

## California Arbovirus Surveillance Bulletin #26

Week 35 Friday, August 30, 2013



### WEEKLY UPDATE

#### Human Cases

A total of 28 new cases of West Nile virus (WNV) illness were reported this week from 13 counties: Butte (5), El Dorado (1), Glenn (1), Kern (2), Los Angeles (9), Marin (1), Napa (1), Riverside (1), San Bernardino (1), San Francisco (1), Stanislaus (2), Sutter (2), and Yolo (1). **These are the first WNV cases reported from El Dorado, Marin, Napa, San Francisco, and San Bernardino counties this year.** As of August 27, 2013, a total of 87 cases of WNV illness have been reported in 23 counties. Of the 87 case-patients, 62 (71%) had neuroinvasive illness. The median age of the 87 individuals for whom data are available is 57 years (range: 11-91 years); 53 (61%) are male. Dates of symptom onset range from June 20 to August 16, 2013. Five WNV-related fatalities have been reported in Sacramento (1), Los Angeles (2), Glenn (1), and San Joaquin (1) counties. Additionally, 17 WNV-positive blood donors have been reported this year; to date none of these individuals developed symptoms. At this time last year, 56 cases had been reported from 15 counties.

National Comments: As of August 27, 2013, 421 cases had been reported nationwide from 35 states. Of these, 197 (47%) were classified as neuroinvasive disease, and 13 (3%) died.

#### Horses

No new equine cases of WNV illness were reported this week. In 2013, 8 horses from 5 counties have tested positive for WNV; four have died as a result of their infection. At this time last year, nine horses had tested positive for WNV from seven counties.

#### Dead Birds & Squirrels

A total of 72 WNV positive birds were reported this week from the following 22 counties: Alameda (3), Butte (5), Contra Costa (6), Glenn (1), Los Angeles (7), Mendocino (1), Merced (3), Nevada (2), Orange (4), Placer (6), Riverside (4), Sacramento (5), San Bernardino (4), San Joaquin (2), San Luis Obispo (1), Santa Clara (7), Shasta (1), Sonoma (1), Stanislaus (2), Tehama (1), Ventura (1), and Yolo (5). This is the first WNV positive bird detected in San Luis Obispo County this year. One tree squirrel from Shasta County tested positive for WNV this week; this is the first WNV positive tree squirrel from Shasta County this year. An additional 5 dead birds tested positive for chronic WNV infection. In 2013, 903 dead birds have tested positive for WNV from 38 counties and 5 dead squirrels have tested positive for WNV from 4 counties. At this time last year, 954 dead birds and 3 tree squirrels had tested positive for recent WNV infection from 30 and 3 counties, respectively.

*\*\*\*CAHFS is no longer accepting dead birds for WNV testing. Agencies may send corvid oral swab samples on RNase cards directly to CVEC for WNV testing. The sampling protocol has been distributed and will be posted on [www.westnile.ca.gov](http://www.westnile.ca.gov). Please contact Leslie Foss at [leslie.foss@cdph.ca.gov](mailto:leslie.foss@cdph.ca.gov) or (510) 412-6255 if you plan to sample corvids with RNase cards to ensure that the hotline accepts corvids for your agency, or with any questions about the new sampling procedure. Agencies that conduct in-house testing can continue to accept both corvids and non-corvids for WNV testing at local laboratory. All dead birds should still be reported via the WNV hotline, [www.westnile.ca.gov](http://www.westnile.ca.gov), or Gateway.*

#### Mosquito Pools

A total of 292 WNV positive mosquito pools were reported this week from 20 counties: Contra Costa (2), Fresno (4), Kern (55), Kings (11), Lake (6), Los Angeles (28), Madera (2), Placer (9), Riverside (1), Sacramento (34), San Bernardino (47), San Joaquin (17), Santa Clara (3), Santa Cruz (1), Shasta (6), Stanislaus (10), Sutter (1), Tulare (32), Yolo (22), and Yuba (1). **This is the first WNV positive pool detected in Santa Cruz County this year.** In 2013, 1,854 mosquito pools from 26 counties have tested positive for WNV. At this time last year, 1,890 mosquito pools from 28 counties had tested positive for WNV.

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### Sentinel Chickens

A total of 33 sentinel chickens tested positive for WNV antibodies this week from 17 flocks in six counties: Lake (3), Los Angeles (21), Placer (2), Riverside (5), San Bernardino (1), and Yolo (1). In 2013, 262 WNV antibody-positive chickens have been detected among 74 flocks in 20 counties. At this time last year, 217 WNV antibody-positive chickens had been detected among 64 flocks in 16 counties.

<b>YTD WNV Activity by Element and County, 2013</b>						
<b>County</b>	<b>Humans</b>	<b>Horses</b>	<b>Dead Birds</b>	<b>Mosquito Pools</b>	<b>Sentinel Chickens</b>	<b>Squirrels</b>
Alameda			12			
Butte	8		39	32	39	
Colusa	1		1		8	
Contra Costa	2		52	12	4	1
El Dorado	1					
Fresno	2		7	45		
Glenn	4		8	13	9	
Humboldt			1			
Kern	6	1	2	140	2	
Kings			10	66		
Lake			7	52	5	
Los Angeles	36		271	283	81	2
Madera			7	14		
Marin	1		4		1	
Mendocino			2			
Merced			31	7	11	
Napa	1		1			
Nevada			6			
Orange	1		20	11		
Placer	1	1	25	85	6	
Riverside	3	1	18	48	18	
Sacramento	3	3	122	311	2	
San Bernardino	1		16	165	13	1
San Diego			5			
San Francisco	1					
San Joaquin	3		28	106		
San Luis Obispo			1	1		
Santa Clara	1		45	22		
Santa Cruz			1	1		
Shasta			27	10	6	1
Solano	1		5	1	5	
Sonoma			8			
Stanislaus	3	2	11	81	8	
Sutter	3		14	63	30	
Tehama			3		1	
Trinity			1			
Tulare			3	57		
Ventura	1		7			
Yolo	3		75	216	4	
Yuba			7	12	9	
<b>Totals</b>	<b>87</b>	<b>8</b>	<b>903</b>	<b>1,854</b>	<b>262</b>	<b>5</b>

