

California Arbovirus Surveillance Bulletin #29

Week 35 Friday, September 2, 2011



WEEKLY UPDATE

Human Cases

Nine new human cases of West Nile virus (WNV) were reported this week from Butte (1), Fresno (1), Los Angeles (2), Orange (1), and Stanislaus (4) counties; this is the first detection of WNV activity in Butte County in 2011. To date this year, 27 WNV cases have been reported from 10 counties; of the 27 cases, 18 (67%) developed neuroinvasive disease. The median age for all cases is 55 years (range: 19-79 years) and 19 (70%) are male. No fatalities have been reported. Additionally, 4 WNV-positive blood donors have been reported this year; 3 of the individuals subsequently developed symptoms and were reclassified as cases.

At this time last year, 35 WNV cases had been reported from 11 counties.

National Activity: As of August 30, 2011, 104 human cases of WNV had been reported nationwide in 21 states: Arizona (16), California (19), Colorado (2), Florida (9), Georgia (2), Illinois (4), Louisiana (4), Maryland (2), Michigan (1), Mississippi (18), Missouri (1), Nebraska (4), Nevada (2), New Jersey (1), New York (2), North Dakota (2), Ohio (3), South Dakota (1), Texas (9), Virginia (1), and Wyoming (1). Of the 104 cases, 65 (63%) developed neuroinvasive disease. Four WNV-related fatalities have been reported in Florida (1), Michigan (1), Mississippi (1), and Texas (1).

Horses

One new horse case of WNV was reported this week from Kern County; this is the 2nd WNV positive horse reported in 2011. At this time last year, 11 horse cases of WNV had been reported from 5 counties.

Dead Birds & Squirrels

Seventy-three WNV positive dead birds were reported this week from 14 counties: Contra Costa (1), El Dorado (1), Fresno (4), Kings (1), Los Angeles (29), Orange (2), Placer (1), Sacramento (22), San Bernardino (3), San Joaquin (3), Santa Clara (3), Stanislaus (1), Tulare (1), and Yolo (1). This is the first detection of WNV activity in El Dorado County and the first WNV positive dead bird reported from Yolo County in 2011. To date this year, 302 dead birds from 17 counties and one tree squirrel from one county have tested positive for WNV. An additional 79 birds have tested positive for chronic* WNV infection from 23 counties.

At this time last year, 285 birds from 24 counties, and 13 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 233 WNV positive mosquito pools were reported this week from the following 18 counties: Contra Costa (2), Fresno (5), Kern (56), Kings (12), Los Angeles (29), Merced (1), Orange (8), Placer (8), Riverside (4), Sacramento (62), San Bernardino (24), San Diego (1), San Joaquin (6), Santa Clara (4), Stanislaus (3), Sutter (6), Tulare (1), and Yolo (1). This is the first detection of WNV activity in San Diego County this year. In 2011, 1,261 mosquito pools from 21 counties have tested positive for WNV.

At this time last year, 1,032 mosquito pools from 23 counties had tested positive for WNV.

Sentinel Chickens

Twenty WNV seroconversions were reported this week from 9 flocks in the following 4 counties: Kern (2), Los Angeles (6), Riverside (5), and San Bernardino (7). These are the first WNV positive chickens reported from Riverside County in 2011. To date this year, 99 WNV positive chickens have been detected among 24 flocks in 8 counties.

At this time last year, 133 chickens (35 flocks) had tested positive for WNV from 15 counties.

Website Information: For updated information on WNV in California, please visit the California WNV website, www.westmile.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.westmilemaps.usgs.gov

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2010 & 2011 YTD West Nile Virus Comparisons		
	2010	2011
Total # Dead Bird Reports	8,476	6,971
# Positive Counties	31	26
# Human Cases	35	27
# Horse Cases	11	2
# Positive Dead Birds / # Tested	285 / 1,673	302 / 1,631
# Positive Mosquito Pools / # Tested	1,032 / 22,320	1,261 / 22,565
# Seroconversions / # Tested	133 / 18,516	99 / 14,910
# Positive Squirrels / # Tested	13 / 72	1 / 60

YTD WNV Activity by Element and County, 2011

County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Butte	1					
Contra Costa			5	3		
El Dorado			1			
Fresno	4		11	101		
Glenn					1	
Imperial				1		
Inyo				2		
Kern	1	1	3	238	51	
Kings			2	31		
Los Angeles	8	1	128	284	14	
Madera	1			4		
Merced				8		
Orange	1		14	61		
Placer			2	32		
Riverside			2	14	5	
Sacramento			58	241	1	1
San Bernardino			9	54	24	
San Diego				1		
San Joaquin	1		8	32		
Santa Barbara	1					
Santa Clara			15	9		
Stanislaus	7		8	46		
Sutter				21	1	
Tulare	2		34	76	2	
Ventura			1			
Yolo			1	2		
Totals	27	2	302	1,261	99	1

