

California Arbovirus Surveillance Bulletin #27

Week 36 Friday, September 6, 2013



WEEKLY UPDATE

Human Cases

A total of 15 new cases of West Nile virus (WNV) illness were reported this week from 6 counties: Fresno (1), Glenn (1), Kern (2), Los Angeles (8), Solano (1), and Sutter (2). As of September 3, 2013, a total of 101 cases of WNV illness have been reported in 23 counties. Of the 101 case-patients, 70 (69%) had neuroinvasive illness. The median age of the 101 individuals for whom data are available is 57 years (range: 11-91 years); 61 (60%) are male. Dates of symptom onset range from June 20 to August 20, 2013. Six WNV-related fatalities have been reported in Sacramento (1), Los Angeles (3), 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, 75 cases had been reported from 17 counties.

National Comments: : As of September 3, 2013, 497 cases had been reported nationwide from 36 states. Of these, 243 (49%) were classified as neuroinvasive disease, and 20 (4%) 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, 10 horses had tested positive for WNV from 8 counties.

Dead Birds & Squirrels

A total of 79 WNV positive birds were reported this week from the following 16 counties: Alameda (1), Butte (3), Contra Costa (6), Fresno (3), Los Angeles (23), Merced (3), Napa (1), Sacramento (15), San Bernardino (5), San Joaquin (1), Santa Clara (4), Shasta (2), Sonoma (1), Stanislaus (2), Yolo (7), and Yuba (2). Two tree squirrels from Los Angeles and Ventura counties tested positive for WNV this week; this is the first WNV positive tree squirrel from Ventura County this year. An additional 4 dead birds tested positive for chronic WNV infection. In 2013, 982 dead birds have tested positive for WNV from 38 counties and 7 dead squirrels have tested positive for WNV from 5 counties. At this time last year, 1,086 dead birds and 8 tree squirrels had tested positive for recent WNV infection from 31 and 5 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. Please contact Leslie Foss at 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, or Gateway.*

Mosquito Pools

A total of 231 WNV positive mosquito pools were reported this week from 16 counties: Fresno (9), Kern (12), Kings (5), Lake (7), Los Angeles (34), Orange (2), Placer (2), Riverside (12), Sacramento (20), San Bernardino (10), San Joaquin (21), Santa Clara (2), Shasta (2), Stanislaus (73), Tulare (17), and Yolo (3). In 2013, 2,085 mosquito pools from 26 counties have tested positive for WNV. At this time last year, 2,080 mosquito pools from 28 counties had tested positive for WNV.

Sentinel Chickens

A total of 54 sentinel chickens tested positive for WNV antibodies this week from 34 flocks in 15 counties: Butte (11), Contra Costa (1), Kern (4), Los Angeles (14), Madera (2), Merced (3), Placer (4), Sacramento (2), Santa Clara (1), Shasta (2), Solano (2), Sonoma (1), Sutter (3), Tehama (3), and Yolo (1). **These are the first WNV seroconversions detected in Madera, Santa Clara, and Sonoma counties this year.** In 2013, 316 WNV antibody-positive chickens have been detected among 80 flocks in 23 counties. At this time last year, 276 WNV antibody-positive chickens had been detected among 70 flocks in 17 counties.

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YTD WNV Activity by Element and County, 2013						
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			13			
Butte	8		42	29	50	
Colusa	1		1		8	
Contra Costa	2		58	12	5	1
El Dorado	1					
Fresno	3		10	54		
Glenn	5		8	16	9	
Humboldt			1			
Kern	8	1	2	152	6	
Kings			10	71		
Lake			7	59	5	
Los Angeles	43		294	317	95	3
Madera			7	14	2	
Marin	1		4		1	
Mendocino			2			
Merced			34	7	14	
Napa	1		2			
Nevada			6			
Orange	1		20	13		
Placer	1	1	25	87	10	
Riverside	3	1	18	60	18	
Sacramento	3	3	138	331	4	
San Bernardino	1		21	175	13	1
San Diego			5			
San Francisco	1					
San Joaquin	3		29	127		
San Luis Obispo			1	1		
Santa Clara	1		49	24	1	
Santa Cruz			1	1		
Shasta			29	12	8	1
Solano	2		5	1	7	
Sonoma			9		1	
Stanislaus	3	2	13	154	8	
Sutter	5		14	63	33	
Tehama			3		4	
Trinity			1			
Tulare			3	74		
Ventura	1		7			1
Yolo	3		81	219	5	
Yuba			9	12	9	
Totals	101	8	982	2,085	316	7

