

California Arbovirus Surveillance Bulletin #22

Week 31 Friday, August 2, 2013



WEEKLY UPDATE

Human Cases

Ten new cases of West Nile virus (WNV) illness were reported this week from Glenn (1), Los Angeles (5), Riverside (1), Sacramento (1), Solano (1), and Yolo (1) counties. As of August 2, 2013, a total of fourteen human cases of WNV illness have been reported in six counties. Of the 14 cases, 12 (86%) had neuroinvasive illness. The median age of the fourteen individuals where data are available is 62 years (range: 35-91 years); 11 (79%) of fourteen cases are male. Dates of symptom onset for all cases ranged from March 1-July 25, 2013. Two WNV-related fatalities have been reported to date in Sacramento (1) and Los Angeles (1) counties. A total of nine WNV-positive blood donors have been reported this year; to date none of these individuals developed symptoms. At this time last year, 11 cases had been reported from six counties.

National Comments: As of July 30, 2013, 53 cases had been reported nationwide from 19 states. Of the 53 cases, 21 (39%) were classified as neuroinvasive disease, and 3 (6%) died.

Horses

Two new equine cases of WNV illness have been reported from Kern and Sacramento counties. Symptom onset dates were July 21 and July 27, respectively; both were euthanized as a result of their illness. In 2013, three horses from three counties have tested positive for WNV. At this time last year, four horses had tested positive for WNV from four counties.

Dead Birds & Squirrels

A total of 129 WNV positive birds were reported this week from the following 20 counties: Alameda (1), Butte (4), Contra Costa (10), Glenn (2), Lake (1), Los Angeles (51), Merced (2), Riverside (7), Sacramento (12), San Bernardino (1), San Diego (1), San Joaquin (3), Santa Clara (5), Shasta (3), Sonoma (3), Stanislaus (1), Sutter (4), Ventura (3), Yolo (14), and Yuba (1). **This is the first indication of WNV activity in Sonoma County this year.** An additional 8 dead birds tested positive for chronic WNV infection from two counties. In 2013, 452 dead birds have tested positive for WNV from 31 counties, 80 dead birds have tested positive for chronic WNV infection from 25 counties, and four dead squirrels have tested positive for WNV from three counties. At this time last year, 567 dead birds had tested positive for WNV from 23 counties.

Mosquito Pools

A total of 246 WNV positive mosquito pools were reported this week from 20 counties: Butte (13), Fresno (4), Glenn (11), Kern (5), Kings (14), Lake (11), Los Angeles (38), Madera (3), Placer (11), Riverside (1), Sacramento (48), San Bernardino (21), San Joaquin (9), Santa Clara (12), Shasta (2), Solano (1), Stanislaus (6), Sutter (5), Tulare (4), and Yolo (27). **These are the first positive mosquito pools detected in Glenn and Solano counties this year.** In 2013, 1,007 mosquito pools from 25 counties have tested positive for WNV. At this time last year, 921 mosquito pools from 22 counties had tested positive for WNV.

Sentinel Chickens

A total of 22 sentinel chickens tested positive for WNV antibodies this week from 11 flocks located in 5 counties: Los Angeles (16), Riverside (2), Sacramento (2), Solano (1), and Yolo (1). **These are the first WNV seroconversions detected in Sacramento, Solano, and Yolo counties this year.** In 2013, 98 WNV antibody-positive chickens have been detected among 35 flocks in 16 counties. At this time last year, 48 WNV antibody-positive chickens had been detected among 23 flocks in nine counties.

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2012 & 2013 YTD West Nile Virus Comparisons		
	2012	2013
Total # Dead Bird Reports	9,325	8,808
# Positive Counties	27	33
# Human Cases	11	14
# Horse Cases	4	3
# Positive Dead Birds / # Tested	567 / 2,098	452 / 1,866
# Positive Mosquito Pools / # Tested	921 / 16,102	1,007 / 18,095
# Seroconversions / # Tested	48 / 10,472	98 / 8,987
# Positive Squirrels / # Tested	0 / 70	4 / 64

YTD WNV Activity by Element and County, 2013						
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			3			
Butte			5	14	13	1
Colusa					4	
Contra Costa			21	4		
Fresno			4	33		
Glenn	2		5	11	5	
Kern		1	2	55	1	
Kings			8	41		
Lake			2	24	1	
Los Angeles	7		143	156	35	
Madera			4	9		
Marin			2			
Mendocino			1			
Merced			22	2	6	
Nevada			1			
Orange			4	2		
Placer			5	48		
Riverside	1		8	22	5	
Sacramento	2	1	76	204	2	
San Bernardino			6	69	2	1
San Diego			4			
San Joaquin			19	48		
San Luis Obispo				1		
Santa Clara			15	15		2
Shasta			6	3	3	
Solano	1		5	1	1	
Sonoma			3			
Stanislaus		1	6	22	2	
Sutter			13	56	12	
Tulare			2	13		
Ventura			5			
Yolo	1		47	145	1	
Yuba			5	9	5	
Totals	14	3	452	1,007	98	4

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TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	10	0	0	0	0	0
	YTD	14	0	0	0	0	0
Horse Cases	Week	2	0	0	0	0	0
	YTD	3	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	196	129
	YTD	1,866	452
Tree Squirrels	Week	3	0
	YTD	64	4

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	564	22	0	0
	YTD	8,987	98	0	0
Mosquito Pools	Week	1,595	246	0	0
	YTD	18,095	1,007	0	0

