

California Arbovirus Surveillance Bulletin #32

Week 38 Friday, September 23, 2011



WEEKLY UPDATE

Human Cases

Nineteen new human cases of West Nile virus (WNV) were reported this week from El Dorado (1), Kern (4), Los Angeles (8), Placer (1), Riverside (3), Tulare (1), and Yuba (1) counties. To date this year, 67 WNV cases have been reported from 16 counties; of the 67 cases, 46 (69%) developed neuroinvasive disease. The median age for all cases is 57 years (range: 17-86 years) and 43 (64%) are male. No fatalities have been reported. Additionally, 15 WNV-positive blood donors have been reported this year; 6 of the individuals subsequently developed symptoms and were reclassified as cases.

At this time last year, 51 WNV cases had been reported from 10 counties.

National Activity: As of September 20, 2011, 268 human cases of WNV had been reported nationwide in 35 states: Alabama (1), Arizona (30), California (48), Colorado (2), Connecticut (5), Delaware (1), Florida (13), Georgia (4), Idaho (1), Illinois (6), Indiana (4), Iowa (2), Louisiana (6), Maryland (11), Massachusetts (1), Michigan (15), Mississippi (33), Missouri (5), Nebraska (12), Nevada (9), New Jersey (4), New Mexico (2), New York (9), North Carolina (1), North Dakota (4), Ohio (11), Pennsylvania (4), Rhode Island (1), South Dakota (1), Tennessee (5), Texas (9), Vermont (1), Virginia (5), West Virginia (1), and Wyoming (1). Of the 268 cases, 183 (68%) developed neuroinvasive disease. A total of 13 WNV-related fatalities have been reported in Arizona (2), Florida (2), Georgia (1), Indiana (1), Michigan (2), Mississippi (2), Ohio (1), Pennsylvania (1), and Texas (1).

Horses

One case of WNV was reported this week in a horse from Fresno County; the horse is currently recovering. In 2011, 8 horse cases of WNV have been reported from 6 counties and one fatality has been reported. At this time last year, 16 horse cases of WNV had been reported from 9 counties.

Dead Birds & Squirrels

Sixty-five WNV positive dead birds were reported this week from 15 counties: Contra Costa (7), Fresno (2), Los Angeles (10), Madera (1), Merced (2), Nevada (1), Orange (8), Riverside (1), Sacramento (23), San Joaquin (3), Santa Clara (1), Stanislaus (2), Sutter (1), Tehama (1), and Yolo (2). This is the first WNV positive dead bird reported from Sutter county and the first detection of WNV activity in Nevada and Tehama counties in 2011. In addition, two tree squirrels tested positive for WNV from Los Angeles and Santa Clara counties; these are the first WNV positive tree squirrels reported from these counties. To date this year, 463 dead birds from 24 counties and 3 tree squirrels from 3 counties have tested positive for WNV. An additional 103 birds have tested positive for chronic* WNV infection from 24 counties.

At this time last year, 359 birds from 25 counties, and 16 tree squirrels from 7 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 155 WNV positive mosquito pools were reported this week from the following 17 counties: Contra Costa (1), Fresno (1), Kern (30), Kings (11), Lake (1), Los Angeles (38), Madera (1), Merced (2), Orange (3), Placer (5), Riverside (5), Sacramento (26), San Bernardino (14), San Joaquin (3), Stanislaus (12), Sutter (1), and Tulare (1). In 2011, 1,806 mosquito pools from 24 counties have tested positive for WNV.

At this time last year, 1,217 mosquito pools from 23 counties had tested positive for WNV.

Sentinel Chickens

Fifty WNV seroconversions were reported this week from 26 flocks in the following 12 counties: Butte (4), Glenn (3), Kern (21), Los Angeles (2), Placer (2), Riverside (4), Sacramento (2), Solano (1), Stanislaus (5), Sutter (3), Tulare (2), and Yuba (1). This is the first detection of WNV activity in Solano County this year and the first WNV positive chickens reported from Placer, Stanislaus, and Yuba counties in 2011. To date this year, 217 WNV positive chickens have been detected among 53 flocks in 15 counties.

