

California Arbovirus Surveillance Bulletin #25

Week 34 Friday, August 23, 2013



WEEKLY UPDATE

Human Cases

A total of 22 new cases of West Nile virus (WNV) illness were reported this week from Butte (2), Contra Costa (1), Kern (2), Los Angeles (12), Placer (1), Sacramento (1), San Joaquin (1), Sutter (1), and Yolo (1) counties. **These are the first WNV human cases reported from Placer and Sutter counties this year.** As of August 20, 2013, a total of 59 WNV cases have been reported from 18 counties: Butte (3), Colusa (1), Contra Costa (2), Fresno (2), Glenn (3), Kern (4), Los Angeles (27), Orange (1), Placer (1), Riverside (2), Sacramento (3), San Joaquin (3), Santa Clara (1), Solano (1), Stanislaus (1), Sutter (1), Ventura (1), Yolo (2). Of the 59 case-patients, 45 (76%) had neuroinvasive illness. The median age of the 59 individuals where data are available is 57 years (range: 11-91 years); 37 (63%) of 59 case-patients are male. Dates of symptom onset for individuals where data were available range from June 20 to August 12, 2013. Four WNV-related fatalities have been reported to date in Sacramento (1) and Los Angeles (1), Glenn (1), and San Joaquin (1) counties. A total of 13 WNV-positive blood donors have been reported this year; to date none of these individuals have developed symptoms. At this time last year, 41 cases had been reported from 15 counties.

National Comments: As of August 20, 2013, 296 cases had been reported nationwide from 27 states. Of these, 145 (49%) were classified as neuroinvasive disease, and 11 (4%) died.

Horses

No new equine cases of WNV illness were reported this week. 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, eight horses had tested positive for WNV from six counties.

Dead Birds & Squirrels

A total of 124 WNV positive birds were reported this week from the following 19 counties: Alameda (1), Butte (9), Contra Costa (7), Glenn (1), Lake (1), Los Angeles (62), Marin (2), Merced (2), Napa (1), Nevada (1), Orange (4), Riverside (1), Sacramento (7), San Bernardino (2), San Joaquin (1), Santa Clara (4), Shasta (8), Stanislaus (1), and Yolo (9). **This is the first indication of WNV activity in Napa County this year.** One tree squirrel tested positive for WNV in Los Angeles County. An additional 27 dead birds and one dead squirrel tested positive for chronic WNV infection. In 2013, 831 dead birds have tested positive for WNV from 37 counties and 4 dead squirrels have tested positive for WNV from 3 counties. At this time last year, 855 dead birds and 2 dead squirrels had tested positive for WNV from 29 and 2 counties, respectively.

Mosquito Pools

A total of 213 WNV positive mosquito pools were reported this week from 21 counties: Butte (4), Contra Costa (6), Fresno (4), Glenn (2), Kern (4), Kings (5), Lake (16), Los Angeles (32), Merced (1), Orange (2), Placer (5), Riverside (2), Sacramento (38), San Bernardino (1), San Joaquin (13), Santa Clara (2), Shasta (1), Stanislaus (38), Sutter (4), Tulare (7), and Yolo (26). In 2013, 1,349 mosquito pools from 25 counties have tested positive for WNV. At this time last year, 1,596 mosquito pools from 28 counties had tested positive for WNV.

Sentinel Chickens

A total of 55 sentinel chickens tested positive for WNV antibodies this week from 34 flocks in the following 14 counties: Butte (9), Colusa (2), Contra Costa (4), Glenn (3), Kern (1), Lake (1), Los Angeles (12), Merced (4), Riverside (2), San Bernardino (4), Shasta (1), Solano (1), Stanislaus (3) and Sutter (8). **These are the first WNV seroconversions detected in Contra Costa County this year.** In 2013, 229 WNV antibody-positive chickens have been detected among 68 flocks in 19 counties. At this time last year, 168 WNV antibody-positive chickens had been detected among 51 flocks in 16 counties.

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2012 & 2013 YTD West Nile Virus Comparisons		
	2012	2013
Total # Dead Bird Reports	12,094	10,788
# Positive Counties	34	38
# Human Cases	41	59
# Horse Cases	8	8
# Positive Dead Birds / # Tested	855 / 2,601	831 / 2,513
# Positive Mosquito Pools / # Tested	1,596 / 20,943	1,562 / 20,629
# Seroconversions / # Tested	168 / 16,452	229 / 11,364
# Positive Squirrels / # Tested	2 / 81	4 / 88