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2012 & 2013 YTD West Nile Virus Comparisons		
	2012	2013
Total # Dead Bird Reports	14,587	11,813
# Positive Counties	34	40
# Human Cases	75	101
# Horse Cases	10	8
# Positive Dead Birds / # Tested	1,086 / 3,016	982 / 2,762
# Positive Mosquito Pools / # Tested	2,080 / 23,996	2,085 / 23,184
# Seroconversions / # Tested	276 / 17,773	316 / 12,305
# Positive Squirrels / # Tested	8 / 102	7 / 96

TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	15	0	0	0	0	0
	YTD	101	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	128	79
	YTD	2,762	982
Tree Squirrels	Week	4	2
	YTD	96	7

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	357	54	0	0
	YTD	12,305	316	0	0
Mosquito Pools	Week	1,281	231	0	0
	YTD	23,184	2,085	0	0

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POSITIVES

Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda Co MAD	Dublin	94568	Western Scrub-Jay	8/21/2013	WNV	Recent	RT-PCR
Alameda	Contra Costa MVCD	Alameda	94501	American Crow	8/21/2013	WNV	Chronic	RT-PCR
Butte	Butte Co MVCD	Chico	95926	Western Scrub-Jay	8/20/2013	WNV	Recent	RT-PCR
Butte	Butte Co MVCD	Chico	95928	Yellow-billed Magpie	8/20/2013	WNV	Recent	RT-PCR
Butte	Butte Co MVCD	Magalia	95954	Steller's Jay	8/21/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Bethel Island	94511	American Crow	8/29/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/21/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	9/4/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Danville	94526	American Crow	9/5/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Lafayette	94549	Western Scrub-Jay	9/5/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Pittsburg	94565	Western Scrub-Jay	8/28/2013	WNV	Recent	RAMP
Fresno	Fresno MVCD	Fresno	93704	American Crow	8/29/2013	WNV	Recent	RAMP
Fresno	Fresno MVCD	Fresno	93722	American Crow	9/5/2013	WNV	Recent	RAMP
Fresno	Fresno MVCD	Fresno	93723	Western Scrub-Jay	9/5/2013	WNV	Recent	RAMP
Los Angeles	Antelope Vall. MVCD	Lancaster	93536	Common Raven	8/26/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD-Sylmar	Granada Hills	91344	American Crow	8/22/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD-Sylmar	Van Nuys	91401	House Sparrow	8/23/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD-Sylmar	Valley Village	91607	House Finch	8/20/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Los Angeles	90024	American Crow	8/20/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Culver City	90230	American Crow	8/20/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Rancho Palos Verdes	90275	American Crow	8/3/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Redondo Beach	90277	American Crow	8/16/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Redondo Beach	90277	American Crow	8/26/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Redondo Beach	90278	American Crow	8/16/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Torrance	90502	American Crow	8/14/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Long Beach	90810	American Crow	8/9/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Long Beach	90810	American Crow	8/9/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Pasadena	91101	American Crow	8/6/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	North Hills	91343	American Crow	8/18/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Valencia	91355	American Crow	8/15/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Sherman Oaks	91423	American Crow	8/20/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Encino	91436	Western Scrub-Jay	8/12/2013	WNV	Recent	RT-PCR
Los Angeles	LA West	Torrance	90505	Fox Squirrel	8/21/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90232	American Crow	8/26/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Rancho Palos Verdes	90275	Common Raven	8/21/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Redondo Beach	90278	American Crow	8/21/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Lomita	90717	Common Raven	8/25/2013	WNV	Chronic	RT-PCR
Los Angeles	San Gabriel Vall. MVCD	Claremont	91711	American Crow	9/4/2013	WNV	Recent	RAMP
Los Angeles	San Gabriel Vall. MVCD	El Monte	91732	American Crow	8/26/2013	WNV	Recent	RAMP
Merced	Merced Co MAD	Atwater	95301	Western Scrub-Jay	8/25/2013	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Atwater	95301	American Crow	8/22/2013	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Atwater	95301	American Crow	8/26/2013	WNV	Recent	RT-PCR
Napa	Napa Co MAD	Napa	94558	Western Scrub-Jay	8/21/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	Yellow-billed Magpie	8/26/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95621	American Crow	8/28/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	American Crow	8/23/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Folsom	95630	American Crow	8/23/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Scrub-Jay	8/25/2013	WNV	Recent	RT-PCR