At this time last year, 219 chickens (53 flocks) had tested positive for WNV from 19 counties.

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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2010 & 2011 YTD West Nile Virus Comparisons		
	2010	2011
Total # Dead Bird Reports	9,153	8,056
# Positive Counties	34	32
# Human Cases	51	67
# Horse Cases	16	8
# Positive Dead Birds / # Tested	359 / 1,877	463 / 1,905
# Positive Mosquito Pools / # Tested	1,217 / 25,850	1,806 / 26,970
# Seroconversions / # Tested	219 / 20,874	217 / 17,276
# Positive Squirrels / # Tested	16 / 83	3 / 68

YTD WNV Activity by Element and County, 2011

County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Butte	2				9	
Contra Costa			21	5		
El Dorado	1		1			
Fresno	5	3	13	113		
Glenn	1		1		4	
Imperial				2	3	
Inyo				2		
Kern	9	1	3	338	100	
Kings			3	55		
Lake				3		
Los Angeles	23	1	169	388	33	1
Madera	1		2	5		
Merced		1	5	10	2	
Nevada			1			
Orange	3		24	82		
Placer	1	1	3	47	2	
Riverside	3		5	46	12	
Sacramento			103	346	3	1
San Bernardino	2		16	111	34	
San Diego				1		
San Joaquin	2		15	47		
Santa Barbara	1					
Santa Clara			21	14		1
Shasta				1		
Solano					1	
Stanislaus	7		13	79	5	
Sutter			1	26	4	
Tehama			1			
Tulare	5	1	36	79	4	
Ventura			1			
Yolo			4	5		
Yuba	1		1	1	1	
Totals	67	8	463	1,806	217	3

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TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	19	0	0	0	0	0
	YTD	67	0	0	0	0	0
Horse Cases	Week	1	0	0	0	0	0
	YTD	8	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	93	65
	YTD	1,905	463
Tree Squirrels	Week	4	2
	YTD	68	3

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	975	50	0	0
	YTD	17,276	217	0	0
Mosquito Pools: RT-PCR	Week	1,495	153	0	0
	YTD	26,739	1,795	0	0
Mosquito Pools: RAMP	Week	48	2	N/A	N/A
	YTD	231	11	N/A	N/A

NEW POSITIVES

Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
11-0049	09/16/11	El Dorado	80	F	WNND	n/a	No
11-0050	09/19/11	Placer	>18	M	WNND	08/18/11	No
11-0051	09/19/11	Riverside	44	F	WNND	08/02/11	No
11-0052	09/19/11	Tulare	49	M	WNF	08/28/11	No
11-0053	09/22/11	Riverside	63	F	WNND	08/18/11	No
11-0054	09/22/11	Riverside	36	M	WNND	08/20/11	No
11-0055	09/22/11	Kern	17	M	WNND	08/29/11	No
11-0056	09/22/11	Kern	76	F	WNND	08/22/11	No
11-0057	09/22/11	Kern	64	M	WNND	08/18/11	No
11-0058	09/22/11	Kern	40	M	WNND	n/a	No
11-0059	09/22/11	Los Angeles	56	F	WNF	09/07/11	No
11-0060	09/22/11	Los Angeles	52	F	WNF^	08/25/11	No
11-0061	09/22/11	Los Angeles	27	F	WNND	09/06/11	No
11-0062	09/22/11	Los Angeles	25	M	WNND	09/07/11	No
11-0063	09/22/11	Los Angeles	43	F	WNND	09/12/11	No
11-0064	09/22/11	Los Angeles	74	F	WNF	09/02/11	No
11-0065	09/22/11	Los Angeles	57	M	WNND	08/30/11	No
11-0066	09/22/11	Los Angeles	66	F	WNND^	09/09/11	No
11-0067	09/23/11	Yuba	n/a	M	WNF^	n/a	No
Presumptive Viremic Blood Donors (Asymptomatic Infections)							
BD11-0007	09/22/11	Los Angeles	65	F			
BD11-0008	09/22/11	Los Angeles	17	M			
BD11-0009	09/22/11	Los Angeles	47	M			
BD11-0010	09/23/11	Kings	>18	F			

