

California Arbovirus Surveillance Bulletin #27

Week 34 Friday, August 24, 2012



Human Cases

Fifteen new cases of West Nile virus (WNV) were reported this week from Fresno, Kern, Los Angeles, Placer, Riverside, San Bernardino, Stanislaus, Sutter, and Tulare counties. As of August 23, 2012, a total of 41 human cases of West Nile virus (WNV) illness have been reported in 15 counties: Butte (1), Fresno (6), Kern (7), Los Angeles (4), Merced (1), Orange (1), Placer (1), Riverside (1), Sacramento (2), San Bernardino (1), San Joaquin (2), Stanislaus (10), Sutter (1), Tulare (2), and Ventura (1). Of the 41 cases, 24 (59%) had neuroinvasive illness. Dates of symptom onset for all cases ranged from May 23-August 12, 2012. Two WNV-related fatalities have been reported to date in Fresno (1) and Kern (1) counties. A total of 14 WNV-positive blood donors have been reported this year; 4 individuals developed symptoms and were reclassified as cases. At this time last year, 18 WNV cases had been reported from 8 counties.

National Comments: As of August 21, 2012, 1,118 human cases of WNV had been reported nationwide in 37 states. This is the highest number of cases reported through the third week of August since WNV was first detected in the United States in 1999. Almost half of all cases have been reported in Texas. Of the 1,118 cases, 629 (56%) were classified as neuroinvasive disease, and 41 (4%) died.

Horses

Two new WNV equine cases were reported this week: an unvaccinated 4-year old gelding from Merced County with onset date of 8/20, and an unvaccinated 10-year old stallion from San Joaquin County with onset date of 8/18. Both horses are alive and recovering. This is the first equine case of WNV reported from Merced County this year. In 2012, 8 horses from 6 counties have tested positive for WNV. At this time last year, one equine case of WNV from Los Angeles County had been reported.

Dead Birds & Squirrels

A total of 138 WNV positive dead birds were reported this week from 25 counties: Alameda (1), Butte (6), Colusa (1), Contra Costa (9), El Dorado (1), Fresno (3), Glenn (5), Kern (1), Los Angeles (8), Merced (4), Orange (2), Placer (10), Sacramento (30), San Bernardino (4), San Joaquin (6), San Mateo (1), Santa Clara (4), Shasta (3), Solano (5), Sutter (2), Tehama (1), Tulare (1), Ventura (1), Yolo (27), and Yuba (2). This is the first WNV positive dead bird reported from Shasta County, and the first indication of WNV activity in Alameda County this year. In addition, 34 dead birds and 2 tree squirrels tested positive for chronic WNV infection this week. In 2012, 855 dead birds and 2 tree squirrels have tested positive for recent WNV infection from 29 and 2 counties, respectively. At this time last year, 229 dead birds from 15 counties and one tree squirrel from one county had tested positive for WNV.

Mosquito Pools

A total of 249 WNV positive mosquito pools were reported this week from 17 counties: Butte (7), Contra Costa (3), Fresno (15), Kern (37), Kings (13), Lake (4), Los Angeles (6), Madera (1), Orange (6), Placer (29), Sacramento (17), San Bernardino (5), San Joaquin (13), Shasta (1), Stanislaus (34), Tulare (29), and Yolo (29). In 2012, 1,596 mosquito pools from 28 counties have tested positive for WNV. At this time last year, 1,028 mosquito pools had tested positive for WNV from 20 counties.

Sentinel Chickens

Thirty-seven WNV seroconversions were reported this week from 21 flocks in 11 counties: Butte (1), Colusa (1), Contra Costa (3), Kern (10), Los Angeles (1), Placer (1), Sacramento (4), San Bernardino (2), Stanislaus (3), Sutter (7), and Yuba (4). These are the first seroconversions detected in Colusa and Contra Costa counties this year. In 2012, 168 WNV antibody-positive chickens have been detected among 53 flocks in 16 counties. At this time last year, 79 WNV positive chickens had been detected from 7 counties.

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2011 & 2012 YTD West Nile Virus Comparisons		
	2011	2012
Total # Dead Bird Reports	6,258	12,094
# Positive Counties	23	34
# Human Cases	18	41
# Horse Cases	1	8
# Positive Dead Birds / # Tested	229 / 1,495	855 / 2,601
# Positive Mosquito Pools / # Tested	1,028 / 20,883	1,596 / 20,943
# Seroconversions / # Tested	79 / 14,076	168 / 16,452
# Positive Squirrels / # Tested	1 / 57	2 / 81

YTD WNV Activity by Element and County, 2012						
County	Humans	Horses	Dead Birds*	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			1			
Butte	1		10	16	18	
Colusa			4		1	
Contra Costa			23	11	3	
El Dorado			3			
Fresno	6	2	15	102		
Glenn		1	13	4	1	
Imperial				3	2	
Kern	7		13	342	27	
Kings				36		
Lake				9		
Los Angeles	4		54	79	24	1
Madera				8		
Merced	1	1	18	1		
Napa				1		
Orange	1		10	24		
Placer	1		30	101	4	
Riverside	1		2	94	21	
Sacramento	2		406	383	17	
San Bernardino	1		10	29	15	
San Joaquin	2	2	42	76		
San Mateo			2			
Santa Clara			14	1		1
Santa Cruz			1			
Shasta			3	6		
Solano			17	3		
Sonoma			2	2		
Stanislaus	10	1	28	93	4	
Sutter	1		5	18	16	
Tehama			2			
Tulare	2		42	56	5	
Ventura	1		14	2		
Yolo		1	66	85	2	
Yuba			5	11	8	
Totals	41	8	855	1,596	168	2

**Total does not include chronic infections*

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TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	15	0	0	0	0	0
	YTD	41	0	0	0	0	0
Horse Cases	Week	2	0	0	0	0	0
	YTD	8	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	188	138
	YTD	2,601	855
Tree Squirrels	Week	3	0
	YTD	81	2

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	655	37	0	0
	YTD	16,452	168	0	0
Mosquito Pools	Week	1,679	249	0	0
	YTD	20,943	1,596	0	0