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Sacramento	Sac-Yolo MVCD	Galt	95632	American Robin	8/25/2013	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	8/18/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	8/18/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95757	American Robin	8/20/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95816	American Crow	8/22/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95818	American Crow	8/25/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95819	House Finch	8/22/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95828	Western Scrub-Jay	8/23/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95828	Western Scrub-Jay	9/6/2013	WNV	Recent	RAMP
Sacramento	Sac-Yolo MVCD	Sacramento	95829	American Goldfinch	8/24/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	8/18/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	American Crow	8/22/2013	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	Yucaipa	92399	American Crow	8/23/2013	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Chino	91710	American Crow	8/26/2013	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Rancho Cucamonga	91730	American Crow	8/26/2013	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Montclair	91763	American Crow	8/22/2013	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Ontario	91764	American Crow	8/26/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Escalon	95320	American Crow	9/4/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95008	American Crow	8/22/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	8/23/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95126	American Crow	8/22/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95136	American Crow	8/26/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Redding	96001	Western Scrub-Jay	8/23/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Redding	96001	Western Scrub-Jay	8/26/2013	WNV	Recent	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95401	Western Scrub-Jay	8/26/2013	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Oakdale	95361	House Finch	8/22/2013	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Patterson	95363	American Crow	8/23/2013	WNV	Recent	RT-PCR
Ventura	LA Co Veterinarian	Oak Park	91377	Fox Squirrel	8/15/2013	WNV	Recent	RT-PCR
Yolo	Central CAHFS	Davis	95616	American Crow	8/26/2013	WNV	Recent	RT-PCR
Yolo	Central CAHFS	Davis	95616	American Crow	8/26/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	Western Scrub-Jay	8/22/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	8/26/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	House Finch	8/21/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Rumsey	95679	Western Scrub-Jay	8/20/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	West Sacramento	95691	American Crow	8/23/2013	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Marysville	95901	American Crow	8/28/2013	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Plumas Lake	95961	American Robin	8/26/2013	WNV	Recent	RT-PCR

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus	Method
Fresno	CNSL3124	675	Cx. quinquefasciatus	Dinuba	23	GRVD	9/4/13	WNV	RTPCR
Fresno	CNSL3249	654	Cx. quinquefasciatus	Reedley	14	GRVD	8/20/13	WNV	RTPCR
Fresno	CNSL4011	650	Cx. quinquefasciatus	Fresno	50	GRVD	8/16/13	WNV	RTPCR
Fresno	CNSL4092	649	Cx. quinquefasciatus	Fowler	50	GRVD	8/16/13	WNV	RTPCR
Fresno	CNSL4161	648	Cx. quinquefasciatus	Fowler	49	GRVD	8/16/13	WNV	RTPCR
Fresno	CNSL4180	651	Cx. quinquefasciatus	Fowler	41	GRVD	8/16/13	WNV	RTPCR
Fresno	CNSL4181	653	Cx. quinquefasciatus	Fowler	50	GRVD	8/16/13	WNV	RTPCR
Fresno	CNSL5129	674	Cx. quinquefasciatus	Kingsburg	50	GRVD	8/30/13	WNV	RTPCR
Fresno	CNSL6125	645	Cx. quinquefasciatus	Riverdale	50	CO2	8/15/13	WNV	RTPCR
Kern	DLNO3	53	Cx. quinquefasciatus	Delano	12	GRVD	8/19/13	WNV	RTPCR