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2012 & 2013 YTD West Nile Virus Comparisons		
	2012	2013
Total # Dead Bird Reports	13,502	11,281
# Positive Counties	34	40
# Human Cases	56	87
# Horse Cases	9	8
# Positive Dead Birds / # Tested	954 / 2,780	903 / 2,634
# Positive Mosquito Pools / # Tested	1,890 / 22,633	1,854 / 21,903
# Seroconversions / # Tested	217 / 17,183	262 / 11,948
# Positive Squirrels / # Tested	2 / 81	5 / 92

### TESTING SUMMARIES

#### Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	28	0	0	0	0	0
	YTD	87	0	0	0	0	0
Horse Cases	Week	0	0	0	0	0	0
	YTD	8	0	0	0	0	0

#### Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	122	72
	YTD	2,634	903
Tree Squirrels	Week	4	1
	YTD	92	5

#### Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	584	33	0	0
	YTD	11,948	262	0	0
Mosquito Pools	Week	1,274	292	0	0
	YTD	21,903	1,854	0	0

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**POSITIVES**

**Dead Birds & Squirrels**

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda MAD	Fremont	94538	American Crow	8/19/2013	WNV	Chronic	RT-PCR
Alameda	Alameda MAD	Fremont	94538	American Crow	8/13/2013	WNV	Recent	RT-PCR
Alameda	Alameda MAD	Fremont	94539	American Crow	8/14/2013	WNV	Recent	RT-PCR
Alameda	Alameda MAD	Livermore	94551	American Crow	8/15/2013	WNV	Chronic	RT-PCR
Alameda	Alameda MAD	Pleasanton	94566	House Finch	8/11/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95926	American Crow	8/19/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95926	Yellow-billed Magpie	8/19/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95926	American Crow	8/12/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95926	Western Scrub-Jay	8/14/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95973	Yellow-billed Magpie	8/19/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/26/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/14/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	Western Scrub-Jay	8/14/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/27/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	8/27/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Oakley	94561	American Crow	8/26/2013	WNV	Recent	RAMP
Glenn	Glenn MVCD	Orland	95963	Western Scrub-Jay	8/15/2013	WNV	Recent	RT-PCR
Los Angeles	Antelope Valley MVCD	Lancaster	93536	House Finch	8/19/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Cerritos	90703	American Crow	8/6/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90808	American Crow	8/7/2013	WNV	Chronic	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90808	American Crow	8/8/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90808	American Crow	8/9/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90810	American Crow	8/8/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90066	American Crow	8/14/2013	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Vall. MVCD	West Covina	91791	House Finch	8/14/2013	WNV	Recent	RT-PCR
Mendocino	Mendocino EHD	Ukiah	95482	Western Scrub-Jay	8/16/2013	WNV	Recent	RT-PCR
Merced	Merced MAD	Los Banos	93635	American Crow	8/19/2013	WNV	Recent	RT-PCR
Merced	Merced MAD	Atwater	95301	American Crow	8/19/2013	WNV	Recent	RT-PCR
Merced	Merced MAD	Gustine	95322	Yellow-billed Magpie	8/16/2013	WNV	Recent	RT-PCR
Nevada	Nevada EH-Nevada City	Penn Valley	95946	Yellow-billed Magpie	8/14/2013	WNV	Recent	RT-PCR
Nevada	Nevada EH-Nevada City	Penn Valley	95946	Western Scrub-Jay	8/15/2013	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Seal Beach	90740	American Crow	8/14/2013	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92646	Cooper's Hawk	8/14/2013	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	8/15/2013	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim Hills	92807	House Finch	8/16/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Auburn	95603	American Crow	8/13/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	American Robin	8/20/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	House Finch	8/12/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95661	House Finch	8/18/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95678	House Finch	8/7/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95678	Western Scrub-Jay	8/8/2013	WNV	Recent	RT-PCR
Riverside	Coachella Valley MVCD	Rancho Mirage	92270	Anna's Hummingbird	8/15/2013	WNV	Chronic	RT-PCR
Riverside	NW Mosquito VCD	Riverside	92505	American Crow	8/21/2013	WNV	Recent	RT-PCR
Riverside	Riverside VCP	Hemet	92544	American Crow	8/19/2013	WNV	Recent	RT-PCR
Riverside	Riverside VCP	Hemet	92545	American Crow	8/14/2013	WNV	Recent	RT-PCR
Riverside	Riverside VCP	Sun City	92586	American Crow	8/19/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	House Finch	8/16/2013	WNV	Recent	RT-PCR