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TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	9	0	0	0	0	0
	YTD	27	0	0	0	0	0
Horse Cases	Week	1	0	0	0	0	0
	YTD	2	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	136	73
	YTD	1,631	302
Tree Squirrels	Week	3	0
	YTD	60	1

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	834	20	0	0
	YTD	14,910	99	0	0
Mosquito Pools: RT-PCR	Week	1,665	232	0	0
	YTD	22,438	1,256	0	0
Mosquito Pools: RAMP	Week	17	1	N/A	N/A
	YTD	127	5	N/A	N/A

NEW POSITIVES

Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
11-0019	08/26/11	Orange	57	M	WNND	WEEK 33	NO
11-0020	08/29/11	Fresno	59	M	WNND	08/17/11	NO
11-0021	09/01/11	Stanislaus	44	M	WNF	08/04/11	NO
11-0022	09/01/11	Stanislaus	63	M	WNND	08/15/11	NO
11-0023	09/01/11	Stanislaus	47	M	WNND	08/20/11	NO
11-0024	09/01/11	Stanislaus	34	M	WNF	08/18/11	NO
11-0025	09/02/11	Butte	<18	F	WNF	08/13/11	NO
11-0026	09/02/11	Los Angeles	51	M	WNND	08/17/11	NO
11-0027	09/02/11	Los Angeles	62	F	WNND	08/15/11	NO

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Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Alameda	Alameda Co MAD	Castro Valley	94546	House Finch	8/18/2011	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Walnut Creek	94596	Western Scrub-Jay	8/21/2011	WNV	Chronic	RT-PCR
Contra Costa	Contra Costa MVCD	Concord	94518	American Crow	8/23/2011	WNV	Recent	RAMP
El Dorado	El Dorado Co Env Mgmt	El Dorado	95623	Swallow	8/22/2011	WNV	Recent	RT-PCR
Fresno	Consolidated MAD	Fresno	93710	American Crow	8/9/2011	WNV	Recent	RT-PCR
Fresno	Consolidated MAD	Sanger	93657	Western Scrub-Jay	8/12/2011	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Fresno	93727	Western Scrub-Jay	8/17/2011	WNV	Recent	RT-PCR
Fresno	Fresno MVCD	Fresno	93722	American Crow	8/16/2011	WNV	Recent	RT-PCR
Kings	Kings MAD	Hanford	93230	Western Scrub-Jay	8/18/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Lakewood	90712	American Crow	8/11/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Whittier	90606	Common Raven	8/11/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Cerritos	90703	American Crow	8/15/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Cerritos	90703	House Finch	8/14/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Bellflower	90706	American Crow	8/15/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Hacienda Heights	91745	Oak Titmouse	8/11/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Diamond Bar	91765	American Crow	8/16/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Sherman Oaks	91423	American Crow	8/18/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Chatsworth	91311	American Crow	8/18/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Sun Valley	91352	American Crow	8/17/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Winnetka	91306	American Crow	8/22/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Venice	90291	Mallard	8/18/2011	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co Vet	North Hills	91343	Mourning Dove	8/17/2011	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co Vet	Los Angeles	90008	American Crow	8/17/2011	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co Vet	Van Nuys	91401	American Crow	8/17/2011	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co Vet	Canoga Park	91303	American Crow	8/10/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Whittier	90602	American Crow	8/17/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Van Nuys	91405	American Crow	8/17/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Pico Rivera	90660	American Crow	8/17/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	West Hills	91307	American Crow	8/17/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Sherman Oaks	91403	American Crow	8/17/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Studio City	91604	American Crow	8/17/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Van Nuys	91405	American Crow	8/17/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Van Nuys	91405	American Crow	8/12/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Northridge	91325	American Crow	8/18/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Glendora	91741	American Crow	8/16/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Chatsworth	91311	American Crow	8/11/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Vet	Van Nuy	91411	American Crow	8/17/2011	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Valley MVCD	San Gabriel	91775	American Crow	8/18/2011	WNV	Recent	RAMP
Los Angeles	San Gabriel Valley MVCD	West Covina	91792	American Crow	8/23/2011	WNV	Recent	RAMP
Los Angeles	San Gabriel Valley MVCD	San Gabriel	91776	American Crow	8/25/2011	WNV	Recent	RAMP
Los Angeles	San Gabriel Valley MVCD	Walnut	91789	American Crow	8/24/2011	WNV	Recent	RAMP
Merced	Merced Co MAD	Merced	95348	House Finch	8/23/2011	WNV	Chronic	RT-PCR
Orange	Orange Co VCD	Placentia	92870	American Crow	8/19/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Westminster	92683	Rock Dove	8/22/2011	WNV	Recent	RT-PCR
Placer	Placer MVCD	Rocklin	95765	Anna's Hummingbird	8/22/2011	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Penryn	95663	American Robin	8/18/2011	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Rocklin	95765	House Finch	8/17/2011	WNV	Chronic	RT-PCR
Placer	Placer MVCD	Auburn	95603	Western Scrub-Jay	8/22/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Clarksburg, CA	95620	European Starling	8/18/2011	WNV	Chronic	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	House Finch	8/18/2011	WNV	Chronic	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95842	House Sparrow	8/16/2011	WNV	Chronic	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	American Crow	8/19/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	8/20/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	American Robin	8/20/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	8/21/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	8/20/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	House Finch	8/24/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	American Crow	8/23/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Western Scrub-Jay	8/22/2011	WNV	Recent	RT-PCR

