

California Arbovirus Surveillance Bulletin #22

Week 29 Friday, July 20, 2012



WEEKLY UPDATE

Human Cases

As of July 20, 2012, a total of six human cases of West Nile virus (WNV) illness have been reported in five counties: Fresno (1), Kern (2), Los Angeles (1), Merced (1), and Stanislaus (1). Of the 6 cases, 3 (50%) had neuroinvasive illness. Dates of symptom onset ranged from May 23–July 10, 2012. No fatalities have been reported to date. At this time last year, one human WNV case had been reported from Santa Barbara County.

National Update: As of July 17, 2012, 25 human cases of WNV had been reported nationwide in 8 states. Of the 25 cases, 13 (52%) were classified as neuroinvasive disease.

Horses

No equine cases have been reported in 2012.

Dead Birds & Squirrels

A total of 79 WNV positive dead birds were reported this week from 15 counties: Contra Costa (2), Fresno (1), Kern (3), Los Angeles (6), Merced (1), Placer (1), Sacramento (29), San Joaquin (9), Santa Cruz (1), Solano (3), Stanislaus (7), Tulare (11), Ventura (1), Yolo (3), and Yuba (1). This is the first detection of WNV activity in Santa Cruz and Yuba counties and the first WNV positive dead bird reported from Placer County this year. In addition, 62 dead birds and 7 tree squirrels tested positive for chronic WNV infection this week. In 2012, 432 dead birds have tested positive for recent WNV infection from 19 counties.

At this time last year, 69 dead birds from 12 counties had tested positive for WNV.

**In 2010, The University of California, Center for Vectorborne Diseases (CVEC) and the California Department of Public Health, Vector-Borne Disease Section began differentiating between chronic and acute infections in WNV positive dead birds. Birds considered to have chronic infection with WNV are unlikely to have been infected recently with WNV and have limited surveillance utility.*

Mosquito Pools

A total of 145 WNV positive mosquito pools were reported this week from 14 counties: Contra Costa (1), Fresno (13), Imperial (1), Kern (28), Los Angeles (6), Orange (2), Riverside (21), Sacramento (58), San Bernardino (6), San Joaquin (4), Stanislaus (2), Tulare (1), Yolo (1), and Yuba (1). These were the first WNV positive mosquitoes detected in Yuba County this year. In 2012, 593 mosquito pools from 17 counties have tested positive for WNV. At this time last year, 147 mosquito pools had tested positive for WNV from 13 counties.

Sentinel Chickens

Fourteen WNV seroconversions were reported this week from seven flocks in three counties: Los Angeles (1), Riverside (2), and Sacramento (11). These are the first seroconversions detected in Los Angeles and Sacramento counties this year. In 2012, 19 WNV antibody-positive chickens have been detected among nine flocks in four counties. At this time last year, six WNV seroconversions had been reported from two counties.

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2011 & 2012 YTD West Nile Virus Comparisons		
	2011	2012
Total # Dead Bird Reports	4,760	8,009
# Positive Counties	17	22
# Human Cases	1	6
# Horse Cases	0	0
# Positive Dead Birds / # Tested	69 / 1,047	432 / 1,783
# Positive Mosquito Pools / # Tested	147 / 12,797	593 / 13,103
# Seroconversions / # Tested	6 / 10,100	19 / 9,205
# Positive Squirrels / # Tested	0 / 47	0 / 66

YTD WNV Activity by Element and County, 2012

County	Humans	Horses	Dead Birds*	Mosquito Pools	Sentinel Chickens	Squirrels
Contra Costa			6	3		
Fresno	1		9	44		
Imperial				2		
Kern	2		7	151		
Los Angeles	1		15	20	1	
Merced	1		9			
Orange			1	4		
Placer			1	5		
Riverside			1	56	6	
Sacramento			265	239	11	
San Bernardino				9		
San Joaquin			26	19		
San Mateo			1			
Santa Clara			7			
Santa Cruz			1			
Solano			12	1		
Stanislaus	1		19	9		
Sutter				8		
Tulare			27	14	1	
Ventura			5			
Yolo			19	8		
Yuba			1	1		
Totals	6	0	432	593	19	0

*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	5	0	0	0	0	0
	YTD	6	0	0	0	0	0
Horse Cases	Week	0	0	0	0	0	0
	YTD	0	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	181	79
	YTD	1,783	432
Tree Squirrels	Week	7	0
	YTD	66	0