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Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Contra Costa	Contra Costa MVCD	Lafayette	94549	American Crow	9/14/2011	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94518	Western Scrub-Jay	9/14/2011	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	9/14/2011	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Pleasant Hill	94523	American Crow	9/14/2011	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94518	American Crow	9/18/2011	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Walnut Creek	94598	Western Scrub-Jay	9/19/2011	WNV	Recent	RAMP
Contra Costa	Contra Costa MVCD	Concord	94520	American Crow	9/20/2011	WNV	Recent	RAMP
Fresno	Consolidated MAD	Reedley	93654	House Finch	8/19/2011	WNV	Recent	RT-PCR
Fresno	Consolidated MAD	Fresno	93720	Western Scrub-Jay	9/2/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Valencia	91355	American Crow	9/13/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	North Hollywood	91601	American Crow	9/13/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Calabasas	91302	Fox Squirrel	9/8/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	San Gabriel	91775	American Crow	9/2/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Lakewood	90712	American Crow	9/7/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Glendora	91741	American Crow	9/7/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	San Dimas	91773	American Crow	9/8/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	West Hills	91307	American Crow	9/8/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	malibu	90265	American Crow	9/8/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Encino	91436	American Crow	9/8/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Porter Ranch	91326	American Crow	9/8/2011	WNV	Recent	RT-PCR
Madera	Madera Co MVCD	Madera	93637	American Crow	9/13/2011	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Atwater	95301	Yellow-billed Magpie	9/12/2011	WNV	Recent	RT-PCR
Merced	Merced Co MAD	Delhi	95315	Yellow-billed Magpie	9/12/2011	WNV	Recent	RT-PCR
Nevada	Nevada Co EH - Nevada City	Grass Valley	95945	Acorn Woodpecker	9/8/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92804	American Crow	8/30/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Westminster	92683	House Finch	8/31/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Cypress	90630	American Crow	9/2/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92804	American Crow	9/7/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92804	American Crow	9/8/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Garden Grove	92844	American Crow	9/12/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Fullerton	92833	American Crow	9/12/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92801	American Crow	9/14/2011	WNV	Recent	RT-PCR
Riverside	Northwest Mosquito VCD	Riverside	92509	American Crow	9/7/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elverta	95626	American Crow	9/6/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	American Crow	9/7/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Yellow-billed Magpie	9/8/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	9/8/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Yellow-billed Magpie	9/8/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	9/8/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	9/9/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95833	Western Scrub-Jay	9/9/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	9/10/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	Yellow-billed Magpie	9/10/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Rancho Murieta	95683	Western Scrub-Jay	9/11/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	9/11/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95829	American Crow	9/12/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	Western Scrub-Jay	9/12/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	American Crow	9/12/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	Western Scrub-Jay	9/12/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	9/13/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	Yellow-billed Magpie	9/14/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	9/14/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	9/15/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	Yellow-billed Magpie	9/15/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95838	American Crow	9/15/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	9/15/2011	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Manteca	95336	American Crow	9/7/2011	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Manteca	95336	Western Scrub-Jay	9/7/2011	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Ripon	95366	American Crow	9/8/2011	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	9/12/2011	WNV	Recent	VecTest
Santa Clara	Santa Clara VCD	Palo Alto	94303	Eastern Squirrel	9/9/2011	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95380	Northern Mockingbird	9/8/2011	WNV	Chronic	RT-PCR
Stanislaus	Turlock MAD	Turlock	95380	American Crow	9/7/2011	WNV	Recent	RT-PCR
Stanislaus	Turlock MAD	Turlock	95382	Western Scrub-Jay	9/8/2011	WNV	Recent	RT-PCR

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Sutter	Sutter-Yuba MVCD	Yuba City	95991	Western Scrub-Jay	9/8/2011	WNV	Recent	RT-PCR
Tehama	Tehama Co MVCD	Red Bluff	96080	Yellow-billed Magpie	9/8/2011	WNV	Recent	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	9/6/2011	WNV	Recent	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95618	Western Scrub-Jay	9/6/2011	WNV	Recent	RT-PCR