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Sacramento	Sacramento-Yolo MVCD	Rancho Murieta	95683	Western Scrub-Jay	8/22/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	House Finch	8/24/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	8/24/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Galt	95632	Northern Mockingbird	8/23/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Galt	95632	Northern Mockingbird	8/23/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	Western Scrub-Jay	8/23/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Galt	95632	Western Scrub-Jay	8/23/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	Sparrow	8/23/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	8/24/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	American Robin	8/21/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	House Finch	8/25/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	Western Scrub-Jay	8/26/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Robin	8/26/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	House Sparrow	8/22/2011	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Highland	92346	American Crow	8/17/2011	WNV	Recent	RT-PCR
San Bernardino	San Bernardino VCP	Redlands	92374	American Crow	8/17/2011	WNV	Recent	RT-PCR
San Bernardino	West Valley MVCD	Ontario	91761	American Crow	8/12/2011	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Tracy	95376	American Robin	8/16/2011	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95207	Western Scrub-Jay	8/18/2011	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95204	Western Scrub-Jay	8/24/2011	WNV	Recent	RT-PCR
San Luis Obispo	San Luis Obispo Animal Services	Cambria	93428	Other	8/18/2011	WNV	Chronic	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95136	American Crow	8/23/2011	WNV	Recent	VecTest
Santa Clara	Santa Clara Co VCD	San Jose	95148	American Crow	8/26/2011	WNV	Recent	VecTest
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	8/26/2011	WNV	Recent	VecTest
Stanislaus	Turlock MAD	Turlock	95380	Western Scrub-Jay	8/17/2011	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93291	Western Scrub-Jay	8/22/2011	WNV	Recent	RT-PCR
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	8/17/2011	WNV	Chronic	RT-PCR
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	8/17/2011	WNV	Recent	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	8/25/2011	WNV	Recent	RT-PCR

Mosquitoes

County	Site Code	Pool #	Species	# in Pool	City	Collected	Virus	Method
Contra Costa	CNTR3966	268	Cx. pipiens	50	Brentwood	8/31/2011	WNV	RAMP
Contra Costa	CNTR8152	251	Cx. tarsalis	16	Knightsen	8/29/2011	WNV	RTPCR
Fresno	CNSL0201	717	Cx. quinquefasciatus	29	Sanger	8/24/2011	WNV	RTPCR
Fresno	CNSL2247	716	Cx. quinquefasciatus	39	Sanger	8/24/2011	WNV	RTPCR
Fresno	CNSL2247	720	Cx. tarsalis	23	Sanger	8/24/2011	WNV	RTPCR
Fresno	CNSL3028	431	Cx. tarsalis	32	Orange Cove	8/30/2011	WNV	RTPCR
Fresno	CNSL3249	432	Cx. quinquefasciatus	11	Reedley	8/30/2011	WNV	RTPCR
Kern	KERN0115	1790	Cx. tarsalis	50	Bakersfield	8/23/2011	WNV	RTPCR
Kern	KERN0115	1791	Cx. tarsalis	50	Bakersfield	8/23/2011	WNV	RTPCR
Kern	KERN0115	1792	Cx. tarsalis	50	Bakersfield	8/23/2011	WNV	RTPCR
Kern	KERN0115	1793	Cx. tarsalis	17	Bakersfield	8/23/2011	WNV	RTPCR
Kern	KERN0115	1794	Cx. quinquefasciatus	50	Bakersfield	8/23/2011	WNV	RTPCR
Kern	KERN0117	1821	Cx. quinquefasciatus	50	Bakersfield	8/23/2011	WNV	RTPCR
Kern	KERN0121	1920	Cx. quinquefasciatus	50	Bakersfield	8/26/2011	WNV	RTPCR
Kern	KERN0121	1922	Cx. quinquefasciatus	50	Bakersfield	8/26/2011	WNV	RTPCR
Kern	KERN0156	1827	Cx. quinquefasciatus	20	Buttonwillow	8/23/2011	WNV	RTPCR
Kern	KERN2002	1913	Cx. quinquefasciatus	17	Bakersfield	8/26/2011	WNV	RTPCR
Kern	KERN2003	1903	Cx. quinquefasciatus	14	Bakersfield	8/26/2011	WNV	RTPCR
Kern	KERN2007	1918	Cx. quinquefasciatus	50	Bakersfield	8/26/2011	WNV	RTPCR
Kern	KERN2010	1915	Cx. quinquefasciatus	50	Bakersfield	8/26/2011	WNV	RTPCR
Kern	KERN2010	1916	Cx. quinquefasciatus	8	Bakersfield	8/26/2011	WNV	RTPCR
Kern	KERN2011	1858	Cx. quinquefasciatus	50	Bakersfield	8/24/2011	WNV	RTPCR
Kern	KERN2014	1911	Cx. quinquefasciatus	50	Bakersfield	8/26/2011	WNV	RTPCR
Kern	KERN2016	1861	Cx. quinquefasciatus	50	Bakersfield	8/25/2011	WNV	RTPCR
Kern	KERN2018	1863	Cx. quinquefasciatus	50	Bakersfield	8/25/2011	WNV	RTPCR
Kern	KERN2018	1864	Cx. quinquefasciatus	50	Bakersfield	8/25/2011	WNV	RTPCR
Kern	KERN2018	1865	Cx. quinquefasciatus	50	Bakersfield	8/25/2011	WNV	RTPCR
Kern	KERN2020	1909	Cx. quinquefasciatus	50	Bakersfield	8/26/2011	WNV	RTPCR
Kern	KERN2021	1874	Cx. quinquefasciatus	50	Wasco	8/25/2011	WNV	RTPCR
Kern	KERN2021	1875	Cx. quinquefasciatus	50	Wasco	8/25/2011	WNV	RTPCR