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	1,103	14	0	0
	YTD	9,205	19	0	0
Mosquito Pools	Week	1310	145	0	0
	YTD	13,108	593	0	0

POSITIVES: WEEK 29

Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
12-0002	07/13/12	Kern	20	M	WNF^	07/10/12	NO
12-0003	07/13/12	Stanislaus	6	F	WNND	07/06/12	NO
12-0004	07/16/12	Merced	<18	M	WNND	06/25/12	NO
12-0005	07/16/12	Fresno	59	M	WNF	n/a	NO
12-0006	07/18/12	Los Angeles	54	M	WNND	06/29/12	NO

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Dead Birds & Squirrels

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda Co MAD	Alameda	94501	Red-Breasted Nuthatch	7/6/2012	WNV	Chronic	RT-PCR
Alameda	Alameda Co MAD	Livermore	94550	Barn Owl	7/5/2012	WNV	Chronic	RT-PCR
Alameda	Alameda Co MAD	Dublin	94568	American Crow	7/2/2012	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	7/16/2012	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Pleasant Hill	94523	American Crow	7/16/2012	WNV	Recent	RAMP
El Dorado	El Dorado Co EM	El Dorado	95623	Western Scrub-Jay	7/9/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado Co EM	Cameron Park	95682	Black-headed Grosbeak	7/11/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado Co EM	Somerset	95684	Pacific-slope Flycatcher	7/8/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado Co VC	South Lake Tahoe	96150	Evening Grosbeak	7/6/2012	WNV	Chronic	RT-PCR
El Dorado	El Dorado Co VC	South Lake Tahoe	96150	Northern Flicker	7/11/2012	WNV	Chronic	RT-PCR
Fresno	Fresno MVCD	Fresno	93704	Western Scrub-Jay	7/6/2012	WNV	Chronic	RT-PCR
Fresno	Fresno MVCD	Fresno	93711	Western Scrub-Jay	7/6/2012	WNV	Recent	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	European Starling	7/5/2012	WNV	Chronic	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	House Sparrow	7/5/2012	WNV	Chronic	RT-PCR
Kern	Kern MVCD	Bakersfield	93301	House Finch	7/9/2012	WNV	Recent	RT-PCR
Kern	Kern MVCD	Bakersfield	93301	American Crow	7/11/2012	WNV	Chronic	RT-PCR
Kern	Kern MVCD	Bakersfield	93308	American Crow	7/10/2012	WNV	Recent	RT-PCR
Kern	Kern MVCD	Bakersfield	93308	Western Scrub-Jay	7/10/2012	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Reseda	91335	Black Phoebe	7/9/2012	WNV	Chronic	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Granada Hills	91344	Mourning Dove	7/5/2012	WNV	Chronic	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Sherman Oaks	91411	American Crow	7/8/2012	WNV	Recent	RT-PCR
Los Angeles	Greater LA VCD2	Canoga Park	91303	Fox Squirrel	7/1/2012	WNV	Chronic	RT-PCR
Los Angeles	Greater LA VCD3	Woodland Hills	91367	Fox Squirrel	7/3/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Veterinarian	Los Angeles	90044	Black Phoebe	7/9/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Veterinarian	Santa Monica	90402	American Crow	7/10/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Winnetka	91306	American Crow	7/2/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Northridge	91324	Common Raven	7/10/2012	WNV	Recent	RT-PCR
Los Angeles	LA Co Veterinarian	Woodland Hills	91364	Bullock's Oriole	7/2/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Veterinarian	Van Nuys	91406	Red-shouldered Hawk	7/1/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Veterinarian	Glendora	91741	American Crow	7/10/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Veterinarian	Monterey Park	91755	Black Phoebe	7/10/2012	WNV	Chronic	RT-PCR
Los Angeles	LA Co Veterinarian	Pomona	91768	American Goldfinch	7/9/2012	WNV	Chronic	RT-PCR
Los Angeles	San Gabriel Valley	Sierra Madre	91024	American Crow	7/13/2012	WNV	Recent	RAMP