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Sacramento	Sac-Yolo MVCD	Sacramento	95818	American Crow	8/13/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95818	American Crow	8/14/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95819	American Robin	8/14/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95826	Common Raven	8/15/2013	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Redlands	92374	American Crow	8/19/2013	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Yucaipa	92399	American Crow	8/18/2013	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Yucaipa	92399	American Crow	8/15/2013	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Ontario	91761	American Crow	8/15/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Tracy	95304	American Crow	8/14/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Tracy	95304	American Crow	8/18/2013	WNV	Recent	RT-PCR
San Luis Obispo	San Luis Obispo AS	Paso Robles	93446	Western Scrub-Jay	8/19/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	Milpitas	95035	American Crow	8/15/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95112	American Crow	8/15/2013	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95116	American Crow	8/9/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95123	American Crow	8/20/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95126	American Crow	8/18/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95131	American Crow	8/15/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95131	American Crow	8/15/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95133	American Crow	8/19/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Redding	96001	Western Gray Squirrel	8/19/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Anderson	96007	Western Scrub-Jay	8/15/2013	WNV	Recent	RT-PCR
Sonoma	Marin-Sonoma MVCD	Windsor	95492	Western Scrub-Jay	8/19/2013	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95380	Yellow-billed Magpie	8/20/2013	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95380	Yellow-billed Magpie	8/15/2013	WNV	Recent	RT-PCR
Tehama	Tehama MVCD	Red Bluff	96080	Western Scrub-Jay	8/15/2013	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Simi Valley	93065	American Crow	8/19/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	Yellow-billed Magpie	8/19/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	8/13/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	House Finch	8/19/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	West Sacramento	95691	American Crow	8/19/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	West Sacramento	95691	American Crow	8/15/2013	WNV	Recent	RT-PCR

### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus	Method
Contra Costa	CNTR1988	275	Cx. tarsalis	Brentwood	28	CO2	8/27/13	WNV	RTPCR
Contra Costa	CNTR1988	277	Cx. pipiens	Brentwood	11	CO2	8/27/13	WNV	RTPCR
Fresno	CNSL6030	658	Cx. quinquefasciatus	Riverdale	50	CO2	8/21/13	WNV	RTPCR
Fresno	CNSL6128	664	Cx. tarsalis	Riverdale	44	CO2	8/27/13	WNV	RTPCR
Fresno	CNSL6142	657	Cx. quinquefasciatus	Riverdale	50	CO2	8/21/13	WNV	RTPCR
Fresno	FRWS200002	107	Cx. quinquefasciatus	Firebaugh	22	CO2	8/27/13	WNV	RTPCR
Kern	DLNO0004	58	Cx. quinquefasciatus	Delano	18	GRVD	8/26/13	WNV	RTPCR
Kern	KERN1005	380	Cx. quinquefasciatus	Bakersfield	31	GRVD	8/20/13	WNV	RTPCR
Kern	KERN0011	378	Cx. quinquefasciatus	Bakersfield	26	CO2	8/16/13	WNV	RTPCR
Kern	KERN1160	369	Cx. quinquefasciatus	Shafter	21	CO2	8/15/13	WNV	RTPCR
Kern	KERN0118	384	Cx. quinquefasciatus	Buttonwillow	28	CO2	8/21/13	WNV	RTPCR
Kern	KERN0156	363	Cx. tarsalis	Butttonwillow	50	CO2	8/13/13	WNV	RTPCR
Kern	KERN2021	368	Cx. quinquefasciatus	Wasco	40	GRVD	8/15/13	WNV	RTPCR
Kern	KERN2021	385	Cx. quinquefasciatus	Wasco	50	GRVD	8/22/13	WNV	RTPCR
Kern	KERN2022	386	Cx. quinquefasciatus	Shafter	25	GRVD	8/22/13	WNV	RTPCR
Kern	KERN3004	373	Cx. tarsalis	Bakersfield	23	CO2	8/16/13	WNV	RTPCR

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Kern	KERN3024	377	Cx. tarsalis	Bakersfield	50	CO2	8/16/13	WNV	RTPCR
Kern	KERN3025	391	Cx. quinquefasciatus	Bakersfield93313	50	CO2	8/23/13	WNV	RTPCR
Kern	KERN3026	390	Cx. tarsalis	Arvin93203	37	CO2	8/23/13	WNV	RTPCR
Kern	KERN3028	375	Cx. quinquefasciatus	Bakersfield	50	CO2	8/16/13	WNV	RTPCR
Kern	KERN3029	383	Cx. tarsalis	Buttonwillow	34	CO2	8/21/13	WNV	RTPCR
Kern	KERN3030	372	Cx. quinquefasciatus	Shafter	50	CO2	8/15/13	WNV	RTPCR
Kern	KERN3030	387	Cx. quinquefasciatus	Shafter	24	CO2	8/22/13	WNV	RTPCR
Kern	KERN3031	389	Cx. tarsalis	Shafter	50	CO2	8/22/13	WNV	RTPCR
Kern	KERN0046	388	Cx. quinquefasciatus	Wasco	29	CO2	8/22/13	WNV	RTPCR
Kern	WEST6200	153	Cx. quinquefasciatus	Taft	44	GRVD	8/28/13	WNV	RTPCR
Kern	WEST6212	115	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	116	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	117	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	118	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	119	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	120	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	121	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	122	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	123	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	124	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	125	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	126	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	127	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	128	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	129	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	130	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	131	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	132	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	133	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	134	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	135	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	136	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	137	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	138	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	139	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	140	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	141	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	142	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	143	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6212	144	Cx. tarsalis	Maricopa	21	CO2	8/28/13	WNV	RTPCR
Kern	WEST6230	145	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6230	146	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6230	147	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6230	148	Cx. tarsalis	Maricopa	50	CO2	8/28/13	WNV	RTPCR
Kern	WEST6231	150	Cx. quinquefasciatus	Taft	50	GRVD	8/28/13	WNV	RTPCR
Kings	KNGS3004	254	Cx. tarsalis	Lemoore	50	CO2	8/18/13	WNV	RTPCR
Kings	KNGS3004	255	Cx. tarsalis	Lemoore	39	CO2	8/18/13	WNV	RTPCR
Kings	KNGS3004	256	Cx. erythrothorax	Lemoore	44	CO2	8/18/13	WNV	RTPCR
Kings	KNGS3018	267	Cx. tarsalis	Lemoore	50	CO2	8/20/13	WNV	RTPCR
Kings	KNGS3018	268	Cx. tarsalis	Lemoore	50	CO2	8/20/13	WNV	RTPCR
Kings	KNGS3018	270	Cx. tarsalis	Lemoore	37	CO2	8/20/13	WNV	RTPCR
Kings	KNGS3022	277	Cx. erythrothorax	Hanford	11	CO2	8/20/13	WNV	RTPCR
Kings	KNGS3046	263	Cx. pipiens	Hanford	50	CO2	8/20/13	WNV	RTPCR
Kings	KNGS3077	259	Cx. tarsalis	Hanford	45	CO2	8/18/13	WNV	RTPCR

