

California Arbovirus Surveillance Bulletin #24

Week 33 Friday, August 16, 2013



WEEKLY UPDATE

Human Cases

Nineteen new cases of West Nile virus (WNV) illness were reported this week from Colusa (1), Glenn (1), Kern (2), Los Angeles (8), Orange (1), Riverside (1), San Joaquin (2), Santa Clara (1), Stanislaus (1), and Ventura (1) counties. These are the first WNV human cases from Colusa, Kern, Orange, San Joaquin, Santa Clara, Stanislaus, and Ventura counties this year. As of August 16, 2013, a total of 37 human cases of West Nile virus (WNV) illness have been reported in sixteen local health jurisdictions: Butte (1), Colusa (1), Contra Costa (1), Fresno (2), Glenn (3), Kern (2), Los Angeles (15), Orange (1), Riverside (2), Sacramento (2), San Joaquin (2), Santa Clara (1), Solano (1), Stanislaus (1), Ventura (1), Yolo (1). Of the 37 cases, 31 (84%) had neuroinvasive illness. The median age of the 37 individuals where data are available is 60 years (range: 11-91 years); 25 (68%) of 37 cases are male. Dates of symptom onset for all cases ranged from June 20-Aug 3, 2013. Three WNV-related fatalities have been reported to date in Sacramento (1), Los Angeles (1), and Glenn (1) counties. A total of twelve WNV-positive blood donors have been reported this year; to date none of these individuals developed symptoms.

National Comments: As of August 12, 2013, 174 cases had been reported nationwide from 24 states. Of these, 81 (47%) were classified as neuroinvasive disease, and 7 (4%) died.

Horses

Three new equine cases of WNV illness have been reported: a 2.5 month old unvaccinated filly (mare was unvaccinated) from Stanislaus County, a 1-year-old unvaccinated colt from Sacramento County, and a 4-year-old mare with unknown vaccination status from Placer County. **This is the first WNV equine case from Placer County this year.** All three horses are alive and recovering. In 2013, eight horses from five counties have tested positive for WNV; four have died as a result of their infection. At this time last year, six horses had tested positive for WNV from five counties.

Dead Birds & Squirrels

A total of 123 WNV positive birds were reported this week from the following 25 counties: Alameda (2), Butte (9), Colusa (1), Contra Costa (7), Fresno (2), Humboldt (1), Lake (2), Los Angeles (30), Madera (1), Merced (2), Nevada (2), Placer (10), Riverside (3), Sacramento (11), San Bernardino (4), San Diego (1), San Joaquin (4), Santa Clara (13), Shasta (5), Sonoma (1), Tehama (2), Tulare (1), Ventura (1), Yolo (6), and Yuba (2). **This is the first indication of WNV activity in Humboldt County this year** and the first WNV positive dead birds detected in Colusa and Tehama counties. An additional 25 dead birds and 2 dead squirrels tested positive for chronic WNV infection. In 2013, 705 dead birds have tested positive for WNV from 36 counties and 3 dead squirrels have tested positive for WNV from 3 counties. At this time last year, 717 dead birds and 2 dead squirrels had tested positive for WNV from 27 and 2 counties, respectively.

Mosquito Pools

A total of 178 WNV positive mosquito pools were reported this week from 19 counties: Butte (4), Fresno (2), Kern (13), Kings (9), Lake (3), Los Angeles (44), Madera (2), Merced (3), Placer (8), Riverside (6), Sacramento (17), San Bernardino (31), San Joaquin (20), Santa Clara (2), Stanislaus (3), Sutter (2), Tulare (3), Yolo (5), and Yuba (1). In 2013, 1,349 mosquito pools from 25 counties have tested positive for WNV. At this time last year, 1,347 mosquito pools from 28 counties had tested positive for WNV.

Sentinel Chickens

A total of 14 sentinel chickens tested positive for WNV antibodies this week from 8 flocks in 4 counties: Los Angeles (4), Riverside (2), San Bernardino (6), and Yolo (2). In 2013, 174 WNV antibody-positive chickens have been detected among 52 flocks in 19 counties. At this time last year, 131 WNV antibody-positive chickens had been detected among 46 flocks in 14 counties.