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Los Angeles	San Gabriel Valley	San Gabriel	91775	American Crow	7/13/2012	WNV	Recent	RAMP
Madera	Madera Co MVCD	Ahwahnee	93601	Red-winged Blackbird	7/9/2012	WNV	Chronic	RT-PCR
Madera	Madera Co MVCD	Madera	93637	European Starling	7/10/2012	WNV	Chronic	RT-PCR
Merced	Merced Co MAD	Atwater	95301	Barn Owl	7/10/2012	WNV	Chronic	RT-PCR
Merced	Merced Co MAD	Winton	95388	Yellow-billed Magpie	7/9/2012	WNV	Recent	RT-PCR
Monterey	N Salinas Valley MAD	Salinas	93906	House Sparrow	7/6/2012	WNV	Chronic	RT-PCR
Monterey	N Salinas Valley MAD	Watsonville	95076	Cooper's Hawk	7/5/2012	WNV	Chronic	RT-PCR
Napa	Napa Co MAD	Napa	94558	Lesser Goldfinch	7/10/2012	WNV	Chronic	RT-PCR
Nevada	NV Co Env Health - NV City	Grass Valley	95949	Brewer's Blackbird	7/5/2012	WNV	Chronic	RT-PCR
Nevada	NV Co Env Health - NV City	Grass Valley	95949	Brewer's Blackbird	7/5/2012	WNV	Chronic	RT-PCR
Nevada	NV Co Env Health - NV City	Grass Valley	95949	Spotted Towhee	7/5/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Elverta	95626	Ring-necked Pheasant	7/3/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Mourning Dove	6/28/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Mourning Dove	7/3/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Lincoln	95648	Mourning Dove	7/4/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Lincoln	95648	House Finch	7/5/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Roseville	95661	House Finch	6/29/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Rocklin	95677	Western Scrub-Jay	7/4/2012	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Roseville	95678	Western Scrub-Jay	7/11/2012	WNV	Recent	RT-PCR
Placer	Placer MVCD	Roseville	95747	House Finch	7/2/2012	WNV	Chronic	RT-PCR
Riverside	Riverside Co VCP	Beaumont	92223	Red-tailed Hawk	7/5/2012	WNV	Chronic	RT-PCR
Sacramento	Sacramento-Yolo	Elk Grove	95624	Eastern Grey	7/7/2012	WNV	Chronic	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	American Crow	7/10/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	7/13/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Bluebird	7/13/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Northern Mockingbird	7/6/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Yellow-billed Magpie	7/7/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Western Kingbird	7/9/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	House Finch	7/16/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Galt	95632	American Robin	7/6/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Galt	95632	American Crow	7/10/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Galt	95632	American Robin	7/12/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Herald	95638	Western Scrub-Jay	7/11/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Hood	95639	Western Scrub-Jay	7/16/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Mather	95655	Western Scrub-Jay	7/5/2012	WNV	Chronic	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	Yellow-billed Magpie	7/10/2012	WNV	Recent	RT-PCR

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Sacramento	Sacramento-Yolo MVCD	Rancho Murieta	95683	Black-crowned Night-Heron	7/6/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	Common Raven	7/14/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95742	House Finch	7/3/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95742	Brewer's Blackbird	7/10/2012	WNV	Chronic	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	House Sparrow	7/12/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	American Crow	7/11/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95814	American Robin	7/15/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95814	Bullock's Oriole	7/15/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95815	American Crow	7/12/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95815	American Crow	7/11/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95815	Western Scrub-Jay	7/16/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	American Robin	7/8/2012	WNV	Chronic	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	American Crow	7/12/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	House Sparrow	7/4/2012	WNV	Chronic	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Western Scrub-Jay	7/16/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	American Crow	7/12/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	Bushtit	7/12/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95838	European Starling	7/13/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95838	House Sparrow	7/6/2012	WNV	Chronic	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	American Crow	7/12/2012	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	7/3/2012	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	Wrightwood	92397	Western Gray Squirrel	7/11/2012	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	Big Bear City	92314	Lesser Goldfinch	7/8/2012	WNV	Chronic	RT-PCR
San Bernardino	San Bernardino VCP	Wrightwood	92397	American Robin	7/11/2012	WNV	Chronic	RT-PCR
San Bernardino	West Valley MVCD	Chino Hills	91709	House Finch	7/2/2012	WNV	Chronic	RT-PCR
San Bernardino	West Valley MVCD	Chino Hills	91709	House Finch	7/3/2012	WNV	Chronic	RT-PCR
San Bernardino	West Valley MVCD	Rancho Cucamonga	91737	Barn Owl	6/21/2012	WNV	Chronic	RT-PCR
San Francisco	Presidio Trust	San Francisco	94129	Dark-eyed Junco	7/5/2012	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95204	Western Scrub-Jay	7/12/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95204	Sparrow	7/13/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95204	Western Scrub-Jay	7/17/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95207	Sparrow	7/11/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95207	Finch	7/12/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95212	Western Scrub-Jay	7/11/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95215	Yellow-billed Magpie	7/18/2012	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Clements	95227	Hummingbird	7/11/2012	WNV	Recent	RT-PCR

