

## California Arbovirus Surveillance Bulletin #23

Week 32 Friday, August 9, 2013



### WEEKLY UPDATE

#### **Human Cases**

**Four new cases of West Nile virus (WNV) illness were reported this week from Butte (1), Contra Costa (1), and Fresno (2) counties.** As of August 6, 2013, a total of 18 human cases of WNV illness have been reported from nine counties. Of the 18 cases, 15 (83%) had neuroinvasive illness. The median age of the 18 individuals where data are available is 62 years (range: 11-91 years); 13 (71%) of 18 cases are male. Dates of symptom onset for all cases ranged from March 1-July 25, 2013. Two WNV-related fatalities have been reported to date in Sacramento (1) and Los Angeles (1) counties. A total of nine WNV-positive blood donors have been reported this year; to date none of these individuals developed symptoms. At this time last year, 18 cases had been reported from eight counties.

National Comments: As of August 6, 2013, 99 cases had been reported nationwide from 22 states. Of the 99 cases, 45 (45%) were classified as neuroinvasive disease, and 4 (4%) died.

#### **Horses**

**Two new equine cases of WNV illness have been reported.** A 7-year old unvaccinated gelding in Riverside County with symptom onset date of July 26 is recovering, and a 2-year old unvaccinated filly in Sacramento County with onset date of August 6 was euthanized. In 2013, five horses from four counties have tested positive for WNV; four died as a result of their infection. At this time last year, four horses had tested positive for WNV from four counties.

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

A total of 129 WNV positive birds were reported this week from the following 22 counties: Alameda (3), Butte (11), Contra Costa (11), Fresno (1), Glenn (1), Kings (2), Lake (2), Los Angeles (29), Madera (2), Merced (2), Orange (8), Placer (4), Riverside (2), Sacramento (21), San Joaquin (2), Santa Clara (6), Santa Cruz (1), Shasta (6), Sonoma (3), Stanislaus (2), Sutter (1), Trinity (1), and Yolo (8). **These are the first indications of WNV activity in Santa Cruz and Trinity counties this year.** A total of 3 WNV positive tree squirrels were reported this week from Contra Costa, Los Angeles, and San Bernardino counties. These are the first WNV positive tree squirrels reported this year (see note below). An additional 17 dead birds and 4 dead squirrels tested positive for chronic WNV infection. In 2013, 581 dead birds have tested positive for WNV from 33 counties and 3 dead squirrels have tested positive for WNV from 3 counties. At this time last year, 648 dead birds and 2 dead squirrels had tested positive for WNV from 26 and 2 counties, respectively.

*\*\*Please note that the four dead squirrels from Butte, San Bernardino, and Santa Clara counties previously reported as WNV positive have now been reclassified as chronic infections.*

#### **Mosquito Pools**

A total of 164 WNV positive mosquito pools were reported this week from 17 counties: Butte (10), Fresno (2), Kern (13), Lake (3), Los Angeles (23), Madera (1), Merced (1), Orange (7), Placer (15), Riverside (17), Sacramento (18), San Bernardino (17), San Joaquin (8), Stanislaus (8), Tulare (2), Yolo (18), and Yuba (1). In 2013, 1,171 mosquito pools from 25 counties have tested positive for WNV. At this time last year, 1,136 mosquito pools from 26 counties had tested positive for WNV.

#### **Sentinel Chickens**

A total of 59 sentinel chickens tested positive for WNV antibodies this week from 31 flocks located in 14 counties: Butte (17), Colusa (2), Glenn (1), Los Angeles (6), Marin (1), Merced (1), Placer (4), Riverside (4), Shasta (2), Solano (3), Stanislaus (3), Sutter (10), Tehama (1), and Yuba (4). **These are the first WNV seroconversions detected in Marin, Placer, and Tehama and counties this year.** In 2013, 160 WNV antibody-positive chickens have been detected among

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25 flocks in 19 counties. At this time last year, 75 WNV antibody-positive chickens had been detected among 36 flocks in 14 counties.

<b>2012 &amp; 2013 YTD West Nile Virus Comparisons</b>		
	<b>2012</b>	<b>2013</b>
Total # Dead Bird Reports	10,046	9,610
# Positive Counties	32	36
# Human Cases	18	18
# Horse Cases	4	5
# Positive Dead Birds / # Tested	648 / 2,242	581 / 2,081
# Positive Mosquito Pools / # Tested	1,136 / 17,715	1,171 / 18,259
# Seroconversions / # Tested	75 / 14,958	160 / 10,200
# Positive Squirrels / # Tested	2 / 75	3 / 76