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2012 & 2013 YTD West Nile Virus Comparisons		
	2012	2013
Total # Dead Bird Reports	10,807	10,236
# Positive Counties	33	37
# Human Cases	26	37
# Horse Cases	6	8
# Positive Dead Birds / # Tested	717 / 2,415	705 / 2,296
# Positive Mosquito Pools / # Tested	1,347 / 19,231	1,349 / 19,219
# Seroconversions / # Tested	131 / 15,787	174 / 10,770
# Positive Squirrels / # Tested	2 / 78	3 / 80

YTD WNV Activity by Element and County, 2013						
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			8			
Butte	1		25	28	30	
Colusa	1		1		6	
Contra Costa	1		39	4		1
Fresno	2		7	37		
Glenn	3		6	11	6	
Humboldt			1			
Kern	2	1	2	81	1	
Kings			10	50		
Lake			6	30	1	
Los Angeles	15		202	223	48	1
Madera			7	12		
Marin			2		1	
Mendocino			1			
Merced			26	6	7	
Nevada			3			
Orange	1		12	9		
Placer		1	19	71	4	
Riverside	2	1	13	45	11	
Sacramento	2	3	108	239	2	
San Bernardino			10	117	8	1
San Diego			5			
San Joaquin	2		25	76		
San Luis Obispo				1		
Santa Clara	1		34	17		
Santa Cruz			1			
Shasta			18	3	5	
Solano	1		5	1	4	
Sonoma			7			
Stanislaus	1	2	8	33	5	
Sutter			14	58	22	
Tehama			2		1	
Trinity			1			
Tulare			3	18		
Ventura	1		6			
Yolo	1		61	168	3	
Yuba			7	11	9	
Totals	37	8	705	1,349	174	3

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TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	19	0	0	0	0	0
	YTD	37	0	0	0	0	0
Horse Cases	Week	3	0	0	0	0	0
	YTD	8	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	215	123
	YTD	2,296	705
Tree Squirrels	Week	4	0
	YTD	80	3

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	570	14	0	0
	YTD	10,770	174	0	0
Mosquito Pools	Week	960	178	0	0
	YTD	19,219	1,349	0	0

POSITIVES

Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda MAD	Fremont	94538	Western Scrub-Jay	8/1/2013	WNV	Recent	RT-PCR
Alameda	Alameda MAD	Livermore	94550	House Finch	8/5/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95926	American Crow	8/5/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95926	Lesser Goldfinch	8/6/2013	WNV	Chronic	RT-PCR
Butte	Butte MVCD	Chico	95928	Western Scrub-Jay	7/31/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95928	Western Scrub-Jay	8/1/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95928	Western Scrub-Jay	7/31/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Gridley	95948	Western Scrub-Jay	8/5/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Paradise	95969	American Crow	8/1/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95973	House Finch	8/1/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95973	American Crow	8/5/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95973	Western Scrub-Jay	8/5/2013	WNV	Recent	RT-PCR
Colusa	Colusa MAD	Grimes	95950	Mallard	7/31/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Antioch	94509	American Crow	8/2/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Bethel Island	94511	Swainson's Hawk	8/6/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	Western Scrub-Jay	8/13/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/14/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	8/15/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Martinez	94553	Western Scrub-Jay	8/8/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Oakley	94561	American Crow	8/12/2013	WNV	Recent	RAMP
El Dorado	El Dorado EH	Diamond Springs	95619	Western Gray Squirrel	8/6/2013	WNV	Chronic	RT-PCR
El Dorado	El Dorado EM	Placerville	95667	Northern Flicker	8/4/2013	WNV	Chronic	RT-PCR