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Kern	KERN2022	1876	Cx. quinquefasciatus	50	Shafter	8/25/2011	WNV	RTPCR
Kern	KERN2022	1877	Cx. quinquefasciatus	50	Shafter	8/25/2011	WNV	RTPCR
Kern	KERN2022	1878	Cx. quinquefasciatus	50	Shafter	8/25/2011	WNV	RTPCR
Kern	KERN2022	1879	Cx. quinquefasciatus	40	Shafter	8/25/2011	WNV	RTPCR
Kern	KERN2027	1917	Cx. quinquefasciatus	50	Bakersfield	8/26/2011	WNV	RTPCR
Kern	KERN2028	1925	Cx. quinquefasciatus	31	Bakersfield	8/26/2011	WNV	RTPCR
Kern	KERN2040	1867	Cx. quinquefasciatus	50	Arvin	8/25/2011	WNV	RTPCR
Kern	KERN2042	1872	Cx. quinquefasciatus	50	Lamont	8/25/2011	WNV	RTPCR
Kern	KERN2042	1873	Cx. quinquefasciatus	40	Lamont	8/25/2011	WNV	RTPCR
Kern	KERN2049	1870	Cx. quinquefasciatus	50	Lamont	8/25/2011	WNV	RTPCR
Kern	KERN2051	1855	Cx. quinquefasciatus	50	Bakersfield	8/24/2011	WNV	RTPCR
Kern	KERN0029	1845	Cx. tarsalis	47	Lamont	8/24/2011	WNV	RTPCR
Kern	KERN0029	1846	Cx. quinquefasciatus	45	Lamont	8/24/2011	WNV	RTPCR
Kern	KERN3014	1797	Cx. tarsalis	21	Bakersfield	8/23/2011	WNV	RTPCR
Kern	KERN3014	1798	Cx. quinquefasciatus	28	Bakersfield	8/23/2011	WNV	RTPCR
Kern	KERN3015	1929	Cx. quinquefasciatus	19	Bakersfield	8/26/2011	WNV	RTPCR
Kern	KERN3026	1880	Cx. tarsalis	50	Arvin93203	8/25/2011	WNV	RTPCR
Kern	KERN3027	1806	Cx. tarsalis	50	Arvin	8/23/2011	WNV	RTPCR
Kern	KERN3027	1807	Cx. tarsalis	37	Arvin	8/23/2011	WNV	RTPCR
Kern	KERN3030	1890	Cx. tarsalis	12	Shafter	8/25/2011	WNV	RTPCR
Kern	KERN3032	1822	Cx. quinquefasciatus	25		8/23/2011	WNV	RTPCR
Kern	KERN3035	1927	Cx. quinquefasciatus	43	Bakersfield	8/26/2011	WNV	RTPCR
Kern	KERN3041	1786	Cx. tarsalis	50	Bakersfield	8/23/2011	WNV	RTPCR
Kern	KERN3041	1788	Cx. quinquefasciatus	50	Bakersfield	8/23/2011	WNV	RTPCR
Kern	KERN3041	1789	Cx. quinquefasciatus	41	Bakersfield	8/23/2011	WNV	RTPCR
Kern	KERN0031	1896	Cx. tarsalis	50	Arvin	8/25/2011	WNV	RTPCR
Kern	KERN0033	1887	Cx. tarsalis	50	Arvin	8/25/2011	WNV	RTPCR
Kern	KERN0033	1888	Cx. quinquefasciatus	50	Arvin	8/25/2011	WNV	RTPCR
Kern	KERN0043	1894	Cx. quinquefasciatus	50	Shafter	8/25/2011	WNV	RTPCR
Kern	KERN0043	1895	Cx. quinquefasciatus	30	Shafter	8/25/2011	WNV	RTPCR
Kern	KERN0045	1839	Cx. tarsalis	35	Buttonwillow	8/24/2011	WNV	RTPCR
Kern	KERN0060	1823	Cx. tarsalis	27	Bakersfield	8/23/2011	WNV	RTPCR
Kern	KERN0083	1898	Cx. tarsalis	50	Arvin	8/25/2011	WNV	RTPCR
Kings	KNGS2007	554	Cx. pipiens	50	Lemoore	8/23/2011	WNV	RTPCR