YTD WNV Activity by Element and County, 2013						
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			9			
Butte	3		34	32	39	
Colusa	1		1		8	
Contra Costa	2		46	10	4	1
Fresno	2		7	41		
Glenn	3		7	13	9	
Humboldt			1			
Kern	4	1	2	85	2	
Kings			10	55		
Lake			7	46	2	
Los Angeles	27		264	255	60	2
Madera			7	12		
Marin			4		1	
Mendocino			1			
Merced			28	7	11	
Napa			1			
Nevada			4			
Orange	1		16	11		
Placer	1	1	19	76	4	
Riverside	2	1	14	47	13	
Sacramento	3	3	117	277	2	
San Bernardino			12	118	12	1
San Diego			5			
San Joaquin	3		26	89		
San Luis Obispo				1		
Santa Clara	1		38	19		
Santa Cruz			1			
Shasta			26	4	6	
Solano	1		5	1	5	
Sonoma			7			
Stanislaus	1	2	9	71	8	
Sutter	1		14	62	30	
Tehama			2		1	
Trinity			1			
Tulare			3	25		
Ventura	1		6			
Yolo	2		70	194	3	
Yuba			7	11	9	
Totals	59	8	831	1,562	229	4

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TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	22	0	0	0	0	0
	YTD	59	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	218	124
	YTD	2,513	831
Tree Squirrels	Week	8	1
	YTD	88	4

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	594	55	0	0
	YTD	11,364	229	0	0
Mosquito Pools	Week	1,410	213	0	0
	YTD	20,629	1,562	0	0

POSITIVES

Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda MAD	Fremont	94539	American Crow	8/9/2013	WNV	Chronic	RT-PCR
Alameda	Alameda MAD	Livermore	94551	American Crow	8/12/2013	WNV	Chronic	RT-PCR
Alameda	Alameda MAD	Emeryville	94608	American Crow	8/6/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95926	American Crow	8/8/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95929	American Crow	8/8/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95929	American Crow	8/8/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Durham	95938	Western Scrub-Jay	8/11/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Paradise	95969	Western Scrub-Jay	8/7/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Paradise	95969	American Crow	8/12/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95973	American Crow	8/7/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95973	American Crow	8/8/2013	WNV	Recent	RT-PCR
Butte	Butte MVCD	Chico	95973	Eastern Gray Squirrel	8/7/2013	WNV	Chronic	RT-PCR
Butte	Oroville MAD	Oroville	95966	Western Scrub-Jay	8/8/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Antioch	94509	American Crow	8/13/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Antioch	94509	Western Scrub-Jay	8/6/2013	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/20/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94518	American Crow	8/19/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94520	American Crow	8/21/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Antioch	94531	American Crow	8/20/2013	WNV	Recent	RAMP

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Contra Costa	Contra Costa MVCD	Martinez	94553	American Crow	8/19/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Walnut Creek	94597	American Crow	8/21/2013	WNV	Recent	RAMP
Glenn	Glenn Co MVCD	Orland	95963	Yellow-billed Magpie	8/14/2013	WNV	Recent	RT-PCR
Lake	Lake Co VCD	Witter Springs	95493	American Crow	8/8/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Downey	90241	Northern Mockingbird	7/30/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Gardena	90247	House Finch	7/31/2013	WNV	Chronic	RT-PCR
Los Angeles	Greater LA VCD - SFS	Whittier	90606	American Crow	7/29/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Norwalk	90650	American Crow	7/31/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Pico Rivera	90660	American Crow	8/5/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Cerritos	90703	House Sparrow	7/30/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	San Pedro	90732	Orchard Oriole	8/1/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	San Pedro	90732	House Finch	8/9/2013	WNV	Chronic	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90803	Western Scrub-Jay	7/31/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90808	American Crow	7/30/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90808	American Crow	8/2/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90808	American Crow	8/1/2013	WNV	Chronic	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90810	American Crow	7/31/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90810	American Crow	7/31/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFLm.	Valencia	91354	House Finch	8/8/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD	Long Beach	90803	Fox Squirrel	8/1/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90045	American Crow	8/5/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90095	Great Horned Owl	8/6/2013	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Culver City	90232	American Crow	8/4/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Gardena	90247	American Crow	8/5/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Gardena	90249	American Crow	7/29/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Hermosa Beach	90254	American Crow	8/2/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Hermosa Beach	90254	American Crow	8/6/2013	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Manhattan Beach	90266	American Crow	8/3/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Manhattan Beach	90266	American Crow	8/6/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Manhattan Beach	90266	American Crow	8/6/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Manhattan Beach	90266	American Crow	8/3/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Manhattan Beach	90266	American Crow	7/26/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Palos Verdes Estates	90274	American Crow	8/9/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Rancho Palos Verdes	90275	Western Scrub-Jay	8/8/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	8/6/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	8/2/2013	WNV	Recent	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	8/4/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	8/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	8/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	8/11/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	8/7/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	8/2/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	8/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	8/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	8/2/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	8/7/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	8/12/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	8/4/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	8/4/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Inglewood	90303	American Crow	8/3/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Torrance	90502	American Crow	8/4/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Lomita	90717	American Crow	8/1/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	San Pedro	90731	American Crow	8/8/2013	WNV	Recent	RT-PCR