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Fresno	Consolidated MAD	Sanger	93657	Western Scrub-Jay	8/6/2013	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Fresno	93704	American Crow	7/31/2013	WNV	Chronic	RT-PCR
Fresno	Fresno MVCD	Fresno	93705	Northern Mockingbird	8/4/2013	WNV	Chronic	RT-PCR
Fresno	Fresno MVCD	Fresno	93711	Western Scrub-Jay	7/31/2013	WNV	Recent	RT-PCR
Humboldt	Humboldt EH	Eureka	95503	American Crow	7/31/2013	WNV	Recent	RT-PCR
Lake	Lake Co VCD	Lucerne	95458	Western Scrub-Jay	8/5/2013	WNV	Recent	RT-PCR
Lake	Lake Co VCD	Hidden Valley Lake	95467	Western Scrub-Jay	8/5/2013	WNV	Recent	RT-PCR
Los Angeles	Antelope Valley MVCD	Lancaster	93536	Cooper's Hawk	8/5/2013	WNV	Recent	RT-PCR
Los Angeles	Antelope Valley MVCD	Lancaster	93536	American Crow	8/7/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - Syl	Sylmar	91342	Northern Mockingbird	8/5/2013	WNV	Chronic	RT-PCR
Los Angeles	Greater LA VCD - Syl	Valencia	91355	Western Wood Peewee	8/2/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - Syl	Valencia	91355	American Crow	8/5/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - Syl	Van Nuys	91405	American Crow	8/6/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - Syl	Valley Village	91607	American Crow	8/1/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Hawthorne	90250	American Crow	7/29/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Hawthorne	90250	American Crow	7/29/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Hawthorne	90250	American Crow	7/29/2013	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	8/1/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	REdondo Beach	90277	American Crow	7/29/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	8/1/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	8/1/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	8/1/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/29/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/24/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	8/1/2013	WNV	Chronic	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90019	American Crow	7/30/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90047	American Crow	8/2/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90230	American Crow	8/1/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Hawthorne	90250	House Sparrow	8/6/2013	WNV	Chronic	RT-PCR
Los Angeles	LA West VCD	Manhattan Beach	90266	American Crow	8/6/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Rancho Palos Verdes	90275	House Finch	8/2/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Redondo Beach	90277	American Crow	7/31/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Redondo Beach	90277	American Crow	7/31/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Redondo Beach	90277	American Crow	7/30/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Redondo Beach	90278	American Crow	7/30/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Torrance	90501	American Crow	8/1/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Torrance	90501	American Crow	8/1/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Torrance	90501	American Crow	8/6/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Torrance	90501	American Crow	8/6/2013	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Vall MVCD	Altadena	91001	Bushtit	8/5/2013	WNV	Chronic	RT-PCR
Los Angeles	San Gabriel Vall MVCD	Arcadia	91006	American Crow	8/4/2013	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Vall MVCD	Azusa	91702	American Crow	8/8/2013	WNV	Recent	RAMP
Madera	Madera Co MVCD	Chowchilla	93610	House Sparrow	8/2/2013	WNV	Recent	RT-PCR
Madera	Madera Co MVCD	Chowchilla	93610	House Finch	8/2/2013	WNV	Chronic	RT-PCR
Madera	Madera Co MVCD	Madera	93637	American Robin	8/1/2013	WNV	Chronic	RT-PCR
Merced	Merced Co MAD	Gustine	95322	Western Scrub-Jay	8/1/2013	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Gustine	95322	Yellow-billed Magpie	8/6/2013	WNV	Recent	RT-PCR
Nevada	Nevada Co EH-NV City	Penn Valley	95946	Western Scrub-Jay	8/6/2013	WNV	Recent	RT-PCR
Nevada	Nevada Co EH-NV City	Penn Valley	95946	Oak Titmouse	8/5/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Yellow-billed Magpie	7/18/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Unknown	7/29/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Western Scrub-Jay	7/19/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Yellow-billed Magpie	7/26/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Northern Mockingbird	8/6/2013	WNV	Recent	RT-PCR

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Placer	Placer MVCD	Lincoln	95648	House Finch	7/29/2013	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Roseville	95661	American Crow	7/19/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95678	American Crow	7/30/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95746	Bewick's Wren	7/29/2013	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Roseville	95747	American Crow	7/19/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	Western Scrub-Jay	7/16/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	Yellow-billed Magpie	7/28/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	House Finch	7/26/2013	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Tahoe Vista	96148	American Robin	7/31/2013	WNV	Chronic	RT-PCR
Riverside	NW Mosquito VCD	Norco	92860	American Crow	7/31/2013	WNV	Recent	RT-PCR
Riverside	Riverside VCP	Perris	92571	American Crow	8/6/2013	WNV	Recent	RT-PCR
Riverside	Riverside VCP	Temecula	92591	American Crow	8/5/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95624	American Robin	8/6/2013	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	American Crow	8/7/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rio Linda	95673	Muscovy Duck	8/2/2013	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	American Robin	8/10/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	Western Scrub-Jay	8/7/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	Western Scrub-Jay	8/7/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	Western Scrub-Jay	8/7/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	8/8/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95822	Western Scrub-Jay	8/7/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95825	American Crow	8/10/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95826	Western Scrub-Jay	8/7/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95830	European Starling	8/6/2013	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	Northern Mockingbird	8/9/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	Western Bluebird	8/6/2013	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Upland	91784	American Crow	8/5/2013	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Redlands	92374	American Crow	8/6/2013	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	San Bernardino	92410	American Crow	8/6/2013	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Chino	91710	American Crow	7/26/2013	WNV	Recent	RT-PCR
San Diego	San Diego Co VCP	El Cajon	92020	American Crow	8/5/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Clements	95227	American Crow	7/31/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Lodi	95242	Anna's Hummingbird	8/1/2013	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin MVCD	Tracy	95304	Common Raven	8/12/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Lathrop	95330	Common Raven	8/9/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Tracy	95376	Western Scrub-Jay	7/31/2013	WNV	Recent	RT-PCR
San Luis Obispo	SLO Animal Services	Oceano	93445	Barn Owl	8/2/2013	WNV	Chronic	RT-PCR
San Mateo	San Mateo MAD	Burlingame	94010	Eastern Gray Squirrel	8/1/2013	WNV	Chronic	RT-PCR
San Mateo	San Mateo MAD	El Granada	94018	House Finch	8/2/2013	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara VCD	Saratoga	95070	American Crow	8/7/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95112	Western Scrub-Jay	8/4/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95123	American Crow	8/1/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95125	American Crow	7/31/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95131	American Crow	8/5/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95132	American Crow	8/5/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95132	Western Scrub-Jay	8/7/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95132	American Crow	8/6/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95133	American Crow	8/5/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95133	American Crow	8/5/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95133	Western Scrub-Jay	8/6/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95133	American Crow	8/5/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95148	American Crow	7/31/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Redding	96002	Western Scrub-Jay	8/5/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Anderson	96007	American Robin	8/2/2013	WNV	Recent	RT-PCR