POSITIVES: WEEK 34

Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
12-0034	8/20/2012	FRESNO	76	F	WNND	7/20/2012	YES
12-0039	8/22/2012	FRESNO	48	M	WNND	8/2/2012	NO
12-0036	8/21/2012	KERN	25	F	WNND	7/29/2012	NO
12-0027	8/16/2012	LOS ANGELES	70	M	WNF	7/16/2012	NO
12-0028	8/16/2012	LOS ANGELES	63	F	WNF	8/7/2012	NO
12-0040	8/22/2012	PLACER	>18	M	WNND	8/9/2012	NO
12-0041	8/23/2012	RIVERSIDE	52	M	WNND	8/1/2012	NO
12-0035	8/20/2012	SAN BERNARDINO	24	F	WNND	7/20/2012	NO
12-0029	8/16/2012	STANISLAUS	49	M	WNF	8/1/2012	NO
12-0031	8/20/2012	STANISLAUS	36	M	WNF	N/A	NO
12-0032	8/20/2012	STANISLAUS	37	F	WNND	8/2/2012	NO
12-0033	8/20/2012	STANISLAUS	58	F	WNND	8/7/2012	NO
12-0030	8/17/2012	SUTTER	>18	F	WNF	7/27/2012	NO
12-0037	8/21/2012	TULARE	60	M	WNND	8/12/2012	NO
12-0038	8/22/2012	TULARE	76	F	WNF	7/21/2012	NO

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Presumptive Viremic Blood Donors (Asymptomatic Infections)							
ID	Report Date	County	Age	Sex			
BD12-0011	8/17/2012	KERN	53	M			
BD12-0012	8/21/2012	LOS ANGELES	60	M			

Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda Co MAD	Castro Valley	94546	House Finch	8/10/2012	WNV	Recent	RT-PCR
Alameda	Alameda Co MAD	Newark	94560	House Finch	8/10/2012	WNV	Chronic	RT-PCR
Alameda	Alameda Co MAD	Pleasanton	94588	Mallard	8/3/2012	WNV	Chronic	RT-PCR
Alameda	Alameda Co MAD	Oakland	94610	California Towhee	8/9/2012	WNV	Chronic	RT-PCR
Butte	Butte Co MVCD	Biggs	95917	Western Scrub-Jay	8/8/2012	WNV	Recent	RT-PCR
Butte	Butte Co MVCD	Magalia	95954	Acorn Woodpecker	8/13/2012	WNV	Chronic	RT-PCR
Butte	Butte Co MVCD	Magalia	95954	Steller's Jay	8/9/2012	WNV	Recent	RT-PCR
Butte	Butte Co MVCD	Oroville	95965	Western Scrub-Jay	8/14/2012	WNV	Recent	RT-PCR
Butte	Butte Co MVCD	Paradise	95969	Steller's Jay	8/13/2012	WNV	Recent	RT-PCR
Butte	Butte Co MVCD	Chico	95973	Western Scrub-Jay	8/10/2012	WNV	Recent	RT-PCR
Butte	Butte Co MVCD	Chico	95973	Western Scrub-Jay	8/13/2012	WNV	Recent	RT-PCR
Colusa	Colusa Co HHS	Williams	95987	Goldfinch	8/9/2012	WNV	Recent	RT-PCR
Contra Costa	Contra Costa MVCD	Antioch	94509	Western Scrub-Jay	8/22/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/18/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	Western Scrub-Jay	8/21/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/20/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Pleasant Hill	94523	American Crow	8/16/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Antioch	94531	American Crow	8/20/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Oakley	94561	American Crow	8/21/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Oakley	94561	American Crow	8/23/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Walnut Creek	94597	American Crow	8/22/2012	WNV	Recent	RAMP
El Dorado	El Dorado EM	Cameron Park	95682	Western Scrub-Jay	8/12/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado EM	Shingle Springs	95682	House Finch	8/14/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado EM	El Dorado Hills	95762	Western Scrub-Jay	8/10/2012	WNV	Recent	RT-PCR
Fresno	Consolidated MAD	Fowler	93625	Western Scrub-Jay	8/3/2012	WNV	Recent	RT-PCR
Fresno	Consolidated MAD	Selma	93662	House Sparrow	8/1/2012	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Kerman	93630	American Crow	8/14/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Artois	95913	American Robin	8/9/2012	WNV	Chronic	RT-PCR
Glenn	Glenn Co MVCD	Ord Bend	95943	European Starling	8/9/2012	WNV	Chronic	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	American Robin	8/13/2012	WNV	Chronic	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	Red-tailed Hawk	8/13/2012	WNV	Chronic	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	Western Scrub-Jay	8/13/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	European Starling	8/9/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	European Starling	8/13/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	Yellow-billed Magpie	8/13/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Willows	95988	Common Raven	8/9/2012	WNV	Chronic	RT-PCR
Glenn	Glenn Co MVCD	Willows	95988	Western Scrub-Jay	8/13/2012	WNV	Recent	RT-PCR
Kern	Kern MVCD	Bakersfield	93308	American Crow	8/10/2012	WNV	Recent	RT-PCR
Los Angeles	Greater LA - Sylmar	Encino	91436	American Crow	8/9/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co West VCD	Los Angeles	90034	American Crow	8/9/2012	WNV	Recent	RT-PCR