Kings	KNGS3022	581	Cx. pipiens	33	Hanford	8/23/2011	WNV	RTPCR
Kings	KNGS3025	569	Cx. pipiens	42	Goshen	8/23/2011	WNV	RTPCR
Kings	KNGS3039	562	Cx. tarsalis	49	Lemoore	8/23/2011	WNV	RTPCR
Kings	KNGS3050	552	Cx. tarsalis	48	Lemoore	8/23/2011	WNV	RTPCR
Kings	KNGS3061	573	Cx. pipiens	15	Guernsey	8/23/2011	WNV	RTPCR
Kings	KNGS3074	557	Cx. tarsalis	50	Armona	8/23/2011	WNV	RTPCR
Kings	KNGS4003	588	Cx. pipiens	50	Hanford	8/23/2011	WNV	RTPCR
Kings	KNGS4003	592	Cx. pipiens	50	Hanford	8/23/2011	WNV	RTPCR
Kings	KNGS4003	593	Cx. tarsalis	29	Hanford	8/23/2011	WNV	RTPCR
Kings	KNGS4006	543	Cx. pipiens	18	Hanford	8/22/2011	WNV	RTPCR
Kings	KNGS4006	601	Cx. pipiens	50	Hanford	8/29/2011	WNV	RTPCR
Los Angeles	GRLA2100	1305	Cx. quinquefasciatus	50	Norwalk	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2100	1306	Cx. quinquefasciatus	29	Norwalk	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2196	1311	Cx. quinquefasciatus	36	South El Monte	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2221	1312	Cx. quinquefasciatus	38	Rowland Heights	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2228	1313	Cx. quinquefasciatus	40	Diamond Bar	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2228	1314	Cx. stigmatosoma	9	Diamond Bar	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2247	1315	Cx. quinquefasciatus	24	Pico Rivera	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2247	1316	Cx. quinquefasciatus	50	Pico Rivera	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2247	1317	Cx. quinquefasciatus	50	Pico Rivera	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2247	1318	Cx. quinquefasciatus	50	Pico Rivera	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2247	1319	Cx. quinquefasciatus	50	Pico Rivera	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2247	1320	Cx. quinquefasciatus	50	Pico Rivera	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2247	1321	Cx. quinquefasciatus	50	Pico Rivera	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2247	1324	Cx. quinquefasciatus	46	Pico Rivera	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2268	1326	Cx. quinquefasciatus	50	Cerritos	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2414	6181	Cx. quinquefasciatus	35	Granada Hills	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2416	6187	Cx. quinquefasciatus	37	Panorama City	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2554	6182	Cx. quinquefasciatus	50	Winnetka	8/25/2011	WNV	RTPCR