Mosquitoes

County	Site Code	Pool #	Species	# in Pool	City	Collected	Virus	Method
Contra Costa	CNTR4061	340	Cx. tarsalis	22	Concord	9/21/2011	WNV	RAMP
Fresno	CNSL1133	747	Cx. quinquefasciatus	50	Clovis	9/14/2011	WNV	RTPCR
Kern	KERN0115	2211	Cx. quinquefasciatus	50	Bakersfield	9/13/2011	WNV	RTPCR
Kern	KERN0121	2358	Cx. quinquefasciatus	39	Bakersfield	9/16/2011	WNV	RTPCR
Kern	KERN0015	2301	Cx. tarsalis	50	Pumpkin Center	9/15/2011	WNV	RTPCR
Kern	KERN0015	2304	Cx. quinquefasciatus	50	Pumpkin Center	9/15/2011	WNV	RTPCR
Kern	KERN2002	2347	Cx. quinquefasciatus	17	Bakersfield	9/16/2011	WNV	RTPCR
Kern	KERN2005	2204	Cx. quinquefasciatus	32	Bakersfield	9/13/2011	WNV	RTPCR
Kern	KERN2015	2271	Cx. quinquefasciatus	43	Bakersfield	9/14/2011	WNV	RTPCR
Kern	KERN2021	2329	Cx. quinquefasciatus	50	Wasco	9/15/2011	WNV	RTPCR
Kern	KERN2022	2331	Cx. quinquefasciatus	50	Shafter	9/15/2011	WNV	RTPCR
Kern	KERN2030	2270	Cx. quinquefasciatus	52	Bakersfield	9/14/2011	WNV	RTPCR
Kern	KERN2033	2203	Cx. quinquefasciatus	11	Bakersfield	9/13/2011	WNV	RTPCR
Kern	KERN2034	2199	Cx. quinquefasciatus	18	Bakersfield	9/13/2011	WNV	RTPCR
Kern	KERN2043	2202	Cx. quinquefasciatus	42	Bakersfield	9/13/2011	WNV	RTPCR
Kern	KERN2051	2272	Cx. quinquefasciatus	28	Bakersfield	9/14/2011	WNV	RTPCR
Kern	KERN0029	2258	Cx. quinquefasciatus	50	Lamont	9/14/2011	WNV	RTPCR
Kern	KERN3004	2116	Cx. quinquefasciatus	20	Bakersfield	9/8/2011	WNV	RTPCR
Kern	KERN3004	2263	Cx. tarsalis	44	Bakersfield	9/14/2011	WNV	RTPCR
Kern	KERN3014	2224	Cx. quinquefasciatus	40	Bakersfield	9/13/2011	WNV	RTPCR
Kern	KERN3026	2315	Cx. tarsalis	50	Arvin93203	9/15/2011	WNV	RTPCR
Kern	KERN3029	2281	Cx. quinquefasciatus	25	Buttonwillow	9/14/2011	WNV	RTPCR
Kern	KERN3031	2213	Cx. quinquefasciatus	50	Shafter	9/13/2011	WNV	RTPCR
Kern	KERN3031	2214	Cx. quinquefasciatus	50	Shafter	9/13/2011	WNV	RTPCR
Kern	KERN3031	2215	Cx. quinquefasciatus	50	Shafter	9/13/2011	WNV	RTPCR
Kern	KERN3041	2220	Cx. quinquefasciatus	50	Bakersfield	9/13/2011	WNV	RTPCR
Kern	KERN0031	2318	Cx. tarsalis	50	Arvin	9/15/2011	WNV	RTPCR
Kern	KERN0031	2320	Cx. quinquefasciatus	50	Arvin	9/15/2011	WNV	RTPCR
Kern	KERN0033	2312	Cx. quinquefasciatus	50	Arvin	9/15/2011	WNV	RTPCR
Kern	KERN0043	2328	Cx. quinquefasciatus	50	Shafter	9/15/2011	WNV	RTPCR
Kern	KERN0008	2246	Cx. quinquefasciatus	20	Bakersfield	9/13/2011	WNV	RTPCR
Kern	KERN0091	2231	Cx. tarsalis	50	Lost Hills	9/13/2011	WNV	RTPCR
Kings	KNGS3018	762	Cx. pipiens	32	Lemoore	9/16/2011	WNV	RTPCR
Kings	KNGS3022	711	Cx. tarsalis	50	Hanford	9/16/2011	WNV	RTPCR
Kings	KNGS3030	731	Cx. tarsalis	50	Lemoore	9/16/2011	WNV	RTPCR
Kings	KNGS3033	748	Cx. tarsalis	50	Hanford	9/16/2011	WNV	RTPCR
Kings	KNGS3050	737	Cx. tarsalis	50	Lemoore	9/16/2011	WNV	RTPCR
Kings	KNGS3062	751	Cx. tarsalis	50	Lemoore	9/16/2011	WNV	RTPCR
Kings	KNGS4006	775	Cx. pipiens	50	Hanford	9/16/2011	WNV	RTPCR
Kings	KNGS4006	776	Cx. pipiens	50	Hanford	9/16/2011	WNV	RTPCR
Kings	KNGS4006	777	Cx. pipiens	50	Hanford	9/16/2011	WNV	RTPCR
Kings	KNGS4009	773	Cx. pipiens	50	Armona	9/16/2011	WNV	RTPCR
Kings	KNGS4009	774	Cx. pipiens	38	Armona	9/16/2011	WNV	RTPCR
Lake	LAKE0286	302	Cx. tarsalis	10	Middletown	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2115	1440	Cx. quinquefasciatus	50	Bell	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2115	1441	Cx. quinquefasciatus	31	Bell	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2117	1442	Cx. quinquefasciatus	50	Compton	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2297	1424	Cx. quinquefasciatus	50	Los Angeles	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2297	1425	Cx. quinquefasciatus	50	Los Angeles	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2299	1420	Cx. stigmatosoma	15	Los Angeles	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2301	1428	Cx. quinquefasciatus	50	Los Angeles	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2321	1431	Cx. quinquefasciatus	51	Carson	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2323	1459	Cx. quinquefasciatus	39	Los Angeles	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2334	1445	Cx. quinquefasciatus	50	Whittier	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2334	1446	Cx. quinquefasciatus	50	Whittier	9/15/2011	WNV	RTPCR