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Kings	KNGS3083	283	Cx. tarsalis	Lemoore	27	CO2	8/22/13	WNV	RTPCR
Kings	KNGS4001	261	Cx. tarsalis	Hanford	11	CO2	8/18/13	WNV	RTPCR
Lake	LAKE1508	339	Cx. stigmatosoma	Kelseyville	15	REST	8/28/13	WNV	RTPCR
Lake	LAKE0080	334	Cx. tarsalis		50	CO2	8/27/13	WNV	RTPCR
Lake	LAKE0080	335	Cx. tarsalis		50	CO2	8/27/13	WNV	RTPCR
Lake	LAKE0084	332	Cx. tarsalis		50	CO2	8/27/13	WNV	RTPCR
Lake	LAKE0093	327	Cx. tarsalis		50	CO2	8/27/13	WNV	RTPCR
Lake	LAKE0094	324	Cx. tarsalis		50	CO2	8/27/13	WNV	RTPCR
Los Angeles	ANTV3202	16	Cx. quinquefasciatus	Lancaster	50	CO2	8/27/13	WNV	RTPCR
Los Angeles	ANTV4374	24	Cx. tarsalis	Lancaster	50	CO2	8/27/13	WNV	RTPCR
Los Angeles	ANTV7263	21	Cx. tarsalis	Lancaster	50	CO2	8/27/13	WNV	RTPCR
Los Angeles	GRLA2021	5908	Cx. quinquefasciatus	Reseda	40	GRVD	8/22/13	WNV	RTPCR
Los Angeles	GRLA2031	5911	Cx. quinquefasciatus	Northridge	50	GRVD	8/22/13	WNV	RTPCR
Los Angeles	GRLA2032	5910	Cx. quinquefasciatus	Northridge	50	GRVD	8/22/13	WNV	RTPCR
Los Angeles	GRLA2034	5906	Cx. quinquefasciatus	Tarzana	50	GRVD	8/22/13	WNV	RTPCR
Los Angeles	GRLA2101	840	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	8/22/13	WNV	RTPCR
Los Angeles	GRLA2166	837	Cx. quinquefasciatus	Montebello	50	GRVD	8/22/13	WNV	RTPCR
Los Angeles	GRLA2194	814	Cx. quinquefasciatus	South El Monte	50	GRVD	8/20/13	WNV	RTPCR
Los Angeles	GRLA2196	815	Cx. quinquefasciatus	South El Monte	31	GRVD	8/20/13	WNV	RTPCR
Los Angeles	GRLA2247	839	Cx. quinquefasciatus	Pico Rivera	50	GRVD	8/22/13	WNV	RTPCR
Los Angeles	GRLA2268	847	Cx. quinquefasciatus	Cerritos	50	GRVD	8/22/13	WNV	RTPCR
Los Angeles	GRLA2346	836	Cx. quinquefasciatus	Montebello	24	GRVD	8/22/13	WNV	RTPCR
Los Angeles	GRLA2550	5918	Cx. quinquefasciatus	Mission Hills	50	GRVD	8/23/13	WNV	RTPCR
Los Angeles	GRLA2554	5895	Cx. quinquefasciatus	Winnetka	50	GRVD	8/21/13	WNV	RTPCR
Los Angeles	GRLA2635	5904	Cx. quinquefasciatus	Van Nuys	50	GRVD	8/22/13	WNV	RTPCR
Los Angeles	GRLA2636	5903	Cx. quinquefasciatus	Van Nuys	50	GRVD	8/22/13	WNV	RTPCR
Los Angeles	GRLA2889	853	Cx. quinquefasciatus	Lakewood	27	GRVD	8/23/13	WNV	RTPCR
Los Angeles	GRLA2890	854	Cx. quinquefasciatus	Lakewood	14	GRVD	8/23/13	WNV	RTPCR
Los Angeles	GRLA2953	844	Cx. quinquefasciatus	Santa Fe Springs	44	GRVD	8/22/13	WNV	RTPCR
Los Angeles	GRLA3029	5917	Cx. quinquefasciatus	Arleta	50	GRVD	8/23/13	WNV	RTPCR
Los Angeles	GRLA3042	818	Cx. quinquefasciatus	Hacienda Heights	30	GRVD	8/20/13	WNV	RTPCR
Los Angeles	GRLA3044	816	Cx. quinquefasciatus	South El Monte	50	GRVD	8/20/13	WNV	RTPCR
Los Angeles	GRLA3045	825	Cx. quinquefasciatus	Whittier	50	GRVD	8/20/13	WNV	RTPCR
Los Angeles	GRLA3048	838	Cx. quinquefasciatus	Pico Rivera	50	GRVD	8/22/13	WNV	RTPCR
Los Angeles	GRLA3051	852	Cx. quinquefasciatus	Signal Hill	50	GRVD	8/23/13	WNV	RTPCR
Los Angeles	GRLA3074	834	Cx. quinquefasciatus	Lincoln Heights	50	GRVD	8/21/13	WNV	RTPCR
Madera	MADR1078	65	Cx. tarsalis		12	CO2	8/20/13	WNV	RTPCR
Madera	MADR0097	69	Cx. quinquefasciatus	Madera Ranchos	30	CO2	8/22/13	WNV	RTPCR
Placer	PLCR1070	1511	Cx. tarsalis	Roseville	50	CO2	8/27/13	WNV	RTPCR
Placer	PLCR1070	1512	Cx. tarsalis	Roseville	37	CO2	8/27/13	WNV	RTPCR
Placer	PLCR1113	1546	An. freeborni	Pleasant Grove	50	CO2	8/28/13	WNV	RTPCR
Placer	PLCR1113	1553	Cx. tarsalis	Pleasant Grove	50	CO2	8/28/13	WNV	RTPCR
Placer	PLCR0668	1516	Cx. tarsalis	Elverta	18	CO2	8/27/13	WNV	RTPCR
Placer	PLCR0670	1539	Cx. stigmatosoma	Loomis	3	CO2	8/28/13	WNV	RTPCR
Placer	PLCR0081	1499	Cx. tarsalis	Roseville	1	CO2	8/27/13	WNV	RTPCR
Placer	PLCR0086	1556	Cx. tarsalis	Rocklin	4	CO2	8/28/13	WNV	RTPCR
Placer	PLCR0088	1531	Cx. tarsalis	Lincoln	37	CO2	8/28/13	WNV	RTPCR
Riverside	COAV0604	1204	Cx. quinquefasciatus	Palm Springs	10	GRVD	8/21/13	WNV	RTPCR
Sacramento	SAYO201006	4611	Cx. tarsalis	Sacramento	50	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO201009	4625	Cx. tarsalis	Sacramento	50	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO202024	4556	Cx. pipiens	Sacramento, CA	7	GRVD	8/22/13	WNV	RTPCR
Sacramento	SAYO202025	4559	Cx. pipiens	Sacramento, CA	14	GRVD	8/22/13	WNV	RTPCR
Sacramento	SAYO203008	4714	Cx. pipiens	Elverta	3	GRVD	8/27/13	WNV	RTPCR
Sacramento	SAYO212002	4622	Cx. pipiens	Sacramento	50	GRVD	8/23/13	WNV	RTPCR