POSITIVES

Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda Co MAD	Pleasanton	94566	Western Wood Peewee	7/18/2013	WNV	Recent	RT-PCR
Butte	Butte Co MVCD	Chico	95926	American Crow	7/23/2013	WNV	Recent	RT-PCR
Butte	Butte Co MVCD	Chico	95926	American Crow	7/17/2013	WNV	Recent	RT-PCR
Butte	Butte Co MVCD	Magalia	95954	American Crow	7/17/2013	WNV	Recent	RT-PCR
Butte	Butte Co MVCD	Chico	95973	Western Scrub-Jay	7/23/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Discovery Bay	94513	American Crow	8/1/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	7/30/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94520	American Crow	7/31/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Danville	94526	American Crow	7/31/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Danville	94526	American Crow	7/29/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Antioch	94531	Western Scrub-Jay	7/18/2013	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Pittsburg	94565	Western Scrub-Jay	7/29/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Walnut Creek	94597	American Crow	7/28/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Walnut Creek	94598	Western Scrub-Jay	8/1/2013	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Walnut Creek	94598	American Crow	7/31/2013	WNV	Recent	RAMP
Glenn	Glenn Co MVCD	Orland	95963	Yellow-billed Magpie	7/17/2013	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Willows	95988	American Crow	7/16/2013	WNV	Recent	RT-PCR
Lake	Lake Co VCD	Lower Lake	95457	Tree Swallow	7/16/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Downey	90241	Western Scrub-Jay	7/11/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Downey	90242	American Crow	7/17/2013	WNV	Recent	RT-PCR

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Los Angeles	Greater LA VCD - SFS	Cerritos	90703	American Crow	7/12/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Cerritos	90703	American Crow	7/12/2013	WNV	Chronic	RT-PCR
Los Angeles	Greater LA VCD - SFS	San Pedro	90731	American Crow	7/11/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90810	American Crow	7/18/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - SFS	Long Beach	90815	American Crow	7/12/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - Sylmar	Saugus	91390	American Crow	7/19/2013	WNV	Chronic	RT-PCR
Los Angeles	Greater LA VCD - Sylmar	Van Nuys	91401	American Crow	7/18/2013	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD - Sylmar	Van Nuys	91401	American Crow	7/9/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Los Angeles	90049	Red-shouldered Hawk	7/18/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Malibu	90265	White-tailed Kite	7/15/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Palos Verdes Estates	90274	American Crow	7/11/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Rancho Palos Verdes	90275	American Crow	7/11/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Rancho Palos Verdes	90275	American Crow	7/18/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Rancho Palos Verdes	90275	American Crow	7/18/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/16/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/11/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/12/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/23/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/17/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/18/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/16/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/12/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/18/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/22/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/11/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/23/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90277	American Crow	7/19/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/11/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/11/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/18/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/12/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/23/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/18/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/18/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Redondo Beach	90278	American Crow	7/16/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	San Pedro	90732	American Crow	7/11/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Carson	90745	American Crow	7/18/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Carson	90745	American Crow	7/10/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co Vet	Tarzana	91356	American Crow	7/11/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Los Angeles	90034	American Crow	7/22/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Beverly Hills	90210	American Crow	7/17/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Rolling Hills Estates	90274	American Crow	7/17/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Rolling Hills Estates	90274	American Crow	7/18/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Rolling Hills Estates	90274	American Crow	7/19/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Rancho Palos Verdes	90275	American Crow	7/17/2013	WNV	Recent	RT-PCR

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Los Angeles	LA Co West VCD	Redondo Beach	90277	American Crow	7/16/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Torrance	90501	American Crow	7/17/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Torrance	90501	American Crow	7/17/2013	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Torrance	90504	American Crow	7/18/2013	WNV	Chronic	RT-PCR
Los Angeles	San Gabriel Valley MVCD	Covina	91722	American Crow	7/23/2013	WNV	Recent	RAMP
Merced	Merced Co MAD	Merced	95348	American Crow	7/18/2013	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Merced	95348	House Finch	7/22/2013	WNV	Recent	RT-PCR
Riverside	NW Mosquito VCD	Norco	92860	American Crow	7/18/2013	WNV	Recent	RT-PCR
Riverside	NW Mosquito VCD	Norco	92860	American Crow	7/18/2013	WNV	Recent	RT-PCR
Riverside	NW Mosquito VCD	Norco	92860	American Crow	7/17/2013	WNV	Recent	RT-PCR
Riverside	NW Mosquito VCD	Corona	92881	American Crow	7/19/2013	WNV	Recent	RT-PCR
Riverside	Riverside Co VCP	Nuevo	92567	American Crow	7/18/2013	WNV	Recent	RT-PCR
Riverside	Riverside Co VCP	Romoland	92585	American Crow	7/24/2013	WNV	Recent	RT-PCR
Riverside	Riverside Co VCP	Romoland	92585	American Crow	7/24/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	7/28/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	7/28/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	Western Scrub-Jay	7/24/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	Yellow-billed Magpie	7/24/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rio Linda	95673	Yellow-billed Magpie	7/29/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	Western Scrub-Jay	7/24/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	American Crow	7/26/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	7/24/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	7/25/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95831	American Crow	7/30/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95835	American Crow	7/26/2013	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95837	House Finch	7/16/2013	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Chino	91710	American Crow	7/22/2013	WNV	Recent	RT-PCR
San Diego	San Diego Co VCP	Encinitas	92024	Cooper's Hawk	7/25/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95209	Western Scrub-Jay	7/31/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Clements	95227	American Crow	7/30/2013	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Tracy	95377	Western Scrub-Jay	7/25/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	7/18/2013	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara Co VCD	Sunnyvale	94088	American Crow	7/22/2013	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara Co VCD	Campbell	95008	American Crow	7/19/2013	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95112	American Crow	7/19/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95122	American Crow	7/19/2013	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95132	American Crow	7/22/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95132	American Crow	7/19/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95132	American Crow	7/19/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95133	American Crow	7/23/2013	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95135	American Crow	7/21/2013	WNV	Chronic	RT-PCR
Shasta	Shasta MVCD	Redding	96002	Western Scrub-Jay	7/18/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Palo Cedro	96073	Yellow-billed Magpie	7/18/2013	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Palo Cedro	96073	House Sparrow	7/19/2013	WNV	Recent	RT-PCR
Sonoma	Marin-Sonoma MVCD	Cotati	94931	Barn Owl	7/22/2013	WNV	Recent	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95403	American Crow	7/19/2013	WNV	Recent	RT-PCR
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95405	American Crow	7/17/2013	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95350	American Crow	7/23/2013	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Sutter	95982	Western Scrub-Jay	7/17/2013	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95991	Yellow-billed Magpie	7/17/2013	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95993	Western Scrub-Jay	7/18/2013	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95993	American Crow	7/17/2013	WNV	Recent	RT-PCR
Ventura	Ventura Co EHD	Simi Valley	93063	American Crow	7/19/2013	WNV	Recent	RT-PCR