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Los Angeles	LA Co West VCD	Culver City	90230	House Finch	8/8/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co West VCD	Inglewood	90302	American Crow	8/10/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Vet	Los Angeles	90016	American Crow	8/3/2012	WNV	Recent	RT-PCR
Los Angeles	LA Vet	Long Beach	90807	American Crow	8/10/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Vet	Northridge	91325	American Crow	8/13/2012	WNV	Recent	RT-PCR
Los Angeles	San Gabriel MVCD	Monrovia	91016	Ash-throated Flycatcher	8/8/2012	WNV	Recent	RT-PCR
Los Angeles	San Gabriel MVCD	Claremont	91711	Lesser Goldfinch	8/2/2012	WNV	Recent	RT-PCR
Los Angeles	San Gabriel MVCD	Glendora	91740	Western Scrub-Jay	8/3/2012	WNV	Chronic	RT-PCR
Los Angeles	San Gabriel MVCD	Pomona	91766	Lovebird	8/8/2012	WNV	Chronic	RT-PCR
Los Angeles	San Gabriel MVCD	San Dimas	91773	American Crow	8/16/2012	WNV	Recent	RAMP
Los Angeles	San Gabriel MVCD	Alhambra	91801	American Crow	7/13/2012	WNV	Recent	RAMP
Marin	Marin-Sonoma MVCD	Corte Madera	94925	House Finch	8/9/2012	WNV	Chronic	RT-PCR
Merced	Merced Co MAD	Atwater	95301	Western Scrub-Jay	8/2/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Atwater	95301	Western Scrub-Jay	8/3/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Atwater	95301	Yellow-billed Magpie	8/8/2012	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Merced	95341	Western Scrub-Jay	8/8/2012	WNV	Recent	RT-PCR
Monterey	N Salinas Valley MAD	Salinas	93905	Northern Mockingbird	8/13/2012	WNV	Chronic	RT-PCR
Napa	Napa Co MAD	Napa	94558	Western Scrub-Jay	8/10/2012	WNV	Chronic	RT-PCR
Nevada	Nevada EH - Truckee	Truckee	96161	Pacific-slope Flycatcher	8/10/2012	WNV	Chronic	RT-PCR
Nevada	Nevada EH - Truckee	Truckee	96161	Anna's Hummingbird	8/10/2012	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Tustin	92782	American Crow	7/20/2012	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Placentia	92870	American Crow	8/14/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	American Robin	7/27/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	California Quail	8/3/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	House Sparrow	8/12/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Western Scrub-Jay	8/14/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Western Scrub-Jay	8/15/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95678	Yellow-billed Magpie	8/14/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95678	House Finch	8/13/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Granite Bay	95746	House Sparrow	7/27/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Granite Bay	95746	Mourning Dove	7/30/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Granite Bay	95746	American Crow	8/16/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	House Finch	7/31/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	Western Scrub-Jay	8/21/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95610	House Finch	8/16/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Citrus Heights	95621	House Finch	8/8/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	House Finch	8/4/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	California Towhee	8/4/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	House Finch	8/6/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	American Crow	8/16/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	American Crow	8/20/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	Northern Mockingbird	8/19/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	Yellow-billed Magpie	8/19/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Fair Oaks	95628	American Crow	8/19/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Folsom	95630	Lesser Goldfinch	8/8/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Folsom	95630	American Crow	8/17/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Folsom	95630	Western Scrub-Jay	8/20/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Black-crowned Night-Heron	8/16/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Scrub-Jay	8/16/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Galt	95632	Western Bluebird	8/19/2012	WNV	Recent	RT-PCR

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Sacramento	Sac-Yolo MVCD	Galt	95632	European Starling	8/21/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	Western Scrub-Jay	8/19/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	Unknown	8/20/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Orangevale	95662	Cooper's Hawk	8/21/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	Western Scrub-Jay	8/6/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95670	American Crow	8/19/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Gold River	95670	American Crow	8/22/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	Western Tanager	8/5/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	American Robin	8/7/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Murieta	95683	Western Scrub-Jay	8/21/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Wilton	95693	European Starling	8/13/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Rancho Cordova	95742	Yellow-billed Magpie	8/22/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Elk Grove	95757	American Crow	8/17/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95827	American Crow	8/15/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95833	Western Scrub-Jay	8/7/2012	WNV	Chronic	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95833	House Sparrow	8/14/2012	WNV	Recent	RT-PCR
Sacramento	Sac-Yolo MVCD	Sacramento	95834	American Robin	8/17/2012	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Green Valley Lake	92341	Steller's Jay	8/6/2012	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	Yucaipa	92399	American Crow	8/1/2012	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Chino	91710	American Crow	8/13/2012	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Rancho Cucamonga	91730	American Crow	8/13/2012	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Ontario	91762	American Crow	8/10/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	French Camp	95206	American Crow	8/17/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95209	American Crow	8/16/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Acampo	95220	Western Scrub-Jay	8/2/2012	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin Co MVCD	Lockeford	95237	Western Scrub-Jay	8/15/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Tracy	95304	American Crow	8/20/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Lathrop	95330	American Crow	8/21/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Ripon	95366	House Finch	7/30/2012	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin Co MVCD	Tracy	95376	Western Scrub-Jay	8/9/2012	WNV	Recent	RT-PCR
San Luis Obispo	SLO Animal Services	San Luis Obispo	93401	Red-shouldered Hawk	8/9/2012	WNV	Chronic	RT-PCR
San Mateo	San Mateo Co MAD	Half Moon Bay	94019	Red-tailed Hawk	8/10/2012	WNV	Chronic	RT-PCR
San Mateo	San Mateo Co MAD	Half Moon Bay	94019	Mourning Dove	8/9/2012	WNV	Recent	RT-PCR
Santa Clara	Santa Clara	Sunnyvale	94086	Eastern Gray Squirrel	8/13/2012	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara	Gilroy	95020	Fox Squirrel	8/12/2012	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara Co VCD	Mountain View	94040	American Crow	8/23/2012	WNV	Recent	VecTest
Santa Clara	Santa Clara Co VCD	Mountain View	94040	American Crow	8/22/2012	WNV	Recent	VecTest
Santa Clara	Santa Clara Co VCD	Santa Clara	95051	American Crow	8/20/2012	WNV	Recent	VecTest
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	8/21/2012	WNV	Recent	VecTest
Shasta	Shasta MVCD	Redding	96001	House Finch	8/9/2012	WNV	Recent	RT-PCR
Shasta	Shasta MVCD	Anderson	96007	American Crow	8/22/2012	WNV	Recent	RAMP
Shasta	Shasta MVCD	Anderson	96007	American Crow	8/23/2012	WNV	Recent	VecTest
Sierra	Sierra Co EH	Sierra City	96125	Red-Breasted	8/14/2012	WNV	Chronic	RT-PCR

