

California Arbovirus Surveillance Bulletin #26

Week 32 Friday, August 12, 2011



WEEKLY UPDATE

Human Cases

Three new human cases of West Nile virus (WNV) were reported this week from Los Angeles (2), and Madera (1) counties. To date this year, 10 WNV cases have been reported from 6 counties. Of the 10 cases, 8 (80%) developed neuroinvasive disease. The median age for all cases is 57 years (range: 35-71 years) and 7 (70%) are male. No fatalities have been reported.

At this time last year, 16 WNV cases had been reported from 7 counties.

National Activity: As of August 9, 2011, 41 human cases of WNV had been reported nationwide in 13 states: Arizona (4), California (8), Colorado (1), Florida (7), Georgia (1), Louisiana (2), Mississippi (11), New Jersey (1), North Dakota (1), South Dakota (1), Texas (2), Virginia (1), and Wyoming (1). Of the 41 cases, 24 (59%) developed neuroinvasive disease. One WNV-related fatality has been reported in Texas.

Horses

A WNV positive horse was reported this week from Los Angeles County; this is the first horse case of WNV reported in California in 2011. The horse developed symptoms on August 7, and is currently recovering. At this time last year, 4 horse cases of WNV had been reported from 3 counties.

Dead Birds & Squirrels

Forty-one WNV positive dead birds were reported this week from 8 counties: Los Angeles (13), Orange (8), Placer (1), Sacramento (5), San Joaquin (2), Santa Clara (1), Stanislaus (2), and Tulare (9). This is the first positive dead bird in Placer County. To date this year, 152 dead birds from 13 counties and one tree squirrel from one county have tested positive for WNV. An additional 10 birds have tested positive for chronic* WNV infection from 8 counties.

At this time last year, 219 birds from 21 counties, and 11 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 217 WNV positive mosquito pools were reported this week from 13 counties: Fresno (16), Kern (34), Kings (5), Los Angeles (65), Madera (1), Orange (25), Riverside (2), Sacramento (35), San Bernardino (8), San Joaquin (5), Stanislaus (13), Sutter (3), and Tulare (5). This is the first positive mosquito pool reported from Madera County this year. In 2011, 609 mosquito pools from 16 counties have tested positive for WNV.

At this time last year, 676 mosquito pools from 23 counties had tested positive for WNV.

Sentinel Chickens

Thirteen WNV seroconversions were reported this week from 6 flocks in 2 counties: Kern (12) and San Bernardino (1). To date this year, 47 WNV positive chickens have been detected among 13 flocks in 3 counties.

At this time last year, 51 chickens (15 flocks) had tested positive for WNV from 8 counties.

2010 & 2011 YTD West Nile Virus Comparisons		
	2010	2011
Total # Dead Bird Reports	7,495	5,735
# Positive Counties	28	19
# Human Cases	16	10
# Horse Cases	4	1
# Positive Dead Birds / # Tested	219 / 1,481	152 / 1,278
# Positive Mosquito Pools / # Tested	676 / 18,066	609 / 17,541
# Seroconversions / # Tested	51 / 15,754	47 / 12,363
# Positive Squirrels / # Tested	11 / 64	1 / 51

California Arbovirus Surveillance Bulletin #26

Week 32 Friday, August 12, 2011

YTD WNV Activity by Element and County, 2011

County	Humans	Horses	Dead Birds^	Mosquito Pools	Sentinel Chickens	Squirrels
Contra Costa			2			
Fresno	2		6	66		
Inyo				1		
Kern				101	30	
Kings			1	11		
Los Angeles	2	1	58	180	5	
Madera	1			1		
Orange			12	36		
Placer			1	5		
Riverside			1	3		
Sacramento			21	83		1
San Bernardino				11	12	
San Joaquin			3	13		
Santa Barbara	1					
Santa Clara			11	1		
Stanislaus	2		3	24		
Sutter				7		
Tulare	2		32	66		
Ventura			1			
Totals	10	1	152	609	47	1

TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	3	0	0	0	0	0
	YTD	10	0	0	0	0	0
Horse Cases	Week	1	0	0	0	0	0
	YTD	1	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	104	41
	YTD	1,278	152
Tree Squirrels	Week	0	0
	YTD	51	1