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Shasta	Shasta MVCD	cottonwood ca	96022	Western Scrub-Jay	8/5/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Lakehead	96051	Steller's Jay	8/2/2013	WNV	Chronic	RT-PCR
Shasta	Shasta MVCD	Palo Cedro	96073	American Crow	8/2/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Palo Cedro	96073	American Crow	8/7/2013	WNV	Recent	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95407	American Crow	7/31/2013	WNV	Recent	RT-PCR
Sonoma	Marin-Sonoma MVCD	Sebastopol	95472	American Crow	8/5/2013	WNV	Chronic	RT-PCR
Tehama	Tehama MVCD	Red Bluff	96080	Western Scrub-Jay	8/1/2013	WNV	Recent	RT-PCR
Tehama	Tehama MVCD	Red Bluff	96080	American Crow	8/1/2013	WNV	Recent	RT-PCR
Tehama	Tehama MVCD	Red Bluff	96080	European Starling	8/5/2013	WNV	Chronic	RT-PCR
Tulare	Tulare MAD	Tulare	93274	Mourning Dove	8/2/2013	WNV	Recent	RT-PCR
Ventura	Ventura EHD	Oak Park	91377	American Crow	8/6/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	8/2/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	8/2/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	8/8/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	8/7/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Robin	8/3/2013	WNV	Chronic	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	8/12/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/7/2013	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Wheatland	95692	Western Scrub-Jay	8/1/2013	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Marysville	95901	Western Scrub-Jay	8/2/2013	WNV	Recent	RT-PCR

Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap	Collected	Virus	Method
Butte	BUCO0	65	Oroville	Unknown	50	NA	8/14/13	WNV	RTPCR
Butte	BUCO0	69	Oroville	Unknown	50	NA	8/14/13	WNV	RTPCR
Butte	BUCO0	74	Oroville	Unknown	50	NA	8/14/13	WNV	RTPCR
Butte	BUCO69	64	Oroville	Cx. tarsalis	50	CO2	8/5/13	WNV	RTPCR
Fresno	CNSL3034	631	Sanger	Cx. quinquefasciatus	30	GRVD	8/8/13	WNV	RTPCR
Fresno	CNSL3247	632	Reedley	Cx. quinquefasciatus	50	GRVD	8/8/13	WNV	RTPCR
Kern	DLNO4	45	Delano	Cx. quinquefasciatus	50	GRVD	8/12/13	WNV	RTPCR
Kern	DLNO4	46	Delano	Cx. quinquefasciatus	50	GRVD	8/12/13	WNV	RTPCR
Kern	DLNO4	47	Delano	Cx. quinquefasciatus	50	GRVD	8/12/13	WNV	RTPCR
Kern	DLNO5	48	Delano	Cx. quinquefasciatus	19	GRVD	8/12/13	WNV	RTPCR
Kern	KERN1102	353	Wasco	Cx. quinquefasciatus	50	CO2	8/8/13	WNV	RTPCR
Kern	KERN1103	339	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/5/13	WNV	RTPCR
Kern	KERN111	344	Arvin	Cx. tarsalis	50	CO2	8/6/13	WNV	RTPCR
Kern	KERN1162	338	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/5/13	WNV	RTPCR
Kern	KERN117	358	Bakersfield	Cx. tarsalis	50	CO2	8/9/13	WNV	RTPCR
Kern	KERN2033	342	Bakersfield	Cx. quinquefasciatus	30	GRVD	8/6/13	WNV	RTPCR
Kern	KERN2034	340	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/6/13	WNV	RTPCR
Kern	KERN3022	352	Wasco	Cx. quinquefasciatus	33	CO2	8/8/13	WNV	RTPCR
Kern	WEST6231	103	Taft	Cx. quinquefasciatus	42	GRVD	8/14/13	WNV	RTPCR
Kings	KNGS3004	214	Lemoore	Cx. erythrothorax	30	CO2	8/6/13	WNV	RTPCR
Kings	KNGS3046	208	Hanford	Cx. pipiens	8	CO2	8/6/13	WNV	RTPCR
Kings	KNGS3089	199	Hanford	Cx. tarsalis	11	CO2	8/2/13	WNV	RTPCR
Kings	KNGS4001	210	Hanford	Cx. pipiens	25	CO2	8/6/13	WNV	RTPCR
Kings	KNGS4007	202	Lemoore	Cx. pipiens	11	GRVD	8/5/13	WNV	RTPCR
Kings	KNGS4009	204	Armona	Cx. pipiens	9	GRVD	8/5/13	WNV	RTPCR