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Ventura	Ventura Co EHD	Simi Valley	93063	American Crow	7/22/2013	WNV	Recent	RT-PCR
Ventura	Ventura Co EHD	Simi Valley	93065	American Crow	7/22/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	7/19/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	Western Scrub-Jay	7/24/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	7/22/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	7/19/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Robin	7/15/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	7/30/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	7/24/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	W Sacramento	95691	Yellow-billed Magpie	7/29/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Winters	95694	Western Scrub-Jay	7/24/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Winters	95694	Western Scrub-Jay	7/24/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	American Crow	7/25/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	7/24/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	American Robin	7/25/2013	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	American Crow	7/27/2013	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Plumas Lake	95961	House Finch	7/23/2013	WNV	Recent	RT-PCR

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus	Method
Butte	BUCO37	24	Cx. tarsalis	Honcut	51	CO3	7/15/2013	WNV	RTPCR
Butte	BUCO37	25	Cx. tarsalis	Honcut	50	CO2	7/15/2013	WNV	RTPCR
Butte	BUCO37	27	Cx. tarsalis	Honcut	52	CO4	7/15/2013	WNV	RTPCR
Butte	BUCO37	28	Cx. tarsalis	Honcut	50	CO2	7/15/2013	WNV	RTPCR
Butte	BUCO43	43	Cx. tarsalis	Chico	55	CO7	7/22/2013	WNV	RTPCR
Butte	BUCO43	44	Cx. tarsalis	Chico	56	CO8	7/22/2013	WNV	RTPCR
Butte	BUCO43	45	Cx. tarsalis	Chico	50	CO2	7/22/2013	WNV	RTPCR
Butte	BUCO43	46	Cx. tarsalis	Chico	57	CO9	7/22/2013	WNV	RTPCR
Butte	BUCO60	29	Cx. tarsalis	Chico	53	CO5	7/16/2013	WNV	RTPCR
Butte	BUCO60	35	Cx. tarsalis	Chico	50	CO2	7/17/2013	WNV	RTPCR
Butte	BUCO60	39	Cx. tarsalis	Chico	54	CO6	7/17/2013	WNV	RTPCR
Butte	BUCO60	42	Cx. tarsalis	Chico	50	CO2	7/17/2013	WNV	RTPCR
Butte	BUCO83	48	Cx. tarsalis		58	CO10	7/23/2013	WNV	RTPCR
Sutter	SUYA107	277	Cx. tarsalis	Live Oak	50	REST	7/29/2013	WNV	RTPCR
Fresno	CNSL1319	191	Cx. quinquefasciatus	Clovis	26	GRVD	7/25/2013	WNV	RTPCR
Fresno	CNSL1690	190	Cx. quinquefasciatus	Clovis	50	GRVD	7/25/2013	WNV	RTPCR
Fresno	CNSL2300	189	Cx. quinquefasciatus	Sanger	31	GRVD	7/24/2013	WNV	RTPCR
Fresno	CNSL6189	613	Cx. quinquefasciatus	Laton	50	CO2	7/30/2013	WNV	RTPCR
Glenn	GLEN0000	30	Cx. tarsalis	Willows	50	CO2	7/25/2013	WNV	RTPCR
Glenn	GLEN822	16	Cx. tarsalis	Orland	50	CO2	7/24/2013	WNV	RTPCR
Glenn	GLEN822	17	Cx. tarsalis	Orland	50	CO2	7/24/2013	WNV	RTPCR
Glenn	GLEN822	18	Cx. tarsalis	Orland	50	CO2	7/24/2013	WNV	RTPCR
Glenn	GLEN825	22	Cx. tarsalis	Hamilton City	50	CO2	7/24/2013	WNV	RTPCR
Glenn	GLEN826	25	Cx. tarsalis	Glenn	50	CO2	7/24/2013	WNV	RTPCR
Glenn	GLEN826	26	Cx. tarsalis	Glenn	50	CO2	7/24/2013	WNV	RTPCR
Glenn	GLEN826	27	Cx. tarsalis	Glenn	50	CO2	7/24/2013	WNV	RTPCR
Glenn	GLEN9703	1	Cx. tarsalis	Willows	50	CO2	7/24/2013	WNV	RTPCR
Glenn	GLEN9703	2	Cx. tarsalis	Willows	50	CO2	7/24/2013	WNV	RTPCR
Glenn	GLEN9706	7	Cx. tarsalis	Willows	50	CO2	7/24/2013	WNV	RTPCR
Kern	KERN2005	292	Cx. quinquefasciatus	Bakersfield	50	GRVD	7/23/2013	WNV	RTPCR
Kern	KERN2049	294	Cx. quinquefasciatus	Lamont	27	GRVD	7/23/2013	WNV	RTPCR