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Los Angeles	GRLA2554	6183	Cx. quinquefasciatus	50	Winnetka	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2583	6179	Cx. quinquefasciatus	48	Studio City	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2614	6211	Cx. quinquefasciatus	23	Newhall	8/26/2011	WNV	RTPCR
Los Angeles	GRLA2655	6180	Cx. quinquefasciatus	50	Encino	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2655	6186	Cx. quinquefasciatus	50	Encino	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2955	1307	Cx. quinquefasciatus	43	Cerritos	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2955	1308	Cx. quinquefasciatus	12	Cerritos	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2962	6185	Cx. quinquefasciatus	30	Chatsworth	8/25/2011	WNV	RTPCR
Los Angeles	GRLA2995	6184	Cx. quinquefasciatus	40	Woodland Hills	8/25/2011	WNV	RTPCR
Los Angeles	GRLA3118	6208	Cx. quinquefasciatus	50	Newhall	8/26/2011	WNV	RTPCR
Los Angeles	GRLA3119	6188	Cx. quinquefasciatus	16	Canyon Country	8/25/2011	WNV	RTPCR
Merced	MERC0506	78	Cx. pipiens	37	Livingston	8/31/2011	WNV	RTPCR
Orange	ORCO0170	926	Cx. quinquefasciatus	26	Anaheim	8/23/2011	WNV	RTPCR
Orange	ORCO0198	923	Cx. quinquefasciatus	50	La Habra	8/23/2011	WNV	RTPCR
Orange	ORCO0198	932	Cx. quinquefasciatus	50	La Habra	8/23/2011	WNV	RTPCR
Orange	ORCO0198	933	Cx. quinquefasciatus	37	La Habra	8/23/2011	WNV	RTPCR
Orange	ORCO0002	920	Cx. quinquefasciatus	50	Fullerton	8/23/2011	WNV	RTPCR
Orange	ORCO0025	968	Cx. quinquefasciatus	37	Cypress	8/25/2011	WNV	RTPCR
Orange	ORCO0070	922	Cx. quinquefasciatus	16	Anaheim	8/23/2011	WNV	RTPCR
Orange	ORCO0080	924	Cx. tarsalis	11	San Clemente	8/23/2011	WNV	RTPCR
Placer	PLCR1003	1180	Cx. tarsalis	36	Lincoln	8/25/2011	WNV	RTPCR
Placer	PLCR1113	1196	Cx. tarsalis	50	Pleasant Grove	8/25/2011	WNV	RTPCR
Placer	PLCR1113	1199	Cx. tarsalis	50	Pleasant Grove	8/25/2011	WNV	RTPCR
Placer	PLCR1113	1202	Cx. tarsalis	50	Pleasant Grove	8/25/2011	WNV	RTPCR
Placer	PLCR1113	1294	Cx. tarsalis	50	Pleasant Grove	8/30/2011	WNV	RTPCR
Placer	PLCR1114	1183	Cx. tarsalis	42	Lincoln	8/25/2011	WNV	RTPCR
Placer	PLCR0017	1185	Cx. tarsalis	32	Sheridan	8/25/2011	WNV	RTPCR
Placer	PLCR0088	1311	Cx. tarsalis	5	Lincoln	8/31/2011	WNV	RTPCR
Riverside	RIVR0002	590	Cx. tarsalis	50	Nuevo	8/30/2011	WNV	RTPCR
Riverside	RIVR0031	578	Cx. tarsalis	50	Nuevo	8/30/2011	WNV	RTPCR
Riverside	RIVR0032	593	Cx. tarsalis	50	Nuevo	8/30/2011	WNV	RTPCR
Riverside	RIVR0032	595	Cx. tarsalis	50	Nuevo	8/30/2011	WNV	RTPCR
Sacramento	SAYO203012	4619	Cx. pipiens	32	Antelope	8/31/2011	WNV	RTPCR
Sacramento	SAYO213007	4620	Cx. tarsalis	17	Sacramento	8/31/2011	WNV	RTPCR
Sacramento	SAYO226001	4640	Cx. tarsalis	11	Sloughhouse	8/31/2011	WNV	RTPCR
Sacramento	SAYO232012	4386	Cx. pipiens	9	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO232012	4388	Cx. erythrothorax	1	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO232015	4727	Cx. tarsalis	4	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO232017	4316	Cx. pipiens	18	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO232017	4317	Cx. pipiens	3	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO232022	4391	Cx. pipiens	24	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233001	4349	Cx. pipiens	9	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233003	4326	Cx. pipiens	4	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233003	4788	Cx. tarsalis	51	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233004	4321	Cx. tarsalis	23	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233004	4322	Cx. pipiens	18	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233004	4764	Cx. pipiens	10	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233006	4328	Cx. tarsalis	3	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233006	4329	Cx. pipiens	4	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233006	4330	Cx. pipiens	7	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233008	4748	Cx. pipiens	23	Sacramento	9/1/2011	WNV	RTPCR
Sacramento	SAYO233009	4344	Cx. tarsalis	28	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233009	4345	Cx. pipiens	47	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233009	4346	Cx. pipiens	21	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233009	4775	Cx. tarsalis	50	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233009	4777	Cx. pipiens	50	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233012	4318	Cx. tarsalis	3	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233018	4360	Cx. tarsalis	6	Sacramento	8/26/2011	WNV	RTPCR
Sacramento	SAYO233018	4737	Cx. pipiens	35	Sacramento	9/1/2011	WNV	RTPCR
Sacramento	SAYO233019	4375	Cx. pipiens	2	Florin	8/26/2011	WNV	RTPCR
Sacramento	SAYO233019	4732	Cx. tarsalis	14	Florin	9/1/2011	WNV	RTPCR
Sacramento	SAYO233019	4733	Cx. pipiens	13	Florin	9/1/2011	WNV	RTPCR
Sacramento	SAYO233019	4734	Cx. pipiens	11	Florin	9/1/2011	WNV	RTPCR