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Sacramento	SAYO212002	4624	Cx. pipiens	Sacramento	12	GRVD	8/23/13	WNV	RTPCR
Sacramento	SAYO213017	4784	Cx. pipiens	Sacramento	11	GRVD	8/27/13	WNV	PCR
Sacramento	SAYO222015	4725	Cx. pipiens	Sacramento	20	CO2	8/27/13	WNV	RTPCR
Sacramento	SAYO222028	4759	Cx. tarsalis	Sacramento	3	GRVD	8/27/13	WNV	PCR
Sacramento	SAYO232017	4737	Cx. pipiens	Elk Grove	15	GRVD	8/27/13	WNV	RTPCR
Sacramento	SAYO234013	4741	Cx. tarsalis	Elk Grove	12	CO2	8/27/13	WNV	RTPCR
Sacramento	SAYO234013	4742	Cx. pipiens	Elk Grove	6	CO2	8/27/13	WNV	RTPCR
Sacramento	SAYO242012	4544	Cx. tarsalis	Elk Grove	14	CO2	8/20/13	WNV	RTPCR
Sacramento	SAYO244006	4597	Cx. tarsalis	Wilton	22	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO245002	4591	Cx. tarsalis	Wilton	20	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO245002	4592	Cx. pipiens	Wilton	4	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO245002	4593	Cx. pipiens	Wilton	1	GRVD	8/23/13	WNV	RTPCR
Sacramento	SAYO254021	4567	Cx. tarsalis	Galt	19	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO254021	4568	Cx. pipiens	Galt	44	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO254024	4584	Cx. tarsalis	Galt	50	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO254024	4585	Cx. tarsalis	Galt	28	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO254024	4586	Cx. tarsalis	Galt	1	GRVD	8/23/13	WNV	RTPCR
Sacramento	SAYO254024	4587	Cx. tarsalis	Galt	33	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO255003	4581	Cx. tarsalis	Herald	7	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO255003	4582	Cx. pipiens	Herald	15	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO255003	4583	Cx. pipiens	Herald	3	GRVD	8/23/13	WNV	RTPCR
Sacramento	SAYO255007	4574	Cx. tarsalis	Herald	50	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO255007	4575	Cx. tarsalis	Herald	50	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO255007	4577	Cx. tarsalis	Herald	27	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO261003	4640	Cx. pipiens	Isleton	26	CO2	8/23/13	WNV	RTPCR
Sacramento	SAYO261003	4641	Cx. pipiens	Isleton	3	GRVD	8/23/13	WNV	RTPCR
Sacramento	SAYO271007	4647	Cx. pipiens	Isleton	4	GRVD	8/23/13	WNV	RTPCR
Sacramento	SAYO280001	4649	Cx. tarsalis	Rio Vista	1	GRVD	8/23/13	WNV	RTPCR
San Bernardino	WVAL2013	937	Cx. erythrothorax	Chino Hills	7	CO2	8/20/13	WNV	RTPCR
San Bernardino	WVAL2018	988	Cx. quinquefasciatus	Chino	29	GRVD	8/27/13	WNV	RTPCR
San Bernardino	WVAL2021	957	Cx. quinquefasciatus	Fwy CA 71	50	GRVD	8/27/13	WNV	RTPCR
San Bernardino	WVAL5005	913	Cx. quinquefasciatus	Rancho Cucamonga	29	GRVD	8/20/13	WNV	RTPCR
San Bernardino	WVAL5005	986	Cx. quinquefasciatus	Rancho Cucamonga	37	GRVD	8/27/13	WNV	RTPCR
San Bernardino	WVAL5007	994	Cx. quinquefasciatus	Rancho Cucamonga	13	GRVD	8/27/13	WNV	RTPCR
San Bernardino	WVAL6001	983	Cx. quinquefasciatus	Ontario	19	GRVD	8/27/13	WNV	RTPCR
San Bernardino	WVAL6004	884	Cx. quinquefasciatus	Ontario	50	GRVD	8/15/13	WNV	RTPCR
San Bernardino	WVAL6004	885	Cx. quinquefasciatus	Ontario	50	GRVD	8/15/13	WNV	RTPCR
San Bernardino	WVAL6004	887	Cx. quinquefasciatus	Ontario	34	GRVD	8/15/13	WNV	RTPCR
San Bernardino	WVAL6004	888	Cx. quinquefasciatus	Ontario	38	GRVD	8/15/13	WNV	RAMP
San Bernardino	WVAL6004	889	Cx. stigmatosoma	Ontario	4	GRVD	8/15/13	WNV	RAMP
San Bernardino	WVAL6004	890	Cx. quinquefasciatus	Ontario	50	GRVD	8/16/13	WNV	RTPCR
San Bernardino	WVAL6004	891	Cx. quinquefasciatus	Ontario	50	GRVD	8/16/13	WNV	RTPCR
San Bernardino	WVAL6004	892	Cx. quinquefasciatus	Ontario	50	GRVD	8/16/13	WNV	RTPCR
San Bernardino	WVAL6004	894	Cx. quinquefasciatus	Ontario	50	GRVD	8/16/13	WNV	RTPCR
San Bernardino	WVAL6004	895	Cx. quinquefasciatus	Ontario	50	GRVD	8/16/13	WNV	RTPCR
San Bernardino	WVAL6004	896	Cx. quinquefasciatus	Ontario	50	GRVD	8/16/13	WNV	RTPCR
San Bernardino	WVAL6004	897	Cx. quinquefasciatus	Ontario	48	GRVD	8/16/13	WNV	RTPCR
San Bernardino	WVAL6004	899	Cx. quinquefasciatus	Ontario	43	GRVD	8/16/13	WNV	RTPCR
San Bernardino	WVAL6004	901	Cx. quinquefasciatus	Ontario	45	GRVD	8/16/13	WNV	RTPCR
San Bernardino	WVAL6004	902	Cx. quinquefasciatus	Ontario	10	GRVD	8/16/13	WNV	RTPCR
San Bernardino	WVAL6004	927	Cx. quinquefasciatus	Ontario	16	GRVD	8/20/13	WNV	RTPCR
San Bernardino	WVAL6004	928	Cx. quinquefasciatus	Ontario	20	GRVD	8/20/13	WNV	RTPCR
San Bernardino	WVAL6004	930	Cx. quinquefasciatus	Ontario	50	GRVD	8/20/13	WNV	RTPCR
San Bernardino	WVAL6004	932	Cx. quinquefasciatus	Ontario	50	GRVD	8/20/13	WNV	RTPCR