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Los Angeles	GRLA2334	1448	Cx. stigmatosoma	9	Whittier	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2335	1449	Cx. quinquefasciatus	50	Whittier	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2335	1450	Cx. quinquefasciatus	38	Whittier	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2346	1456	Cx. quinquefasciatus	50	Montebello	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2346	1457	Cx. quinquefasciatus	50	Montebello	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2347	1455	Cx. quinquefasciatus	30	Montebello	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2355	1452	Cx. quinquefasciatus	26	Pico Rivera	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2419	6305	Cx. quinquefasciatus	12	Panorama City	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2421	6303	Cx. quinquefasciatus	28	Panorama City	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2521	6315	Cx. quinquefasciatus	23	Los Angeles	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2530	6300	Cx. quinquefasciatus	23	Sunland	9/14/2011	WNV	RTPCR
Los Angeles	GRLA2531	6325	Cx. quinquefasciatus	50	Chatsworth	9/16/2011	WNV	RTPCR
Los Angeles	GRLA2550	6329	Cx. quinquefasciatus	48	Mission Hills	9/16/2011	WNV	RTPCR
Los Angeles	GRLA2555	6293	Cx. quinquefasciatus	42	Encino	9/13/2011	WNV	RTPCR
Los Angeles	GRLA2557	6295	Cx. quinquefasciatus	50	Reseda	9/13/2011	WNV	RTPCR
Los Angeles	GRLA2567	6296	Cx. quinquefasciatus	24	Woodland Hills	9/13/2011	WNV	RTPCR
Los Angeles	GRLA2574	6297	Cx. quinquefasciatus	34	Sherman Oaks	9/13/2011	WNV	RTPCR
Los Angeles	GRLA2635	6311	Cx. quinquefasciatus	50	Van Nuys	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2635	6314	Cx. quinquefasciatus	12	Van Nuys	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2636	6310	Cx. quinquefasciatus	46	Van Nuys	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2636	6313	Cx. quinquefasciatus	19	Van Nuys	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2650	6307	Cx. quinquefasciatus	39	Encino	9/15/2011	WNV	RTPCR
Los Angeles	GRLA2871	1407	Cx. quinquefasciatus	44	South El Monte	9/13/2011	WNV	RTPCR
Los Angeles	GRLA2871	1410	Cx. quinquefasciatus	41	South El Monte	9/13/2011	WNV	RTPCR
Los Angeles	GRLA2871	1417	Cx. quinquefasciatus	38	South El Monte	9/13/2011	WNV	RTPCR
Los Angeles	GRLA3000	6301	Cx. quinquefasciatus	27	Sun Valley	9/14/2011	WNV	RTPCR
Los Angeles	GRLA3131	6331	Cx. quinquefasciatus	44	San Fernando	9/16/2011	WNV	RTPCR
Madera	MADR1075	42	Cx. tarsalis	28	madera	9/15/2011	WNV	RTPCR
