

California Arbovirus Surveillance Bulletin # 29

Week 34 Friday, August 28, 2009

Weekly Summary

WEEKLY COMMENTS



As of August 28, 2009, 38 counties have reported West Nile virus (WNV) activity. At this time last year, 38 counties had reported WNV activity.

Humans

Seven new cases of West Nile virus were reported this week from the following 5 counties: Fresno (1), Kern (1), Los Angeles (2), San Diego (1), and Stanislaus (2). These are the first human cases reported from Stanislaus County this year. In 2009, 19 human cases of WNV have been identified in Contra Costa (1), Fresno (3), Kern (4), Kings (1), Los Angeles (5), Orange (1), San Diego (2), and Stanislaus (2) counties. Of the 19 individuals, 9 (47%) developed neuroinvasive symptoms. The median age of the 19 individuals is 52 years (range: 15-76 years), and 14 (74%) are male. None of the cases have resulted in fatalities. In addition, 10 WNV-positive blood donation samples have been reported this year; 3 of the donors subsequently developed symptoms and were reclassified as cases. At this time last year, 92 human cases had been reported from 13 counties.

Horses

No new cases were reported this week. In 2009, 4 equine WNV cases have been reported from 3 counties; 2 of the cases were euthanized as a result of their illness. At this time last year, 5 equine WNV cases had been reported from 4 counties.

Dead Birds & Tree Squirrels

Twenty-five WNV positive dead birds were reported this week from the following 13 counties: Butte (1), Contra Costa (3), El Dorado (1), Fresno (1), Kern (2), Los Angeles (5), Madera (1), Merced (1), Sacramento (3), San Bernardino (1), San Diego (1), Stanislaus (3), and Tulare (2). In 2009, 354 birds from 33 counties have tested positive for WNV. At this time last year, 1,295 WNV positive dead birds had been reported from 35 counties.

One WNV positive western-gray squirrel was reported this week from Tehama County; this is the first detection of WNV activity in Tehama County this year. In 2009, 4 tree squirrels from 4 counties have tested positive for WNV. At this time last year, 9 WNV positive tree squirrels had been reported from 3 counties.

Mosquito Pools

Ninety-five WNV positive mosquito pools were reported this week from the following 14 counties: Butte (1), Fresno (2), Kern (12), Kings (25), Los Angeles (15), Mono (1), Placer (6), Riverside (1), Sacramento (5), Shasta (1), Solano (2), Stanislaus (8), Sutter (6), and Tulare (10). These are the first WNV positive pools detected in Mono, Shasta, and Solano counties this year, and the first indication of WNV activity in Mono County. In 2009, 744 mosquito pools have tested positive for WNV from 24 counties. At this time last year, 1,101 WNV positive mosquito pools had been reported from 24 counties.

Sentinel Chickens

41 WNV seroconversions were reported this week from the following 10 counties: Butte (7), Contra Costa (1), Imperial (2), Kern (18), Merced (1), Napa (1), Riverside (2), Stanislaus (3), Sutter (2), and Tulare (4). These are the first WNV positive chickens detected in Napa and Stanislaus counties this year, and the first indication of WNV activity in Napa County. In 2009, 139 chickens from 17 counties have tested positive for WNV antibodies. At this time last year, 109 WNV seroconversions had been reported from 12 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.

California Arbovirus Surveillance Bulletin # 29

Week 34 Friday, August 28, 2009

YTD WNV Activity by Element and County, 2009

County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			8			
Butte			8	4	8	
Colusa			2			
Contra Costa	1	1	22	17	2	
El Dorado			5			
Fresno	3		58	108		1
Imperial				2	31	
Kern	4		27	106	39	
Kings	1		9	82		
Lake			2	2		
Los Angeles	5		55	53	21	
Madera			10	2		
Merced			3		4	
Modoc			1			
Mono				1		
Monterey			2			
Napa					1	
Orange	1		6	4		
Placer			3	23		
Riverside			1	12	3	
Sacramento			15	22	2	
San Bernardino			11	27	5	1
San Diego	2		21	2	4	
San Francisco			1			
San Joaquin		2	19	63	1	
San Mateo			1			
Santa Barbara			1			
Santa Clara			10	14		1
Santa Cruz			1			
Shasta			6	1		
Solano			2	2	1	
Stanislaus	2	1	18	58	3	
Sutter				21	3	
Tehama						1
Tulare			22	112	9	
Tuolumne			1			
Ventura			2			
Yolo			1	6	2	
Total	19	4	354	744	139	4

2009 & 2008 YTD West Nile Virus Comparisons		
	2008	2009
Total # Dead Bird Reports	24,585	12,380
# Positive Counties	38	38
# Human Cases / # Tested	92 / 636	19 / 654
# Horse Cases / # Tested	5 / 159	4 / 135
# Positive Dead Birds / # Tested	1,295 / 3,910	354 / 2,114
# Positive Mosquito Pools / # Tested	1,101 / 20,317	744 / 18,380
# Positive Chicken Sera / # Tested	109 / 19,366	139 / 17,132
# Positive Squirrels / # Tested	9 / 113	4 / 69

California Arbovirus Surveillance Bulletin # 29

Week 34 Friday, August 28, 2009

TEST SUMMARIES

Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested*	Week	33	0	7	0	0	0	0	0	0
	YTD	654	1	18	0	0	0	0	0	0
Horses Tested	Week	0	0	0	0	0	0	0	0	0
	YTD	135	0	4	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	88	25
	YTD	2,114	354
Tree Squirrels	Week	3	1
	YTD	69	4