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San Bernardino	WVAL6004	940	Cx. quinquefasciatus	Ontario	50	GRVD	8/21/13	WNV	RTPCR
San Bernardino	WVAL6004	944	Cx. quinquefasciatus	Ontario	50	GRVD	8/21/13	WNV	RTPCR
San Bernardino	WVAL6004	945	Cx. quinquefasciatus	Ontario	50	GRVD	8/21/13	WNV	RTPCR
San Bernardino	WVAL6004	946	Cx. quinquefasciatus	Ontario	48	GRVD	8/21/13	WNV	RTPCR
San Bernardino	WVAL6004	948	Cx. quinquefasciatus	Ontario	50	GRVD	8/22/13	WNV	RTPCR
San Bernardino	WVAL6004	951	Cx. quinquefasciatus	Ontario	42	GRVD	8/22/13	WNV	RTPCR
San Bernardino	WVAL6004	952	Cx. quinquefasciatus	Ontario	28	GRVD	8/23/13	WNV	RTPCR
San Bernardino	WVAL6004	953	Cx. quinquefasciatus	Ontario	50	GRVD	8/23/13	WNV	RTPCR
San Bernardino	WVAL6004	954	Cx. quinquefasciatus	Ontario	10	GRVD	8/23/13	WNV	RTPCR
San Bernardino	WVAL6004	960	Cx. quinquefasciatus	Ontario	17	GRVD	8/27/13	WNV	RTPCR
San Bernardino	WVAL6004	961	Cx. quinquefasciatus	Ontario	48	GRVD	8/27/13	WNV	RTPCR
San Bernardino	WVAL6004	963	Cx. quinquefasciatus	Ontario	36	GRVD	8/27/13	WNV	RTPCR
San Bernardino	WVAL6004	969	Cx. quinquefasciatus	Ontario	50	GRVD	8/27/13	WNV	RTPCR
San Bernardino	WVAL6004	971	Cx. quinquefasciatus	Ontario	11	GRVD	8/27/13	WNV	RTPCR
San Bernardino	WVAL6004	1002	Cx. quinquefasciatus	Ontario	50	GRVD	8/28/13	WNV	RTPCR
San Bernardino	WVAL6004	1003	Cx. quinquefasciatus	Ontario	36	GRVD	8/28/13	WNV	RTPCR
San Bernardino	WVAL6004	1007	Cx. quinquefasciatus	Ontario	44	GRVD	8/28/13	WNV	RTPCR
San Bernardino	WVAL6009	880	Cx. quinquefasciatus	Ontario	50	GRVD	8/15/13	WNV	RTPCR
San Bernardino	WVAL6009	881	Cx. quinquefasciatus	Ontario	25	GRVD	8/15/13	WNV	RTPCR
San Bernardino	WVAL6009	929	Cx. quinquefasciatus	Ontario	48	GRVD	8/20/13	WNV	RTPCR
San Bernardino	WVAL7001	977	Cx. quinquefasciatus	Montclair	12	GRVD	8/27/13	WNV	RTPCR
San Joaquin	SJCM7016	1150	Cx. pipiens	Tracy	1	GRVD	8/27/13	WNV	RTPCR
San Joaquin	SJCM7023	1152	Cx. pipiens	Stockton	5	GRVD	8/27/13	WNV	RTPCR
San Joaquin	SJCM8005	1130	Cx. tarsalis	Stockton	17	CO2	8/27/13	WNV	RTPCR
San Joaquin	SJCM8010	1143	Cx. pipiens	Ripon	51	CO2	8/27/13	WNV	RTPCR
San Joaquin	SJCM8026	1116	Cx. tarsalis	Stockton	41	CO2	8/27/13	WNV	RTPCR
San Joaquin	SJCM8079	1104	Cx. pipiens	Manteca	50	CO2	8/27/13	WNV	RTPCR
San Joaquin	SJCM8079	1105	Cx. pipiens	Manteca	15	CO2	8/27/13	WNV	RTPCR
San Joaquin	SJCM8083	1120	Cx. pipiens	Escalon	53	CO2	8/27/13	WNV	RTPCR
San Joaquin	SJCM8124	1157	Cx. tarsalis	Clements	26	CO2	8/29/13	WNV	RTPCR
San Joaquin	SJCM8124	1158	Cx. pipiens	Clements	9	CO2	8/29/13	WNV	RTPCR
San Joaquin	SJCM8143	1110	Cx. tarsalis	Stockton	50	CO2	8/27/13	WNV	RTPCR
San Joaquin	SJCM8160	1106	Cx. tarsalis	Lodi	50	CO2	8/27/13	WNV	RTPCR
San Joaquin	SJCM8161	1133	Cx. pipiens	Ripon	50	CO2	8/27/13	WNV	RTPCR
San Joaquin	SJCM8161	1134	Cx. pipiens	Ripon	50	CO2	8/27/13	WNV	RTPCR
San Joaquin	SJCM8161	1135	Cx. pipiens	Ripon	50	CO2	8/27/13	WNV	RTPCR
San Joaquin	SJCM8189	1155	Cx. tarsalis	Acampo	6	CO2	8/29/13	WNV	RTPCR
San Joaquin	SJCM8191	1096	Cx. tarsalis	Lodi	50	CO2	8/27/13	WNV	RTPCR
Santa Clara	STCL3297	4867	Cx. pipiens	San Jose	25	CO2	8/20/13	WNV	RTPCR
Santa Clara	STCL3458	4891	Cx. tarsalis	San Jose	25	CO2	8/21/13	WNV	RTPCR
Santa Clara	STCL3473	4896	Cx. tarsalis	San Jose	13	CO2	8/22/13	WNV	RTPCR
Santa Cruz	SCRZ252	2	Cx. pipiens	Watsonville	7	CO2	8/8/13	WNV	RTPCR
Shasta	SHAS10010	224	Cx. tarsalis	Anderson	22	CO2	8/28/13	WNV	RTPCR
Shasta	SHAS10050	195	Cx. tarsalis	Cottonwood	19	CO2	8/20/13	WNV	RTPCR
Shasta	SHAS10140	194	Cx. tarsalis		44	CO2	8/20/13	WNV	RTPCR
Shasta	SHAS0110	201	Cx. tarsalis		50	CO2	8/20/13	WNV	RTPCR
Shasta	SHAS0148	198	Cx. tarsalis		50	CO2	8/20/13	WNV	RTPCR
Shasta	SHAS0148	199	Cx. tarsalis		45	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK1313	593	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK1329	638	Cx. tarsalis	Modesto	50	CO2	8/22/13	WNV	RTPCR
Stanislaus	TRLK1329	667	Cx. pipiens	Modesto	44	CO2	8/27/13	WNV	RTPCR
Stanislaus	TRLK1329	670	Cx. pipiens	Modesto	18	CO2	8/27/13	WNV	RTPCR
Stanislaus	TRLK307	654	Cx. tarsalis	Grayson	50	CO2	8/27/13	WNV	RTPCR
Stanislaus	TRLK417	523	Cx. pipiens	Turlock	44	CO2	8/15/13	WNV	RTPCR