Merced	MERC1103	92	Cx. tarsalis	50		9/14/2011	WNV	RTPCR
Merced	MERC0702	103	Cx. pipiens	50	Atwater	9/14/2011	WNV	RTPCR
Orange	ORCO0034	1150	Cx. quinquefasciatus	50	Brea	9/13/2011	WNV	RTPCR
Orange	ORCO0050	1149	Cx. quinquefasciatus	20	Buena Park	9/13/2011	WNV	RTPCR
Orange	ORCO0006	1144	Cx. quinquefasciatus	15	Irvine	9/13/2011	WNV	RTPCR
Placer	PLCR1068	1612	Cx. pipiens	50	Lincoln	9/20/2011	WNV	RTPCR
Placer	PLCR0296	1677	Cx. thriambus	9	Auburn	9/21/2011	WNV	RTPCR
Placer	PLCR0030	1689	Cx. tarsalis	45	Lincoln	9/21/2011	WNV	RTPCR
Placer	PLCR0030	1709	Cx. pipiens	50	Lincoln	9/21/2011	WNV	RTPCR
Placer	PLCR0525	1631	Cx. pipiens	50	Lincoln	9/20/2011	WNV	RTPCR
Riverside	COAV0030	2298	Cx. tarsalis	50	Mecca	9/15/2011	WNV	RTPCR
Riverside	COAV0346	2281	Cx. quinquefasciatus	17	Thermal	9/15/2011	WNV	RTPCR
Riverside	NWST0094	11202	Cx. quinquefasciatus	19		9/14/2011	WNV	RTPCR
Riverside	RIVR0051	659	Cx. tarsalis	12	Moreno Valley	9/14/2011	WNV	RTPCR
Riverside	RIVR0079	664	Cx. tarsalis	50	Beaumont	9/14/2011	WNV	RTPCR
Sacramento	SAYO202014	5630	Cx. tarsalis	33	Elverta	9/20/2011	WNV	RTPCR
Sacramento	SAYO203002	5619	Cx. tarsalis	50	Antelope	9/20/2011	WNV	RTPCR
Sacramento	SAYO203002	5620	Cx. pipiens	13	Antelope	9/20/2011	WNV	RTPCR
Sacramento	SAYO204005	5449	Cx. pipiens	32	Citrus Heights	9/16/2011	WNV	RTPCR
Sacramento	SAYO204007	5591	Cx. tarsalis	32	Antelope	9/20/2011	WNV	RTPCR
Sacramento	SAYO204024	5582	Cx. pipiens	7	Orangevale	9/20/2011	WNV	RTPCR
Sacramento	SAYO204025	5423	Cx. pipiens	9	Citrus Heights	9/16/2011	WNV	RTPCR
Sacramento	SAYO204047	5443	Cx. pipiens	16	Orangevale	9/16/2011	WNV	RTPCR
Sacramento	SAYO212021	5612	Cx. pipiens	18	Sacramento	9/20/2011	WNV	RTPCR
Sacramento	SAYO213025	5622	Cx. tarsalis	5	Sacramento	9/20/2011	WNV	RTPCR
Sacramento	SAYO213025	5624	Cx. pipiens	2	Sacramento	9/20/2011	WNV	RTPCR
Sacramento	SAYO214001	5636	Cx. pipiens	49	Carmichael	9/20/2011	WNV	RTPCR
Sacramento	SAYO214001	5637	Cx. pipiens	18	Carmichael	9/20/2011	WNV	RTPCR
Sacramento	SAYO222018	5667	Cx. tarsalis	3	Sacramento	9/20/2011	WNV	RTPCR
Sacramento	SAYO222026	5671	Cx. pipiens	4	Sacramento	9/20/2011	WNV	RTPCR
Sacramento	SAYO223019	5450	Cx. tarsalis	2	Sacramento	9/16/2011	WNV	RTPCR
Sacramento	SAYO223019	5453	Cx. pipiens	16	Sacramento	9/16/2011	WNV	RTPCR
Sacramento	SAYO226006	5638	Cx. tarsalis	2	Rancho Murieta	9/20/2011	WNV	RTPCR
Sacramento	SAYO226006	5639	Cx. pipiens	3	Rancho Murieta	9/20/2011	WNV	RTPCR
Sacramento	SAYO226006	5640	Cx. pipiens	16	Rancho Murieta	9/20/2011	WNV	RTPCR