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				Nuthatch				
Siskiyou	Siskiyou Co EH	Mount Shasta	96067	Steller's Jay	8/13/2012	WNV	Chronic	RT-PCR
Solano	Solano Co MAD	Fairfield	94533	American Crow	7/24/2012	WNV	Recent	RAMP
Solano	Solano Co MAD	Dixon	95620	American Crow	7/23/2012	WNV	Recent	RAMP
Solano	Solano Co MAD	Vacaville	95687	American Crow	7/23/2012	WNV	Recent	RAMP
Solano	Solano Co MAD	Vacaville	95687	American Crow	8/1/2012	WNV	Recent	RAMP
Solano	Solano Co MAD	Vacaville	95688	Yellow-billed Magpie	7/23/2012	WNV	Recent	RAMP
Sonoma	Marin-Sonoma MVCD	Petaluma	94952	American Crow	8/8/2012	WNV	Chronic	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95993	American Crow	8/13/2012	WNV	Recent	RT-PCR
Sutter	Sutter-Yuba MVCD	Yuba City	95993	Barn Owl	8/14/2012	WNV	Recent	RT-PCR
Tehama	Tehama Co MVCD	Red Bluff	96080	Western Scrub-Jay	8/8/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	8/19/2012	WNV	Recent	RAMP
Ventura	Ventura Co EHD	Simi Valley	93065	American Crow	8/9/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Capay	95607	Western Scrub-Jay	8/16/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	Western Scrub-Jay	8/14/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	8/16/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	Western Scrub-Jay	8/16/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	Western Scrub-Jay	8/22/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	American Crow	8/21/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	Northern Mockingbird	8/20/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95616	Northern Mockingbird	8/20/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	8/15/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	8/17/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	8/21/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Davis	95618	American Crow	8/22/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Esparto	95627	Western Scrub-Jay	8/19/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/14/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/15/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	American Crow	8/20/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/19/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/18/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/19/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/22/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95695	Western Scrub-Jay	8/22/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95776	Yellow-billed Magpie	8/22/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95776	American Crow	8/21/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95776	American Crow	8/20/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95776	American Crow	8/21/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95776	American Crow	8/22/2012	WNV	Recent	RT-PCR
Yolo	Sac-Yolo MVCD	Woodland	95776	American Crow	8/21/2012	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Marysville	95901	American Crow	8/10/2012	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Linda	95901	Western Scrub-Jay	8/14/2012	WNV	Recent	RT-PCR

Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Method
Butte	BUCO113	108	Gridley	Cx. tarsalis	50	CO2	8/15/12	WNV	RTPCR
Butte	BUCO27	103	Gridley	Cx. tarsalis	50	CO2	8/15/12	WNV	RTPCR
Butte	BUCO27	105	Gridley	Cx. tarsalis	50	CO2	8/15/12	WNV	RTPCR
Butte	BUCO36	111	Gridley	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR

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Butte	BUCO36	112	Gridley	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Butte	BUCO36	113	Gridley	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Butte	BUCO36	114	Gridley	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Contra Costa	CNTR1790	282	Brentwood	Cx. tarsalis	5	CO2	8/20/12	WNV	RAMP
Contra Costa	CNTR4642	303	Brentwood	Cx. pipiens	10	CO2	8/22/12	WNV	RAMP
Contra Costa	CNTR8152	290	Knightsen	Cx. tarsalis	35	CO2	8/20/12	WNV	RTPCR
Fresno	CNSL2192	476	Sanger	Cx. quinquefasciatus	15	GRVD	8/21/12	WNV	RTPCR
Fresno	CNSL3097	681	Reedley	Cx. quinquefasciatus	50	CO2	8/15/12	WNV	RTPCR
Fresno	CNSL3311	688	Reedley	Cx. quinquefasciatus	43	GRVD	8/15/12	WNV	RTPCR
Fresno	CNSL4171	689	Selma	Cx. quinquefasciatus	50	GRVD	8/15/12	WNV	RTPCR
Fresno	CNSL6237	684	Laton	Cx. quinquefasciatus	50	CO2		WNV	RTPCR
Fresno	FRWS100005	151	Dos Palos	Cx. tarsalis	50	CO2	8/16/12	WNV	RTPCR
Fresno	FRWS100006	156	Dos Palos	Cx. tarsalis	50	CO2	8/16/12	WNV	RTPCR
Fresno	FRWS100006	157	Dos Palos	Cx. tarsalis	50	CO2	8/16/12	WNV	RTPCR
Fresno	FRWS100006	158	Dos Palos	Cx. tarsalis	50	CO2	8/16/12	WNV	RTPCR
Fresno	FRWS100006	159	Dos Palos	Cx. tarsalis	50	CO2	8/16/12	WNV	RTPCR
Fresno	FRWS1101	163	Dos Palos	Cx. tarsalis	50	CO2	8/21/12	WNV	RTPCR
Fresno	FRWS2105	169	Dos Palos	Cx. tarsalis	50	CO2	8/21/12	WNV	RTPCR
Fresno	FRWS2105	170	Dos Palos	Cx. tarsalis	50	CO2	8/21/12	WNV	RTPCR
Fresno	FRWS3201	160	Firebaugh	Cx. tarsalis	50	OTHER	8/21/12	WNV	RTPCR
Fresno	FRWS5302	171	Helm	Cx. quinquefasciatus	28	CO2	8/21/12	WNV	RTPCR
Kern	KERN1005	1529	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/13/12	WNV	RTPCR
Kern	KERN111	1626	Arvin	Cx. quinquefasciatus	50	CO2	8/15/12	WNV	RTPCR
Kern	KERN1114	1616	Bakersfield	Cx. quinquefasciatus	50	CO2	8/15/12	WNV	RTPCR
Kern	KERN1137	1668	Bakersfield	Cx. quinquefasciatus	50	CO2	8/16/12	WNV	RTPCR
Kern	KERN1137	1669	Bakersfield	Cx. quinquefasciatus	50	CO2	8/16/12	WNV	RTPCR
Kern	KERN1137	1670	Bakersfield	Cx. tarsalis	29	CO2	8/16/12	WNV	RTPCR
Kern	KERN114	1619	Bakersfield	Cx. tarsalis	40	CO2	8/15/12	WNV	RTPCR
Kern	KERN115	1533	Bakersfield	Cx. quinquefasciatus	50	CO2	8/13/12	WNV	RTPCR
Kern	KERN115	1535	Bakersfield	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Kern	KERN115	1536	Bakersfield	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Kern	KERN121	1650	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/16/12	WNV	RTPCR
Kern	KERN2007	1652	Bakersfield	Cx. quinquefasciatus	39	GRVD	8/16/12	WNV	RTPCR
Kern	KERN2011	1585	Bakersfield	Cx. quinquefasciatus	13	GRVD	8/14/12	WNV	RTPCR
Kern	KERN2014	1647	Bakersfield	Cx. quinquefasciatus	39	GRVD	8/16/12	WNV	RTPCR
Kern	KERN2018	1582	Bakersfield	Cx. quinquefasciatus	37	GRVD	8/14/12	WNV	RTPCR
Kern	KERN2025	1655	Bakersfield	Cx. quinquefasciatus	15	GRVD	8/16/12	WNV	RTPCR
Kern	KERN2028	1646	Bakersfield	Cx. quinquefasciatus	40	GRVD	8/16/12	WNV	RTPCR
Kern	KERN2030	1583	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/14/12	WNV	RTPCR
Kern	KERN2034	1528	Bakersfield	Cx. quinquefasciatus	19	GRVD	8/13/12	WNV	RTPCR
Kern	KERN2040	1600	Arvin	Cx. quinquefasciatus	50	GRVD	8/15/12	WNV	RTPCR
Kern	KERN2040	1601	Arvin	Cx. quinquefasciatus	25	GRVD	8/15/12	WNV	RTPCR
Kern	KERN2042	1599	Lamont	Cx. quinquefasciatus	47	GRVD	8/15/12	WNV	RTPCR