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Stanislaus	TRLK417	622	Cx. pipiens	Turlock	11	CO2	8/22/13	WNV	RTPCR
Stanislaus	TRLK432	572	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK432	583	Cx. tarsalis	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK704	621	Cx. pipiens	Turlock	47	CO2	8/22/13	WNV	RTPCR
Sutter	SUYA0103	404	Cx. tarsalis	Yuba City	5	CO2	8/26/13	WNV	RTPCR
Tulare	DLNO10	60	Cx. quinquefasciatus	Earlimart	50	GRVD	8/26/13	WNV	RTPCR
Tulare	DLTA7315	412	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	365	Cx. quinquefasciatus	Traver	50	CO2	8/22/13	WNV	RTPCR
Tulare	DLTA7316	367	Cx. quinquefasciatus	Traver	50	CO2	8/22/13	WNV	RTPCR
Tulare	DLTA7316	369	Cx. tarsalis	Traver	30	CO2	8/22/13	WNV	RTPCR
Tulare	DLTA7316	377	Cx. quinquefasciatus	Traver	50	CO2	8/22/13	WNV	RTPCR
Tulare	DLTA7316	379	Cx. quinquefasciatus	Traver	50	CO2	8/22/13	WNV	RTPCR
Tulare	DLTA7316	380	Cx. quinquefasciatus	Traver	43	CO2	8/22/13	WNV	RTPCR
Tulare	DLTA7316	400	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	401	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	402	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	403	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	409	Cx. tarsalis	Traver	12	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	414	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	415	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	416	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	417	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	419	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	420	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	422	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	423	Cx. quinquefasciatus	Traver	31	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	425	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	426	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	427	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	428	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	429	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	430	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	431	Cx. quinquefasciatus	Traver	46	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7321	433	Cx. quinquefasciatus	Traver	34	CO2	8/29/13	WNV	RTPCR
Tulare	TLRE101	46	Cx. pipiens	Tulare	50	CO2	8/27/13	WNV	RTPCR
Tulare	TLRE18	49	Cx. pipiens	Tulare	36	CO2	8/27/13	WNV	RTPCR
Tulare	TLRE80	51	Cx. pipiens	Tulare	25	CO2	8/27/13	WNV	RTPCR
Yolo	SAYO103005	4664	Cx. tarsalis	Dunnigan	50	CO2	8/23/13	WNV	RTPCR
Yolo	SAYO103005	4665	Cx. tarsalis	Dunnigan	18	CO2	8/23/13	WNV	RTPCR
Yolo	SAYO103005	4666	Cx. tarsalis	Dunnigan	1	GRVD	8/23/13	WNV	RTPCR
Yolo	SAYO103005	4667	Cx. pipiens	Dunnigan	17	CO2	8/23/13	WNV	RTPCR
Yolo	SAYO103007	4686	Cx. tarsalis	Dunnigan	50	CO2	8/23/13	WNV	RTPCR
Yolo	SAYO103007	4687	Cx. tarsalis	Dunnigan	26	CO2	8/23/13	WNV	RTPCR
Yolo	SAYO103007	4688	Cx. tarsalis	Dunnigan	3	GRVD	8/23/13	WNV	RTPCR
Yolo	SAYO103007	4689	Cx. pipiens	Dunnigan	12	CO2	8/23/13	WNV	RTPCR
Yolo	SAYO103007	4690	Cx. pipiens	Dunnigan	4	GRVD	8/23/13	WNV	RTPCR
Yolo	SAYO114002	4671	Cx. tarsalis	Zamora	50	CO2	8/23/13	WNV	RTPCR
Yolo	SAYO114002	4672	Cx. tarsalis	Zamora	50	CO2	8/23/13	WNV	RTPCR
Yolo	SAYO114002	4673	Cx. tarsalis	Zamora	50	CO2	8/23/13	WNV	RTPCR
Yolo	SAYO135016	4830	Cx. tarsalis	Woodland	50	CO2	8/27/13	WNV	RTPCR
Yolo	SAYO135016	4832	Cx. tarsalis	Woodland	50	CO2	8/27/13	WNV	RTPCR
Yolo	SAYO135016	4834	Cx. tarsalis	Woodland	50	CO2	8/27/13	WNV	RTPCR
Yolo	SAYO136010	4675	Cx. tarsalis	Woodland	50	CO2	8/23/13	WNV	RTPCR
Yolo	SAYO136010	4676	Cx. tarsalis	Woodland	50	CO2	8/23/13	WNV	RTPCR