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	745	13	0	0
	YTD	12,363	47	0	0
Mosquito Pools: RT-PCR	Week	1,643	215	0	0
	YTD	17,469	606	0	0
Mosquito Pools: RAMP	Week	11	2	N/A	N/A
	YTD	72	3	N/A	N/A

California Arbovirus Surveillance Bulletin #26

Week 32 Friday, August 12, 2011

NEW POSITIVES

Humans

WNV Cases							
ID	Report Date	County	Age	Sex	Clin Pres	Onset Date	WNV Fatality?
11-0008	08/08/11	Madera	63	F	WNF	07/08/11	NO
11-0009	08/10/11	Los Angeles	51	M	WNND	07/24/11	NO
11-0010	08/10/11	Los Angeles	50	M	WNND	07/19/11	NO

Dead Birds

County	Agency	City	Zip	Species	Reported	Virus	Type of Infection	Method
Butte	Butte Co MVCD	Oroville	95966	Northern Mockingbird	7/25/2011	WNV	Chronic	RT-PCR
El Dorado	El Dorado Co Env Management	El Dorado Hills	95762	House Sparrow	7/24/2011	WNV	Chronic	RT-PCR
Los Angeles	Greater Los Angeles Co VCD - SFS	Bellflower	90706	American Crow	7/27/2011	WNV	Recent	RT-PCR
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	American Crow	7/27/2011	WNV	Recent	RT-PCR
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	American Crow	7/28/2011	WNV	Recent	RT-PCR
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	American Crow	7/29/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Calabasas	91302	American Crow	7/25/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Hacienda Heights	91745	American Crow	7/21/2011	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	La Puente	91746	American Crow	7/27/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	South El Monte	91733	American Crow	7/25/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	South El Monte	91733	American Crow	7/25/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Valley Village	91607	House Finch	7/26/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Van Nuys	91405	American Crow	7/23/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	West Hills	91304	American Crow	7/28/2011	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Valley MVCD	Covina	91723	American Crow	7/22/2011	WNV	Recent	RT-PCR
Los Angeles	San Gabriel Valley MVCD	West Covina	91790	American Crow	7/20/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Anaheim	92804	American Crow	7/21/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Buena Park	90620	American Crow	7/25/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Buena Park	90620	American Crow	7/27/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Buena Park	90621	American Crow	8/4/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Cypress	90630	American Crow	7/27/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Fullerton	92833	American Crow	7/27/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	Fullerton	92831	American Crow	8/3/2011	WNV	Recent	RT-PCR
Orange	Orange Co VCD	PLacentia	92870	American Crow	7/21/2011	WNV	Recent	RT-PCR
Placer	Placer MVCD	Rocklin	95765	House Finch	7/27/2011	WNV	Recent	RT-PCR
Riverside	Riverside Public Services	Riverside	92506	House Finch	7/28/2011	WNV	Chronic	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	House Finch	7/23/2011	WNV	Chronic	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	7/26/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	House Sparrow	7/23/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Folsom	95630	Western Scrub-Jay	7/22/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	7/29/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	8/1/2011	WNV	Recent	RT-PCR
San Bernardino	San Bernardino Co Animal Care and Control	Big Bear Lake	92315	American Robin	7/20/2011	WNV	Chronic	RT-PCR
San Bernardino	West Valley MVCD	Ontario	91710	House Finch	7/18/2011	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin Co MVCD	Escalon	95320	House Finch	7/26/2011	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin Co MVCD	Manteca	95337	House Sparrow	8/1/2011	WNV	Chronic	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95210	Western Scrub-Jay	7/22/2011	WNV	Recent	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95207	Western Scrub-Jay	7/22/2011	WNV	Recent	RT-PCR
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	7/27/2011	WNV	Recent	VecTest
Stanislaus	Turlock MAD	Modesto	95351	Yellow-billed Magpie	7/25/2011	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95355	Western Scrub-Jay	7/28/2011	WNV	Recent	RT-PCR
Stanislaus	East Side MAD	Modesto	95356	House Sparrow	7/26/2011	WNV	Chronic	RT-PCR
Tulare	Delta VCD	Exeter	93221	House Sparrow	7/22/2011	WNV	Recent	RT-PCR