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Sacramento	SAYO234002	5579	Cx. pipiens	51	Elk Grove	9/20/2011	WNV	RTPCR
Sacramento	SAYO234005	5570	Cx. pipiens	16	Elk Grove	9/20/2011	WNV	RTPCR
Sacramento	SAYO234005	5571	Cx. pipiens	5	Elk Grove	9/20/2011	WNV	RTPCR
Sacramento	SAYO234011	5567	Cx. tarsalis	46	Sacramento	9/20/2011	WNV	RTPCR
Sacramento	SAYO253004	5513	Cx. tarsalis	50	Thornton	9/16/2011	WNV	RTPCR
Sacramento	SAYO254001	5561	Cx. pipiens	1	Galt	9/19/2011	WNV	RTPCR
San Bernardino	WVAL1008	783	Cx. quinquefasciatus	29	Ontario	9/12/2011	WNV	RTPCR
San Bernardino	WVAL2011	809	Cx. quinquefasciatus	46	Chino	9/13/2011	WNV	RTPCR
San Bernardino	WVAL2011	810	Cx. quinquefasciatus	50	Chino	9/13/2011	WNV	RTPCR
San Bernardino	WVAL2011	811	Cx. quinquefasciatus	50	Chino	9/13/2011	WNV	RTPCR
San Bernardino	WVAL2018	793	Cx. quinquefasciatus	50	Chino	9/13/2011	WNV	RTPCR
San Bernardino	WVAL2018	794	Cx. quinquefasciatus	38	Chino	9/13/2011	WNV	RTPCR
San Bernardino	WVAL2020	807	Cx. stigmatosoma	23	Fwy CA 71	9/13/2011	WNV	RTPCR
San Bernardino	WVAL5009	773	Cx. quinquefasciatus	38	Rancho Cucamonga	9/12/2011	WNV	RTPCR
San Bernardino	WVAL6003	818	Cx. quinquefasciatus	47	Ontario	9/19/2011	WNV	RTPCR
San Bernardino	WVAL6012	765	Cx. quinquefasciatus	32	Ontario	9/12/2011	WNV	RTPCR
San Bernardino	WVAL6012	812	Cx. quinquefasciatus	33	Ontario	9/19/2011	WNV	RTPCR
San Bernardino	WVAL6012	813	Cx. quinquefasciatus	50	Ontario	9/19/2011	WNV	RTPCR
San Bernardino	WVAL7002	808	Cx. stigmatosoma	16	Montclair	9/13/2011	WNV	RTPCR
San Bernardino	WVAL7002	815	Cx. quinquefasciatus	22	Montclair	9/19/2011	WNV	RTPCR
San Joaquin	SJCM8100	987	Cx. tarsalis	19	Tracy	9/20/2011	WNV	RTPCR
San Joaquin	SJCM8100	988	Cx. pipiens	35	Tracy	9/20/2011	WNV	RTPCR
San Joaquin	SJCM8161	997	Cx. pipiens	50	Ripon	9/20/2011	WNV	RTPCR
Stanislaus	EAST1071	11164	Cx. pipiens	50	Modesto	9/21/2011	WNV	RAMP
Stanislaus	TRLK0305	770	Cx. pipiens	37	Grayson	9/13/2011	WNV	RTPCR
Stanislaus	TRLK0407	827	Cx. pipiens	50	Turlock	9/20/2011	WNV	RTPCR
Stanislaus	TRLK0407	829	Cx. pipiens	50	Turlock	9/20/2011	WNV	RTPCR
Stanislaus	TRLK0420	790	Cx. pipiens	50	Turlock	9/16/2011	WNV	RTPCR