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San Joaquin	San Joaquin Co MVCD	Manteca	95336	American Crow	7/13/2012	WNV	Recent	RT-PCR
San Mateo	San Mateo Co. MAD	Menlo Park	94025	Western Gray Squirrel	7/3/2012	WNV	Chronic	RT-PCR
Santa Barbara	MVMD Santa Barbara Co	Goleta	93117	Western Scrub-Jay	7/11/2012	WNV	Chronic	RT-PCR
Santa Barbara	Santa Barbara	Montecito	93108	Fox Squirrel	7/5/2012	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara	San Jose	95131	Eastern Gray Squirrel	7/11/2012	WNV	Chronic	RT-PCR
Santa Cruz	Santa Cruz MVCD	Los Gatos	95033	Great Horned Owl	7/9/2012	WNV	Recent	RT-PCR
Santa Cruz	Santa Cruz MVCD	Santa Cruz	95062	American Crow	7/6/2012	WNV	Chronic	RT-PCR
Solano	Solano Co MAD	Dixon	95620	American Crow	7/10/2012	WNV	Recent	RT-PCR
Solano	Solano Co MAD	Vacaville	95688	Western Scrub-Jay	7/16/2012	WNV	Recent	RAMP
Solano	Solano Co MAD	Vacaville	95688	Yellow-billed Magpie	7/18/2012	WNV	Recent	RAMP
Sonoma	Marin-Sonoma MVCD	Petaluma	94952	American Crow	7/10/2012	WNV	Chronic	RT-PCR
Stanislaus	East Side MAD	Modesto	95350	House Finch	7/5/2012	WNV	Chronic	RT-PCR
Stanislaus	East Side MAD	Modesto	95354	Western Scrub-Jay	7/8/2012	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95354	Western Scrub-Jay	7/10/2012	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95355	Western Scrub-Jay	7/5/2012	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95356	Western Scrub-Jay	7/8/2012	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95358	Western Scrub-Jay	7/2/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Ceres	95307	American Crow	7/2/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95380	Yellow-billed Magpie	7/6/2012	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95380	House Finch	7/10/2012	WNV	Chronic	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	7/3/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	7/6/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	7/10/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	Western Scrub-Jay	7/18/2012	WNV	Recent	RAMP
Tulare	Delta VCD	Visalia	93277	American Crow	7/18/2012	WNV	Recent	RAMP
Tulare	Delta VCD	Visalia	93277	American Crow	7/20/2012	WNV	Recent	RAMP
Tulare	Delta VCD	Visalia	93291	American Crow	7/10/2012	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93291	Western Scrub-Jay	7/19/2012	WNV	Recent	RAMP
Tulare	Delta VCD	Visalia	93291	House Sparrow	7/3/2012	WNV	Chronic	RT-PCR
Tulare	Delta VCD	Visalia	93292	American Crow	7/3/2012	WNV	Recent	RT-PCR
Tulare	Tulare MAD	Tulare	93274	House Sparrow	7/9/2012	WNV	Recent	RT-PCR
Tulare	Tulare MAD	Tulare	93274	Western Scrub-Jay	7/11/2012	WNV	Recent	RT-PCR
Ventura	Ventura Co Env Health	Camarillo	93010	Dark-eyed Junco	7/10/2012	WNV	Chronic	RT-PCR
Ventura	Ventura Co Env Health	Simi Valley	93063	American Crow	7/6/2012	WNV	Recent	RT-PCR
Ventura	Ventura Co Env Health	Simi Valley	93065	American Crow	7/6/2012	WNV	Chronic	RT-PCR
Yolo	Sacramento-Yolo MVCD	Clarksburg	95612	House Sparrow	7/3/2012	WNV	Chronic	RT-PCR