California Arbovirus Surveillance Bulletin #26

Week 32 Friday, August 12, 2011

Tulare	Delta VCD	Exeter	93221	Canary	8/3/2011	WNV	Recent	RT-PCR
Tulare	Delta VCD	Exeter	93221	Canary	8/3/2011	WNV	Recent	RT-PCR
Tulare	Tulare MAD	Tulare	93274	American Crow	8/3/2011	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	Western Scrub-Jay	7/20/2011	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93291	Western Scrub-Jay	7/27/2011	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	7/30/2011	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93292	Western Scrub-Jay	8/1/2011	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	8/1/2011	WNV	Recent	RT-PCR

Mosquitoes

County	Site Code	Pool #	Species	# in Pool	City	Collected	Virus	Method
Fresno	CNSL1055	673	Cx. quinquefasciatus	42	Clovis	8/3/2011	WNV	RTPCR
Fresno	CNSL1058	675	Cx. tarsalis	50	Clovis	8/3/2011	WNV	RTPCR
Fresno	CNSL1118	683	Cx. quinquefasciatus	29	Fresno	8/9/2011	WNV	RTPCR
Fresno	CNSL1136	679	Cx. quinquefasciatus	50	Fresno	8/4/2011	WNV	RTPCR
Fresno	CNSL1164	678	Cx. quinquefasciatus	50	Fresno	8/4/2011	WNV	RTPCR
Fresno	CNSL1164	1002	Cx. quinquefasciatus	25	Fresno	8/4/2011	WNV	RAMP
Fresno	CNSL1184	676	Cx. quinquefasciatus	50	Fresno	8/4/2011	WNV	RTPCR
Fresno	CNSL1184	677	Cx. quinquefasciatus	50	Fresno	8/4/2011	WNV	RTPCR
Fresno	CNSL1249	674	Cx. quinquefasciatus	29	Clovis	8/3/2011	WNV	RTPCR
Fresno	CNSL3064	569	Cx. quinquefasciatus	46	Reedley	8/3/2011	WNV	RTPCR
Fresno	CNSL3108	582	Cx. quinquefasciatus	39	Orange Cove	8/5/2011	WNV	RTPCR
Fresno	CNSL3135	581	Cx. quinquefasciatus	50	Orange Cove	8/5/2011	WNV	RTPCR
Fresno	CNSL3270	572	Cx. quinquefasciatus	50	Reedley	8/3/2011	WNV	RTPCR
Fresno	CNSL5009	576	Cx. quinquefasciatus	50	Kingsburg	8/4/2011	WNV	RTPCR
Fresno	CNSL5094	579	Cx. quinquefasciatus	40	Kingsburg	8/5/2011	WNV	RTPCR
Fresno	CNSL5127	580	Cx. quinquefasciatus	50	Kingsburg	8/5/2011	WNV	RTPCR
Kern	KERN1002	1422	Cx. quinquefasciatus	50	Bakersfield	8/2/2011	WNV	RTPCR
Kern	KERN0115	1418	Cx. tarsalis	50	Bakersfield	8/2/2011	WNV	RTPCR
Kern	KERN0121	1525	Cx. quinquefasciatus	50	Bakersfield	8/5/2011	WNV	RTPCR