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Sacramento	SAYO233021	4381	Cx. tarsalis	50	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233021	4382	Cx. tarsalis	21	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233021	4383	Cx. pipiens	32	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233025	4338	Cx. pipiens	14	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233025	4719	Cx. pipiens	5	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233033	4723	Cx. tarsalis	36	Sacramento	9/1/2011	WNV	RTPCR
Sacramento	SAYO233034	4372	Cx. pipiens	13	Sacramento	8/26/2011	WNV	RTPCR
Sacramento	SAYO233038	4379	Cx. pipiens	1	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233038	4738	Cx. tarsalis	1	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233038	4740	Cx. pipiens	6	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233039	4792	Cx. tarsalis	6	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233039	4793	Cx. pipiens	6	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233041	4772	Cx. tarsalis	4	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233043	4744	Cx. tarsalis	37	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233044	4334	Cx. tarsalis	4	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233060	4357	Cx. tarsalis	17	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233060	4358	Cx. pipiens	10	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233060	4720	Cx. tarsalis	17	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233060	4722	Cx. pipiens	16	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233064	4769	Cx. pipiens	50	Sacramento	9/1/2011	WNV	RTPCR
Sacramento	SAYO233066	4678	Cx. pipiens	12	Sacramento	8/31/2011	WNV	RTPCR
Sacramento	SAYO233067	4367	Cx. pipiens	21	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233068	4331	Cx. tarsalis	32	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233068	4332	Cx. pipiens	6	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO233068	4759	Cx. tarsalis	50	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233068	4760	Cx. tarsalis	49	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233068	4761	Cx. pipiens	18	Elk Grove	9/1/2011	WNV	RTPCR
Sacramento	SAYO233069	4369	Cx. pipiens	10	Elk Grove	8/26/2011	WNV	RTPCR
Sacramento	SAYO235012	4415	Cx. tarsalis	50	Wilton	8/26/2011	WNV	RTPCR
Sacramento	SAYO235012	4419	Cx. pipiens	16	Wilton	8/26/2011	WNV	RTPCR
Sacramento	SAYO243025	4489	Cx. pipiens	24	Elk Grove	8/30/2011	WNV	RTPCR
San Bernardino	WVAL1007	580	Cx. quinquefasciatus	50	Ontario	8/22/2011	WNV	RTPCR
San Bernardino	WVAL2005	663	Cx. tarsalis	50	Chino	8/30/2011	WNV	RTPCR
San Bernardino	WVAL2005	664	Cx. tarsalis	15	Chino	8/30/2011	WNV	RTPCR
San Bernardino	WVAL2018	608	Cx. quinquefasciatus	50	Chino	8/23/2011	WNV	RTPCR
San Bernardino	WVAL2018	610	Cx. quinquefasciatus	50	Chino	8/23/2011	WNV	RTPCR
San Bernardino	WVAL2020	661	Cx. quinquefasciatus	6	Fwy CA 71	8/30/2011	WNV	RTPCR
San Bernardino	WVAL2022	607	Cx. quinquefasciatus	50	Fwy CA 60	8/23/2011	WNV	RTPCR
San Bernardino	WVAL5005	642	Cx. quinquefasciatus	40	Rancho Cucamonga	8/29/2011	WNV	RTPCR
San Bernardino	WVAL6003	556	Cx. quinquefasciatus	51	Ontario	8/22/2011	WNV	RTPCR
San Bernardino	WVAL6003	558	Cx. quinquefasciatus	51	Ontario	8/22/2011	WNV	RTPCR
San Bernardino	WVAL6003	646	Cx. quinquefasciatus	50	Ontario	8/29/2011	WNV	RTPCR
San Bernardino	WVAL6005	602	Cx. quinquefasciatus	54	Ontario	8/22/2011	WNV	RTPCR
San Bernardino	WVAL6005	604	Cx. quinquefasciatus	54	Ontario	8/22/2011	WNV	RTPCR
San Bernardino	WVAL6005	651	Cx. quinquefasciatus	50	Ontario	8/29/2011	WNV	RTPCR
San Bernardino	WVAL6005	652	Cx. quinquefasciatus	43	Ontario	8/29/2011	WNV	RTPCR
San Bernardino	WVAL6005	653	Cx. quinquefasciatus	50	Ontario	8/29/2011	WNV	RTPCR
San Bernardino	WVAL6011	654	Cx. quinquefasciatus	16	Ontario	8/29/2011	WNV	RTPCR
San Bernardino	WVAL6012	567	Cx. quinquefasciatus	50	Ontario	8/22/2011	WNV	RTPCR
San Bernardino	WVAL6012	568	Cx. quinquefasciatus	18	Ontario	8/22/2011	WNV	RTPCR
San Bernardino	WVAL6012	637	Cx. quinquefasciatus	50	Ontario	8/29/2011	WNV	RTPCR
San Bernardino	WVAL6012	638	Cx. quinquefasciatus	50	Ontario	8/29/2011	WNV	RTPCR
San Bernardino	WVAL6012	639	Cx. quinquefasciatus	47	Ontario	8/29/2011	WNV	RTPCR
San Bernardino	WVAL6014	650	Cx. quinquefasciatus	17	Fwy CA 60	8/29/2011	WNV	RTPCR
San Bernardino	WVAL7002	634	Cx. quinquefasciatus	47	Montclair	8/29/2011	WNV	RTPCR
San Diego	SAND0392	91	Cx. tarsalis	11		8/23/2011	WNV	RTPCR
San Joaquin	SJCM8084	698	Cx. tarsalis	2	Stockton	8/30/2011	WNV	RTPCR
San Joaquin	SJCM8125	676	Cx. tarsalis	14	Stockton	8/30/2011	WNV	RTPCR
San Joaquin	SJCM8161	684	Cx. pipiens	50	Ripon	8/30/2011	WNV	RTPCR
San Joaquin	SJCM8161	685	Cx. pipiens	50	Ripon	8/30/2011	WNV	RTPCR
San Joaquin	SJCM8161	686	Cx. pipiens	12	Ripon	8/30/2011	WNV	RTPCR
San Joaquin	SJCM8185	643	Cx. pipiens	25	Manteca	8/25/2011	WNV	RTPCR