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Kings	KNGS4010	198	Hanford	Cx. tarsalis	16	CO2	8/2/13	WNV	RTPCR
Kings	KNGS4011	201	Hanford	Cx. pipiens	20	GRVD	8/5/13	WNV	RTPCR
Kings	KNGS5501	209	Hanford	Cx. pipiens	13	CO2	8/6/13	WNV	RTPCR
Lake	LAKE84	253		Cx. tarsalis	50	CO2	8/14/13	WNV	RTPCR
Lake	LAKE94	244		Cx. tarsalis	50	CO2	8/14/13	WNV	RTPCR
Lake	LAKE94	246		Cx. tarsalis	50	CO2	8/14/13	WNV	RTPCR
Los Angeles	GRLA2021	5840	Reseda	Cx. quinquefasciatus	50	GRVD	8/9/13	WNV	RTPCR
Los Angeles	GRLA2023	5842	Reseda	Cx. quinquefasciatus	48	GRVD	8/9/13	WNV	RTPCR
Los Angeles	GRLA2032	5844	Northridge	Cx. quinquefasciatus	50	GRVD	8/9/13	WNV	RTPCR
Los Angeles	GRLA2032	5845	Northridge	Cx. quinquefasciatus	44	GRVD	8/9/13	WNV	RTPCR
Los Angeles	GRLA2194	741	South El Monte	Cx. quinquefasciatus	50	GRVD	8/6/13	WNV	RTPCR
Los Angeles	GRLA2230	748	Diamond Bar	Cx. quinquefasciatus	24	GRVD	8/6/13	WNV	RTPCR
Los Angeles	GRLA2247	768	Pico Rivera	Cx. quinquefasciatus	50	GRVD	8/8/13	WNV	RTPCR
Los Angeles	GRLA2268	775	Cerritos	Cx. quinquefasciatus	47	GRVD	8/8/13	WNV	RTPCR
Los Angeles	GRLA2323	756	Los Angeles	Cx. quinquefasciatus	50	GRVD	8/6/13	WNV	RTPCR
Los Angeles	GRLA2346	765	Montebello	Cx. quinquefasciatus	47	GRVD	8/8/13	WNV	RTPCR
Los Angeles	GRLA2359	744	Pico Rivera	Cx. quinquefasciatus	12	GRVD	8/6/13	WNV	RTPCR
Los Angeles	GRLA2414	5802	Granada Hills	Cx. quinquefasciatus	46	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2416	5809	Panorama City	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2416	5810	Panorama City	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2419	5805	Panorama City	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2419	5806	Panorama City	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2421	5807	Panorama City	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2540	5848	Northridge	Cx. quinquefasciatus	50	GRVD	8/9/13	WNV	RTPCR
Los Angeles	GRLA2555	5837	Encino	Cx. quinquefasciatus	50	GRVD	8/9/13	WNV	RTPCR
Los Angeles	GRLA2574	5811	Sherman Oaks	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2574	5812	Sherman Oaks	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2580	5820	Sherman Oaks	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2580	5821	Sherman Oaks	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2636	5835	Van Nuys	Cx. quinquefasciatus	40	GRVD	8/9/13	WNV	RTPCR
Los Angeles	GRLA2637	5818	Van Nuys	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2637	5819	Van Nuys	Cx. quinquefasciatus	35	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2650	5817	Encino	Cx. quinquefasciatus	38	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2651	5813	Encino	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2651	5814	Encino	Cx. quinquefasciatus	25	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2655	5815	Encino	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA2724	5826	Canoga Park	Cx. quinquefasciatus	50	GRVD	8/8/13	WNV	RTPCR
Los Angeles	GRLA2953	773	Santa Fe Springs	Cx. quinquefasciatus	37	GRVD	8/8/13	WNV	RTPCR
Los Angeles	GRLA2957	778	Hawaiian Gardens	Cx. quinquefasciatus	50	GRVD	8/9/13	WNV	RTPCR
Los Angeles	GRLA2995	5824	Woodland Hills	Cx. quinquefasciatus	50	GRVD	8/8/13	WNV	RTPCR
Los Angeles	GRLA3034	5803	North Hills	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA3034	5804	North Hills	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA3035	5822	North Hills	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA3035	5823	North Hills	Cx. quinquefasciatus	50	GRVD	8/7/13	WNV	RTPCR
Los Angeles	GRLA3041	774	Artesia	Cx. quinquefasciatus	24	GRVD	8/8/13	WNV	RTPCR
Los Angeles	GRLA3044	743	South El Monte	Cx. quinquefasciatus	43	GRVD	8/6/13	WNV	RTPCR
Los Angeles	GRLA3048	767	Pico Rivera	Cx. quinquefasciatus	50	GRVD	8/8/13	WNV	RTPCR
Los Angeles	GRLA3051	780	Signal Hill	Cx. quinquefasciatus	50	GRVD	8/9/13	WNV	RTPCR