<b>YTD WNV Activity by Element and County, 2013</b>						
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			6			
Butte	1		16	24	30	
Colusa					6	
Contra Costa	1		32	4		1
Fresno	2		5	35		
Glenn	2		6	11	6	
Kern		1	2	68	1	
Kings			10	41		
Lake			4	27	1	
Los Angeles	7		172	179	44	1
Madera			6	10		
Marin			2		1	
Mendocino			1			
Merced			24	3	7	
Nevada			1			
Orange			12	9		
Placer			9	63	4	
Riverside	1	1	10	39	9	
Sacramento	2	2	97	222	2	
San Bernardino			6	86	2	1
San Diego			4			
San Joaquin			21	56		
San Luis Obispo				1		
Santa Clara			21	15		
Santa Cruz			1			
Shasta			12	3	5	
Solano	1		5	1	4	
Sonoma			6			
Stanislaus		1	8	30	5	
Sutter			14	56	22	
Tehama					1	
Trinity			1			
Tulare			2	15		
Ventura			5			
Yolo	1		55	163	1	
Yuba			5	10	9	
<b>Totals</b>	<b>18</b>	<b>5</b>	<b>581</b>	<b>1,171</b>	<b>160</b>	<b>3</b>

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## TESTING SUMMARIES

### Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	4	0	0	0	0	0
	YTD	18	0	0	0	0	0
Horse Cases	Week	2	0	0	0	0	0
	YTD	5	0	0	0	0	0

### Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	214	129
	YTD	2,081	581
Tree Squirrels	Week	12	3
	YTD	76	3

### Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	598	59	0	0
	YTD	10,200	160	0	0
Mosquito Pools	Week	1,175	164	0	0
	YTD	18,259	1,171	0	0

## POSITIVES

### Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda MAD	Pleasanton	94566	House Sparrow	7/25/2013	WNV	Recent	RT-PCR
Alameda	Alameda MAD	Dublin	94568	American Crow	7/22/2013	WNV	Recent	RT-PCR
Alameda	Alameda MAD	Oakland	94605	Western Scrub-Jay	7/25/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Biggs	95917	Western Scrub-Jay	7/30/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95926	Western Scrub-Jay	7/23/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95926	American Crow	7/29/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95926	Western Scrub-Jay	7/29/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Magalia	95954	Steller's Jay	7/24/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Oroville	95966	Western Scrub-Jay	7/30/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Oroville	95966	Western Scrub-Jay	7/29/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95973	Yellow-billed Magpie	7/24/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95973	American Crow	7/25/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95973	American Crow	7/28/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95973	American Crow	7/24/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Discovery Bay	94505	American Crow	8/5/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Antioch	94509	Red-shouldered Hawk	7/29/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Antioch	94509	Fox Squirrel	7/30/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	7/24/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/2/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	7/24/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/4/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/1/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/7/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Pittsburg	94565	American Crow	8/5/2013	WNV	Recent	RAMP

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Contra Costa	Contra Costa MVCD	Pittsburg	94565	American Crow	8/7/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Walnut Creek	94597	American Crow	8/6/2013	WNV	Recent	RAMP
Fresno	Consolidated MAD	Fresno	93710	American Crow	6/25/2013	WNV	Recent	RT-PCR
Fresno	Consolidated MAD	Fresno	93726	Rock Dove	7/17/2013	WNV	Chronic	RT-PCR
Fresno	Consolidated MAD	Fresno	93726	American Crow	6/25/2013	WNV	Chronic	RT-PCR
Fresno	Fresno MVCD	Fresno	93701	Northern Mockingbird	7/22/2013	WNV	Chronic	RT-PCR
Glenn	Glenn MVCD	Artois	95913	Western Scrub-Jay	7/31/2013	WNV	Recent	RT-PCR
Kern	Kern MVCD	Bakersfield	93306	Northern Mockingbird	7/31/2013	WNV	Chronic	RT-PCR
Kings	Kings MAD	Lemoore	93245	Western Scrub-Jay	7/24/2013	WNV	Recent	RT-PCR
Kings	Kings MAD	Lemoore	93245	House Finch	7/25/2013	WNV	Recent	RT-PCR
Lake	Lake VCD	Kelseyville	95451	American Crow	7/24/2013	WNV	Recent	RT-PCR
Lake	Lake VCD	Lakeport	95453	American Crow	7/29/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Whittier	90605	American Crow	7/25/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Cerritos	90703	American Crow	7/19/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	San Pedro	90731	Buff-breasted Sandpiper	7/26/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	San Pedro	90732	American Crow	7/25/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Wilmington	90744	House Finch	7/25/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LAVCD - Sylmar	Van Nuys	91401	American Crow	7/29/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Culver City	90230	Black Phoebe	7/25/2013	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Gardena	90247	American Crow	6/29/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Rolling Hills Estate	90274	American Crow	6/27/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/18/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/19/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Lomita	90717	American Crow	7/19/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Lomita	90717	American Crow	6/27/2013	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Sherman Oaks	91401	Fox Squirrel	7/25/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Sherman Oaks	91423	American Crow	7/17/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90230	American Crow	7/29/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	El Segundo	90245	American Crow	7/25/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Palos Verdes Estates	90274	American Crow	7/23/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Rancho Palos Verdes	90275	American Crow	7/25/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Rancho Palos Verdes	90275	American Crow	7/25/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Rancho Palos Verdes	90275	American Crow	7/25/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Rancho Palos Verdes	90275	American Crow	7/28/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Redondo Beach	90277	American Crow	7/26/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Redondo Beach	90278	American Crow	7/25/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Torrance	90501	American Crow	7/25/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Torrance	90503	American Crow	7/26/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Torrance	90505	House Finch	7/29/2013	WNV	Recent	RT-PCR
Los Angeles	Pasadena Humane Society	Pasadena	91107	House Sparrow	7/25/2013	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Valley MVCD	Monrovia	91016	Cooper's Hawk	7/27/2013	WNV	Chronic	RT-PCR
Los Angeles	San Gabriel Valley MVCD	Covina	91722	American Crow	7/29/2013	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Valley MVCD	Glendora	91740	House Finch	7/30/2013	WNV	Chronic	RT-PCR
Los Angeles	San Gabriel Valley MVCD	Glendora	91741	House Finch	7/25/2013	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Valley MVCD	West Covina	91790	American Crow	7/24/2013	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Valley MVCD	West Covina	91791	American Crow	7/23/2013	WNV	Recent	RT-PCR
Madera	Madera MVCD	Madera	93636	Western Scrub-Jay	7/26/2013	WNV	Recent	RT-PCR
Madera	Madera MVCD	Madera	93637	American Crow	7/30/2013	WNV	Recent	RT-PCR
Merced	Merced MAD	Hilmar	95324	American Crow	7/25/2013	WNV	Recent	RT-PCR
Merced	Merced MAD	Merced	95348	American Crow	7/25/2013	WNV	Recent	RT-PCR
Orange	Orange VCD	Rossmoor	90720	American Crow	8/6/2013	WNV	Recent	RT-PCR
Orange	Orange VCD	Rossmoor	90720	American Crow	8/6/2013	WNV	Recent	RT-PCR
Orange	Orange VCD	Seal Beach	90740	American Crow	8/6/2013	WNV	Recent	RT-PCR
Orange	Orange VCD	Huntington Beach	92646	American Crow	8/1/2013	WNV	Recent	RT-PCR