Kern	KERN0015	1496	Cx. quinquefasciatus	41	Pumpkin Center	8/4/2011	WNV	RTPCR
Kern	KERN0156	1445	Cx. quinquefasciatus	50	Butttonwillow	8/2/2011	WNV	RTPCR
Kern	KERN2002	1512	Cx. quinquefasciatus	50	Bakersfield	8/5/2011	WNV	RTPCR
Kern	KERN2002	1513	Cx. quinquefasciatus	50	Bakersfield	8/5/2011	WNV	RTPCR
Kern	KERN2002	1515	Cx. quinquefasciatus	44	Bakersfield	8/5/2011	WNV	RTPCR
Kern	KERN2007	1527	Cx. quinquefasciatus	50	Bakersfield	8/5/2011	WNV	RTPCR
Kern	KERN2010	1521	Cx. quinquefasciatus	50	Bakersfield	8/5/2011	WNV	RTPCR
Kern	KERN2018	1482	Cx. quinquefasciatus	50	Bakersfield	8/4/2011	WNV	RTPCR
Kern	KERN2018	1483	Cx. quinquefasciatus	30	Bakersfield	8/4/2011	WNV	RTPCR
Kern	KERN2020	1516	Cx. quinquefasciatus	50	Bakersfield	8/5/2011	WNV	RTPCR
Kern	KERN2021	1484	Cx. quinquefasciatus	50	Wasco	8/4/2011	WNV	RTPCR
Kern	KERN2024	1519	Cx. quinquefasciatus	50	Bakersfield	8/5/2011	WNV	RTPCR
Kern	KERN2025	1531	Cx. quinquefasciatus	50	Bakersfield	8/5/2011	WNV	RTPCR
Kern	KERN2027	1523	Cx. quinquefasciatus	22	Bakersfield	8/5/2011	WNV	RTPCR
Kern	KERN2028	1529	Cx. quinquefasciatus	50	Bakersfield	8/5/2011	WNV	RTPCR
Kern	KERN2031	1533	Cx. quinquefasciatus	18	Bakersfield	8/5/2011	WNV	RTPCR
Kern	KERN2039	1465	Cx. quinquefasciatus	23	Bakersfield	8/3/2011	WNV	RTPCR
Kern	KERN0028	1457	Cx. quinquefasciatus	50	Bakersfield	8/3/2011	WNV	RTPCR
Kern	KERN3004	1454	Cx. tarsalis	16	Bakersfield	8/3/2011	WNV	RTPCR
Kern	KERN3014	1415	Cx. tarsalis	14	Bakersfield	8/2/2011	WNV	RTPCR
Kern	KERN3017	1449	Cx. quinquefasciatus	27	Bakersfield	8/3/2011	WNV	RTPCR
Kern	KERN3032	1447	Cx. quinquefasciatus	15		8/2/2011	WNV	RTPCR
Kern	KERN3035	1535	Cx. quinquefasciatus	14	Bakersfield	8/5/2011	WNV	RTPCR
Kern	KERN0031	1497	Cx. tarsalis	50	Arvin	8/4/2011	WNV	RTPCR
Kern	KERN0031	1498	Cx. tarsalis	23	Arvin	8/4/2011	WNV	RTPCR
Kern	KERN0083	1500	Cx. tarsalis	50	Arvin	8/4/2011	WNV	RTPCR
Kern	KERN0083	1501	Cx. tarsalis	50	Arvin	8/4/2011	WNV	RTPCR
Kern	KERN0083	1502	Cx. tarsalis	50	Arvin	8/4/2011	WNV	RTPCR
Kern	KERN0083	1503	Cx. tarsalis	50	Arvin	8/4/2011	WNV	RTPCR