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Los Angeles	GRLA3060	776	Norwalk	Cx. quinquefasciatus	50	GRVD	8/8/13	WNV	RTPCR
Los Angeles	GRLA3071	757	East Los Angeles	Cx. quinquefasciatus	35	GRVD	8/6/13	WNV	RTPCR
Madera	MADR0	61	Madera	Unknown	50	NA	8/9/2013	WNV	RTPCR
Madera	MADR1	57	Chowchilla	Culex tarsalis	20	CO2	8/2/2013	WNV	RTPCR
Merced	MERC102	72	Merced	Cx. tarsalis	50	CO2	8/8/13	WNV	RTPCR
Merced	MERC102	78	Merced	Cx. tarsalis	50	CO2	8/8/13	WNV	RTPCR
Merced	MERC1308	85	Merced	Cx. pipiens	4	CO2	8/8/13	WNV	RTPCR
Placer	PLCR1003	1283	Lincoln	Cx. tarsalis	50	CO2	8/13/13	WNV	RTPCR
Placer	PLCR1113	1221	Pleasant Grove	Cx. pipiens	29	CO2	8/13/13	WNV	IFA
Placer	PLCR114	1300	Roseville	Cx. tarsalis	2	CO2	8/14/13	WNV	RTPCR
Placer	PLCR509	1303	Loomis	Cx. thriambus	2	CO2	8/14/13	WNV	RTPCR
Placer	PLCR58	1229	Lincoln	Cx. tarsalis	50	CO2	8/13/13	WNV	RTPCR
Placer	PLCR670	1293	Loomis	Cx. pipiens	5	CO2	8/14/13	WNV	RTPCR
Placer	PLCR79	1255	Roseville	Cx. pipiens	13	CO2	8/13/13	WNV	RTPCR
Placer	PLCR95	1250	Lincoln	Cx. tarsalis	50	CO2	8/13/13	WNV	RTPCR
Riverside	COAV17	1165	Mecca	Cx. tarsalis	50	CO2	8/13/13	WNV	RTPCR
Riverside	COAV17	1166	Mecca	Cx. tarsalis	50	CO2	8/13/13	WNV	RTPCR
Riverside	COAV45	1174	Mecca	Cx. tarsalis	50	CO2	8/13/13	WNV	RTPCR
Riverside	COAV611	1164	Mecca	Cx. tarsalis	50	CO2	8/13/13	WNV	RTPCR
Riverside	COAV9	1153	Mecca	Cx. tarsalis	44	CO2	8/13/13	WNV	RTPCR
Riverside	RIVR51	396	Moreno Valley	Cx. quinquefasciatus	18	CO2	8/14/13	WNV	RTPCR
Sacramento	SAYO203011	4160	Antelope	Cx. pipiens	23	CO2	8/13/13	WNV	RTPCR
Sacramento	SAYO212002	4165	Sacramento	Cx. tarsalis	3	CO2	8/13/13	WNV	RTPCR
Sacramento	SAYO212002	4167	Sacramento	Cx. pipiens	50	GRVD	8/13/13	WNV	RTPCR
Sacramento	SAYO212021	4123	Sacramento	Cx. pipiens	7	CO2	8/13/13	WNV	RTPCR
Sacramento	SAYO212021	4124	Sacramento	Cx. pipiens	20	GRVD	8/13/13	WNV	RTPCR
Sacramento	SAYO213042	4162	North Highlands	Cx. tarsalis	1	CO2	8/13/13	WNV	RTPCR
Sacramento	SAYO222001	4153	Sacramento	Cx. pipiens	52	CO2	8/13/13	WNV	RTPCR
Sacramento	SAYO222010	4117	Sacramento	Cx. pipiens	16	CO2	8/13/13	WNV	RTPCR
Sacramento	SAYO222010	4118	Sacramento	Cx. pipiens	1	GRVD	8/13/13	WNV	RTPCR
Sacramento	SAYO233009	4099	Elk Grove	Cx. pipiens	6	GRVD	8/13/13	WNV	RTPCR
Sacramento	SAYO234013	4108	Elk Grove	Cx. tarsalis	29	CO2	8/13/13	WNV	RTPCR
Sacramento	SAYO235001	4090	Wilton	Cx. tarsalis	50	CO2	8/13/13	WNV	RTPCR
Sacramento	SAYO243025	4103	Elk Grove	Cx. tarsalis	40	CO2	8/13/13	WNV	RTPCR
Sacramento	SAYO243025	4104	Elk Grove	Cx. pipiens	50	CO2	8/13/13	WNV	RTPCR
Sacramento	SAYO243025	4105	Elk Grove	Cx. pipiens	50	CO2	8/13/13	WNV	RTPCR
Sacramento	SAYO243025	4107	Elk Grove	Cx. pipiens	2	GRVD	8/13/13	WNV	RTPCR
Sacramento	SAYO245002	4084	Wilton	Cx. tarsalis	50	CO2	8/13/13	WNV	RTPCR
San Bernardino	SANB1	301	Needles	Cx. tarsalis	50	CO2	8/7/13	WNV	RTPCR
San Bernardino	SANB40	298	Ontario	Cx. quinquefasciatus	38	CO2	8/7/13	WNV	RTPCR
San Bernardino	SANB56	303	Rancho Cucamonga	Cx. quinquefasciatus	5	CO2	8/8/13	WNV	RTPCR
San Bernardino	WVAL1007	855	Ontario	Cx. quinquefasciatus	50	CO2	8/13/13	WNV	RTPCR
San Bernardino	WVAL2012	862	Chino	Cx. quinquefasciatus	50	CO2	8/13/13	WNV	RTPCR
San Bernardino	WVAL2018	847	Chino	Cx. quinquefasciatus	11	GRVD	8/13/13	WNV	RTPCR
San Bernardino	WVAL6003	850	Ontario	Cx. quinquefasciatus	5	GRVD	8/13/13	WNV	RTPCR
San Bernardino	WVAL6004	806	Ontario	Cx. quinquefasciatus	50	GRVD	8/8/13	WNV	RTPCR
San Bernardino	WVAL6004	807	Ontario	Cx. quinquefasciatus	41	GRVD	8/8/13	WNV	RTPCR