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Kern	KERN30	296	Cx. quinquefasciatus	Wasco	50	CO2	7/23/2013	WNV	RTPCR
Kern	KERN31	301	Cx. tarsalis	Arvin	50	CO2	7/23/2013	WNV	RTPCR
Kern	KERN43	305	Cx. quinquefasciatus	Shafter	46	CO2	7/25/2013	WNV	RTPCR
Kings	CNSL5107	610	Cx. quinquefasciatus	Kingsburg	9	GRVD	7/30/2013	WNV	RTPCR
Kings	KNGS3018	187	Cx. tarsalis	Lemoore	50	CO2	7/30/2013	WNV	RTPCR
Kings	KNGS3022	166	Cx. tarsalis	Hanford	50	CO2	7/23/2013	WNV	RTPCR
Kings	KNGS3022	167	Cx. tarsalis	Hanford	20	CO2	7/23/2013	WNV	RTPCR
Kings	KNGS3030	188	Cx. tarsalis	Lemoore	11	CO2	7/31/2013	WNV	RTPCR
Kings	KNGS3062	174	Cx. tarsalis	Lemoore	30	CO2	7/24/2013	WNV	RTPCR
Kings	KNGS4001	162	Cx. pipiens	Hanford	24	CO2	7/23/2013	WNV	RTPCR
Kings	KNGS4001	183	Cx. pipiens	Hanford	22	CO2	7/30/2013	WNV	RTPCR
Kings	KNGS4003	177	Cx. tarsalis	Hanford	11	CO2	7/25/2013	WNV	RTPCR
Kings	KNGS4007	178	Cx. pipiens	Lemoore	33	GRVD	7/29/2013	WNV	RTPCR
Kings	KNGS4009	156	Cx. pipiens	Armona	50	GRVD	7/22/2013	WNV	RTPCR
Kings	KNGS4011	163	Cx. tarsalis	Hanford	9	CO2	7/23/2013	WNV	RTPCR
Kings	KNGS8005	190	Cx. tarsalis	Stratford	27	CO2	7/31/2013	WNV	RTPCR
Kings	KNGS8022	154	Cx. tarsalis	Lemoore	17	CO2	7/22/2013	WNV	RTPCR
Lake	LAKE131	188	Cx. tarsalis		50	CO2	7/30/2013	WNV	RTPCR
Lake	LAKE1508	166	Cx. stigmatosoma	Kelseyville	32	REST	7/29/2013	WNV	RTPCR
Lake	LAKE195	206	Cx. tarsalis		23	REST	7/31/2013	WNV	RTPCR
Lake	LAKE235	169	Cx. tarsalis	Clearlake Oaks	16	CO2	7/30/2013	WNV	RTPCR
Lake	LAKE293	159	Cx. tarsalis	Lakeport	50	CO2	7/25/2013	WNV	RTPCR
Lake	LAKE93	179	Cx. tarsalis		50	CO2	7/30/2013	WNV	RTPCR
Lake	LAKE93	180	Cx. tarsalis		50	CO2	7/30/2013	WNV	RTPCR
Lake	LAKE93	181	Cx. tarsalis		50	CO2	7/30/2013	WNV	RTPCR
Lake	LAKE93	182	Cx. tarsalis		50	CO2	7/30/2013	WNV	RTPCR
Lake	LAKE94	173	Cx. tarsalis		50	CO2	7/30/2013	WNV	RTPCR
Lake	LAKE94	176	Cx. tarsalis		50	CO2	7/30/2013	WNV	RTPCR
Los Angeles	GRLA2029	5734	Cx. quinquefasciatus	Canoga Park	38	GRVD	7/24/2013	WNV	RTPCR
Los Angeles	GRLA2081	713	Cx. quinquefasciatus	Lynwood	47	GRVD	7/26/2013	WNV	RTPCR