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Los Angeles	LA Co Vet	San Pedro	90732	American Crow	8/12/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Long Beach	90803	American Crow	8/5/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Long Beach	90806	American Crow	7/31/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Long Beach	90806	American Crow	8/4/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Long Beach	90806	American Crow	8/5/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Pasadena	91107	American Crow	8/8/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	North Hills	91343	Cooper's Hawk	8/11/2013	WNV	Chronic	RT-PCR
Los Angeles	LA Co Vet	Santa Clarita	91350	American Crow	8/6/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Van Nuys	91406	American Crow	7/31/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Burbank	91502	American Crow	8/5/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	North Hollywood	91601	American Crow	8/14/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	West Covina	91791	Red-shouldered Hawk	7/31/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Los Angeles	90034	American Crow	8/9/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Culver City	90232	American Crow	8/8/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	El Segundo	90245	American Crow	8/7/2013	WNV	Chronic	RT-PCR
Los Angeles	LA West VCD	Manhattan Beach	90266	American Crow	8/13/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Rolling Hills	90274	Common Raven	8/13/2013	WNV	Chronic	RT-PCR
Los Angeles	LA West VCD	Playa Del Rey	90293	American Crow	8/8/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Torrance	90503	House Finch	8/13/2013	WNV	Recent	RT-PCR
Los Angeles	LA West VCD	Torrance	90505	American Crow	8/9/2013	WNV	Recent	RT-PCR
Los Angeles	Pasadena Humane Soc	Pasadena	91104	American Crow	8/8/2013	WNV	Recent	RT-PCR
Marin	Marin-Sonoma MVCD	Novato	94945	American Crow	8/12/2013	WNV	Recent	RT-PCR
Marin	Marin-Sonoma MVCD	Novato	94947	Western Scrub-Jay	8/9/2013	WNV	Recent	RT-PCR
Merced	Merced MAD	Atwater	95301	House Sparrow	8/9/2013	WNV	Chronic	RT-PCR
Merced	Merced MAD	Merced	95340	American Crow	8/8/2013	WNV	Recent	RT-PCR
Merced	Merced MAD	Merced	95341	American Crow	8/9/2013	WNV	Recent	RT-PCR
Napa	Napa MAD	Calistoga	94515	Western Scrub-Jay	8/9/2013	WNV	Recent	RT-PCR
Nevada	Nevada Co EH	Grass Valley	95949	Western Scrub-Jay	8/12/2013	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Buena Park	90621	American Crow	8/13/2013	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Midway City	92655	American Crow	8/8/2013	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Midway City	92655	American Crow	8/8/2013	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Garden Grove	92841	American Crow	8/14/2013	WNV	Recent	RT-PCR
Placer	Placer MVCD	Rocklin	95765	House Finch	8/6/2013	WNV	Chronic	RT-PCR
Riverside	NW Mosquito VCD	Riverside	92506	American Crow	8/12/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	Yellow-billed Magpie	8/12/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	California Towhee	8/8/2013	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	Western Scrub-Jay	8/12/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	McClellan	95822	American Crow	8/7/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95822	American Crow	8/9/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95822	American Crow	8/12/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	McClellan	95831	American Crow	8/7/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95864	American Crow	8/13/2013	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Chino Hills	91709	Cooper's Hawk	8/8/2013	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Rancho Cucamonga	91739	House Finch	8/8/2013	WNV	Chronic	RT-PCR
San Bernardino	West Valley MVCD	Montclair	91763	American Crow	8/8/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin MVCD	Stockton	95215	Yellow-billed Magpie	8/14/2013	WNV	Recent	RT-PCR
San Mateo	San Mateo MAD	East Palo Alto	94303	California Towhee	8/12/2013	WNV	Chronic	RT-PCR
Santa Barbara	Santa Barbara MVMD	Solvang	93463	American Crow	8/8/2013	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara VCD	Sunnyvale	94086	American Crow	8/8/2013	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara VCD	Milpitas	95035	American Crow	8/9/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95111	American Crow	8/9/2013	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95123	American Crow	8/12/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95123	American Crow	8/12/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara VCD	San Jose	95132	American Crow	8/12/2013	WNV	Recent	RT-PCR