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Yolo	Sacramento-Yolo MVCD	Davis	95618	Northern Mockingbird	7/9/2012	WNV	Chronic	RT-PCR
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	House Sparrow	7/9/2012	WNV	Recent	RT-PCR
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	Western Scrub-Jay	7/16/2012	WNV	Recent	RT-PCR
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	American Crow	7/9/2012	WNV	Chronic	RT-PCR
Yolo	Sacramento-Yolo MVCD	Zamora	95698	Helmeted Guineafowl	7/5/2012	WNV	Chronic	RT-PCR
Yolo	Sacramento-Yolo MVCD	Woodland	95776	Western Scrub-Jay	7/7/2012	WNV	Recent	RT-PCR
Yuba	Sutter-Yuba MVCD	Marysville	95901	American Robin	7/9/2012	WNV	Recent	RT-PCR

Mosquito Pools

County	Site Code	Pool #	City	Species	# in Pool	Trap Type	Collected	Virus	Method
Contra Costa	CNTR3966	195	Brentwood	Cx. pipiens	29	CO2	7/16/12	WNV	RAMP
Fresno	CNSL1209	191	Clovis	Cx. quinquefasciatus	21	GRVD	7/12/12	WNV	RTPCR
Fresno	CNSL1373	200	Clovis	Cx. tarsalis	50	CO2	7/13/12	WNV	RTPCR
Fresno	CNSL1441	199	Fresno	Cx. tarsalis	38	CO2	7/13/12	WNV	RTPCR
Fresno	CNSL1483	195	Clovis	Cx. tarsalis	33	CO2	7/12/12	WNV	RTPCR
Fresno	CNSL1514	402	Clovis	Cx. quinquefasciatus	21	GRVD	7/13/12	WNV	RTPCR
Fresno	CNSL1631	192	Fresno	Cx. quinquefasciatus	29	GRVD	7/12/12	WNV	RTPCR
Fresno	CNSL2138	410	Sanger	Cx. quinquefasciatus	31	CO2	7/17/12	WNV	RTPCR
Fresno	CNSL2299	196	Sanger	Cx. quinquefasciatus	50	GRVD	7/13/12	WNV	RTPCR
Fresno	CNSL2412	394	Sanger	Cx. quinquefasciatus	36	GRVD	7/12/12	WNV	RTPCR
Fresno	CNSL3071	380	Parlier	Cx. quinquefasciatus	50	GRVD	7/11/12	WNV	RTPCR
Fresno	CNSL4026	399	Selma	Cx. quinquefasciatus	50	GRVD	7/11/12	WNV	RTPCR
Fresno	CNSL4027	398	Selma	Cx. quinquefasciatus	50	GRVD	7/11/12	WNV	RTPCR
Fresno	FRNO23	36	FRESNO	Cx. quinquefasciatus	50	GRVD	7/18/12	WNV	RTPCR
Imperial	COAV5001	1837	Niland	Cx. tarsalis	50	CO2	7/11/12	WNV	RTPCR
Kern	KERN1005	891	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/9/12	WNV	RTPCR
Kern	KERN1137	993	Bakersfield	Cx. quinquefasciatus	50	CO2	7/12/12	WNV	RTPCR
Kern	KERN121	983	Bakersfield	Cx. quinquefasciatus	33	GRVD	7/12/12	WNV	RTPCR
Kern	KERN2007	982	Bakersfield	Cx. quinquefasciatus	16	GRVD	7/12/12	WNV	RTPCR
Kern	KERN2010	977	Bakersfield	Cx. quinquefasciatus	36	GRVD	7/12/12	WNV	RTPCR
Kern	KERN2014	981	Bakersfield	Cx. quinquefasciatus	43	GRVD	7/12/12	WNV	RTPCR
Kern	KERN2016	927	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/10/12	WNV	RTPCR
Kern	KERN2016	928	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/10/12	WNV	RTPCR
Kern	KERN2018	926	Bakersfield	Cx. quinquefasciatus	22	GRVD	7/10/12	WNV	RTPCR
Kern	KERN2020	978	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/12/12	WNV	RTPCR
Kern	KERN2020	979	Bakersfield	Cx. quinquefasciatus	33	GRVD	7/12/12	WNV	RTPCR
Kern	KERN2024	922	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/10/12	WNV	RTPCR
Kern	KERN2024	923	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/10/12	WNV	RTPCR
Kern	KERN2024	924	Bakersfield	Cx. quinquefasciatus	44	GRVD	7/10/12	WNV	RTPCR
Kern	KERN2025	985	Bakersfield	Cx. quinquefasciatus	20	GRVD	7/12/12	WNV	RTPCR
Kern	KERN2027	980	Bakersfield	Cx. quinquefasciatus	12	GRVD	7/12/12	WNV	RTPCR
Kern	KERN2028	976	Bakersfield	Cx. quinquefasciatus	24	GRVD	7/12/12	WNV	RTPCR
Kern	KERN2030	930	Bakersfield	Cx. quinquefasciatus	13	GRVD	7/10/12	WNV	RTPCR
Kern	KERN2033	894	Bakersfield	Cx. quinquefasciatus	50	GRVD	7/9/12	WNV	RTPCR
Kern	KERN2034	892	Bakersfield	Cx. quinquefasciatus	48	GRVD	7/9/12	WNV	RTPCR
Kern	KERN2039	937	Bakersfield	Cx. quinquefasciatus	28	GRVD	7/11/12	WNV	RTPCR
Kern	KERN2051	938	Bakersfield	Cx. quinquefasciatus	17	GRVD	7/11/12	WNV	RTPCR
Kern	KERN29	946	Lamont	Cx. tarsalis	50	CO2	7/11/12	WNV	RTPCR