Los Angeles	GRLA2101	693	Cx. quinquefasciatus	Santa Fe Springs	47	GRVD	7/24/2013	WNV	RTPCR
Los Angeles	GRLA2115	709	Cx. quinquefasciatus	Bell	50	GRVD	7/26/2013	WNV	RTPCR
Los Angeles	GRLA2116	712	Cx. quinquefasciatus	Bell	19	GRVD	7/26/2013	WNV	RTPCR
Los Angeles	GRLA2166	690	Cx. quinquefasciatus	Montebello	50	GRVD	7/24/2013	WNV	RTPCR
Los Angeles	GRLA2194	676	Cx. quinquefasciatus	South El Monte	50	GRVD	7/23/2013	WNV	RTPCR
Los Angeles	GRLA2196	677	Cx. quinquefasciatus	South El Monte	50	GRVD	7/23/2013	WNV	RTPCR
Los Angeles	GRLA2221	685	Cx. quinquefasciatus	Rowland Heights	50	GRVD	7/23/2013	WNV	RTPCR
Los Angeles	GRLA2247	692	Cx. quinquefasciatus	Pico Rivera	50	GRVD	7/24/2013	WNV	RTPCR
Los Angeles	GRLA2270	717	Cx. quinquefasciatus	Bellflower	31	GRVD	7/26/2013	WNV	RTPCR
Los Angeles	GRLA2278	707	Cx. quinquefasciatus	Long Beach	50	GRVD	7/25/2013	WNV	RTPCR
Los Angeles	GRLA2329	675	Cx. quinquefasciatus	Whittier	52	GRVD	7/23/2013	WNV	RTPCR
Los Angeles	GRLA2359	679	Cx. quinquefasciatus	Pico Rivera	50	GRVD	7/23/2013	WNV	RTPCR
Los Angeles	GRLA2550	5749	Cx. quinquefasciatus	Mission Hills	50	GRVD	7/25/2013	WNV	RTPCR
Los Angeles	GRLA2636	5750	Cx. quinquefasciatus	Van Nuys	50	GRVD	7/26/2013	WNV	RTPCR
Los Angeles	GRLA2889	705	Cx. quinquefasciatus	Lakewood	50	GRVD	7/25/2013	WNV	RTPCR
Los Angeles	GRLA2890	706	Cx. quinquefasciatus	Lakewood	50	GRVD	7/25/2013	WNV	RTPCR
Los Angeles	GRLA2950	5743	Cx. quinquefasciatus	Sunland	33	GRVD	7/25/2013	WNV	RTPCR
Los Angeles	GRLA2953	697	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	7/24/2013	WNV	RTPCR
Los Angeles	GRLA2955	698	Cx. quinquefasciatus	Cerritos	50	GRVD	7/24/2013	WNV	RTPCR
Los Angeles	GRLA3029	5747	Cx. quinquefasciatus	Arleta	49	GRVD	7/25/2013	WNV	RTPCR
Los Angeles	GRLA3029	5748	Cx. quinquefasciatus	Arleta	24	CO2	7/25/2013	WNV	RTPCR
Los Angeles	GRLA3036	5736	Cx. quinquefasciatus	Canoga Park	50	GRVD	7/24/2013	WNV	RTPCR
Los Angeles	GRLA3041	699	Cx. quinquefasciatus	Artesia	52	GRVD	7/24/2013	WNV	RTPCR
Los Angeles	GRLA3044	678	Cx. quinquefasciatus	South El Monte	50	GRVD	7/23/2013	WNV	RTPCR