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San Bernardino	WVAL6004	809	Ontario	Cx. quinquefasciatus	50	GRVD	8/8/13	WNV	RTPCR
San Bernardino	WVAL6004	812	Ontario	Cx. quinquefasciatus	27	GRVD	8/8/13	WNV	RTPCR
San Bernardino	WVAL6004	814	Ontario	Cx. quinquefasciatus	50	GRVD	8/8/13	WNV	RTPCR
San Bernardino	WVAL6004	815	Ontario	Cx. quinquefasciatus	50	GRVD	8/8/13	WNV	RTPCR
San Bernardino	WVAL6004	816	Ontario	Cx. quinquefasciatus	14	GRVD	8/8/13	WNV	RTPCR
San Bernardino	WVAL6004	817	Ontario	Cx. quinquefasciatus	50	GRVD	8/8/13	WNV	RTPCR
San Bernardino	WVAL6004	818	Ontario	Cx. quinquefasciatus	50	GRVD	8/8/13	WNV	RTPCR
San Bernardino	WVAL6004	822	Ontario	Cx. quinquefasciatus	54	GRVD	8/9/13	WNV	RTPCR
San Bernardino	WVAL6004	824	Ontario	Cx. quinquefasciatus	49	GRVD	8/9/13	WNV	RTPCR
San Bernardino	WVAL6004	826	Ontario	Cx. quinquefasciatus	50	GRVD	8/9/13	WNV	RTPCR
San Bernardino	WVAL6004	828	Ontario	Cx. quinquefasciatus	25	GRVD	8/9/13	WNV	RTPCR
San Bernardino	WVAL6004	866	Ontario	Cx. quinquefasciatus	34	GRVD	8/13/13	WNV	RTPCR
San Bernardino	WVAL6004	867	Ontario	Cx. quinquefasciatus	50	GRVD	8/13/13	WNV	RTPCR
San Bernardino	WVAL6004	868	Ontario	Cx. quinquefasciatus	13	GRVD	8/13/13	WNV	RTPCR
San Bernardino	WVAL6004	869	Ontario	Cx. quinquefasciatus	43	GRVD	8/13/13	WNV	RTPCR
San Bernardino	WVAL6004	871	Ontario	Cx. quinquefasciatus	50	GRVD	8/13/13	WNV	RTPCR
San Bernardino	WVAL6004	872	Ontario	Cx. quinquefasciatus	50	GRVD	8/13/13	WNV	RTPCR
San Bernardino	WVAL6004	875	Ontario	Cx. quinquefasciatus	48	GRVD	8/14/13	WNV	RTPCR
San Bernardino	WVAL6004	876	Ontario	Cx. quinquefasciatus	35	GRVD	8/14/13	WNV	RTPCR
San Bernardino	WVAL6004	877	Ontario	Cx. quinquefasciatus	50	GRVD	8/14/13	WNV	RTPCR
San Bernardino	WVAL6004	878	Ontario	Cx. quinquefasciatus	50	GRVD	8/14/13	WNV	RTPCR
San Bernardino	WVAL6004	879	Ontario	Cx. quinquefasciatus	21	GRVD	8/14/13	WNV	RTPCR
San Joaquin	SJCM7021	998	Stockton	Cx. pipiens	9	GRVD	8/13/13	WNV	RTPCR
San Joaquin	SJCM8018	1017	Stockton	Cx. tarsalis	50	CO2	8/14/13	WNV	RTPCR
San Joaquin	SJCM8021	981	Lodi	Cx. tarsalis	50	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8029	1029	Farmington	Cx. pipiens	28	CO2	8/15/13	WNV	RTPCR
San Joaquin	SJCM8041	990	Lodi	Cx. tarsalis	24	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8041	991	Lodi	Cx. pipiens	44	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8056	977	Manteca	Cx. tarsalis	24	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8056	978	Manteca	Cx. pipiens	50	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8056	979	Manteca	Cx. pipiens	26	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8079	969	Manteca	Cx. tarsalis	5	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8079	970	Manteca	Cx. pipiens	50	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8079	971	Manteca	Cx. pipiens	50	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8079	972	Manteca	Cx. pipiens	50	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8079	973	Manteca	Cx. pipiens	50	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8079	974	Manteca	Cx. pipiens	53	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8124	1022	Clements	Cx. tarsalis	12	CO2	8/15/13	WNV	RTPCR
San Joaquin	SJCM8125	1015	Stockton	Cx. tarsalis	5	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8143	968	Stockton	Cx. tarsalis	15	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8191	999	Lodi	Cx. pipiens	6	CO2	8/13/13	WNV	RTPCR
San Joaquin	SJCM8191	1000	Lodi	Cx. tarsalis	40	CO2	8/13/13	WNV	RTPCR
Santa Clara	STCL3397	4716	San Jose	Cx. pipiens	25	CO2	8/7/13	WNV	PCR
Santa Clara	STCL3413	4725	San Jose	Cx. tarsalis	4	CO2	8/8/13	WNV	PCR
Stanislaus	EAST1004	13211	Modesto	Cx. tarsalis	50	CO2	8/14/13	WNV	RAMP
Stanislaus	TRLK1319	439	Turlock	Cx. pipiens	50	CO2	8/12/13	WNV	RTPCR
Stanislaus	TRLK1322	478	Ceres	Cx. pipiens	3	CO2	8/13/13	WNV	RTPCR
Sutter	SUYA103	352	Yuba City	Cx. tarsalis	6	CO2	8/12/13	WNV	RTPCR
Sutter	SUYA103	353	Yuba City	Cx. pipiens	8	CO2	8/12/13	WNV	RTPCR
Tulare	DLNO10	52	Earlimart	Cx. quinquefasciatus	50	GRVD	8/12/13	WNV	RTPCR