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Kern	KERN2051	1596	Bakersfield	Cx. quinquefasciatus	50	GRVD	8/15/12	WNV	RTPCR
Kern	KERN3004	1609	Bakersfield	Cx. tarsalis	50	CO2	8/15/12	WNV	RTPCR
Kern	KERN3004	1610	Bakersfield	Cx. tarsalis	50	CO2	8/15/12	WNV	RTPCR
Kern	KERN3004	1611	Bakersfield	Cx. tarsalis	31	CO2	8/15/12	WNV	RTPCR
Kern	KERN3026	1548	Arvin93203	Cx. quinquefasciatus	50	CO2	8/13/12	WNV	RTPCR
Kern	KERN3030	1640	Shafter	Cx. tarsalis	17	CO2	8/15/12	WNV	RTPCR
Kern	KERN3031	1641	Shafter	Cx. quinquefasciatus	50	CO2	8/15/12	WNV	RTPCR
Kern	KERN3041	1661	Bakersfield	Cx. quinquefasciatus	50	CO2	8/16/12	WNV	RTPCR
Kern	KERN3041	1665	Bakersfield	Cx. tarsalis	50	CO2	8/16/12	WNV	RTPCR
Kern	KERN32	1539	Arvin	Cx. quinquefasciatus	50	CO2	8/13/12	WNV	RTPCR
Kern	KERN33	1542	Arvin	Cx. quinquefasciatus	50	CO2	8/13/12	WNV	RTPCR
Kern	KERN36	1537	Bakersfield	Cx. quinquefasciatus	24	CO2	8/13/12	WNV	RTPCR
Kern	KERN60	1564	Bakersfield	Cx. tarsalis	45	CO2	8/13/12	WNV	RTPCR
Kern	KERN83	1622	Arvin	Cx. tarsalis	50	CO2	8/15/12	WNV	RTPCR
Kern	KERN83	1624	Arvin	Cx. tarsalis	50	CO2	8/15/12	WNV	RTPCR
Kings	KNGS3018	373	Lemoore	Cx. tarsalis	50	CO2	8/16/12	WNV	RTPCR
Kings	KNGS3027	365	Lemoore	Cx. tarsalis	50	CO2	8/15/12	WNV	RTPCR
Kings	KNGS3030	358	Lemoore	Cx. tarsalis	50	CO2	8/15/12	WNV	RTPCR
Kings	KNGS3039	369	Lemoore	Cx. tarsalis	50	CO2	8/16/12	WNV	RTPCR
Kings	KNGS3060	364	Lemoore	Cx. tarsalis	50	CO2	8/15/12	WNV	RTPCR
Kings	KNGS3061	378	Guernsey	Cx. tarsalis	35	CO2	8/16/12	WNV	RTPCR
Kings	KNGS3062	355	Lemoore	Cx. tarsalis	50	CO2	8/15/12	WNV	RTPCR
Kings	KNGS4007	383	Lemoore	Cx. pipiens	16	GRVD	8/20/12	WNV	RTPCR
Kings	KNGS4010	346	Hanford	Cx. tarsalis	30	CO2	8/14/12	WNV	RTPCR
Kings	KNGS8022	379	Lemoore	Cx. tarsalis	45	CO2	8/16/12	WNV	RTPCR
Kings	KNGS8033	343	Hanford	Cx. pipiens	50	CO2	8/14/12	WNV	RTPCR
Kings	KNGS9001	381	Lemoore	Cx. tarsalis	50	CO2	8/16/12	WNV	RTPCR
Kings	KNGS9001	382	Lemoore	Cx. tarsalis	30	CO2	8/16/12	WNV	RTPCR
Lake	LAKE131	298		Cx. tarsalis	36	CO2	8/21/12	WNV	RTPCR
Lake	LAKE235	284	Clearlake Oaks	Cx. tarsalis	50	CO2	8/17/12	WNV	RTPCR
Lake	LAKE274	315	Kelseyville	Cx. tarsalis	41	CO2	8/22/12	WNV	RTPCR
Lake	LAKE84	294		Cx. tarsalis	50	CO2	8/21/12	WNV	RTPCR
Los Angeles	GRLA2438	5912	Chatsworth	Cx. quinquefasciatus	43	GRVD	8/17/12	WNV	RTPCR
Los Angeles	GRLA2463	5898	Los Angeles	Cx. quinquefasciatus	50	GRVD	8/14/12	WNV	RTPCR
Los Angeles	GRLA2555	5885	Encino	Cx. quinquefasciatus	42	GRVD	8/14/12	WNV	RTPCR
Los Angeles	GRLA2671	5909	Granada Hills	Cx. quinquefasciatus	50	GRVD	8/17/12	WNV	RTPCR
Los Angeles	GRLA2724	5887	Canoga Park	Cx. quinquefasciatus	50	GRVD	8/14/12	WNV	RTPCR
Los Angeles	GRLA2967	5913	Chatsworth	Cx. quinquefasciatus	37	GRVD	8/17/12	WNV	RTPCR
Madera	MADR15	89		Cx. quinquefasciatus	8	CO2	8/14/12	WNV	RTPCR
Orange	ORCO119	973	Santa Ana	Cx. quinquefasciatus	11	CO2	8/16/12	WNV	RTPCR
Orange	ORCO202	931	Fullerton	Cx. quinquefasciatus	50	GRVD	8/14/12	WNV	RTPCR
Orange	ORCO34	948	Brea	Cx. quinquefasciatus	50	GRVD	8/14/12	WNV	RTPCR
Orange	ORCO34	949	Brea	Cx. quinquefasciatus	19	GRVD	8/14/12	WNV	RTPCR