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Yolo	SAYO136010	4678	Cx. tarsalis	Woodland	50	CO2	8/23/13	WNV	RTPCR
Yolo	SAYO136010	4679	Cx. tarsalis	Woodland	10	CO2	8/23/13	WNV	RTPCR
Yolo	SAYO136010	4680	Cx. tarsalis	Woodland	1	GRVD	8/23/13	WNV	RTPCR
Yolo	SAYO144002	4691	Cx. tarsalis	Davis	50	CO2	8/23/13	WNV	RTPCR
Yolo	SAYO145016	4813	Cx. pipiens	Davis	7	CO2	8/27/13	WNV	PCR
Yuba	SUYA0008	406	Cx. tarsalis	Marysville	40	CO2	8/26/13	WNV	RTPCR

### Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Lake	LAKE1000	Upper Lake	8/26/2013	WNV	1268	1270	1271	
Los Angeles	ANTV3247	Lancaster	8/21/2013	WNV	3602	3605		
Los Angeles	ANTV7263	Lancaster	8/21/2013	WNV	3657			
Los Angeles	GRLA2465	Los Feliz	8/19/2013	WNV	2601	2602	2607	
Los Angeles	GRLA2651	Encino	8/19/2013	WNV	2624	2627		
Los Angeles	LACW1003	Redondo Beach	8/8/2013	WNV	1313	1314	1316	
Los Angeles	LACW1004	Lawndale	8/6/2013	WNV	1324			
Los Angeles	LACW1010	Los Angeles(Miracle Mile)	8/8/2013	WNV	1350	1351	1352	1353
Los Angeles	LONG0002	Long Beach	8/19/2013	WNV	3063	3064		
Los Angeles	LONG0004	Long Beach	8/19/2013	WNV	3084	3085	3090	
Placer	PLCR0669	Auburn	8/12/2013	WNV	1611			
Placer	PLCR0095	Lincoln	8/12/2013	WNV	1616			
Riverside	COAV0122	Mecca	8/19/2013	WNV	3183	3185		
Riverside	COAV0035	Mecca	8/19/2013	WNV	3145			
Riverside	NWST9401	Corona	8/20/2013	WNV	3984	3985		
San Bernardino	SANB0001	Needles	8/20/2013	WNV	3301			
Yolo	SAYO116006	Knights Landing	8/15/2013	WNV	2161			

## 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.westmile.ca.gov](http://www.westmile.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.westmilemaps.usgs.gov](http://www.westmilemaps.usgs.gov)*