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Kern	DLNO4	54	Cx. quinquefasciatus	Delano	12	GRVD	8/19/13	WNV	RTPCR
Kern	KERN1005	401	Cx. quinquefasciatus	Bakersfield	50	GRVD	8/27/13	WNV	RTPCR
Kern	KERN111	407	Cx. tarsalis	Arvin	50	CO2	8/27/13	WNV	RTPCR
Kern	KERN2001	395	Cx. quinquefasciatus	Bakersfield	50	GRVD	8/26/13	WNV	RTPCR
Kern	KERN2043	400	Cx. quinquefasciatus	Bakersfield	50	GRVD	8/27/13	WNV	RTPCR
Kern	KERN30	403	Cx. tarsalis	Wasco	50	CO2	8/27/13	WNV	RTPCR
Kern	KERN3010	414	Cx. quinquefasciatus	Bakersfield	26	CO2	8/28/13	WNV	RTPCR
Kern	KERN36	421	Cx. tarsalis	Bakersfield	33	CO2	8/30/13	WNV	RTPCR
Kern	KERN44	415	Cx. quinquefasciatus	Shafter	28	CO2	8/29/13	WNV	RTPCR
Kern	KERN60	408	Cx. quinquefasciatus	Bakersfield	50	CO2	8/27/13	WNV	RTPCR
Kern	KERN7	404	Cx. tarsalis	Famoso	50	CO2	8/27/13	WNV	RTPCR
Kings	KNGS3004	301	Cx. tarsalis	Lemoore	50	CO2	8/28/13	WNV	RTPCR
Kings	KNGS3004	303	Cx. erythrothorax	Lemoore	40	CO2	8/28/13	WNV	RTPCR
Kings	KNGS3004	308	Cx. erythrothorax	Lemoore	48	CO2	9/4/13	WNV	RTPCR
Kings	KNGS3022	292	Cx. tarsalis	Hanford	32	CO2	8/23/13	WNV	RTPCR
Kings	KNGS4011	313	Cx. tarsalis	Hanford	15	CO2	9/4/13	WNV	RTPCR
Lake	LAKE195	364	Cx. stigmatosoma		9	REST	8/28/13	WNV	RTPCR
Lake	LAKE195	365	Cx. stigmatosoma		14	REST	9/4/13	WNV	RTPCR
Lake	LAKE80	342	Cx. tarsalis		23	REST	8/28/13	WNV	RTPCR
Lake	LAKE80	345	Cx. stigmatosoma		36	REST	9/4/13	WNV	RTPCR
Lake	LAKE80	346	Cx. tarsalis		52	REST	9/4/13	WNV	RTPCR
Lake	LAKE80	352	Cx. tarsalis		50	CO2	9/4/13	WNV	RTPCR
Lake	LAKE80	353	Cx. tarsalis		50	CO2	9/4/13	WNV	RTPCR
Los Angeles	GRLA2007	5956	Cx. quinquefasciatus	Toluca Lake	30	GRVD	8/30/13	WNV	RTPCR
Los Angeles	GRLA2017	5955	Cx. quinquefasciatus	Toluca Lake	50	GRVD	8/30/13	WNV	RTPCR
Los Angeles	GRLA2033	5949	Cx. quinquefasciatus	Tujunga	50	GRVD	8/29/13	WNV	RTPCR
Los Angeles	GRLA2270	866	Cx. quinquefasciatus	Bellflower	16	GRVD	8/28/13	WNV	RTPCR
Los Angeles	GRLA2301	873	Cx. quinquefasciatus	Willowbrook	21	GRVD	8/29/13	WNV	RTPCR
Los Angeles	GRLA2414	5941	Cx. quinquefasciatus	Granada Hills	41	GRVD	8/28/13	WNV	RTPCR
Los Angeles	GRLA2416	5931	Cx. quinquefasciatus	Panorama City	50	GRVD	8/28/13	WNV	RTPCR
Los Angeles	GRLA2419	5939	Cx. quinquefasciatus	Panorama City	21	GRVD	8/28/13	WNV	RTPCR
Los Angeles	GRLA2421	5938	Cx. quinquefasciatus	Panorama City	22	GRVD	8/28/13	WNV	RTPCR
Los Angeles	GRLA2500	5920	Cx. quinquefasciatus	Los Angeles	50	GRVD	8/27/13	WNV	RTPCR
Los Angeles	GRLA2574	5933	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	8/28/13	WNV	RTPCR
Los Angeles	GRLA2580	5930	Cx. quinquefasciatus	Sherman Oaks	37	GRVD	8/28/13	WNV	RTPCR
Los Angeles	GRLA2637	5937	Cx. quinquefasciatus	Van Nuys	47	GRVD	8/28/13	WNV	RTPCR
Los Angeles	GRLA2650	5936	Cx. quinquefasciatus	Encino	50	GRVD	8/28/13	WNV	RTPCR
Los Angeles	GRLA2936	5926	Cx. quinquefasciatus	Burbank	50	GRVD	8/27/13	WNV	RTPCR
Los Angeles	GRLA2937	5925	Cx. quinquefasciatus	Burbank	50	GRVD	8/27/13	WNV	RTPCR
Los Angeles	GRLA2952	841	Cx. quinquefasciatus	South Whittier(LA County)	50	GRVD	8/22/13	WNV	RTPCR
Los Angeles	GRLA3027	5958	Cx. quinquefasciatus	Studio City	34	GRVD	8/30/13	WNV	RTPCR
Los Angeles	GRLA3034	5940	Cx. quinquefasciatus	North Hills	50	GRVD	8/28/13	WNV	RTPCR
Los Angeles	GRLA3035	5932	Cx. quinquefasciatus	North Hills	50	GRVD	8/28/13	WNV	RTPCR
Los Angeles	GRLA3038	5950	Cx. quinquefasciatus	Valley Village	50	GRVD	8/30/13	WNV	RTPCR
Los Angeles	GRLA3039	5959	Cx. quinquefasciatus	Los Angeles	33	GRVD	8/30/13	WNV	RTPCR
Los Angeles	GRLA3046	867	Cx. quinquefasciatus	Bellflower	14	GRVD	8/28/13	WNV	RTPCR
Los Angeles	GRLA3058	863	Cx. quinquefasciatus	Lynwood	21	GRVD	8/28/13	WNV	RTPCR
Los Angeles	GRLA3064	872	Cx. quinquefasciatus	Los Angeles	50	GRVD	8/29/13	WNV	RTPCR
Los Angeles	GRLA3066	5960	Cx. quinquefasciatus	North Hollywood	50	GRVD	8/30/13	WNV	RTPCR
Los Angeles	GRLA3069	5952	Cx. quinquefasciatus	Valley Village	29	GRVD	8/30/13	WNV	RTPCR
Los Angeles	GRLA3071	828	Cx. quinquefasciatus	East Los Angeles	20	GRVD	8/21/13	WNV	RTPCR
Los Angeles	GRLA3076	5957	Cx. quinquefasciatus	Valley Glen	50	GRVD	8/30/13	WNV	RTPCR