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Kern	KERN29	947	Lamont	Cx. tarsalis	50	CO2	7/11/12	WNV	RTPCR
Kern	KERN29	950	Lamont	Cx. quinquefasciatus	50	CO2	7/11/12	WNV	RTPCR
Kern	KERN29	951	Lamont	Cx. quinquefasciatus	50	CO2	7/11/12	WNV	RTPCR
Kern	KERN29	953	Lamont	Cx. quinquefasciatus	50	CO2	7/11/12	WNV	RTPCR
Kern	KERN3004	956	Bakersfield	Cx. tarsalis	19	CO2	7/11/12	WNV	RTPCR
Los Angeles	GRLA2554	5723	Winnetka	Cx. quinquefasciatus	50	GRVD	7/12/12	WNV	RTPCR
Los Angeles	GRLA2554	5724	Winnetka	Cx. quinquefasciatus	45	GRVD	7/12/12	WNV	RTPCR
Los Angeles	GRLA2592	5711	San Marino	Cx. quinquefasciatus	40	GRVD	7/12/12	WNV	RTPCR
Los Angeles	GRLA2665	5715	Encino	Cx. quinquefasciatus	50	GRVD	7/12/12	WNV	RTPCR
Los Angeles	GRLA2936	5700	Burbank	Cx. quinquefasciatus	50	GRVD	7/12/12	WNV	RTPCR
Los Angeles	GRLA2962	5729	Chatsworth	Cx. quinquefasciatus	40	GRVD	7/12/12	WNV	RTPCR
Orange	ORCO198	676	La Habra	Cx. quinquefasciatus	50	GRVD	7/10/12	WNV	RTPCR
Orange	ORCO34	674	Brea	Cx. quinquefasciatus	44	GRVD	7/10/12	WNV	RTPCR
Riverside	COAV121	1874	Mecca	Cx. tarsalis	50	CO2	7/17/12	WNV	RTPCR
Riverside	COAV121	1875	Mecca	Cx. tarsalis	50	CO2	7/17/12	WNV	RTPCR
Riverside	COAV30	1809	Mecca	Cx. tarsalis	50	CO2	7/11/12	WNV	RTPCR
Riverside	COAV30	1847	Mecca	Cx. tarsalis	39	CO2	7/17/12	WNV	RTPCR
Riverside	COAV35	1860	Mecca	Cx. tarsalis	29	CO2	7/17/12	WNV	RTPCR
Riverside	COAV37	1861	Mecca	Cx. tarsalis	50	CO2	7/17/12	WNV	RTPCR
Riverside	COAV40	1882	Mecca	Cx. tarsalis	50	CO2	7/17/12	WNV	RTPCR
Riverside	COAV40	1884	Mecca	Cx. tarsalis	50	CO2	7/17/12	WNV	RTPCR
Riverside	COAV43	1892	Mecca	Cx. tarsalis	34	CO2	7/17/12	WNV	RTPCR
Riverside	COAV45	1866	Mecca	Cx. tarsalis	45	CO2	7/17/12	WNV	RTPCR
Riverside	COAV46	1871	Mecca	Cx. tarsalis	50	CO2	7/17/12	WNV	RTPCR
Riverside	COAV48	1894	Mecca	Cx. tarsalis	50	CO2	7/17/12	WNV	RTPCR
Riverside	COAV533	1890	Mecca	Cx. tarsalis	19	CO2	7/17/12	WNV	RTPCR
Riverside	COAV540	1869	Mecca	Cx. tarsalis	15	CO2	7/17/12	WNV	RTPCR
