAYO123004	3300	Cx. tarsalis	Madison	50	CO2	7/23/13	WNV	RTPCR
Yolo	SAYO124007	3311	Cx. tarsalis	Woodland	50	CO2	7/23/13	WNV	RTPCR
Yolo	SAYO124007	3312	Cx. tarsalis	Woodland	50	CO2	7/23/13	WNV	RTPCR
Yolo	SAYO124007	3313	Cx. tarsalis	Woodland	43	CO2	7/23/13	WNV	RTPCR
Yolo	SAYO124007	3315	Cx. pipiens	Woodland	3	CO2	7/23/13	WNV	RTPCR
Yolo	SAYO125012	2984	Cx. pipiens	Woodland	36	GRVD	7/19/13	WNV	RTPCR
Yolo	SAYO135006	3024	Cx. tarsalis	Woodland	50	CO2	7/19/13	WNV	RTPCR
Yolo	SAYO135006	3025	Cx. tarsalis	Woodland	50	CO2	7/19/13	WNV	RTPCR
Yolo	SAYO135006	3029	Cx. tarsalis	Woodland	50	CO2	7/19/13	WNV	RTPCR
Yolo	SAYO136010	3352	Cx. tarsalis	Woodland	50	CO2	7/23/13	WNV	RTPCR
Yolo	SAYO136010	3353	Cx. tarsalis	Woodland	50	CO2	7/23/13	WNV	RTPCR
Yolo	SAYO136010	3355	Cx. tarsalis	Woodland	50	CO2	7/23/13	WNV	RTPCR
Yolo	SAYO145009	2998	Cx. tarsalis	Davis	4	CO2	7/19/13	WNV	RTPCR
Yolo	SAYO146014	3351	Cx. tarsalis	West Sacramento	6	GRVD	7/23/13	WNV	RTPCR
Yuba	SUYA10	259	Cx. tarsalis	Olivehurst	50	CO2	7/22/13	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	BUCO0002	Oroville	7/16/2013	WNV	1015	1016	1017	1019		
Butte	BUCO0004	Gridley	7/16/2013	WNV	1039	1042				
Butte	BUCO0005	Honcut	7/16/2013	WNV	1045	1046	1053	1054	1055	
Butte	BUCO0006	Chico	7/16/2013	WNV	1061	1064				
Colusa	CLSA0001	Colusa	7/16/2013	WNV	1103	1104	1108			
Glenn	GLEN9701	Willows	7/17/2013	WNV	1252	1253	1258	1259	1260	
Kern	DLNO0060	Delano	7/18/2013	WNV	1206					
Lake	LAKE1000	Upper Lake	7/15/2013	WNV	1266					
Los Angeles	ANTV3247	Lancaster	7/10/2013	WNV	3603	3604	3606			
Merced	MERC0002	Dos Palos	7/19/2013	WNV	1457					
Merced	MERC0006	Merced	7/19/2013	WNV	1475	1476	1479			
Merced	MERC1302	Los Banos	7/19/2013	WNV	1473					
San Bernardino	WVAL0002	Chino	7/12/2013	WNV	3753					
Shasta	SHAS0401	Happy Valley	7/18/2013	WNV	1828	1829	1831			
Stanislaus	EAST1959	Oakdale	7/17/2013	WNV	3884	3889				
Sutter	SUYA0015	Robbins	7/18/2013	WNV	2030	2031	2034			
Sutter	SUYA0030	Live Oak	7/18/2013	WNV	2050	2051	2052	2054	2055	2056
Sutter	SUYA0031	Rio Oso	7/18/2013	WNV	2025					
Sutter	SUYA0084	Yuba City	7/18/2013	WNV	2002					
Yuba	SUYA0007	Marysville	7/18/2013	WNV	2008	2009	2010	2013		

## 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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*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)*