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Los Angeles	GRLA3077	5922	Cx. quinquefasciatus	Silver Lake	50	GRVD	8/27/13	WNV	RTPCR
Los Angeles	GRLA3080	5954	Cx. quinquefasciatus	North Hollywood	50	GRVD	8/30/13	WNV	RTPCR
Los Angeles	GRLA3102	5951	Cx. quinquefasciatus	Studio City	32	GRVD	8/30/13	WNV	RTPCR
Los Angeles	LACW1002	287	Cx. tarsalis	Torrance	14	CO2	8/27/13	WNV	RTPCR
Los Angeles	LACW1049	291	Cx. quinquefasciatus	Inglewood	41	GRVD	8/27/13	WNV	RTPCR
Orange	ORCO3	1202	Cx. quinquefasciatus	Garden Grove	34	GRVD	8/27/13	WNV	RTPCR
Orange	ORCO50	1219	Cx. quinquefasciatus	Buena Park	12	GRVD	8/28/13	WNV	RTPCR
Placer	PLCR1003	1615	Cx. tarsalis	Lincoln	9	CO2	9/4/13	WNV	RTPCR
Placer	PLCR58	1635	Cx. tarsalis	LINCOLN	50	CO2	9/4/13	WNV	RTPCR
Riverside	COAV13	1238	Cx. tarsalis	Mecca	50	CO2	8/28/13	WNV	RTPCR
Riverside	COAV204	1282	Cx. tarsalis	Indio	50	GRVD	9/5/13	WNV	RTPCR
Riverside	COAV33	1221	Cx. tarsalis	Mecca	32	CO2	8/28/13	WNV	RTPCR
Riverside	COAV37	1255	Cx. tarsalis	Mecca	33	CO2	8/28/13	WNV	RTPCR
Riverside	COAV40	1242	Cx. tarsalis	Mecca	19	CO2	8/28/13	WNV	RTPCR
Riverside	COAV531	1243	Cx. tarsalis	Mecca	5	CO2	8/28/13	WNV	RTPCR
Riverside	COAV604	1280	Cx. quinquefasciatus	Palm Springs	50	CO2	8/30/13	WNV	RTPCR
Riverside	COAV68	1228	Cx. tarsalis	Mecca	50	CO2	8/28/13	WNV	RTPCR
Riverside	COAV68	1229	Cx. tarsalis	Mecca	41	CO2	8/28/13	WNV	RTPCR
Riverside	COAV8	1224	Cx. tarsalis	Mecca	50	CO2	8/28/13	WNV	RTPCR
Riverside	NWST34	177	Cx. quinquefasciatus	Riverside	17	GRVD	9/4/13	WNV	RTPCR
Riverside	NWST36	173	Cx. quinquefasciatus	Calimesa	8	GRVD	8/27/13	WNV	RTPCR
Sacramento	SAYO213042	5082	Cx. pipiens	North Highlands	12	CO2	9/4/13	WNV	RTPCR
Sacramento	SAYO233051	5051	Cx. tarsalis	Sacramento	6	CO2	9/4/13	WNV	RTPCR
Sacramento	SAYO233051	5052	Cx. pipiens	Sacramento	10	CO2	9/4/13	WNV	RTPCR
Sacramento	SAYO233051	5053	Cx. pipiens	Sacramento	8	GRVD	9/4/13	WNV	RTPCR
Sacramento	SAYO234017	5009	Cx. tarsalis	Sacramento, CA	50	CO2	9/4/13	WNV	RTPCR
Sacramento	SAYO235001	4887	Cx. pipiens	Wilton	4	GRVD	8/30/13	WNV	RTPCR
Sacramento	SAYO243016	5036	Cx. pipiens	Elk Grove	50	CO2	9/4/13	WNV	RTPCR
Sacramento	SAYO243016	5039	Cx. pipiens	Elk Grove	2	GRVD	9/4/13	WNV	RTPCR
Sacramento	SAYO244002	4860	Cx. tarsalis	Galt	50	CO2	8/30/13	WNV	RTPCR
Sacramento	SAYO244002	4861	Cx. tarsalis	Galt	50	CO2	8/30/13	WNV	RTPCR
Sacramento	SAYO244002	4862	Cx. tarsalis	Galt	20	CO2	8/30/13	WNV	RTPCR
Sacramento	SAYO244002	4867	Cx. pipiens	Galt	27	CO2	8/30/13	WNV	RTPCR
Sacramento	SAYO245002	4890	Cx. tarsalis	Wilton	50	CO2	8/30/13	WNV	RTPCR
Sacramento	SAYO245026	4877	Cx. tarsalis	Wilton	50	CO2	8/30/13	WNV	RTPCR
Sacramento	SAYO245026	4878	Cx. tarsalis	Wilton	50	CO2	8/30/13	WNV	RTPCR
Sacramento	SAYO254022	4849	Cx. pipiens	Galt	50	CO2	8/30/13	WNV	RTPCR
Sacramento	SAYO254024	4852	Cx. tarsalis	Galt	50	CO2	8/30/13	WNV	RTPCR
Sacramento	SAYO254024	4853	Cx. tarsalis	Galt	5	CO2	8/30/13	WNV	RTPCR
Sacramento	SAYO261003	4909	Cx. tarsalis	Isleton	50	CO2	8/30/13	WNV	RTPCR
Sacramento	SAYO280001	4917	Cx. tarsalis	Rio Vista	50	CO2	8/30/13	WNV	RTPCR
San Bernardino	WVAL2019	1034	Cx. quinquefasciatus	Chino	17	GRVD	9/4/13	WNV	RTPCR
San Bernardino	WVAL5006	1041	Cx. quinquefasciatus	Rancho Cucamonga	8	GRVD	9/4/13	WNV	RTPCR
San Bernardino	WVAL6004	1010	Cx. quinquefasciatus	Ontario	43	GRVD	8/29/13	WNV	RTPCR
San Bernardino	WVAL6004	1011	Cx. quinquefasciatus	Ontario	48	GRVD	8/29/13	WNV	RTPCR
San Bernardino	WVAL6004	1014	Cx. quinquefasciatus	Ontario	45	GRVD	8/30/13	WNV	RTPCR
San Bernardino	WVAL6004	1015	Cx. quinquefasciatus	Ontario	50	GRVD	8/30/13	WNV	RTPCR
San Bernardino	WVAL6004	1016	Cx. quinquefasciatus	Ontario	46	GRVD	8/30/13	WNV	RTPCR
San Bernardino	WVAL6004	1018	Cx. quinquefasciatus	Ontario	50	GRVD	8/30/13	WNV	RTPCR
San Bernardino	WVAL6004	1049	Cx. quinquefasciatus	Ontario	50	GRVD	9/4/13	WNV	RTPCR
San Bernardino	WVAL6004	1052	Cx. quinquefasciatus	Ontario	31	GRVD	9/4/13	WNV	RTPCR
San Joaquin	SJCM8004	1191	Cx. tarsalis	Lodi	13	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8005	1204	Cx. tarsalis	Stockton	48	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8005	1205	Cx. pipiens	Stockton	50	CO2	9/4/13	WNV	RTPCR