California Arbovirus Surveillance Bulletin #26

Week 32 Friday, August 12, 2011

Kern	KERN0083	1504	Cx. quinquefasciatus	50	Arvin	8/4/2011	WNV	RTPCR
Kern	KERN0083	1505	Cx. quinquefasciatus	50	Arvin	8/4/2011	WNV	RTPCR
Kings	KNGS3018	409	Cx. pipiens	50	Lemoore	8/2/2011	WNV	RTPCR
Kings	KNGS3018	410	Cx. pipiens	50	Lemoore	8/2/2011	WNV	RTPCR
Kings	KNGS3018	411	Cx. pipiens	31	Lemoore	8/2/2011	WNV	RTPCR
Kings	KNGS3022	478	Cx. tarsalis	50	Hanford	8/10/2011	WNV	RTPCR
Kings	KNGS3030	469	Cx. tarsalis	50	Lemoore	8/9/2011	WNV	RTPCR
Los Angeles	GRLA2222	1170	Cx. quinquefasciatus	50	Rowland Heights	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2222	1171	Cx. quinquefasciatus	50	Rowland Heights	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2225	1176	Cx. quinquefasciatus	31	Diamond Bar	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2230	1173	Cx. quinquefasciatus	50	Diamond Bar	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2323	1160	Cx. quinquefasciatus	50	Los Angeles	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2329	1151	Cx. quinquefasciatus	50	Whittier	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2329	1152	Cx. quinquefasciatus	31	Whittier	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2334	1143	Cx. quinquefasciatus	50	Whittier	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2334	1144	Cx. quinquefasciatus	50	Whittier	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2334	1146	Cx. quinquefasciatus	45	Whittier	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2334	1147	Cx. stigmatosoma	22	Whittier	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2346	1159	Cx. quinquefasciatus	48	Montebello	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2347	1156	Cx. quinquefasciatus	50	Montebello	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2355	1153	Cx. quinquefasciatus	50	Pico Rivera	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2355	1154	Cx. quinquefasciatus	41	Pico Rivera	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2419	6087	Cx. quinquefasciatus	50	Panorama City	8/4/2011	WNV	RTPCR
Los Angeles	GRLA2419	6089	Cx. quinquefasciatus	21	Panorama City	8/4/2011	WNV	RTPCR
Los Angeles	GRLA2421	6088	Cx. quinquefasciatus	50	Panorama City	8/4/2011	WNV	RTPCR
Los Angeles	GRLA2476	6109	Cx. quinquefasciatus	48	Sunland	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2527	6055	Cx. quinquefasciatus	26	Los Angeles	8/2/2011	WNV	RTPCR
Los Angeles	GRLA2555	6081	Cx. quinquefasciatus	47	Encino	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2557	6082	Cx. quinquefasciatus	50	Reseda	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2557	6083	Cx. quinquefasciatus	35	Reseda	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2557	6084	Cx. quinquefasciatus	37	Reseda	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2574	6076	Cx. quinquefasciatus	50	Sherman Oaks	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2574	6077	Cx. quinquefasciatus	50	Sherman Oaks	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2574	6078	Cx. quinquefasciatus	50	Sherman Oaks	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2574	6079	Cx. quinquefasciatus	18	Sherman Oaks	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2574	6080	Cx. quinquefasciatus	38	Sherman Oaks	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2580	6073	Cx. quinquefasciatus	50	Sherman Oaks	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2580	6074	Cx. quinquefasciatus	26	Sherman Oaks	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2580	6075	Cx. quinquefasciatus	41	Sherman Oaks	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2635	6097	Cx. quinquefasciatus	50	Van Nuys	8/4/2011	WNV	RTPCR
Los Angeles	GRLA2635	6098	Cx. quinquefasciatus	41	Van Nuys	8/4/2011	WNV	RTPCR
Los Angeles	GRLA2635	6102	Cx. quinquefasciatus	13	Van Nuys	8/4/2011	WNV	RTPCR
Los Angeles	GRLA2636	6095	Cx. quinquefasciatus	50	Van Nuys	8/4/2011	WNV	RTPCR
Los Angeles	GRLA2636	6096	Cx. quinquefasciatus	46	Van Nuys	8/4/2011	WNV	RTPCR
Los Angeles	GRLA2637	6090	Cx. quinquefasciatus	50	Van Nuys	8/4/2011	WNV	RTPCR
Los Angeles	GRLA2637	6099	Cx. quinquefasciatus	18	Van Nuys	8/4/2011	WNV	RTPCR
Los Angeles	GRLA2650	6103	Cx. quinquefasciatus	50	Encino	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2650	6104	Cx. quinquefasciatus	26	Encino	8/5/2011	WNV	RTPCR
Los Angeles	GRLA2651	6091	Cx. quinquefasciatus	50	Encino	8/4/2011	WNV	RTPCR
Los Angeles	GRLA2651	6092	Cx. quinquefasciatus	29	Encino	8/4/2011	WNV	RTPCR
Los Angeles	GRLA2651	6093	Cx. stigmatosoma	12	Encino	8/4/2011	WNV	RTPCR
Los Angeles	GRLA2952	1134	Cx. quinquefasciatus	50	South Whittier(LA...	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2952	1135	Cx. quinquefasciatus	51	South Whittier(LA...	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2953	1131	Cx. quinquefasciatus	50	Santa Fe Springs	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2953	1133	Cx. quinquefasciatus	41	Santa Fe Springs	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2954	1128	Cx. quinquefasciatus	50	Cerritos	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2954	1130	Cx. quinquefasciatus	41	Cerritos	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2956	1125	Cx. quinquefasciatus	50	Lakewood	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2956	1126	Cx. quinquefasciatus	50	Lakewood	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2956	1127	Cx. quinquefasciatus	35	Lakewood	8/3/2011	WNV	RTPCR
Los Angeles	GRLA2957	1124	Cx. quinquefasciatus	40	Hawaiian Gardens	8/3/2011	WNV	RTPCR