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Orange	Orange VCD	Laguna Niguel	92677	American Crow	8/7/2013	WNV	Recent	RT-PCR
Orange	Orange VCD	Santa Ana	92706	House Finch	8/1/2013	WNV	Recent	RT-PCR
Orange	Orange VCD	Fountain Valley	92708	American Crow	8/6/2013	WNV	Recent	RT-PCR
Orange	Orange VCD	Fullerton	92835	House Finch	8/2/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Auburn	95603	American Crow	8/1/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Loomis	95650	American Robin	8/2/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	Western Scrub-Jay	8/5/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Rocklin	95765	House Finch	8/2/2013	WNV	Recent	RT-PCR
Riverside	NW Mosquito VCD	Norco	92860	American Goldfinch	7/24/2013	WNV	Recent	RT-PCR
Riverside	Riverside VCP	Murrieta	92562	American Crow	7/29/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Carmichael	95608	American Crow	8/1/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	House Finch	7/30/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	Rufous Hummingbird	7/29/2013	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95621	American Crow	8/4/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	American Goldfinch	7/31/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	American Crow	7/30/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	American Crow	7/30/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/30/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	Eastern Grey Squirrel	7/23/2013	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Isleton	95641	American Robin	7/31/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	8/2/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	Western Scrub-Jay	8/4/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	Western Scrub-Jay	8/5/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	7/31/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	7/31/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95818	American Crow	7/30/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95818	Western Scrub-Jay	8/4/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95821	Fox Squirrel	7/28/2013	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95821	American Crow	7/30/2013	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95822	American Crow	7/31/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95825	American Crow	7/31/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	Northern Mockingbird	7/30/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	Yellow-billed Magpie	8/1/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95833	American Crow	7/31/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95842	House Finch	7/30/2013	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Upland	91786	Fox Squirrel	7/25/2013	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Big Bear City	92314	Steller's Jay	7/26/2013	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	Cedarpines Park	92322	Eastern Grey Squirrel	7/25/2013	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin MVCD	Stockton	95207	Western Scrub-Jay	8/2/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Manteca	95337	Western Scrub-Jay	8/7/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	Mountain View	94041	Eastern Gray Squirrel	7/31/2013	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara VCD	Milpitas	95035	American Crow	7/29/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	Saratoga	95070	American Crow	7/30/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	Saratoga	95070	American Crow	7/25/2013	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95121	American Crow	8/7/2013	WNV	Recent	VecTest
Santa Clara	Santa Clara VCD	San Jose	95131	American Crow	7/30/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95131	American Crow	7/31/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95132	American Crow	7/23/2013	WNV	Recent	RT-PCR
Santa Cruz	Santa Cruz MVCD	Santa Cruz	95065	Fox Sparrow	7/31/2013	WNV	Recent	RT-PCR
Shasta	Burney Basin MAD	Burney	96013	American Robin	7/25/2013	WNV	Chronic	RT-PCR
Shasta	Shasta MVCD	Redding, CA	96001	Western Bluebird	7/29/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Redding	96001	Western Scrub-Jay	7/29/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Redding	96002	Western Scrub-Jay	7/24/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Redding, CA	96002	Red Knot	7/31/2013	WNV	Chronic	RT-PCR