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Tulare	TLRE66	34	Woodville	Cx. pipiens	50	CO2	8/14/13	WNV	RTPCR
Tulare	TLRE66	35	Woodville	Cx. pipiens	50	CO2	8/14/13	WNV	RTPCR
Yolo	SAYO135003	4191	Woodland	Cx. tarsalis	50	CO2	8/13/13	WNV	RTPCR
Yolo	SAYO135003	4192	Woodland	Cx. tarsalis	50	CO2	8/13/13	WNV	RTPCR
Yolo	SAYO135003	4193	Woodland	Cx. tarsalis	44	CO2	8/13/13	WNV	RTPCR
Yolo	SAYO135003	4195	Woodland	Cx. pipiens	2	GRVD	8/13/13	WNV	RTPCR
Yolo	SAYO145013	4198	Davis	Cx. tarsalis	50	CO2	8/13/13	WNV	RTPCR
Yuba	SUYA97	343	Marysville	Cx. tarsalis	28	REST	8/12/13	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Los Angeles	ANTV007263	Lancaster	8/7/13	WNV	3658	3659	3660		
Los Angeles	ANTV008656	Lancaster	8/7/13	WNV	3607				
Riverside	COAV000035	Mecca	8/5/13	WNV	3182				
Riverside	COAV000122	Mecca	8/5/13	WNV	3186				
San Bernardino	SANB000001	Needles	7/23/13	WNV	3303	3306	3307	3308	3309
San Bernardino	SANB000006	Yucaipa	7/22/13	WNV	3348				
Yolo	SAYO103008	Dunnigan	7/29/13	WNV	2146				
Yolo	SAYO116006	Knights Landing	7/29/13	WNV	2156				

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.

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.westnile.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