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Orange	ORCO41	946	Anaheim	Cx. quinquefasciatus	13	GRVD	8/14/12	WNV	RTPCR
Orange	ORCO50	952	Buena Park	Cx. quinquefasciatus	34	GRVD	8/14/12	WNV	RTPCR
Placer	PLCR1023	1208	Roseville	Cx. pipiens	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR1023	1215	Roseville	Cx. tarsalis	47	CO2	8/13/12	WNV	RTPCR
Placer	PLCR1026	1337	LINCOLN	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Placer	PLCR1070	1267	Roseville	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR1070	1268	Roseville	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR1070	1269	Roseville	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR1070	1272	Roseville	Cx. pipiens	16	CO2	8/13/12	WNV	RTPCR
Placer	PLCR1113	1220	Pleasant Grove	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR139	1243	Roseville	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR17	1292	Sheridan	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR17	1372	Sheridan	Cx. tarsalis	48	CO2	8/21/12	WNV	RTPCR
Placer	PLCR25	1284	Lincoln	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR25	1287	Lincoln	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR25	1404	Lincoln	Cx. tarsalis	50	CO2	8/21/12	WNV	RTPCR
Placer	PLCR25	1405	Lincoln	Cx. tarsalis	43	CO2	8/21/12	WNV	RTPCR
Placer	PLCR509	1448	Loomis	Cx. pipiens	1	CO2	8/22/12	WNV	RTPCR
Placer	PLCR516	1296	Roseville	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR516	1298	Roseville	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR516	1299	Roseville	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR58	1245	Lincoln	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR58	1246	Lincoln	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR638	1353	Pleasant Grove	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Placer	PLCR638	1354	Pleasant Grove	Cx. tarsalis	50	CO2	8/14/12	WNV	RTPCR
Placer	PLCR640	1345	Roseville	Cx. tarsalis	25	CO2	8/14/12	WNV	RTPCR
Placer	PLCR79	1389	Roseville	Cx. tarsalis	5	CO2	8/21/12	WNV	RTPCR
Placer	PLCR85	1274	Lincoln	Cx. stigmatosoma	2	CO2	8/13/12	WNV	RTPCR
Placer	PLCR88	1454	Lincoln	Cx. tarsalis	17	CO2	8/22/12	WNV	RTPCR
Placer	PLCR95	1276	Lincoln	Cx. tarsalis	50	CO2	8/13/12	WNV	RTPCR
Placer	PLCR95	1398	Lincoln	Cx. tarsalis	30	CO2	8/21/12	WNV	RTPCR
Sacramento	SAYO201007	4583	Sacramento	Cx. tarsalis	37	CO2	8/21/12	WNV	RTPCR
Sacramento	SAYO204005	4579	Citrus Heights	Cx. pipiens	10	GRVD	8/21/12	WNV	RTPCR
Sacramento	SAYO205013	4626	Folsom	Cx. tarsalis	37	CO2	8/21/12	WNV	RTPCR
Sacramento	SAYO212033	4551	Sacramento	Cx. tarsalis	41	CO2	8/21/12	WNV	RTPCR
Sacramento	SAYO213035	4530	Sacramento	Cx. pipiens	24	GRVD	8/21/12	WNV	RTPCR
Sacramento	SAYO213038	4506	Sacramento	Cx. pipiens	17	GRVD	8/21/12	WNV	RTPCR
Sacramento	SAYO214013	4622	Carmichael	Cx. pipiens	28	GRVD	8/21/12	WNV	RTPCR
Sacramento	SAYO223047	4605	Sacramento	Cx. pipiens	26	GRVD	8/21/12	WNV	RTPCR
Sacramento	SAYO232019	4513	Elk Grove	Cx. tarsalis	3	CO2	8/21/12	WNV	RTPCR
Sacramento	SAYO232019	4514	Elk Grove	Cx. pipiens	8	CO2	8/21/12	WNV	RTPCR