Riverside	COAV56	1878	Mecca	Cx. tarsalis	50	CO2	7/17/12	WNV	RTPCR
Riverside	COAV56	1881	Mecca	Cx. tarsalis	50	CO2	7/17/12	WNV	RTPCR
Riverside	COAV57	1895	Mecca	Cx. tarsalis	50	CO2	7/17/12	WNV	RTPCR
Riverside	COAV57	1896	Mecca	Cx. tarsalis	50	CO2	7/17/12	WNV	RTPCR
Riverside	COAV58	1887	Mecca	Cx. tarsalis	50	CO2	7/17/12	WNV	RTPCR
Riverside	COAV58	1889	Mecca	Cx. tarsalis	26	CO2	7/17/12	WNV	RTPCR
Riverside	COAV68	1867	Mecca	Cx. tarsalis	50	CO2	7/17/12	WNV	RTPCR
Sacramento	SAYO203002	2866	Antelope	Cx. tarsalis	1	CO2	7/17/12	WNV	RTPCR
Sacramento	SAYO204047	2943	Orangevale	Cx. pipiens	33	GRVD	7/19/12	WNV	RTPCR
Sacramento	SAYO213005	2818	Sacramento	Cx. pipiens	7	GRVD	7/16/12	WNV	RTPCR
Sacramento	SAYO213013	2982	Sacramento	Cx. tarsalis	8	CO2	7/19/12	WNV	RTPCR
Sacramento	SAYO214008	2765	Carmichael	Cx. tarsalis	3	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO222037	2800	Sacramento	Cx. pipiens	50	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO223006	2785	South Watt Avenue	Cx. tarsalis	1	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO223006	2787	South Watt Avenue	Cx. pipiens	4	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO223010	2791	Sacramento	Cx. tarsalis	23	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO223010	2792	Sacramento	Cx. tarsalis	1	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO223010	2793	Sacramento	Cx. pipiens	3	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO223012	2996	Sacramento	Cx. pipiens	18	CO2	7/19/12	WNV	RTPCR
Sacramento	SAYO223016	2759	Sacramento	Cx. tarsalis	3	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO223016	2760	Sacramento	Cx. tarsalis	1	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO223016	2761	Sacramento	Cx. pipiens	50	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO223032	2794		Cx. tarsalis	10	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO223032	2795		Cx. pipiens	48	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO232025	2723	Sacramento	Cx. pipiens	27	GRVD	7/12/12	WNV	RTPCR