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Santa Clara	Santa Clara VCD	San Jose	95133	American Crow	8/11/2013	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Boulder Creek	95006	Common Raven	8/11/2013	WNV	Chronic	RT-PCR
Shasta	Shasta MVCD	Redding	96001	Western Scrub-Jay	8/12/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Redding	96001	American Crow	8/9/2013	WNV	Chronic	RT-PCR
Shasta	Shasta MVCD	Redding	96002	American Crow	8/12/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Redding	96003	House Finch	8/8/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Anderson	96007	Yellow-billed Magpie	8/12/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Anderson	96007	House Finch	8/12/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Anderson	96007	American Crow	8/11/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Cottonwood	96022	Western Scrub-Jay	8/12/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Palo Cedro	96073	American Crow	8/12/2013	WNV	Recent	RT-PCR
Sonoma	Marin-Sonoma MVCD	Rohnert Park	94928	American Crow	8/9/2013	WNV	Chronic	RT-PCR
Sonoma	Marin-Sonoma MVCD	Forestville	95436	Turkey Vulture	8/14/2013	WNV	Chronic	RT-PCR
Stanislaus	Turlock MAD	Turlock	95382	Western Scrub-Jay	8/9/2013	WNV	Chronic	RT-PCR
Stanislaus	Turlock MAD	Modesto	95358	Yellow-billed Magpie	8/12/2013	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	Anna's Hummingbird	8/12/2013	WNV	Chronic	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	8/12/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	Western Scrub-Jay	8/12/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	8/7/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	Western Scrub-Jay	8/13/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	8/13/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	8/12/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Madison	95653	American Crow	8/9/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	West Sacramento	95691	American Crow	8/7/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95776	Western Scrub-Jay	8/12/2013	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Wheatland	95692	American Crow	8/12/2013	WNV	Chronic	RT-PCR

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus	Method
Butte	BUCO48	88	Cx. tarsalis	Chico	50	CO2	8/14/13	WNV	RTPCR
Butte	BUCO48	89	Cx. erythrothorax	Chico	50	CO2	8/14/13	WNV	RTPCR
Butte	BUCO67	81	Cx. tarsalis	Gridley	50	CO2	8/13/13	WNV	RTPCR
Butte	BUCO74	85	Cx. tarsalis	Chico	50	CO2	8/13/13	WNV	RTPCR
Contra Costa	CNTR1688	250	Cx. tarsalis	Brentwood	9	CO2	8/19/13	WNV	RAMP
Contra Costa	CNTR1688	268	Cx. pipiens	Brentwood	4	CO2	8/20/13	WNV	RAMP
Contra Costa	CNTR1688	271	Cx. tarsalis	Brentwood	17	CO2	8/22/13	WNV	RAMP
Contra Costa	CNTR1988	256	Cx. tarsalis	Brentwood	24	CO2	8/20/13	WNV	RAMP
Contra Costa	CNTR3772	265	Cx. pipiens	Brentwood	8	CO2	8/20/13	WNV	RAMP
Contra Costa	CNTR3811	260	Cx. pipiens	Brentwood	6	CO2	8/20/13	WNV	RAMP
Fresno	CNSL4181	653	Cx. quinquefasciatus	Fowler	50	GRVD	8/16/13	WNV	RTPCR
Fresno	CNSL6125	645	Cx. quinquefasciatus	Riverdale	50	CO2	8/15/13	WNV	RTPCR
Fresno	FRNO14	36	Cx. quinquefasciatus	Fresno	50	GRVD	8/14/13	WNV	RTPCR
Fresno	FRWS500003	101	Cx. tarsalis	Mendota	42	CO2	8/15/13	WNV	RTPCR
Glenn	BUCO47	92	Cx. tarsalis	Hamilton City	50	CO2	8/19/13	WNV	RTPCR
Glenn	BUCO47	93	Cx. tarsalis	Hamilton City	50	CO2	8/19/13	WNV	RTPCR
Kern	DLNO3	53	Cx. quinquefasciatus	Delano	12	GRVD	8/19/13	WNV	RTPCR
Kern	DLNO4	54	Cx. quinquefasciatus	Delano	12	GRVD	8/19/13	WNV	RTPCR
Kern	DLNO7	55	Cx. quinquefasciatus	Delano	14	GRVD	8/19/13	WNV	RTPCR
Kern	DLNO9	56	Cx. quinquefasciatus	McFarland	48	GRVD	8/19/13	WNV	RTPCR
Kings	KNGS3005	242	Cx. tarsalis	Lemoore NAS	31	CO2	8/14/13	WNV	RTPCR