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Santa Clara	STCL1772	3989	Cx. tarsalis	8	San Jose	8/30/2011	WNV	RTPCR
Santa Clara	STCL1772	4001	Cx. pipiens	7	San Jose	9/1/2011	WNV	RTPCR
Santa Clara	STCL1772	4002	Cx. tarsalis	9	San Jose	9/1/2011	WNV	RTPCR
Santa Clara	STCL2816	3986	Cx. pipiens	18	San Jose	8/30/2011	WNV	RTPCR
Stanislaus	TRLK0318	577	Cx. pipiens	21	Newman	8/30/2011	WNV	RTPCR
Stanislaus	TRLK0705	624	Cx. pipiens	37	Turlock	8/31/2011	WNV	RTPCR
Stanislaus	TRLK9769	595	Cx. pipiens	50	Grayson	8/30/2011	WNV	RTPCR
Sutter	SUYA0014	253	Cx. tarsalis	37	Sutter	8/30/2011	WNV	RTPCR
Sutter	SUYA0016	241	Cx. tarsalis	18	Trowbridge	8/29/2011	WNV	RTPCR
Sutter	SUYA0022	243	Cx. tarsalis	34	Tudor	8/29/2011	WNV	RTPCR
Sutter	SUYA0022	244	Cx. pipiens	15	Tudor	8/29/2011	WNV	RTPCR
Sutter	SUYA0031	235	Cx. tarsalis	50	Rio Oso	8/29/2011	WNV	RTPCR
Sutter	SUYA0031	250	Cx. tarsalis	30	Rio Oso	8/30/2011	WNV	RTPCR
Tulare	KNGS3017	570	Cx. pipiens	16	Waukena	8/23/2011	WNV	RTPCR
Yolo	SAYO136009	4665	Cx. tarsalis	50	Woodland	8/31/2011	WNV	RTPCR

Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Kern	WEST6203	Hwy 119 and Hwy 43	8/23/2011	WNV	3253	3255			
Los Angeles	GRLA2223	Rowland Heights	8/22/2011	WNV	1522				
Los Angeles	GRLA2651	Encino	8/22/2011	WNV	1563	1565	1567	1568	1569
Riverside	COAV0201	Thermal	8/22/2011	WNV	1231	1237	1239		
Riverside	NWST0004	Flabob Airport	8/8/2011	WNV	2118				
Riverside	NWST9401	Corona	8/8/2011	WNV	2112				
San Bernardino	SANB0003	Colton	8/22/2011	WNV	2524	2528	2529	2530	2531
San Bernardino	SANB0004	San Bernardino	8/22/2011	WNV	2545				
San Bernardino	SANB0011	Rialto	8/22/2011	WNV	2600				

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.

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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.