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Shasta	Shasta MVCD	Redding	96003	Western Scrub-Jay	7/29/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Cottonwood	96022	Cooper's Hawk	7/26/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Palo Cedro	96073	Yellow-billed Magpie	7/30/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Shingletown	96088	House Sparrow	7/31/2013	WNV	Chronic	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95401	American Crow	7/26/2013	WNV	Recent	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95403	American Crow	7/26/2013	WNV	Recent	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95404	Red-tailed Hawk	7/25/2013	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95356	American Crow	7/31/2013	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Ceres	95307	House Finch	7/31/2013	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Live Oak	95953	Goose	7/26/2013	WNV	Chronic	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95991	Western Scrub-Jay	7/24/2013	WNV	Recent	RT-PCR
Trinity	CA Dept. of Fish & Wildlife	Mad River	95552	Golden Eagle	7/18/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	Yellow-billed Magpie	7/28/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	7/31/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	7/31/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	8/3/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	7/30/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	7/30/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	Northern Mockingbird	7/29/2013	WNV	Chronic	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	Turkey Vulture	8/1/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	8/2/2013	WNV	Recent	RT-PCR

### Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap	Collecte d	Virus	Metho d
Butte	BUCO0	52	Oroville	Unknown	50	NA	8/6/13	WNV	RTPCR
Butte	BUCO0	53	Oroville	Unknown	50	NA	8/6/13	WNV	RTPCR
Butte	BUCO0	54	Oroville	Unknown	50	NA	8/6/13	WNV	RTPCR
Butte	BUCO0	55	Oroville	Unknown	50	NA	8/6/13	WNV	RTPCR
Butte	BUCO0	57	Oroville	Unknown	50	NA	8/6/13	WNV	RTPCR
Butte	BUCO0	58	Oroville	Unknown	50	NA	8/6/13	WNV	RTPCR
Butte	BUCO0	60	Oroville	Unknown	50	NA	8/6/13	WNV	RTPCR
Butte	BUCO0	62	Oroville	Unknown	50	NA	8/6/13	WNV	RTPCR
Butte	BUCO60	31	Chico	Cx. tarsalis	50	CO2	7/16/13	WNV	RTPCR
Butte	BUCO60	40	Chico	Cx. tarsalis	50	CO2	7/17/13	WNV	RTPCR
Fresno	CNSL1245	199	Clovis	Cx. quinquefasciatus	50	GRVD	8/6/13	WNV	RTPCR
Fresno	CNSL1695	200	Fresno	Cx. quinquefasciatus	50	GRVD	8/6/13	WNV	RTPCR
Kern	DLNO4	40	Delano	Cx. quinquefasciatus	50	GRVD	8/5/13	WNV	RTPCR
Kern	DLNO4	41	Delano	Cx. quinquefasciatus	50	GRVD	8/5/13	WNV	RTPCR
Kern	KERN1137	332	Bakersfield	Cx. quinquefasciatus	50	CO2	8/2/13	WNV	RTPCR
Kern	KERN1144	324	Bakersfield	Cx. tarsalis	50	CO2	7/31/13	WNV	RTPCR
Kern	KERN15	320	Bakersfield	Cx. quinquefasciatus	50	CO2	7/30/13	WNV	RTPCR
Kern	KERN29	335	Lamont	Cx. quinquefasciatus	50	CO2	8/2/13	WNV	RTPCR
Kern	KERN3014	328	Bakersfield	Cx. quinquefasciatus	50	CO2	8/1/13	WNV	RTPCR
Kern	KERN3027	337	Arvin	Cx. tarsalis	46	CO2	8/2/13	WNV	RTPCR
Kern	KERN3041	331	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/2/13	WNV	RTPCR
Kern	KERN31	321	Arvin	Cx. quinquefasciatus	50	CO2	7/30/13	WNV	RTPCR
Kern	KERN42	336	Bakersfield	Cx. quinquefasciatus	44	CO2	8/2/13	WNV	RTPCR
Kern	KERN83	322	Arvin	Cx. tarsalis	50	CO2	7/30/13	WNV	RTPCR