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Kings	KNGS3025	233	Cx. pipiens	Goshen	33	CO2	8/13/13	WNV	RTPCR
Kings	KNGS3089	227	Cx. pipiens	Hanford	20	CO2	8/12/13	WNV	RTPCR
Kings	KNGS5504	229	Cx. pipiens	Hanford	11	CO2	8/12/13	WNV	RTPCR
Kings	KNGS8005	248	Cx. tarsalis	Stratford	24	CO2	8/15/13	WNV	RTPCR
Lake	LAKE1000	304	Cx. tarsalis	Upper Lake	18	REST	8/20/13	WNV	RTPCR
Lake	LAKE130	312	Cx. tarsalis	Lower Lake	50	CO2	8/21/13	WNV	RTPCR
Lake	LAKE1508	305	Cx. stigmatosoma	Kelseyville	26	REST	8/21/13	WNV	RTPCR
Lake	LAKE195	261	Cx. tarsalis		27	REST	8/15/13	WNV	RTPCR
Lake	LAKE293	269	Cx. tarsalis	Lakeport	38	CO2	8/20/13	WNV	RTPCR
Lake	LAKE80	258	Cx. tarsalis		41	REST	8/14/13	WNV	RTPCR
Lake	LAKE80	267	Cx. tarsalis		49	REST	8/19/13	WNV	RTPCR
Lake	LAKE80	284	Cx. tarsalis		50	CO2	8/20/13	WNV	RTPCR
Lake	LAKE80	285	Cx. tarsalis		50	CO2	8/20/13	WNV	RTPCR
Lake	LAKE80	286	Cx. tarsalis		50	CO2	8/20/13	WNV	RTPCR
Lake	LAKE80	302	Cx. tarsalis		36	REST	8/20/13	WNV	RTPCR
Lake	LAKE93	296	Cx. tarsalis		50	CO2	8/20/13	WNV	RTPCR
Lake	LAKE93	297	Cx. tarsalis		50	CO2	8/20/13	WNV	RTPCR
Lake	LAKE93	298	Cx. tarsalis		50	CO2	8/20/13	WNV	RTPCR
Lake	LAKE93	300	Cx. tarsalis		50	CO2	8/20/13	WNV	RTPCR
Lake	LAKE94	292	Cx. tarsalis		50	CO2	8/20/13	WNV	RTPCR
Los Angeles	ANTV4374	8	Cx. tarsalis	Lancaster	50	CO2	8/20/13	WNV	RTPCR
Los Angeles	GRLA2007	5872	Cx. quinquefasciatus	Toluca Lake	50	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA2017	5886	Cx. quinquefasciatus	Toluca Lake	45	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA2115	784	Cx. quinquefasciatus	Bell	37	GRVD	8/13/13	WNV	RTPCR
Los Angeles	GRLA2123	806	Cx. quinquefasciatus	Harbor City	17	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA2133	804	Cx. quinquefasciatus	Wilmington	47	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA2270	793	Cx. quinquefasciatus	Bellflower	27	GRVD	8/13/13	WNV	RTPCR
Los Angeles	GRLA2301	802	Cx. quinquefasciatus	Willowbrook	50	GRVD	8/14/13	WNV	RTPCR
Los Angeles	GRLA2321	807	Cx. quinquefasciatus	Carson	39	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA2478	5853	Cx. quinquefasciatus	Sunland	50	GRVD	8/13/13	WNV	RTPCR
Los Angeles	GRLA2550	5858	Cx. quinquefasciatus	Mission Hills	50	GRVD	8/13/13	WNV	RTPCR
Los Angeles	GRLA2614	5889	Cx. quinquefasciatus	Newhall	45	GRVD	8/16/13	WNV	RTPCR
Los Angeles	GRLA3027	5873	Cx. quinquefasciatus	Studio City	50	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA3027	5874	Cx. quinquefasciatus	Studio City	26	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA3029	5857	Cx. quinquefasciatus	Arleta	37	GRVD	8/13/13	WNV	RTPCR
Los Angeles	GRLA3037	5870	Cx. quinquefasciatus	La Crescenta	18	GRVD	8/14/13	WNV	RTPCR
Los Angeles	GRLA3038	5877	Cx. quinquefasciatus	Valley Village	50	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA3047	795	Cx. quinquefasciatus	Downey	21	GRVD	8/13/13	WNV	RTPCR
Los Angeles	GRLA3055	785	Cx. quinquefasciatus	Maywood	47	GRVD	8/13/13	WNV	RTPCR
Los Angeles	GRLA3057	788	Cx. quinquefasciatus	Huntington Park	43	GRVD	8/13/13	WNV	RTPCR
Los Angeles	GRLA3062	800	Cx. quinquefasciatus	Los Angeles	50	GRVD	8/14/13	WNV	RTPCR
Los Angeles	GRLA3064	801	Cx. quinquefasciatus	Los Angeles	50	GRVD	8/14/13	WNV	RTPCR
Los Angeles	GRLA3065	803	Cx. quinquefasciatus	Los Angeles	37	GRVD	8/14/13	WNV	RTPCR
Los Angeles	GRLA3066	5881	Cx. quinquefasciatus	North Hollywood	50	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA3066	5882	Cx. quinquefasciatus	North Hollywood	42	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA3068	805	Cx. quinquefasciatus	Wilmington	50	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA3069	5879	Cx. quinquefasciatus	Valley Village	45	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA3076	5887	Cx. quinquefasciatus	Valley Glen	50	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA3076	5888	Cx. quinquefasciatus	Valley Glen	29	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA3079	5880	Cx. quinquefasciatus	Simi Valley	50	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA3080	5883	Cx. quinquefasciatus	North Hollywood	50	GRVD	8/15/13	WNV	RTPCR
Los Angeles	GRLA3102	5875	Cx. quinquefasciatus	Studio City	44	GRVD	8/15/13	WNV	RTPCR
Merced	MERC405	94	Cx. pipiens	Hilmar	2	CO2	8/15/13	WNV	RTPCR
Orange	ORCO33	1127	Cx. quinquefasciatus	Westminster	52	GRVD	8/20/13	WNV	RTPCR