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Los Angeles	GRLA3046	718	Cx. quinquefasciatus	Bellflower	50	GRVD	7/26/2013	WNV	RTPCR
Los Angeles	GRLA3047	719	Cx. quinquefasciatus	Downey	18	GRVD	7/26/2013	WNV	RTPCR
Los Angeles	GRLA3048	691	Cx. quinquefasciatus	Pico Rivera	50	GRVD	7/24/2013	WNV	RTPCR
Los Angeles	GRLA3051	704	Cx. quinquefasciatus	Signal Hill	50	GRVD	7/25/2013	WNV	RTPCR
Los Angeles	GRLA3052	686	Cx. quinquefasciatus	La Habra Heights	50	GRVD	7/23/2013	WNV	RTPCR
Los Angeles	GRLA3053	687	Cx. quinquefasciatus	Hacienda Heights	50	GRVD	7/23/2013	WNV	RTPCR
Los Angeles	GRLA3055	710	Cx. quinquefasciatus	Maywood	44	GRVD	7/26/2013	WNV	RTPCR
Los Angeles	GRLA3056	711	Cx. quinquefasciatus	Cudahy	50	GRVD	7/26/2013	WNV	RTPCR
Los Angeles	GRLA3058	714	Cx. quinquefasciatus	Lynwood	42	GRVD	7/26/2013	WNV	RTPCR
Los Angeles	GRLA3059	716	Cx. quinquefasciatus	Paramount	50	GRVD	7/26/2013	WNV	RTPCR
Los Angeles	GRLA3060	700	Cx. quinquefasciatus	Norwalk	50	GRVD	7/24/2013	WNV	RTPCR
Los Angeles	LONG102	96	Cx. quinquefasciatus	Long Beach	17	CO2	7/30/2013	WNV	RTPCR
Madera	MADR0097	48	Cx. tarsalis	Madera Ranchos	41	OTHER	7/23/2013	WNV	RTPCR
Madera	MADR0127	45	Cx. tarsalis	Madera Ranchos	6	OTHER	7/19/2013	WNV	RTPCR
Madera	MADR1081	49	Cx. tarsalis		10	CO2	7/24/2013	WNV	RTPCR
Placer	PLCR1070	1053	Cx. pipiens	Roseville	2	CO2	7/30/2013	WNV	RTPCR
Placer	PLCR1113	1016	Cx. tarsalis	Pleasant Grove	48	CO2	7/25/2013	WNV	RTPCR
Placer	PLCR1113	1023	Cx. tarsalis	Pleasant Grove	50	CO2	7/30/2013	WNV	RTPCR
Placer	PLCR1113	1024	Cx. tarsalis	Pleasant Grove	50	CO2	7/30/2013	WNV	RTPCR
Placer	PLCR1113	1025	Cx. tarsalis	Pleasant Grove	50	CO2	7/30/2013	WNV	RTPCR
Placer	PLCR17	1064	Cx. tarsalis	Sheridan	50	CO2	7/30/2013	WNV	RTPCR
Placer	PLCR25	1060	Cx. tarsalis	Lincoln	21	CO2	7/30/2013	WNV	RTPCR
Placer	PLCR670	1093	Cx. stigmatosoma	Loomis	7	CO2	7/31/2013	WNV	RTPCR
Placer	PLCR735	995	Cx. tarsalis	Pleasant Grove	50	CO2	7/25/2013	WNV	RTPCR
Placer	PLCR735	996	Cx. tarsalis	Pleasant Grove	50	CO2	7/25/2013	WNV	RTPCR
Placer	PLCR735	997	Cx. tarsalis	Pleasant Grove	50	CO2	7/25/2013	WNV	RTPCR
Riverside	RIVR73	290	Cx. quinquefasciatus	Temecula	17	CO2	7/23/2013	WNV	RTPCR
Sacramento	SAYO201006	3608	Cx. tarsalis	Sacramento	50	CO2	7/30/2013	WNV	RTPCR
Sacramento	SAYO201006	3614	Cx. tarsalis	Sacramento	50	CO2	7/30/2013	WNV	RTPCR
Sacramento	SAYO204025	3438	Cx. pipiens	Citrus Heights	50	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO204025	3439	Cx. pipiens	Citrus Heights	53	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO204029	3507	Cx. tarsalis	Orangevale	7	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO204029	3508	Cx. pipiens	Orangevale	45	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO204029	3509	Cx. pipiens	Orangevale	6	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO204037	3440	Cx. tarsalis	Citrus Heights	14	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO205010	3513	Cx. pipiens	Orangevale	2	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO205010	3514	Cx. pipiens	Orangevale	11	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO205011	3474	Cx. tarsalis	Folsom	3	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO212002	3622	Cx. pipiens	Sacramento	50	CO2	7/30/2013	WNV	RTPCR
Sacramento	SAYO212002	3623	Cx. pipiens	Sacramento	50	CO2	7/30/2013	WNV	RTPCR
Sacramento	SAYO213002	3499	Cx. pipiens	Sacramento	16	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO213035	3483	Cx. pipiens	Sacramento	16	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO213039	3500	Cx. tarsalis	Carmichael	16	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO213039	3501	Cx. tarsalis	Carmichael	3	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO213039	3502	Cx. pipiens	Carmichael	4	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO213039	3503	Cx. pipiens	Carmichael	26	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO214002	3516	Cx. pipiens	Rancho Cordova	2	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO214002	3517	Cx. pipiens	Rancho Cordova	6	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO214009	3504	Cx. tarsalis	Fair Oaks	3	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO214009	3505	Cx. pipiens	Fair Oaks	2	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO214009	3506	Cx. pipiens	Fair Oaks	21	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO214040	3464	Cx. pipiens	Rancho Cordova	27	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO222023	3589	Cx. pipiens	Sacramento	12	GRVD	7/30/2013	WNV	RTPCR
Sacramento	SAYO223003	3493	Cx. pipiens	Sacramento	32	GRVD	7/26/2013	WNV	RTPCR