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Kern	WEST6236	91	Tupman	Cx. tarsalis	50	CO2	8/7/13	WNV	RTPCR
Lake	LAKE130	226	Lower Lake	Cx. tarsalis	41	CO2	8/7/13	WNV	RTPCR
Lake	LAKE1508	236	Kelseyville	Cx. stigmatosoma	45	REST	8/7/13	WNV	RTPCR
Lake	LAKE94	211		Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Los Angeles	GRLA2017	5778	Toluca Lake	Cx. quinquefasciatus	31	GRVD	7/30/13	WNV	RTPCR
Los Angeles	GRLA2065	737	Gardena	Cx. quinquefasciatus	48	GRVD	8/1/13	WNV	RTPCR
Los Angeles	GRLA2131	738	Wilmington	Cx. tarsalis	50	CO2	8/1/13	WNV	RTPCR
Los Angeles	GRLA2133	730	Wilmington	Cx. quinquefasciatus	46	GRVD	8/1/13	WNV	RTPCR
Los Angeles	GRLA2297	722	Los Angeles	Cx. quinquefasciatus	50	GRVD	7/30/13	WNV	RTPCR
Los Angeles	GRLA2301	727	Willowbrook	Cx. quinquefasciatus	50	GRVD	7/30/13	WNV	RTPCR
Los Angeles	GRLA2312	729	San Pedro	Cx. quinquefasciatus	46	GRVD	8/1/13	WNV	RTPCR
Los Angeles	GRLA2321	735	Carson	Cx. quinquefasciatus	26	GRVD	8/1/13	WNV	RTPCR
Los Angeles	GRLA2500	5787	Los Angeles	Cx. quinquefasciatus	25	GRVD	8/1/13	WNV	RTPCR
Los Angeles	GRLA2521	5794	Los Feliz	Cx. quinquefasciatus	19	GRVD	8/1/13	WNV	RTPCR
Los Angeles	GRLA2592	5773	San Marino	Cx. quinquefasciatus	45	GRVD	7/30/13	WNV	RTPCR
Los Angeles	GRLA2615	5799	Newhall	Cx. quinquefasciatus	34	GRVD	8/2/13	WNV	RTPCR
Los Angeles	GRLA2936	5797	Burbank	Cx. quinquefasciatus	50	GRVD	8/1/13	WNV	RTPCR
Los Angeles	GRLA2937	5796	Burbank	Cx. quinquefasciatus	35	GRVD	8/1/13	WNV	RTPCR
Los Angeles	GRLA3038	5780	Valley Village	Cx. quinquefasciatus	41	GRVD	7/30/13	WNV	RTPCR
Los Angeles	GRLA3064	726	Los Angeles	Cx. quinquefasciatus	50	GRVD	7/30/13	WNV	RTPCR
Los Angeles	GRLA3066	5783	North Hollywood	Cx. quinquefasciatus	26	GRVD	7/30/13	WNV	RTPCR
Los Angeles	GRLA3066	5786	North Hollywood	Cx. quinquefasciatus	41	CO2	7/30/13	WNV	RTPCR
Los Angeles	GRLA3069	5785	Valley Village	Cx. quinquefasciatus	50	GRVD	7/30/13	WNV	RTPCR
Los Angeles	GRLA3076	5782	Valley Glen	Cx. quinquefasciatus	41	GRVD	7/30/13	WNV	RTPCR
Los Angeles	GRLA3079	5781	Simi Valley	Cx. quinquefasciatus	40	GRVD	7/30/13	WNV	RTPCR
Los Angeles	GRLA3080	5784	North Hollywood	Cx. quinquefasciatus	50	GRVD	7/30/13	WNV	RTPCR
Los Angeles	GRLA3102	5779	Studio City	Cx. quinquefasciatus	32	CO2	7/30/13	WNV	RTPCR
Madera	MADR133	56	Chowchilla	Cx. tarsalis	42	CO2	7/31/13	WNV	RTPCR
Merced	MERC407	55	Gustine	Cx. pipiens	9	CO2	7/30/13	WNV	RTPCR
Orange	ORCO170	1020	Anaheim	Cx. quinquefasciatus	49	GRVD	8/7/13	WNV	RTPCR
Orange	ORCO198	1022	La Habra	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Orange	ORCO198	1023	La Habra	Cx. quinquefasciatus	46	GRVD	8/7/13	WNV	RTPCR
Orange	ORCO202	1013	Fullerton	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Orange	ORCO36	1015	Cypress	Cx. quinquefasciatus	33	GRVD	8/7/13	WNV	RTPCR
Orange	ORCO82	1011	Cypress	Cx. quinquefasciatus	40	GRVD	8/7/13	WNV	RTPCR
Orange	ORCO82	1012	Cypress	Cx. quinquefasciatus	29	GRVD	8/7/13	WNV	RTPCR
Placer	PLCR1070	1137	Roseville	Cx. pipiens	8	CO2	8/6/13	WNV	RTPCR
Placer	PLCR1113	1143	Pleasant Grove	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Placer	PLCR25	1117	Lincoln	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Placer	PLCR25	1118	Lincoln	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Placer	PLCR25	1119	Lincoln	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Placer	PLCR25	1120	Lincoln	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Placer	PLCR25	1121	Lincoln	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Placer	PLCR31	1129	Lincoln	Cx. pipiens	6	CO2	8/6/13	WNV	RTPCR
Placer	PLCR516	1122	Roseville	Cx. pipiens	3	CO2	8/6/13	WNV	RTPCR
Placer	PLCR525	1178	Lincoln	Cx. pipiens	41	CO2	8/6/13	WNV	RTPCR
Placer	PLCR632	1157	Lincoln	Cx. tarsalis	45	CO2	8/6/13	WNV	RTPCR
Placer	PLCR646	1108	Elverta	Cx. tarsalis	50	CO2	8/2/13	WNV	RTPCR
Placer	PLCR646	1109	Elverta	Cx. tarsalis	50	CO2	8/2/13	WNV	RTPCR
Placer	PLCR668	1173	Elverta	Cx. tarsalis	40	CO2	8/6/13	WNV	RTPCR