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Orange	ORCO36	1154	Cx. quinquefasciatus	Cypress	24	GRVD	8/21/13	WNV	RTPCR
Placer	PLCR1003	1398	Cx. tarsalis	Lincoln	50	CO2	8/20/13	WNV	RTPCR
Placer	PLCR1070	1383	Cx. tarsalis	Roseville	50	CO2	8/20/13	WNV	RTPCR
Placer	PLCR30	1373	Cx. pipiens	Lincoln	50	CO2	8/20/13	WNV	RTPCR
Placer	PLCR669	1340	Cx. pipiens	Auburn	2	CO2	8/15/13	WNV	RTPCR
Placer	PLCR88	1432	Cx. tarsalis	Lincoln	18	CO2	8/21/13	WNV	RTPCR
Riverside	NWST27	153	Cx. quinquefasciatus	CORONA	34	CO2	8/16/13	WNV	RTPCR
Riverside	NWST34	167	Cx. quinquefasciatus	Riverside	9	GRVD	8/20/13	WNV	RTPCR
Sacramento	SAYO201006	4262	Cx. tarsalis	Sacramento	50	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO201006	4263	Cx. tarsalis	Sacramento	50	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO201009	4264	Cx. tarsalis	Sacramento	50	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO201009	4265	Cx. tarsalis	Sacramento	18	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO203017	4476	Cx. tarsalis	Rio Linda	1	CO2	8/20/13	WNV	RTPCR
Sacramento	SAYO204037	4463	Cx. pipiens	Citrus Heights	15	CO2	8/20/13	WNV	RTPCR
Sacramento	SAYO213007	4473	Cx. tarsalis	Sacramento	5	CO2	8/20/13	WNV	RTPCR
Sacramento	SAYO213007	4474	Cx. pipiens	Sacramento	4	CO2	8/20/13	WNV	RTPCR
Sacramento	SAYO213007	4475	Cx. pipiens	Sacramento	23	GRVD	8/20/13	WNV	RTPCR
Sacramento	SAYO214009	4457	Cx. pipiens	Fair Oaks	50	GRVD	8/20/13	WNV	RTPCR
Sacramento	SAYO222001	4423	Cx. tarsalis	Sacramento	1	GRVD	8/20/13	WNV	RTPCR
Sacramento	SAYO222036	4409	Cx. tarsalis	Sacramento	45	CO2	8/20/13	WNV	RTPCR
Sacramento	SAYO223016	4407	Cx. pipiens	Sacramento	27	CO2	8/20/13	WNV	RTPCR
Sacramento	SAYO223019	4431	Cx. pipiens	Sacramento	19	GRVD	8/20/13	WNV	RTPCR
Sacramento	SAYO233003	4401	Cx. tarsalis	Elk Grove	42	CO2	8/20/13	WNV	RTPCR
Sacramento	SAYO233026	4389	Cx. pipiens	Elk Grove	6	GRVD	8/20/13	WNV	RTPCR
Sacramento	SAYO233046	4400	Cx. pipiens	Elk Grove	14	GRVD	8/20/13	WNV	RTPCR
Sacramento	SAYO234015	4421	Cx. tarsalis	Elk Grove	33	CO2	8/20/13	WNV	RTPCR
Sacramento	SAYO234015	4422	Cx. pipiens	Elk Grove	7	CO2	8/20/13	WNV	RTPCR
Sacramento	SAYO253009	4246	Cx. tarsalis	Galt	24	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO253011	4253	Cx. tarsalis	Galt	50	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO253011	4255	Cx. tarsalis	Galt	22	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO254011	4250	Cx. pipiens	Galt	6	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO254011	4251	Cx. pipiens	Galt	1	GRVD	8/16/13	WNV	RTPCR
Sacramento	SAYO254015	4234	Cx. tarsalis	Galt	14	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO254022	4240	Cx. tarsalis	Galt	36	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO254022	4242	Cx. pipiens	Galt	50	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO254022	4243	Cx. pipiens	Galt	13	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO254024	4230	Cx. pipiens	Galt	50	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO254024	4231	Cx. pipiens	Galt	50	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO254024	4232	Cx. pipiens	Galt	14	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO255007	4220	Cx. tarsalis	Herald	50	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO255007	4224	Cx. pipiens	Herald	50	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO261003	4290	Cx. tarsalis	Isleton	50	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO261003	4291	Cx. tarsalis	Isleton	50	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO261003	4292	Cx. tarsalis	Isleton	35	CO2	8/16/13	WNV	RTPCR
Sacramento	SAYO261003	4293	Cx. tarsalis	Isleton	1	GRVD	8/16/13	WNV	RTPCR
Sacramento	SAYO280001	4286	Cx. tarsalis	Rio Vista	53	CO2	8/16/13	WNV	RTPCR
San Bernardino	SANB39	328	Cx. quinquefasciatus	Upland	30	CO2	8/14/13	WNV	RTPCR
San Joaquin	SJCM7017	1084	Cx. pipiens	Manteca	1	GRVD	8/22/13	WNV	RTPCR
San Joaquin	SJCM7021	1070	Cx. pipiens	Stockton	13	GRVD	8/20/13	WNV	RTPCR
San Joaquin	SJCM7026	1052	Cx. pipiens	Tracy	6	GRVD	8/20/13	WNV	RTPCR
San Joaquin	SJCM8005	1073	Cx. pipiens	Stockton	6	CO2	8/20/13	WNV	RTPCR
San Joaquin	SJCM8027	1075	Cx. tarsalis	McDonald Isl. bridge	10	CO2	8/20/13	WNV	RTPCR
San Joaquin	SJCM8079	1058	Cx. pipiens	Manteca	50	CO2	8/20/13	WNV	RTPCR
San Joaquin	SJCM8079	1059	Cx. pipiens	Manteca	50	CO2	8/20/13	WNV	RTPCR