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San Joaquin	SJCM8005	1206	Cx. pipiens	Stockton	49	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8011	1212	Cx. pipiens	Ripon	42	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8020	1192	Cx. tarsalis	Acampo	39	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8020	1194	Cx. pipiens	Acampo	50	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8020	1195	Cx. pipiens	Acampo	50	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8020	1196	Cx. pipiens	Acampo	41	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8022	1198	Cx. erythrothorax	Holt	16	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8079	1225	Cx. pipiens	Manteca	50	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8079	1226	Cx. pipiens	Manteca	50	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8079	1227	Cx. pipiens	Manteca	50	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8079	1228	Cx. pipiens	Manteca	50	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8079	1229	Cx. pipiens	Manteca	50	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8079	1230	Cx. pipiens	Manteca	50	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8079	1231	Cx. pipiens	Manteca	25	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8157	1247	Cx. pipiens	Manteca	40	CO2	9/6/13	WNV	RTPCR
San Joaquin	SJCM8161	1220	Cx. pipiens	Ripon	50	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8161	1223	Cx. pipiens	Ripon	50	CO2	9/4/13	WNV	RTPCR
San Joaquin	SJCM8189	1218	Cx. pipiens	Acampo	11	CO2	9/4/13	WNV	RTPCR
Santa Clara	STCL3328	4925	Cx. pipiens	San Jose	21	CO2	8/28/13	WNV	PCR
Santa Clara	STCL3512	4952	Cx. tarsalis	Milpitas	17	CO2	8/29/13	WNV	PCR
Shasta	SHAS10030	226	Cx. tarsalis	Anderson	15	CO2	9/4/13	WNV	RTPCR
Shasta	SHAS10140	228	Cx. tarsalis		12	CO2	9/4/13	WNV	RTPCR
Stanislaus	EAST1078	13297	Cx. tarsalis	Riverbank	47	CO2	9/5/13	WNV	RAMP
Stanislaus	TRLK1107	806	Cx. pipiens	Denair	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK1203	610	Cx. pipiens	Hughson	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK1203	611	Cx. pipiens	Hughson	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK1203	612	Cx. tarsalis	Hughson	18	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK1219	824	Cx. pipiens	Modesto	40	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK1225	562	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK1301	589	Cx. pipiens	Denair	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK1306	586	Cx. pipiens	Patterson	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK1313	591	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK1313	592	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK1313	593	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK1313	594	Cx. pipiens	Turlock	40	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK1313	699	Cx. pipiens	Turlock	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK327	705	Cx. pipiens	Denair	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK327	707	Cx. pipiens	Denair	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK327	710	Cx. pipiens	Denair	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK327	713	Cx. tarsalis	Denair	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK327	780	Cx. pipiens	Denair	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK327	781	Cx. pipiens	Denair	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK327	783	Cx. pipiens	Denair	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK327	788	Cx. pipiens	Denair	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK327	790	Cx. pipiens	Denair	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK327	792	Cx. pipiens	Denair	41	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK406	674	Cx. pipiens	Turlock	25	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK408	734	Cx. pipiens	Turlock	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK408	736	Cx. pipiens	Turlock	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK421	595	Cx. pipiens	Hughson	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK421	596	Cx. tarsalis	Hughson	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK421	597	Cx. pipiens	Hughson	39	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK421	805	Cx. tarsalis	Hughson	47	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK432	568	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR