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Sacramento	SAYO223040	3472	Cx. pipiens	Sacramento	21	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO223040	3473	Cx. pipiens	Sacramento	22	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO232022	3544	Cx. pipiens	Elk Grove	13	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO233010	3525	Cx. tarsalis	Sacramento	26	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO233018	3518	Cx. tarsalis	Sacramento	1	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO233018	3519	Cx. tarsalis	Sacramento	1	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO233021	3532	Cx. tarsalis	Elk Grove	2	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO233021	3533	Cx. pipiens	Elk Grove	4	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO233030	3529	Cx. pipiens	Sacramento	2	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO233030	3530	Cx. pipiens	Sacramento	18	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO233040	3523	Cx. pipiens	Elk Grove	7	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO233040	3524	Cx. pipiens	Elk Grove	4	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO234012	3538	Cx. tarsalis	Elk Grove	40	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO234012	3539	Cx. tarsalis	Elk Grove	1	GRVD	7/26/2013	WNV	RTPCR
Sacramento	SAYO234012	3540	Cx. pipiens	Elk Grove	4	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO235013	3576	Cx. tarsalis	Wilton	50	CO2	7/30/2013	WNV	RTPCR
Sacramento	SAYO235013	3578	Cx. tarsalis	Wilton	1	GRVD	7/30/2013	WNV	RTPCR
Sacramento	SAYO245002	3581	Cx. tarsalis	Wilton	32	CO2	7/30/2013	WNV	RTPCR
Sacramento	SAYO245002	3582	Cx. pipiens	Wilton	18	CO2	7/30/2013	WNV	RTPCR
Sacramento	SAYO254018	3392	Cx. pipiens	Galt	13	CO2	7/26/2013	WNV	RTPCR
Sacramento	SAYO271007	3564	Cx. pipiens	Isleton	5	GRVD	7/30/2013	WNV	RTPCR
San Bernardino	SANB1	251	Cx. tarsalis	Needles	50	CO2	7/25/2013	WNV	RTPCR
San Bernardino	SANB40	246	Cx. quinquefasciatus	Ontario	50	CO2	7/24/2013	WNV	RTPCR
San Bernardino	SANB40	247	Cx. quinquefasciatus	Ontario	48	CO2	7/24/2013	WNV	RTPCR
San Bernardino	WVAL1008	738	Cx. quinquefasciatus	Ontario	22	CO2	7/30/2013	WNV	RTPCR
San Bernardino	WVAL5005	741	Cx. quinquefasciatus	Rancho Cucamonga	24	GRVD	7/30/2013	WNV	RTPCR
San Bernardino	WVAL5006	725	Cx. quinquefasciatus	Rancho Cucamonga	9	GRVD	7/30/2013	WNV	RTPCR
San Bernardino	WVAL6003	734	Cx. quinquefasciatus	Ontario	10	GRVD	7/30/2013	WNV	RTPCR
San Bernardino	WVAL6004	712	Cx. quinquefasciatus	Ontario	50	GRVD	7/25/2013	WNV	RTPCR
San Bernardino	WVAL6004	713	Cx. quinquefasciatus	Ontario	50	GRVD	7/25/2013	WNV	RTPCR
San Bernardino	WVAL6004	714	Cx. quinquefasciatus	Ontario	49	GRVD	7/25/2013	WNV	RTPCR
San Bernardino	WVAL6004	715	Cx. quinquefasciatus	Ontario	50	GRVD	7/26/2013	WNV	RTPCR
San Bernardino	WVAL6004	716	Cx. quinquefasciatus	Ontario	50	GRVD	7/26/2013	WNV	RTPCR
San Bernardino	WVAL6004	717	Cx. quinquefasciatus	Ontario	50	GRVD	7/26/2013	WNV	RTPCR
San Bernardino	WVAL6004	718	Cx. quinquefasciatus	Ontario	50	GRVD	7/26/2013	WNV	RTPCR
San Bernardino	WVAL6004	719	Cx. quinquefasciatus	Ontario	11	GRVD	7/26/2013	WNV	RTPCR
San Bernardino	WVAL6004	720	Cx. stigmatosoma	Ontario	23	GRVD	7/26/2013	WNV	RTPCR
San Bernardino	WVAL6004	753	Cx. quinquefasciatus	Ontario	50	GRVD	7/30/2013	WNV	RTPCR
San Bernardino	WVAL6004	756	Cx. quinquefasciatus	Ontario	50	GRVD	7/30/2013	WNV	RTPCR
San Bernardino	WVAL6004	757	Cx. quinquefasciatus	Ontario	47	GRVD	7/30/2013	WNV	RTPCR
San Bernardino	WVAL6004	758	Cx. quinquefasciatus	Ontario	40	GRVD	7/30/2013	WNV	RTPCR
San Bernardino	WVAL6012	736	Cx. quinquefasciatus	Ontario	23	GRVD	7/30/2013	WNV	RTPCR
San Joaquin	SJCM7021	893	Cx. pipiens	Stockton	4	GRVD	7/30/2013	WNV	RTPCR
San Joaquin	SJCM8004	879	Cx. tarsalis	Lodi	6	CO2	7/30/2013	WNV	RTPCR
San Joaquin	SJCM8041	881	Cx. tarsalis	Lodi	5	CO2	7/30/2013	WNV	RTPCR
San Joaquin	SJCM8056	884	Cx. pipiens	Manteca	52	CO2	7/30/2013	WNV	RTPCR
San Joaquin	SJCM8079	870	Cx. pipiens	Manteca	50	CO2	7/30/2013	WNV	RTPCR
San Joaquin	SJCM8084	889	Cx. pipiens	Stockton	17	CO2	7/30/2013	WNV	RTPCR
San Joaquin	SJCM8097	902	Cx. tarsalis	Banta	7	CO2	8/1/2013	WNV	RTPCR
San Joaquin	SJCM8100	901	Cx. pipiens	Tracy	9	CO2	8/1/2013	WNV	RTPCR
San Joaquin	SJCM8161	877	Cx. pipiens	Ripon	31	CO2	7/30/2013	WNV	RTPCR
Santa Clara	STCL3265	4564	Cx. pipiens	San Jose	26	CO2	7/24/2013	WNV	RTPCR
Santa Clara	STCL3265	4580	Cx. pipiens	San Jose	27	CO2	7/24/2013	WNV	RTPCR
Santa Clara	STCL3276	4563	Cx. tarsalis	San Jose	20	CO2	7/24/2013	WNV	RTPCR