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San Joaquin	SJCM8079	1060	Cx. pipiens	Manteca	50	CO2	8/20/13	WNV	RTPCR
San Joaquin	SJCM8079	1061	Cx. pipiens	Manteca	49	CO2	8/20/13	WNV	RTPCR
San Joaquin	SJCM8144	1034	Cx. tarsalis	Mt. House/ Tracy	22	CO2	8/20/13	WNV	RTPCR
San Joaquin	SJCM8161	1048	Cx. pipiens	Ripon	50	CO2	8/20/13	WNV	RTPCR
San Joaquin	SJCM8185	1089	Cx. pipiens	Manteca	6	CO2	8/22/13	WNV	RTPCR
San Joaquin	SJCM9906	1086	Cx. pipiens	French Camp	20	CO2	8/22/13	WNV	RTPCR
Santa Clara	STCL3276	4862	Cx. pipiens	San Jose	9	CO2	8/17/13	WNV	PCR
Santa Clara	STCL3435	4822	Cx. pipiens	Milpitas	25	CO2	8/14/13	WNV	PCR
Shasta	SHAS211	186	Cx. tarsalis	Redding	50	CO2	8/15/13	WNV	RTPCR
Stanislaus	EAST1075	13225	Cx. pipiens	Riverbank	50	CO2	8/20/13	WNV	RAMP
Stanislaus	EAST3	13230	Cx. tarsalis	SALIDA	15	CO2	8/20/13	WNV	RAMP
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	TRLK1225	562	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK1301	488	Cx. pipiens	Denair	50	CO2	8/15/13	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	495	Cx. pipiens	Turlock	11	CO2	8/15/13	WNV	RTPCR
Stanislaus	TRLK1313	507	Cx. pipiens	Turlock	50	CO2	8/15/13	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	594	Cx. pipiens	Turlock	40	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK1320	532	Cx. tarsalis	Turlock	38	CO2	8/15/13	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	TRLK432	568	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	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	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	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	TRLK536	484	Cx. pipiens	Turlock	50	CO2	8/15/13	WNV	RTPCR
Stanislaus	TRLK536	551	Cx. pipiens	Turlock	50	CO2	8/20/13	WNV	RTPCR
Stanislaus	TRLK704	540	Cx. tarsalis	Turlock	50	CO2	8/15/13	WNV	RTPCR
Sutter	SUYA0	372	Unknown	Yuba City	50	NA	8/22/13	WNV	RTPCR
Sutter	SUYA0	379	Unknown	Yuba City	50	NA	8/22/13	WNV	RTPCR
Sutter	SUYA0	381	Unknown	Yuba City	50	NA	8/22/13	WNV	RTPCR
Sutter	SUYA0	397	Unknown	Yuba City	50	NA	8/22/13	WNV	RTPCR
Tulare	DLTA7316	363	Cx. quinquefasciatus	Traver	50	CO2	8/22/13	WNV	RTPCR
Tulare	DLTA7316	364	Cx. quinquefasciatus	Traver	50	CO2	8/22/13	WNV	RTPCR
Tulare	DLTA7316	368	Cx. quinquefasciatus	Traver	50	CO2	8/22/13	WNV	RTPCR