California Arbovirus Surveillance Bulletin #26

Week 32 Friday, August 12, 2011

Los Angeles	GRLA3045	1136	Cx. quinquefasciatus	50	Whittier	8/3/2011	WNV	RTPCR
Los Angeles	GRLA3052	1164	Cx. quinquefasciatus	50	La Habra Heights	8/5/2011	WNV	RTPCR
Los Angeles	GRLA3052	1166	Cx. quinquefasciatus	28	La Habra Heights	8/5/2011	WNV	RTPCR
Los Angeles	GRLA3053	1167	Cx. quinquefasciatus	50	Hacienda Heights	8/5/2011	WNV	RTPCR
Los Angeles	GRLA3053	1168	Cx. quinquefasciatus	23	Hacienda Heights	8/5/2011	WNV	RTPCR
Los Angeles	LACW1002	266	Cx. quinquefasciatus	20	Torrance	8/4/2011	WNV	RTPCR
Los Angeles	SGVA560	117	Cx. quinquefasciatus	19	Covina	8/2/2011	WNV	RAMP
Los Angeles	SGVA560	500002	Cx. quinquefasciatus	19	Covina	8/1/2011	WNV	RTPCR
Los Angeles	SGVA58	500001	Cx. quinquefasciatus	10	West Covina	7/25/2011	WNV	RTPCR
Los Angeles	SGVA58	500005	Cx. tarsalis	12	West Covina	8/3/2011	WNV	RTPCR
Los Angeles	SGVA69	500003	Cx. tarsalis	38	Irwindale	8/2/2011	WNV	RTPCR
Madera	MADR1039	29	Cx. quinquefasciatus	25	Madera Ranchos	8/4/2011	WNV	RTPCR
Orange	ORCO0018	732	Cx. quinquefasciatus	20	Lake Forest	8/4/2011	WNV	RTPCR
Orange	ORCO0198	709	Cx. quinquefasciatus	53	La Habra	8/3/2011	WNV	RTPCR
Orange	ORCO0002	692	Cx. quinquefasciatus	50	Fullerton	8/3/2011	WNV	RTPCR
Orange	ORCO0002	693	Cx. quinquefasciatus	50	Fullerton	8/3/2011	WNV	RTPCR
Orange	ORCO0002	695	Cx. stigmatosoma	26	Fullerton	8/3/2011	WNV	RTPCR
Orange	ORCO0003	744	Cx. quinquefasciatus	50	Garden Grove	8/5/2011	WNV	RTPCR
Orange	ORCO0003	745	Cx. quinquefasciatus	50	Garden Grove	8/5/2011	WNV	RTPCR
Orange	ORCO0003	746	Cx. quinquefasciatus	50	Garden Grove	8/5/2011	WNV	RTPCR
Orange	ORCO0003	747	Cx. quinquefasciatus	50	Garden Grove	8/5/2011	WNV	RTPCR
Orange	ORCO0003	749	Cx. quinquefasciatus	40	Garden Grove	8/5/2011	WNV	RTPCR
Orange	ORCO0003	750	Cx. quinquefasciatus	25	Garden Grove	8/5/2011	WNV	RTPCR
Orange	ORCO0003	751	Cx. quinquefasciatus	50	Garden Grove	8/5/2011	WNV	RTPCR
Orange	ORCO0003	754	Cx. quinquefasciatus	50	Garden Grove	8/5/2011	WNV	RTPCR
Orange	ORCO0003	755	Cx. quinquefasciatus	50	Garden Grove	8/5/2011	WNV	RTPCR
Orange	ORCO0003	756	Cx. quinquefasciatus	14	Garden Grove	8/5/2011	WNV	RTPCR
Orange	ORCO0033	716	Cx. quinquefasciatus	25	Westminster	8/4/2011	WNV	RTPCR
Orange	ORCO0034	704	Cx. quinquefasciatus	10	Brea	8/3/2011	WNV	RTPCR
Orange	ORCO0050	673	Cx. quinquefasciatus	50	Buena Park	8/3/2011	WNV	RTPCR
Orange	ORCO0050	674	Cx. quinquefasciatus	21	Buena Park	8/3/2011	WNV	RTPCR