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Santa Clara	STCL3276	4646	Cx. tarsalis	San Jose	10	CO2	7/28/2013	WNV	RTPCR
Santa Clara	STCL3287	4569	Cx. tarsalis	San Jose	16	CO2	7/24/2013	WNV	RTPCR
Santa Clara	STCL3289	4571	Cx. pipiens	San Jose	25	CO2	7/24/2013	WNV	RTPCR
Santa Clara	STCL3289	4572	Cx. pipiens	San Jose	26	CO2	7/24/2013	WNV	RTPCR
Santa Clara	STCL3291	4576	Cx. tarsalis	San Jose	13	CO2	7/24/2013	WNV	RTPCR
Santa Clara	STCL3291	4654	Cx. tarsalis	San Jose	10	CO2	7/28/2013	WNV	RTPCR
Santa Clara	STCL3302	4592	Cx. pipiens	San Jose	22	CO2	7/25/2013	WNV	RTPCR
Santa Clara	STCL3303	4594	Cx. tarsalis	San Jose	23	CO2	7/25/2013	WNV	RTPCR
Santa Clara	STCL3310	4586	Cx. pipiens	San Jose	25	CO2	7/25/2013	WNV	RTPCR
Shasta	SHAS110	138	Cx. pipiens		39	CO2	7/30/2013	WNV	RTPCR
Shasta	SHAS116	150	Cx. pipiens	Anderson	37	CO2	7/31/2013	WNV	RTPCR
Solano	SOLA0	48	Cx. tarsalis	Fairfield	50	CO2	7/25/2013	WNV	RTPCR
Stanislaus	EAST1097	13163	Cx. tarsalis		50	CO2	7/24/2013	WNV	RTPCR
Stanislaus	EAST1097	13164	Cx. tarsalis		37	CO2	7/24/2013	WNV	RTPCR
Stanislaus	EAST1097	13165	Cx. pipiens		40	CO2	7/24/2013	WNV	RTPCR
Stanislaus	TRLK1224	340	Cx. pipiens	Ceres	50	CO2	7/25/2013	WNV	RTPCR
Stanislaus	TRLK1306	355	Cx. tarsalis	Patterson	30	CO2	7/30/2013	WNV	RTPCR
Stanislaus	TRLK426	336	Cx. tarsalis	Patterson	31	CO2	7/25/2013	WNV	RTPCR
Sutter	SUYA15	289	Cx. tarsalis	Robbins	29	REST	7/30/2013	WNV	RTPCR
Sutter	SUYA0003	293	Cx. tarsalis	Yuba City	47	CO2	7/29/2013	WNV	RTPCR
Sutter	SUYA00031	269	Cx. tarsalis	Rio Oso	32	REST	7/29/2013	WNV	RTPCR
Sutter	SUYA0031	280	Cx. tarsalis	Rio Oso	50	REST	7/30/2013	WNV	RTPCR
Tulare	DLNO10	39	Cx. quinquefasciatus	Earlimart	22	GRVD	7/29/2013	WNV	RTPCR
Tulare	DLTA8324	295	Cx. quinquefasciatus	Goshen	32	GRVD	7/30/2013	WNV	RTPCR
Tulare	DLTA8519	307	Cx. quinquefasciatus	Visalia	19	GRVD	7/30/2013	WNV	RTPCR
Tulare	TLRE57	24	Cx. pipiens	Tulare	25	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO103007	3670	Cx. tarsalis	Dunnigan	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO103007	3671	Cx. tarsalis	Dunnigan	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO103007	3672	Cx. tarsalis	Dunnigan	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO103007	3673	Cx. tarsalis	Dunnigan	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO103007	3674	Cx. tarsalis	Dunnigan	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO103007	3675	Cx. tarsalis	Dunnigan	1	GRVD	7/30/2013	WNV	RTPCR
Yolo	SAYO103007	3676	Cx. pipiens	Dunnigan	8	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO133002	3688	Cx. tarsalis	Winters	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO133002	3689	Cx. tarsalis	Winters	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO133002	3690	Cx. tarsalis	Winters	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO133002	3691	Cx. tarsalis	Winters	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO133002	3692	Cx. tarsalis	Winters	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO133002	3693	Cx. tarsalis	Winters	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO133002	3694	Cx. pipiens	Winters	2	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO135006	3701	Cx. tarsalis	Woodland	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO135016	3448	Cx. tarsalis	Woodland	50	CO2	7/26/2013	WNV	RTPCR
Yolo	SAYO136010	3696	Cx. tarsalis	Woodland	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO136010	3697	Cx. tarsalis	Woodland	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO136010	3698	Cx. tarsalis	Woodland	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO136010	3721	Cx. tarsalis	Woodland	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO136010	3722	Cx. tarsalis	Woodland	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO136010	3723	Cx. tarsalis	Woodland	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO136010	3724	Cx. tarsalis	Woodland	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO146006	3429	Cx. pipiens	Davis	27	GRVD	7/26/2013	WNV	RTPCR
Yolo	SAYO146014	3731	Cx. tarsalis	West Sacramento	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO146014	3732	Cx. tarsalis	West Sacramento	50	CO2	7/30/2013	WNV	RTPCR
Yolo	SAYO146014	3733	Cx. tarsalis	West Sacramento	50	CO2	7/30/2013	WNV	RTPCR

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Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Los Angeles	ANTV3247	Lancaster	7/24/2013	3601				
Los Angeles	LACW1001	Rolling Hills Estates	7/17/2013	1302				
Los Angeles	LACW1002	Torrance	7/10/2013	1307	1308	1309	1310	1312
Los Angeles	LACW1005	El Segundo	7/18/2013	1328				
Los Angeles	LACW1007	Baldwin Hills	7/18/2013	1337	1338	1339	1341	1342
Los Angeles	LACW1026	Beverly Hills	7/17/2013	1399	1401			
Los Angeles	LONG0003	Long Beach	7/22/2013	3075				
Riverside	RIVR0002	Nuevo	7/24/2013	3928	3929			
Sacramento	SAYO261013	Isleton	7/15/2013	2134	2137			
Solano	SOLA125	Cordelia	7/30/2013	1868				
Yolo	SAYO103008	Dunnigan	7/18/2013	2144				

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

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