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Sacramento	SAYO232019	4515	Elk Grove	Cx. pipiens	19	GRVD	8/21/12	WNV	RTPCR
Sacramento	SAYO232028	4329	Sacramento	Cx. tarsalis	34	CO2	8/16/12	WNV	RTPCR
Sacramento	SAYO233009	4516	Elk Grove	Cx. tarsalis	50	CO2	8/21/12	WNV	RTPCR
Sacramento	SAYO233009	4517	Elk Grove	Cx. tarsalis	5	CO2	8/21/12	WNV	RTPCR
Sacramento	SAYO233009	4518	Elk Grove	Cx. pipiens	7	CO2	8/21/12	WNV	RTPCR
Sacramento	SAYO233010	4507	Sacramento	Cx. tarsalis	50	CO2	8/21/12	WNV	RTPCR
Sacramento	SAYO243025	4512	Elk Grove	Cx. pipiens	30	CO2	8/21/12	WNV	RTPCR
San Bernardino	SANB2	308	Redlands	Cx. quinquefasciatus	35	CO2	8/8/12	WNV	RTPCR
San Bernardino	SANB2	349	Redlands	Cx. tarsalis	50	CO2	8/15/12	WNV	RTPCR
San Bernardino	SANB3	284	Colton	Cx. quinquefasciatus	40	GRVD	8/1/12	WNV	RTPCR
San Bernardino	WVAL2008	361	Chino	Cx. quinquefasciatus	50	CO2	8/21/12	WNV	RTPCR
San Bernardino	WVAL5005	363	Rancho Cucamonga	Cx. quinquefasciatus	19	GRVD	8/21/12	WNV	RTPCR
San Joaquin	SJCM7021	705	Stockton	Cx. pipiens	9	GRVD	8/14/12	WNV	RTPCR
San Joaquin	SJCM8004	751	Lodi	Cx. pipiens	33	CO2	8/20/12	WNV	RTPCR
San Joaquin	SJCM8005	755	Stockton	Cx. pipiens	25	CO2	8/20/12	WNV	RTPCR
San Joaquin	SJCM8005	756	Stockton	Cx. tarsalis	24	CO2	8/20/12	WNV	RTPCR
San Joaquin	SJCM8018	729	Stockton	Cx. tarsalis	50	CO2	8/20/12	WNV	RTPCR
San Joaquin	SJCM8020	747	Acampo	Cx. tarsalis	25	CO2	8/20/12	WNV	RTPCR
San Joaquin	SJCM8027	757	McDonald Isl. bridge	Cx. pipiens	50	CO2	8/20/12	WNV	RTPCR
San Joaquin	SJCM8056	740	Manteca	Cx. tarsalis	46	CO2	8/20/12	WNV	RTPCR
San Joaquin	SJCM8126	766	Clements	Cx. tarsalis	9	CO2	8/23/12	WNV	RTPCR
San Joaquin	SJCM8157	706	Manteca	Cx. pipiens	5	CO2	8/20/12	WNV	RTPCR
San Joaquin	SJCM8160	768	Lodi	Cx. tarsalis	50	CO2	8/23/12	WNV	RTPCR
San Joaquin	SJCM8161	710	Ripon	Cx. pipiens	50	CO2	8/20/12	WNV	RTPCR
San Joaquin	SJCM9906	714	French Camp	Cx. pipiens	4	CO2	8/20/12	WNV	RTPCR
Shasta	SHAS10030	541	Anderson	Cx. tarsalis	22	CO2	8/21/12	WNV	RTPCR
Stanislaus	EAST1011	12132	Modesto	Cx. pipiens	17	CO2	8/22/12	WNV	RAMP
Stanislaus	EAST1075	12114	Riverbank	Cx. tarsalis	9	CO2	8/21/12	WNV	RAMP
Stanislaus	EAST1082	12123	Modesto	Cx. tarsalis	18	CO2	8/22/12	WNV	RAMP
Stanislaus	EAST1087	12134	Modesto	Cx. pipiens	18	CO2	8/23/12	WNV	RAMP
Stanislaus	EAST1092	12119	Oakdale	Cx. pipiens	40	CO2	8/21/12	WNV	RAMP
Stanislaus	EAST1094	12139	Modesto	Cx. tarsalis	8	CO2	8/23/12	WNV	RAMP
Stanislaus	TRLK1202	811	Hughson	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK1203	837	Hughson	Cx. tarsalis	14	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK1221	737	Turlock	Cx. pipiens	50	CO2	8/17/12	WNV	RTPCR
Stanislaus	TRLK432	773	Turlock	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK432	781	Turlock	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK432	782	Turlock	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK432	783	Turlock	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK504	797	Denair	Cx. tarsalis	27	CO2	8/21/12	WNV	RTPCR

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Stanislaus	TRLK516	816	Denair	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK516	817	Denair	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK516	818	Denair	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK516	820	Denair	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK516	824	Denair	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK516	825	Denair	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK516	827	Denair	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK516	828	Denair	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK516	829	Denair	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK516	830	Denair	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK516	834	Denair	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK530	741	Turlock	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK530	743	Turlock	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK530	744	Turlock	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK531	749	Turlock	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK531	752	Turlock	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK536	757	Turlock	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK613	839	Hickman	Cx. pipiens	50	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK613	843	Hickman	Cx. tarsalis	44	CO2	8/21/12	WNV	RTPCR
Stanislaus	TRLK9772	683	Grayson	Cx. pipiens	50	CO2	8/14/12	WNV	RTPCR
Tulare	DLTA6401	259		Cx. tarsalis	19	CO2	8/15/12	WNV	RTPCR
Tulare	DLTA6401	260		Cx. stigmatosoma	13	CO2	8/15/12	WNV	RTPCR
Tulare	DLTA6406	243	Dinuba	Cx. tarsalis	21	CO2	8/10/12	WNV	RTPCR
Tulare	DLTA6406	245	Dinuba	Cx. quinquefasciatus	33	CO2	8/10/12	WNV	RTPCR
Tulare	DLTA6406	246	Dinuba	Cx. tarsalis	14	CO2	8/10/12	WNV	RTPCR
Tulare	DLTA6406	262	Dinuba	Cx. quinquefasciatus	50	CO2	8/15/12	WNV	RTPCR
Tulare	DLTA6406	273	Dinuba	Cx. quinquefasciatus	50	CO2	8/15/12	WNV	RTPCR
Tulare	DLTA6406	274	Dinuba	Cx. tarsalis	50	CO2	8/15/12	WNV	RTPCR
Tulare	DLTA6406	277	Dinuba	Cx. stigmatosoma	50	CO2	8/15/12	WNV	RTPCR
Tulare	DLTA6406	278	Dinuba	Cx. quinquefasciatus	50	CO2	8/15/12	WNV	RTPCR
Tulare	DLTA6406	279	Dinuba	Cx. quinquefasciatus	50	CO2	8/15/12	WNV	RTPCR
Tulare	DLTA6406	280	Dinuba	Cx. quinquefasciatus	26	CO2	8/15/12	WNV	RTPCR
Tulare	DLTA6406	281	Dinuba	Cx. tarsalis	22	CO2	8/15/12	WNV	RTPCR
Tulare	DLTA6406	282	Dinuba	Cx. stigmatosoma	20	CO2	8/15/12	WNV	RTPCR
Tulare	DLTA6408	319	Dinuba	Cx. quinquefasciatus	50	GRVD	8/21/12	WNV	RTPCR
Tulare	DLTA6417	317	Dinuba	Cx. quinquefasciatus	17	GRVD	8/21/12	WNV	RTPCR
Tulare	DLTA7316	249	Traver	Cx. quinquefasciatus	36	GRVD	8/15/12	WNV	RTPCR
Tulare	DLTA7316	251	Traver	Cx. quinquefasciatus	30	GRVD	8/15/12	WNV	RTPCR
Tulare	DLTA7316	330	Traver	Cx. quinquefasciatus	40	CO2	8/22/12	WNV	RTPCR
Tulare	DLTA8504	310		Cx. quinquefasciatus	50	CO2	8/17/12	WNV	RTPCR
Tulare	DLTA8505	314		Cx. quinquefasciatus	50	CO2	8/17/12	WNV	RTPCR
Tulare	DLTA8505	315		Cx. quinquefasciatus	37	CO2	8/17/12	WNV	RTPCR
Tulare	DLTA8523	325	Visalia	Cx. quinquefasciatus	21	GRVD	8/21/12	WNV	RTPCR