Orange	ORCO0050	676	Cx. quinquefasciatus	50	Buena Park	8/3/2011	WNV	RTPCR
Orange	ORCO0050	677	Cx. quinquefasciatus	36	Buena Park	8/3/2011	WNV	RTPCR
Orange	ORCO0082	636	Cx. quinquefasciatus	42	Cypress	7/27/2011	WNV	RTPCR
Orange	ORCO0082	726	Cx. quinquefasciatus	50	Cypress	8/4/2011	WNV	RTPCR
Orange	ORCO0082	727	Cx. quinquefasciatus	50	Cypress	8/4/2011	WNV	RTPCR
Orange	ORCO0082	728	Cx. quinquefasciatus	42	Cypress	8/4/2011	WNV	RTPCR
Riverside	COAV0322	1894	Cx. quinquefasciatus	9	Cathedral City	8/3/2011	WNV	RTPCR
Riverside	NWST0099	11130	Cx. quinquefasciatus	24	Norco	8/5/2011	WNV	RTPCR
Sacramento	SAYO214022	3303	Cx. tarsalis	7	Rancho Cordova	8/9/2011	WNV	RTPCR
Sacramento	SAYO214022	3305	Cx. pipiens	2	Rancho Cordova	8/9/2011	WNV	RTPCR
Sacramento	SAYO232022	3175	Cx. tarsalis	4	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO232022	3176	Cx. tarsalis	1	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO233004	3171	Cx. tarsalis	35	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO233004	3172	Cx. pipiens	31	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO233004	3173	Cx. pipiens	1	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO233004	3174	Cs. incidens	23	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO233006	3105	Cx. pipiens	7	Elk Grove	8/5/2011	WNV	RTPCR
Sacramento	SAYO233009	3269	Cx. tarsalis	50	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO233009	3270	Cx. tarsalis	50	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO233009	3271	Cx. tarsalis	41	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO233009	3272	Cx. pipiens	50	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO233009	3273	Cx. pipiens	50	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO233009	3274	Cx. pipiens	50	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO233018	3293	Cx. pipiens	52	Sacramento	8/9/2011	WNV	RTPCR
Sacramento	SAYO233021	3229	Cx. tarsalis	35	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO233021	3230	Cx. tarsalis	1	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO233043	3301	Cx. tarsalis	35	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO233064	3308	Cx. tarsalis	23	Sacramento	8/9/2011	WNV	RTPCR
Sacramento	SAYO233064	3309	Cx. pipiens	50	Sacramento	8/9/2011	WNV	RTPCR
Sacramento	SAYO233064	3310	Cx. pipiens	8	Sacramento	8/9/2011	WNV	RTPCR
Sacramento	SAYO234020	3218	Cx. pipiens	30	Elk Grove	8/9/2011	WNV	RTPCR
Sacramento	SAYO235012	3311	Cx. tarsalis	50	Wilton	8/9/2011	WNV	RTPCR