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Placer	PLCR95	1132	Lincoln	Cx. tarsalis	55	CO2	8/6/13	WNV	RTPCR
Riverside	COAV121	1106	Mecca	Cx. tarsalis	35	CO2	7/30/13	WNV	RTPCR
Riverside	COAV17	1080	Mecca	Cx. tarsalis	50	CO2	7/30/13	WNV	RTPCR
Riverside	COAV30	1099	Mecca	Cx. tarsalis	31	CO2	7/30/13	WNV	RTPCR
Riverside	COAV34	1098	Mecca	Cx. tarsalis	32	CO2	7/30/13	WNV	RTPCR
Riverside	COAV35	1077	Mecca	Cx. tarsalis	50	CO2	7/30/13	WNV	RTPCR
Riverside	COAV35	1078	Mecca	Cx. tarsalis	50	CO2	7/30/13	WNV	RTPCR
Riverside	COAV35	1079	Mecca	Cx. tarsalis	50	CO2	7/30/13	WNV	RTPCR
Riverside	COAV45	1073	Mecca	Cx. tarsalis	50	CO2	7/30/13	WNV	RTPCR
Riverside	COAV45	1074	Mecca	Cx. tarsalis	50	CO2	7/30/13	WNV	RTPCR
Riverside	COAV45	1075	Mecca	Cx. tarsalis	50	CO2	7/30/13	WNV	RTPCR
Riverside	COAV48	1105	Mecca	Cx. tarsalis	50	CO2	7/30/13	WNV	RTPCR
Riverside	COAV604	1055	Palm Springs	Cx. quinquefasciatus	41	GRVD	7/25/13	WNV	RTPCR
Riverside	COAV610	1082		Cx. tarsalis	47	CO2	7/30/13	WNV	RTPCR
Riverside	NWST9402	102	Corona	Cx. tarsalis	50	CO2	7/26/13	WNV	RTPCR
Riverside	RIVR22	348	Murrieta	Cx. erythrothorax	50	CO2	8/6/13	WNV	RTPCR
Riverside	RIVR31	327	Nuevo	Cx. tarsalis	50	CO2	7/30/13	WNV	RTPCR
Riverside	RIVR54	342	Moreno Valley	Cx. tarsalis	12	CO2	7/31/13	WNV	RTPCR
Sacramento	SAYO201009	3954	Sacramento	Cx. tarsalis	25	CO2	8/6/13	WNV	RTPCR
Sacramento	SAYO202006	3948	Sacramento	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Sacramento	SAYO202006	3950	Sacramento	Cx. tarsalis	33	CO2	8/6/13	WNV	RTPCR
Sacramento	SAYO202006	3951	Sacramento	Cx. pipiens	1	CO2	8/6/13	WNV	RTPCR
Sacramento	SAYO203008	3802	Elverta	Cx. tarsalis	2	GRVD	8/2/13	WNV	RTPCR
Sacramento	SAYO203008	3804	Elverta	Cx. pipiens	51	GRVD	8/2/13	WNV	RTPCR
Sacramento	SAYO203020	3787	North Highlands	Cx. pipiens	5	GRVD	8/2/13	WNV	RTPCR
Sacramento	SAYO212007	3805	Sacramento	Cx. tarsalis	33	CO2	8/2/13	WNV	RTPCR
Sacramento	SAYO212007	3807	Sacramento	Cx. pipiens	4	GRVD	8/2/13	WNV	RTPCR
Sacramento	SAYO222001	3877	Sacramento	Cx. pipiens	30	GRVD	8/2/13	WNV	RTPCR
Sacramento	SAYO222015	3781	Sacramento	Cx. pipiens	18	GRVD	8/2/13	WNV	RTPCR
Sacramento	SAYO232012	3755	Elk Grove	Cx. pipiens	8	CO2	8/2/13	WNV	RTPCR
Sacramento	SAYO233004	3750	Elk Grove	Cx. tarsalis	50	CO2	8/2/13	WNV	RTPCR
Sacramento	SAYO233004	3751	Elk Grove	Cx. tarsalis	22	CO2	8/2/13	WNV	RTPCR
Sacramento	SAYO234019	3902	Elk Grove	Cx. pipiens	7	CO2	8/2/13	WNV	RTPCR
Sacramento	SAYO234019	3903	Elk Grove	Cx. pipiens	5	GRVD	8/2/13	WNV	RTPCR
Sacramento	SAYO253001	3990	Galt	Cx. tarsalis	47	CO2	8/6/13	WNV	RTPCR
Sacramento	SAYO254015	3984	Galt	Cx. tarsalis	15	CO2	8/6/13	WNV	RTPCR
San Bernardino	WVAL2004	766	Chino	Cx. quinquefasciatus	11	CO2	8/6/13	WNV	RTPCR
San Bernardino	WVAL2012	762	Chino	Cx. stigmatosoma	30	CO2	8/6/13	WNV	RTPCR
San Bernardino	WVAL2022	767	Fwy CA 60	Cx. quinquefasciatus	32	GRVD	8/6/13	WNV	RTPCR
San Bernardino	WVAL5009	771	Rancho Cucamonga	Cx. quinquefasciatus	13	GRVD	8/6/13	WNV	RTPCR
San Bernardino	WVAL6001	782	Ontario	Cx. quinquefasciatus	19	GRVD	8/6/13	WNV	RTPCR
San Bernardino	WVAL6004	791	Ontario	Cx. quinquefasciatus	50	GRVD	8/6/13	WNV	RTPCR
San Bernardino	WVAL6004	792	Ontario	Cx. quinquefasciatus	26	GRVD	8/6/13	WNV	RTPCR
San Bernardino	WVAL6004	793	Ontario	Cx. quinquefasciatus	50	GRVD	8/6/13	WNV	RTPCR
San Bernardino	WVAL6004	794	Ontario	Cx. quinquefasciatus	25	GRVD	8/6/13	WNV	RTPCR
San Bernardino	WVAL6004	797	Ontario	Cx. quinquefasciatus	24	GRVD	8/6/13	WNV	RTPCR
San Bernardino	WVAL6004	799	Ontario	Cx. quinquefasciatus	50	GRVD	8/6/13	WNV	RTPCR
San Bernardino	WVAL6004	800	Ontario	Cx. quinquefasciatus	55	GRVD	8/6/13	WNV	RTPCR
San Bernardino	WVAL6004	802	Ontario	Cx. quinquefasciatus	50	GRVD	8/6/13	WNV	RTPCR
San Bernardino	WVAL6004	803	Ontario	Cx. quinquefasciatus	50	GRVD	8/6/13	WNV	RTPCR