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Tulare	DLTA9604	254	Exeter	Cx. quinquefasciatus	50	GRVD	8/15/12	WNV	RTPCR
Tulare	DLTA9604	256	Exeter	Cx. quinquefasciatus	40	GRVD	8/15/12	WNV	RTPCR
Tulare	DLTA9610	336	Exeter	Cx. quinquefasciatus	9	GRVD	8/22/12	WNV	RTPCR
Tulare	DLTA9610	338	Exeter	Cx. quinquefasciatus	17	GRVD	8/22/12	WNV	RTPCR
Tulare	TLRE18	48	Tulare	Cx. pipiens	33	CO2	8/22/12	WNV	RTPCR
Tulare	TLRE92	46	Tulare	Cx. tarsalis	15	CO2	8/22/12	WNV	RTPCR
Yolo	SAYO103006	4398	Dunnigan	Cx. tarsalis	50	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO103006	4399	Dunnigan	Cx. tarsalis	50	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO103006	4400	Dunnigan	Cx. pipiens	1	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO103007	4348	Dunnigan	Cx. tarsalis	50	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO103007	4350	Dunnigan	Cx. tarsalis	25	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO103007	4351	Dunnigan	Cx. tarsalis	2	GRVD	8/17/12	WNV	RTPCR
Yolo	SAYO114001	4488	Zamora	Cx. tarsalis	50	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO114001	4489	Zamora	Cx. tarsalis	50	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO114002	4493	Zamora	Cx. tarsalis	50	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO114002	4495	Zamora	Cx. tarsalis	40	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO115001	4353	Knights Landing	Cx. tarsalis	37	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO123013	4476	Capay	Cx. tarsalis	26	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO125004	4410	Woodland	Cx. pipiens	5	GRVD	8/17/12	WNV	RTPCR
Yolo	SAYO125005	4401	Woodland	Cx. tarsalis	11	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO125005	4402	Woodland	Cx. pipiens	50	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO125005	4403	Woodland	Cx. pipiens	25	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO125009	4383	Woodland	Cx. pipiens	9	GRVD	8/17/12	WNV	RTPCR
Yolo	SAYO125016	4376	Woodland	Cx. pipiens	6	GRVD	8/17/12	WNV	RTPCR
Yolo	SAYO125023	4360	Woodland	Cx. tarsalis	50	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO125023	4363	Woodland	Cx. tarsalis	50	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO135005	4463	Woodland	Cx. tarsalis	50	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO135005	4469	Woodland	Cx. pipiens	50	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO135005	4470	Woodland	Cx. pipiens	22	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO135005	4471	Woodland	Cx. pipiens	34	GRVD	8/17/12	WNV	RTPCR
Yolo	SAYO135006	4357	Woodland	Cx. tarsalis	50	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO135011	4369	Woodland	Cx. tarsalis	40	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO143003	4355	Winters	Cx. tarsalis	1	GRVD	8/17/12	WNV	RTPCR
Yolo	SAYO145013	4423	Davis	Cx. tarsalis	50	CO2	8/17/12	WNV	RTPCR
Yolo	SAYO145013	4424	Davis	Cx. tarsalis	13	CO2	8/17/12	WNV	RTPCR

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Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO000007	Chico	8/14/2012	WNV	1577			
Colusa	CLSA000001	Colusa	8/14/2012	WNV	1608			
Contra Costa	CNTR008152	Knightsen	8/13/2012	WNV	1616	1617	1624	
Kern	AFSB000107	Bakersfield	8/21/2012	WNV	2071			
Kern	AFSB000128	Bakersfield	8/20/2012	WNV	2023	2025		
Kern	AFSB000129	Bakersfield	8/20/2012	WNV	2029	2030	2032	2034
Kern	AFSB000131	Bakersfield	8/6/2012	WNV	2041			
Kern	AFSB000132	Edison	8/21/2012	WNV	2056	2073		
Los Angeles	LACW001007	Baldwin Hills	8/9/2012	WNV	1089			
Placer	PLCR000017	Sheridan	8/13/2012	WNV	2801			
Sacramento	SAYO202019	Rio Linda	8/13/2012	WNV	2360	2362		
Sacramento	SAYO233001	Elk Grove	8/13/2012	WNV	2338			
Sacramento	SAYO245019	Wilton	8/13/2012	WNV	2387			
San Bernardino	WVAL000002	Chino	8/13/2012	WNV	3779	3780		
Stanislaus	EAST001959	Oakdale	8/15/2012	WNV	1786	1790	1791	
Sutter	SUYA000014	Sutter	8/16/2012	WNV	1470	1473	1478	
Sutter	SUYA000015	Robbins	8/16/2012	WNV	1490			
Sutter	SUYA000030	Live Oak	8/16/2012	WNV	1461	1468		
Sutter	SUYA000084	Yuba City	8/16/2012	WNV	1430			
Yuba	SUYA000010	Olivehurst	8/16/2012	WNV	1451			
Yuba	SUYA000007	Marysville	8/16/2012	WNV	1444	1448	1449	

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.

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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.