California Arbovirus Surveillance Bulletin #26

Week 32 Friday, August 12, 2011

Sacramento	SAYO235012	3313	Cx. tarsalis	45	Wilton	8/9/2011	WNV	RTPCR
Sacramento	SAYO244001	3227	Cx. tarsalis	14	Wilton	8/9/2011	WNV	RTPCR
Sacramento	SAYO244001	3228	Cx. pipiens	19	Wilton	8/9/2011	WNV	RTPCR
Sacramento	SAYO244002	3249	Cx. pipiens	3	Galt	8/9/2011	WNV	RTPCR
Sacramento	SAYO245002	3296	Cx. tarsalis	50	Wilton	8/9/2011	WNV	RTPCR
Sacramento	SAYO245002	3297	Cx. tarsalis	47	Wilton	8/9/2011	WNV	RTPCR
Sacramento	SAYO245002	3298	Cx. pipiens	28	Wilton	8/9/2011	WNV	RTPCR
Sacramento	SAYO245010	3243	Cx. tarsalis	50	Wilton	8/9/2011	WNV	RTPCR
Sacramento	SAYO245010	3244	Cx. tarsalis	47	Wilton	8/9/2011	WNV	RTPCR
Sacramento	SAYO245010	3245	Cx. pipiens	8	Wilton	8/9/2011	WNV	RTPCR
Sacramento	SAYO245010	3246	Cx. pipiens	1	Wilton	8/9/2011	WNV	RTPCR
San Bernardino	WVAL2018	449	Cx. quinquefasciatus	50	Chino	8/1/2011	WNV	RTPCR
San Bernardino	WVAL2018	450	Cx. quinquefasciatus	50	Chino	8/1/2011	WNV	RTPCR
San Bernardino	WVAL2021	426	Cx. quinquefasciatus	25	Fwy CA 71	8/1/2011	WNV	RTPCR
San Bernardino	WVAL2022	431	Cx. quinquefasciatus	8	Fwy CA 60	8/1/2011	WNV	RTPCR
San Bernardino	WVAL5007	444	Cx. quinquefasciatus	41	Rancho Cucamonga	8/1/2011	WNV	RTPCR
San Bernardino	WVAL6005	439	Cx. quinquefasciatus	50	Ontario	8/1/2011	WNV	RTPCR
San Bernardino	WVAL6005	440	Cx. quinquefasciatus	50	Ontario	8/1/2011	WNV	RTPCR
San Bernardino	WVAL6005	442	Cx. quinquefasciatus	50	Ontario	8/1/2011	WNV	RTPCR
San Joaquin	SJCM8011	370	Cx. pipiens	21	Ripon	8/4/2011	WNV	RTPCR
San Joaquin	SJCM8026	376	Cx. tarsalis	50	Stockton	8/9/2011	WNV	RTPCR
San Joaquin	SJCM8100	411	Cx. tarsalis	40	Tracy	8/9/2011	WNV	RTPCR
San Joaquin	SJCM8100	412	Cx. pipiens	9	Tracy	8/9/2011	WNV	RTPCR
San Joaquin	SJCM8125	381	Cx. tarsalis	33	Stockton	8/9/2011	WNV	RTPCR
Stanislaus	EAST1060	11088	Cx. pipiens	15	Salida	8/9/2011	WNV	RTPCR
Stanislaus	TRLK1102	445	Cx. pipiens	32	Denair	8/9/2011	WNV	RTPCR
Stanislaus	TRLK0407	398	Cx. pipiens	35	Turlock	8/9/2011	WNV	RTPCR
Stanislaus	TRLK0408	399	Cx. pipiens	50	Turlock	8/9/2011	WNV	RTPCR
Stanislaus	TRLK0432	401	Cx. pipiens	50	Turlock	8/9/2011	WNV	RTPCR
Stanislaus	TRLK0432	402	Cx. pipiens	50	Turlock	8/9/2011	WNV	RTPCR
Stanislaus	TRLK0432	403	Cx. pipiens	50	Turlock	8/9/2011	WNV	RTPCR
Stanislaus	TRLK0432	404	Cx. pipiens	36	Turlock	8/9/2011	WNV	RTPCR
Stanislaus	TRLK0504	407	Cx. pipiens	22	Denair	8/9/2011	WNV	RTPCR
Stanislaus	TRLK0516	416	Cx. pipiens	50	Denair	8/9/2011	WNV	RTPCR
Stanislaus	TRLK0526	410	Cx. pipiens	50	Denair	8/9/2011	WNV	RTPCR
Stanislaus	TRLK0531	396	Cx. pipiens	11	Turlock	8/9/2011	WNV	RTPCR
Stanislaus	TRLK0613	422	Cx. tarsalis	50	Hickman	8/9/2011	WNV	RTPCR
Sutter	SUYA0031	169	Cx. tarsalis	36	Rio Oso	8/8/2011	WNV	RTPCR
Sutter	SUYA0031	180	Cx. tarsalis	37	Rio Oso	8/9/2011	WNV	RTPCR
Sutter	SUYA0044	185	Cx. tarsalis	31	Pleasant Grove	8/9/2011	WNV	RTPCR
Tulare	DLTA8508	333	Cx. quinquefasciatus	23	Visalia	8/4/2011	WNV	RTPCR
Tulare	DLTA8512	322	Cx. quinquefasciatus	25	Ivanhoe	8/4/2011	WNV	RTPCR
Tulare	DLTA8518	328	Cx. tarsalis	50	Visalia	8/4/2011	WNV	RTPCR
Tulare	DLTA8518	329	Cx. tarsalis	50	Visalia	8/4/2011	WNV	RTPCR
Tulare	TLRE0057	42	Cx. pipiens	50	Tulare	8/10/2011	WNV	RTPCR

Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Kern	DLNO0035	McFarland	8/4/2011	WNV	1458			
Kern	DLNO0060	Delano	8/4/2011	WNV	1426			
Kern	KERN0107	Arvin	8/1/2011	WNV	1653	1654	1655	1657
Kern	KERN0113	Bakersfield	8/1/2011	WNV	1642	1646	1649	1650
Kern	KERN0114	Bakersfield	8/1/2011	WNV	1662	1667		
San Bernardino	SANB0002	Redlands	7/25/2011	WNV	2512			

California Arbovirus Surveillance Bulletin #26

Week 32 Friday, August 12, 2011

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 by plaque reduction neutralization test (PRNT).

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.

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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