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Sacramento	SAYO232028	3004	Sacramento	Cx. pipiens	14	CO2	7/19/12	WNV	RTPCR
Sacramento	SAYO232028	3005	Sacramento	Cx. erythrothorax	1	CO2	7/19/12	WNV	RTPCR
Sacramento	SAYO233001	2709	Elk Grove	Cx. tarsalis	26	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO233003	2713	Elk Grove	Cx. pipiens	6	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO233009	2732	Elk Grove	Cx. tarsalis	40	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO233009	2734	Elk Grove	Cx. pipiens	2	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO233030	2731	Sacramento	Cx. pipiens	10	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO233047	2775	Elk Grove	Cx. tarsalis	50	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO233047	2776	Elk Grove	Cx. tarsalis	42	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO233057	2752	Sacramento	Cx. tarsalis	7	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO233058	2755	Sacramento	Cx. tarsalis	50	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO233058	2756	Sacramento	Cx. tarsalis	16	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO233066	2717	Sacramento	Cx. tarsalis	23	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO233066	2718	Sacramento	Cx. tarsalis	7	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO234008	2685	Wilton	Cx. tarsalis	50	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO234008	2687	Wilton	Cx. tarsalis	50	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO234008	2688	Wilton	Cx. tarsalis	5	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO234008	2689	Wilton	Cx. tarsalis	7	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO234013	2735	Elk Grove	Cx. tarsalis	17	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO234013	2736	Elk Grove	Cx. tarsalis	1	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO235012	2692	Wilton	Cx. tarsalis	50	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO235012	2693	Wilton	Cx. tarsalis	50	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO242017	2812	Hood	Cx. tarsalis	46	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO242017	2813	Hood	Cx. pipiens	8	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO242017	2814	Hood	Cx. erythrothorax	2	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO244006	2696	Wilton	Cx. tarsalis	50	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO244006	2697	Wilton	Cx. tarsalis	5	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO244007	2700	Wilton	Cx. tarsalis	31	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO244008	2672	Wilton	Cx. tarsalis	50	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO244010	2656	Wilton	Cx. tarsalis	35	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO244011	2676	Wilton	Cx. tarsalis	50	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO244011	2679	Wilton	Cx. pipiens	34	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO244011	2680	Wilton	Cx. pipiens	50	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO244011	2681	Wilton	Cx. pipiens	50	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO244011	2682	Wilton	Cx. pipiens	50	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO244011	2683	Wilton	Cx. pipiens	50	GRVD	7/12/12	WNV	RTPCR
Sacramento	SAYO244012	2668	Wilton	Cx. tarsalis	50	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO244013	2664	Wilton	Cx. tarsalis	51	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO245002	2702	Wilton	Cx. tarsalis	49	CO2	7/12/12	WNV	RTPCR
Sacramento	SAYO245002	2864	Wilton	Cx. tarsalis	30	CO2	7/17/12	WNV	RTPCR
San Bernardino	SANB3	197	Colton	Cx. quinquefasciatus	5	GRVD	7/3/12	WNV	RTPCR
San Bernardino	SANB4	198	San Bernadino	Cx. quinquefasciatus	11	CO2	7/11/12	WNV	RTPCR
San Bernardino	WVAL2018	249	Chino	Cx. quinquefasciatus	26	GRVD	7/17/12	WNV	RTPCR
San Bernardino	WVAL5005	246	Rancho Cucamonga	Cx. quinquefasciatus	28	GRVD	7/17/12	WNV	RTPCR
San Bernardino	WVAL5007	248	Rancho Cucamonga	Cx. quinquefasciatus	8	GRVD	7/17/12	WNV	RTPCR
San Bernardino	WVAL5009	238	Rancho Cucamonga	Cx. quinquefasciatus	6	GRVD	7/17/12	WNV	RTPCR
San Joaquin	SJCM8106	355	Escalon	Cx. tarsalis	13	CO2	7/6/12	WNV	RTPCR
San Joaquin	SJCM8037	412	Lathrop	Cx. tarsalis	6	CO2	7/17/12	WNV	RTPCR
San Joaquin	SJCM8074	389	Morada	Cx. pipiens	5	CO2	7/11/12	WNV	RTPCR
San Joaquin	SJCM8084	407	Stockton	Cx. pipiens	8	CO2	7/17/12	WNV	RTPCR
Stanislaus	TRLK305	346	Grayson	Cx. tarsalis	50	CO2	7/17/12	WNV	RTPCR

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Stanislaus	TRLK414	335	Modesto	Cx. tarsalis	25	CO2	7/17/12	WNV	RTPCR
Tulare	DLTA8520	97	Visalia	Cx. quinquefasciatus	33	GRVD	7/17/12	WNV	RTPCR
Yolo	SAYO145013	2835	Davis	Cx. tarsalis	39	CO2	7/17/12	WNV	RTPCR
Yuba	SUYA10	167	Olivehurst	Cx. pipiens	43	REST	7/16/12	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Los Angeles	GRLA2371	South El Monte	7/10/2012	WNV	3563				
Riverside	COAV000122	Mecca	7/9/2012	WNV	3871				
Riverside	COAV000035	Mecca	7/9/2012	WNV	3866				
Sacramento	SAYO233001	Elk Grove	7/16/2012	WNV	2302	2304	2305	2307	
Sacramento	SAYO236001	Rancho Murieta	7/9/2012	WNV	2345				
Sacramento	SAYO245019	Wilton	7/16/2012	WNV	2322	2324	2325	2327	2328
Sacramento	SAYO254001	Galt	7/16/2012	WNV	2313				

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.

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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.

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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