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Tulare	DLTA7316	376	Cx. tarsalis	Traver	24	CO2	8/22/13	WNV	RTPCR
Tulare	DLTA7316	378	Cx. quinquefasciatus	Traver	50	CO2	8/22/13	WNV	RTPCR
Tulare	DLTA9501	350	Cx. quinquefasciatus	Farmersville	18	GRVD	8/20/13	WNV	RTPCR
Tulare	KNGS3017	246	Cx. pipiens	Waukena	37	CO2	8/15/13	WNV	RTPCR
Yolo	SAYO103006	4333	Cx. tarsalis	Dunnigan	50	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO103006	4335	Cx. tarsalis	Dunnigan	50	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO103006	4337	Cx. tarsalis	Dunnigan	50	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO103007	4358	Cx. tarsalis	Dunnigan	50	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO103007	4360	Cx. tarsalis	Dunnigan	50	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO103007	4361	Cx. tarsalis	Dunnigan	50	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO114001	4354	Cx. tarsalis	Zamora	50	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO114001	4355	Cx. tarsalis	Zamora	50	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO114001	4356	Cx. tarsalis	Zamora	22	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO114001	4357	Cx. pipiens	Zamora	1	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO116002	4349	Cx. tarsalis	Knights Landing	50	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO116002	4350	Cx. tarsalis	Knights Landing	50	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO116002	4351	Cx. tarsalis	Knights Landing	37	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO123004	4329	Cx. tarsalis	Madison	50	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO123004	4330	Cx. tarsalis	Madison	47	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO123004	4331	Cx. pipiens	Madison	1	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO123004	4332	Cx. pipiens	Madison	1	GRVD	8/16/13	WNV	RTPCR
Yolo	SAYO135010	4508	Cx. tarsalis	Woodland	50	CO2	8/20/13	WNV	RTPCR
Yolo	SAYO135016	4308	Cx. tarsalis	Woodland	50	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO135016	4311	Cx. pipiens	Woodland	7	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO136010	4365	Cx. tarsalis	Woodland	50	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO136010	4367	Cx. tarsalis	Woodland	50	CO2	8/16/13	WNV	RTPCR
Yolo	SAYO145010	4539	Cx. tarsalis	Davis	50	CO2	8/20/13	WNV	RTPCR
Yolo	SAYO145010	4540	Cx. tarsalis	Davis	2	GRVD	8/20/13	WNV	RTPCR
Yolo	SAYO145015	4525	Cx. tarsalis	Davis	48	CO2	8/20/13	WNV	RTPCR
Yolo	SAYO146019	4528	Cx. tarsalis	Davis	50	CO2	8/20/13	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO0001	Chico	8/13/2013	WNV	1009			
Butte	BUCO0002	Oroville	8/13/2013	WNV	1022			
Butte	BUCO0003	Oroville	8/13/2013	WNV	1028			
Butte	BUCO0005	Honcut	8/13/2013	WNV	1049			
Butte	BUCO0006	Chico	8/13/2013	WNV	1060	1065	1066	
Butte	BUCO0007	Chico	8/13/2013	WNV	1067	1072		
Colusa	CLSA0001	Colusa	8/13/2013	WNV	1105	1106		
Contra Costa	CNTR7402	Oakley	8/12/2013	WNV	1134			
Contra Costa	CNTR8152	Knightsen	8/12/2013	WNV	1124	1129	1130	
Glenn	GLEN9701	Willows	8/14/2013	WNV	1254	1256	1257	
Kern	DLNO60	Delano	8/15/2013	WNV	1207			
Lake	LAKE1000	Upper Lake	8/12/2013	WNV	1269			
Los Angeles	GRLA2056	Long Beach	8/7/2013	WNV	2663			
Los Angeles	GRLA2132	Wilmington	8/7/2013	WNV	2633	2636	2638	
Los Angeles	GRLA2371	South El Monte	8/8/2013	WNV	2641			
Los Angeles	SGVA0004	Arcadia	8/15/2013	WNV	3813	3814	3815	3816
Los Angeles	SGVA0005	Irwindale	8/15/2013	WNV	3817	3818	3820	
Merced	MERC0501	El Nido	8/16/2013	WNV	1481	1485		
Merced	MERC0502	Hilmar	8/16/2013	WNV	1489			

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Merced	MERC0006	Merced	8/16/2013	WNV	1478			
Riverside	NWST9226		8/7/2013	WNV	3990			
Riverside	NWST9401	Corona	8/7/2013	WNV	3983			
San Bernardino	WVAL0001	Chino	8/7/2013	WNV	3751			
San Bernardino	WVAL0011	Ontario Airport	8/7/2013	WNV	3766			
San Bernardino	WVAL0002	Chino	8/7/2013	WNV	3754			
San Bernardino	WVAL0003	Chino Hills	8/7/2013	WNV	3756			
Shasta	SHAS9702	Millville	8/15/2013	WNV	1816			
Solano	SOLA0015	Winters	8/14/2013	WNV	1860			
Stanislaus	EAST1947	Modesto	8/14/2013	WNV	3877	3879	3880	
Sutter	SUYA0014	Sutter	8/15/2013	WNV	2048			
Sutter	SUYA0015	Robbins	8/15/2013	WNV	2035			
Sutter	SUYA0030	Live Oak	8/15/2013	WNV	2053			
Sutter	SUYA0031	Rio Oso	8/15/2013	WNV	2022	2024		
Sutter	SUYA0084	Yuba City	8/15/2013	WNV	2004	2005	2006	

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.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