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Stanislaus	TRLK432	572	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK432	576	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK432	578	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK432	579	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK432	581	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK432	582	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK432	583	Cx. tarsalis	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK432	584	Cx. tarsalis	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK432	585	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK432	685	Cx. pipiens	Turlock	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK432	686	Cx. pipiens	Turlock	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK432	687	Cx. pipiens	Turlock	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK432	691	Cx. pipiens	Turlock	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK432	692	Cx. pipiens	Turlock	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK432	693	Cx. pipiens	Turlock	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK432	695	Cx. tarsalis	Turlock	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK432	696	Cx. tarsalis	Turlock	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK432	697	Cx. tarsalis	Turlock	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK432	698	Cx. tarsalis	Turlock	30	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK432	742	Cx. pipiens	Turlock	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK432	744	Cx. pipiens	Turlock	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK432	746	Cx. pipiens	Turlock	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK432	747	Cx. pipiens	Turlock	31	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK432	758	Cx. pipiens	Turlock	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK432	764	Cx. pipiens	Turlock	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK432	767	Cx. pipiens	Turlock	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK432	775	Cx. tarsalis	Turlock	30	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK504	722	Cx. tarsalis	Denair	50	CO2	8/29/13	WNV	RTPCR
Stanislaus	TRLK516	599	Cx. pipiens	Denair	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK516	603	Cx. pipiens	Denair	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK516	606	Cx. pipiens	Denair	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK516	809	Cx. pipiens	Denair	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK526	587	Cx. pipiens	Denair	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK526	588	Cx. pipiens	Denair	22	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK530	554	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK530	555	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK530	557	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK530	559	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK530	731	Cx. pipiens	Turlock	50	CO2	9/4/13	WNV	RTPCR
Stanislaus	TRLK536	551	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK536	676	Cx. pipiens	Turlock	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLNO10	63	Cx. quinquefasciatus	Earlimart	50	GRVD	9/3/13	WNV	RTPCR
Tulare	DLNO10	64	Cx. quinquefasciatus	Earlimart	43	GRVD	9/3/13	WNV	RTPCR
Tulare	DLTA7315	411	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	405	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA7316	421	Cx. quinquefasciatus	Traver	50	CO2	8/29/13	WNV	RTPCR
Tulare	DLTA8434	460	Cx. quinquefasciatus	Visalia	50	GRVD	9/5/13	WNV	RTPCR
Tulare	DLTA8531	441	Cx. quinquefasciatus	Visalia	40	GRVD	9/4/13	WNV	RTPCR
Tulare	DLTA8534	448	Cx. quinquefasciatus	Visalia	33	GRVD	9/4/13	WNV	RTPCR
Tulare	DLTA9403	454	Cx. quinquefasciatus	Visalia	50	GRVD	9/5/13	WNV	RTPCR
Tulare	DLTA9403	455	Cx. quinquefasciatus	Visalia	50	GRVD	9/5/13	WNV	RTPCR
Tulare	DLTA9403	457	Cx. quinquefasciatus	Visalia	50	GRVD	9/5/13	WNV	RTPCR
Tulare	DLTA9403	458	Cx. quinquefasciatus	Visalia	50	GRVD	9/5/13	WNV	RTPCR
Tulare	DLTA9403	459	Cx. quinquefasciatus	Visalia	25	GRVD	9/5/13	WNV	RTPCR