Stanislaus	TRLK0420	791	Cx. pipiens	48	Turlock	9/16/2011	WNV	RTPCR
Stanislaus	TRLK0421	792	Cx. pipiens	17	Hughson	9/16/2011	WNV	RTPCR
Stanislaus	TRLK0421	805	Cx. pipiens	50	Hughson	9/20/2011	WNV	RTPCR
Stanislaus	TRLK0516	846	Cx. pipiens	50	Denair	9/20/2011	WNV	RTPCR
Stanislaus	TRLK0538	815	Cx. pipiens	50	hughson	9/20/2011	WNV	RTPCR
Stanislaus	TRLK0613	807	Cx. tarsalis	33	Hickman	9/20/2011	WNV	RTPCR
Stanislaus	TRLK0711	786	Cx. pipiens	28	Hughson	9/16/2011	WNV	RTPCR
Sutter	SUYA0031	302	Cx. tarsalis	30	Rio Oso	9/20/2011	WNV	RTPCR
Tulare	DLTA6407	370	Cx. quinquefasciatus	38	Dinuba	9/15/2011	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Butte	BUCO0002	Oroville	9/13/2011	WNV	1112	1116	1118		
Butte	BUCO0004	Gridley	9/13/2011	WNV	1134				
Glenn	GLEN9701	Willows	9/14/2011	WNV	1495	1497	1500		
Kern	KERN0101	Lost Hills	9/12/2011	WNV	1581	1588	1589		
Kern	KERN0102	Buttonwillow	9/12/2011	WNV	1591	1594	1595		
Kern	KERN0107	Arvin	9/12/2011	WNV	1658	1660	1696		
Kern	KERN0112	Wasco	9/12/2011	WNV	1603	1608	1609	1688	1690
Kern	KERN0113	Bakersfield	9/12/2011	WNV	1709				
Kern	KERN0115	Bakersfield	9/12/2011	WNV	1683	1684	1685	1687	
Kern	KERN0117	Bakersfield	9/12/2011	WNV	1672	1693			
Los Angeles	ANTV2667	Palmdale	9/15/2011	WNV	1058				
Los Angeles	LACW1026	Beverly Hills	9/14/2011	WNV	1877				
Placer	PLCR0017	Sheridan	9/12/2011	WNV	2126				
Placer	PLCR0095	Lincoln	9/12/2011	WNV	2153				
Riverside	COAV0122	Mecca	9/15/2011	WNV	1302				
Riverside	NWST9227		9/7/2011	WNV	2108				
Riverside	NWST9401	Corona	9/9/2011	WNV	2110	2111			

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Sacramento	SAYO233001	Elk Grove	9/12/2011	WNV	2357				
Sacramento	SAYO245019	Wilton	9/12/2011	WNV	2381				
Solano	SOLA0125	Cordelia	9/19/2011	WNV	3030				
Stanislaus	EAST1947	Modesto	9/14/2011	WNV	1477	1480			
Stanislaus	EAST1959	Oakdale	9/14/2011	WNV	1484	1486	1488		
Sutter	SUYA0014	Sutter	9/15/2011	WNV	3100	3102			
Sutter	SUYA0015	Robbins	9/15/2011	WNV	3083				
Tulare	DLNO0021	Earlimart	9/15/2011	WNV	1444	1445			
Yuba	SUYA0007	Marysville	9/15/2011	WNV	3065				

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.