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San Bernardino	WVAL6009	764	Ontario	Cx. quinquefasciatus	50	GRVD	8/6/13	WNV	RTPCR
San Bernardino	WVAL6012	780	Ontario	Cx. quinquefasciatus	18	GRVD	8/6/13	WNV	RTPCR
San Bernardino	WVAL7001	773	Montclair	Cx. quinquefasciatus	6	GRVD	8/6/13	WNV	RTPCR
San Joaquin	SJCM8009	939	Stockton	Cx. tarsalis	10	CO2	8/6/13	WNV	RTPCR
San Joaquin	SJCM8027	937	McDonald Isl. bridge	Cx. pipiens	52	CO2	8/6/13	WNV	RTPCR
San Joaquin	SJCM8079	925	Manteca	Cx. pipiens	50	CO2	8/6/13	WNV	RTPCR
San Joaquin	SJCM8161	918	Ripon	Cx. tarsalis	12	CO2	8/6/13	WNV	RTPCR
San Joaquin	SJCM8161	919	Ripon	Cx. pipiens	50	CO2	8/6/13	WNV	RTPCR
San Joaquin	SJCM8161	920	Ripon	Cx. pipiens	50	CO2	8/6/13	WNV	RTPCR
San Joaquin	SJCM8161	921	Ripon	Cx. pipiens	6	CO2	8/6/13	WNV	RTPCR
San Joaquin	SJCM8195	907	Stockton	Cx. pipiens	8	CO2	7/25/13	WNV	RTPCR
Stanislaus	EAST1088	13186	Modesto	Cx. pipiens	29	CO2	8/8/13	WNV	RAMP
Stanislaus	TRLK1202	428	Hughson	Cx. pipiens	12	CO2	8/6/13	WNV	RTPCR
Stanislaus	TRLK1203	425	Hughson	Cx. pipiens	31	CO2	8/6/13	WNV	RTPCR
Stanislaus	TRLK1309	426	Hughson	Cx. pipiens	5	CO2	8/6/13	WNV	RTPCR
Stanislaus	TRLK421	411	Hughson	Cx. pipiens	50	CO2	8/6/13	WNV	RTPCR
Stanislaus	TRLK432	396	Turlock	Cx. pipiens	50	CO2	8/6/13	WNV	RTPCR
Stanislaus	TRLK504	383	Denair	Cx. pipiens	50	CO2	8/1/13	WNV	RTPCR
Stanislaus	TRLK526	404	Denair	Cx. pipiens	50	CO2	8/6/13	WNV	RTPCR
Tulare	DLTA6408	309	Dinuba	Cx. quinquefasciatus	29	GRVD	8/2/13	WNV	RTPCR
Tulare	DLTA6408	310	Dinuba	Cx. quinquefasciatus	16	GRVD	8/2/13	WNV	RTPCR
Yolo	SAYO103007	4030	Dunnigan	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Yolo	SAYO103007	4032	Dunnigan	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Yolo	SAYO103007	4035	Dunnigan	Cx. pipiens	6	CO2	8/6/13	WNV	RTPCR
Yolo	SAYO104006	4026	Dunnigan	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Yolo	SAYO104006	4027	Dunnigan	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Yolo	SAYO104006	4028	Dunnigan	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Yolo	SAYO104006	4029	Dunnigan	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Yolo	SAYO124007	4014	Woodland	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Yolo	SAYO125011	3833	Woodland	Cx. pipiens	6	GRVD	8/2/13	WNV	RTPCR
Yolo	SAYO125016	3842	Woodland	Cx. tarsalis	48	CO2	8/2/13	WNV	RTPCR
Yolo	SAYO136010	4018	Woodland	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Yolo	SAYO136010	4021	Woodland	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Yolo	SAYO136010	4022	Woodland	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Yolo	SAYO145009	3889	Davis	Cx. pipiens	2	CO2	8/2/13	WNV	RTPCR
Yolo	SAYO145015	3878	Davis	Cx. tarsalis	31	CO2	8/2/13	WNV	RTPCR
Yolo	SAYO146017	3905	Davis	Cx. tarsalis	50	CO2	8/2/13	WNV	RTPCR
Yolo	SAYO157001	4005	Clarksburg	Cx. tarsalis	23	CO2	8/6/13	WNV	RTPCR
Yolo	SAYO157001	4006	Clarksburg	Cx. pipiens	5	CO2	8/6/13	WNV	RTPCR
Yuba	SUYA108	337	Plumas Lake	Cx. tarsalis	38	CO2	8/7/13	WNV	RTPCR

### Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO000001	Chico	7/29/13	WNV	1002	1003		
Butte	BUCO000002	Oroville	7/29/13	WNV	1013	1020	1021	
Butte	BUCO000003	Oroville	7/29/13	WNV	1024	1030	1032	
Butte	BUCO000004	Gridley	7/29/13	WNV	1040	1041		

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Butte	BUCO000005	Honcut	7/29/13	WNV	1048	1050	1052	
Butte	BUCO000006	Chico	7/29/13	WNV	1062			
Butte	BUCO000007	Chico	7/29/13	WNV	1068	1069	1076	
Colusa	CLSA000001	Colusa	7/30/13	WNV	1107	1110		
Glenn	GLEN009701	Willows	7/31/13	WNV	1255			
Los Angeles	GRLA002132	Wilmington	7/25/13	WNV	2632	2640		
Los Angeles	LACW001001	Rolling Hills Estates	8/1/13	WNV	1304			
Los Angeles	LACW001003	Redondo Beach	7/11/13	WNV	1315			
Los Angeles	LACW001005	El Segundo	8/2/13	WNV	1326			
Los Angeles	LACW001026	Beverly Hills	8/1/13	WNV	1400			
Marin	MARN000372	Novato	7/29/13	WNV	1517			
Merced	MERC000002	Dos Palos	8/2/13	WNV	1460			
Placer	PLCR000017	Sheridan	7/29/13	WNV	1619	1621		
Placer	PLCR000095	Lincoln	7/29/13	WNV	1613			
Placer	PLCR000669	Auburn	7/29/13	WNV	1612			
Riverside	RIVR000002	Nuevo	8/7/13	WNV	3926	3927	3934	3935
Shasta	SHAS005038		8/1/13	WNV	1820	1821		
Solano	SOLA000015	Winters	7/30/13	WNV	1856	1861		
Solano	SOLA000125	Cordelia	7/30/13	WNV	1869			
Stanislaus	EAST001959	Oakdale	7/31/13	WNV	3886	3890	3891	
Sutter	SUYA000014	Sutter	8/1/13	WNV	2044	2045	2046	2049
Sutter	SUYA000015	Robbins	8/1/13	WNV	2029	2032	2033	
Sutter	SUYA000020	Meridian	8/1/13	WNV	2038			
Sutter	SUYA000031	Rio Oso	8/1/13	WNV	2026	2027		
Tehama	TEHA000001	Red Bluff	7/31/13	WNV	1954			
Yuba	SUYA000007	Marysville	8/1/13	WNV	2012	2014		
Yuba	SUYA000010	Olivehurst	8/1/13	WNV	2019	2021		

### 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.

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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)*