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Tulare	DLTA9404	463	Cx. quinquefasciatus	Visalia	50	GRVD	9/5/13	WNV	RTPCR
Tulare	DLTA9505	437	Cx. quinquefasciatus	Visalia	46	GRVD	9/4/13	WNV	RTPCR
Tulare	DLTA9506	438	Cx. quinquefasciatus	Visalia	21	GRVD	9/4/13	WNV	RTPCR
Tulare	KNGS3017	289	Cx. pipiens	Waukena	38	CO2	8/23/13	WNV	RTPCR
Yolo	SAYO135006	4983	Cx. tarsalis	Woodland	45	CO2	8/30/13	WNV	RTPCR
Yolo	SAYO135006	4984	Cx. tarsalis	Woodland	2	GRVD	8/30/13	WNV	RTPCR
Yolo	SAYO136010	4992	Cx. tarsalis	Woodland	50	CO2	8/30/13	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Butte	BUCO0001	Chico	8/26/2013	WNV	1001	1005	1008	1010	1011
Butte	BUCO0002	Oroville	8/27/2013	WNV	1012	1014	1018		
Butte	BUCO0004	Gridley	8/27/2013	WNV	1043				
Butte	BUCO0006	Chico	8/26/2013	WNV	1063				
Butte	BUCO0007	Chico	8/26/2013	WNV	1073				
Contra Costa	CNTR8152	Knightsen	8/26/2013	WNV	1121				
Kern	DLNO0035		8/29/2013	WNV	1233	1235			
Kern	DLNO0060	Delano	8/29/2013	WNV	1203	1204			
Los Angeles	ANTV3247	Lancaster	8/21/2013	WNV	3605				
Los Angeles	LACW1003	Redondo Beach	8/22/2013	WNV	1317				
Los Angeles	LACW1004	Lawndale	8/6/2013	WNV	1319	1324			
Los Angeles	LACW1010	Los Angeles(Miracle Mile)	8/8/2013	WNV	1350	1351	1352	1353	
Los Angeles	LACW1026	Beverly Hills	8/27/2013	WNV	1398				
Los Angeles	LONG0002	Long Beach	8/19/2013	WNV	3063	3064			
Los Angeles	LONG0004	Long Beach	8/19/2013	WNV	3084	3085	3090		
Madera	MADR0036		8/27/2013	WNV	3779				
Madera	MADR0042	Madera	8/27/2013	WNV	3784				
Merced	MERC0002	Dos Palos	8/29/2013	WNV	1461				
Merced	MERC0501	El Nido	8/29/2013	WNV	1482				
Merced	MERC0502	Hilmar	8/29/2013	WNV	1487				
Placer	PLCR0017	Sheridan	8/26/2013	WNV	1620				
Placer	PLCR0669	Auburn	8/26/2013	WNV	1607	1608	1610		
Sacramento	SAYO202019	Rio Linda	8/12/2013	WNV	2127	2130			
Santa Clara	STCL0000	San Jose	8/26/2013	WNV	1707				
Shasta	SHAS5038		8/29/2013	WNV	1822				
Shasta	SHAS9702	Millville	8/29/2013	WNV	1809				
Solano	SOLA0125	Cordelia	8/27/2013	WNV	1876				
Solano	SOLA0015	Winters	8/27/2013	WNV	1858				
Sonoma	MARN0118	Cloverdale	8/26/2013	WNV	1524				
Sutter	SUYA0020	Meridian	8/29/2013	WNV	2040	2042			
Sutter	SUYA0031	Rio Oso	8/29/2013	WNV	2028				
Tehama	TEHA0001	Red Bluff	8/28/2013	WNV	1957	1959			
Tehama	TEHA0066	Cottonwood	8/28/2013		1972				
Yolo	SAYO116006	Knights Landing	8/15/2013	WNV	2161				

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Test Protocols

Humans:

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

Horses:

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

Dead Birds and Tree Squirrels:

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

Sentinel Chickens:

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

Mosquito Pools:

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

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Tina Feiszli by phone (510) 412-6253 or email: tina.feiszli@cdph.ca.gov. Website Information: For updated information on WNV in California, please visit the California WNV website, www.westmile.ca.gov, or the California Vectorborne Disease Surveillance System website, www.calsurv.org. For national information on WNV and other arboviruses, please visit the CDC website, www.cdc.gov, and the USGS website, www.westnilemaps.usgs.gov