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	SLE Positive	WEE Positive
Chicken Sera	Week	876	41	0	0
	YTD	17,132	139	0	0
Mosquito Pools: RT-PCR	Week	837	94	0	0
	YTD	17,780	697	0	0
Mosquito Pools: RAMP	Week	15	1	N/A	N/A
	YTD	600	47	N/A	N/A

POSITIVES

Dead Birds & Tree Squirrels

County	Agency	City	Zip	Species	Reported	Tested	Virus	Method
Butte	Butte Co MVCD	Oroville	95965	Western Scrub-Jay	8/16/09	8/24/09	WNV	RT-PCR
Contra Costa	Contra Costa MVCD	Antioch	94509	Western Scrub-Jay	8/12/09	8/24/09	WNV	RT-PCR
Contra Costa	Contra Costa MVCD	Byron	94514	Western Sandpiper	8/14/09	8/24/09	WNV	RT-PCR
Contra Costa	Contra Costa MVCD	Oakley	94561	American Crow	8/24/09	8/24/09	WNV	RAMP
El Dorado	El Dorado Co Env	Rescue	95672	House Sparrow	8/17/09	8/24/09	WNV	RT-PCR
Fresno	Consolidated MAD	Reedley	93654	American Crow	8/24/09	8/25/09	WNV	RAMP
Kern	Kern MVCD	Bakersfield	93306	House Finch	8/17/09	8/24/09	WNV	RT-PCR
Kern	Kern MVCD	Bakersfield	93306	American Crow	8/19/09	8/24/09	WNV	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Lancaster	93535	House Finch	8/11/09	8/24/09	WNV	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Lancaster	93535	House Finch	8/11/09	8/24/09	WNV	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Lancaster	93536	House Finch	8/11/09	8/24/09	WNV	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	San Fernando	91340	American Crow	8/13/09	8/24/09	WNV	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Santa Clarita	91354	American Crow	8/17/09	8/24/09	WNV	RT-PCR

California Arbovirus Surveillance Bulletin # 29

Week 34 Friday, August 28, 2009

Madera	Madera Co MVCD	Madera	93637	Barn Owl	8/18/09	8/24/09	WNV	RT-PCR
Merced	Merced Co MAD	Delhi	95315	American Crow	8/12/09	8/24/09	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Western Scrub-Jay	8/18/09	8/24/09	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	8/17/09	8/24/09	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	American Goldfinch	8/17/09	8/24/09	WNV	RT-PCR
San Bernardino	West Valley MVCD	Chino	91710	House Sparrow	8/11/09	8/24/09	WNV	RT-PCR
San Diego	San Diego Co EH	San Diego	92122	American Crow	8/21/09	8/21/09	WNV	RT-PCR
Stanislaus	Turlock MAD	Ceres	95307	Western Scrub-Jay	8/12/09	8/24/09	WNV	RT-PCR
Stanislaus	Turlock MAD	Turlock	95382	Yellow-billed Magpie	8/12/09	8/24/09	WNV	RT-PCR
Stanislaus	Turlock MAD	Turlock	95380	Yellow-billed Magpie	8/12/09	8/24/09	WNV	RT-PCR
Tehama	Tehama Co MVCD	Red Bluff	96080	Western Gray Squirrel	8/17/09	8/24/09	WNV	RT-PCR
Tulare	Delta VCD	Visalia	93291	American Crow	8/13/09	8/24/09	WNV	RT-PCR
Tulare	Delta VCD	Visalia	93277	Western Scrub-Jay	8/19/09	8/24/09	WNV	RT-PCR

Mosquitoes

County	Site Code	Pool #	Species	# in Pool	Collected	Tested	City	Virus	Method
Butte	BUCO0034	58	Cx tarsalis	50	8/13/2009	8/27/2009	Richvale	WNV	RTPCR
Fresno	CNSL3068	667	Cx quinquefasciatus	11	8/25/2009	8/26/2009	Reedley	WNV	RTPCR
Fresno	CNSL6189	662	Cx tarsalis	31	8/19/2009	8/26/2009	Laton	WNV	RTPCR
Kern	AFSB0121	5158	Cx quinquefasciatus	25	8/20/2009	8/25/2009	Bakersfield	WNV	RTPCR
Kern	AFSB0123	5160	Cx quinquefasciatus	37	8/20/2009	8/25/2009	Oildale	WNV	RTPCR
Kern	AFSB0123	5163	Cx quinquefasciatus	24	8/20/2009	8/25/2009	Oildale	WNV	RTPCR
Kern	KERN0039	475	Cx tarsalis	50	8/21/2009	8/26/2009	Shafter	WNV	RTPCR
Kern	KERN0045	444	Cx quinquefasciatus	45	8/14/2009	8/24/2009	Buttonwillow	WNV	RTPCR
Kern	KERN0046	477	Cx quinquefasciatus	22	8/21/2009	8/26/2009	Wasco	WNV	RTPCR
Kern	KERN1005	447	Cx quinquefasciatus	40	8/18/2009	8/25/2009	Bakersfield	WNV	RTPCR
Kern	KERN1009	429	Cx quinquefasciatus	10	8/12/2009	8/24/2009	Bakersfield	WNV	RTPCR
Kern	KERN1009	457	Cx quinquefasciatus	45	8/19/2009	8/26/2009	Bakersfield	WNV	RTPCR
Kern	KERN2011	448	Cx quinquefasciatus	50	8/18/2009	8/25/2009	Bakersfield	WNV	RTPCR
Kern	KERN2018	456	Cx quinquefasciatus	18	8/19/2009	8/26/2009	Bakersfield	WNV	RTPCR
Kern	KERN2033	449	Cx quinquefasciatus	7	8/18/2009	8/25/2009	Bakersfield	WNV	RTPCR
Kings	CNSL5124	664	Cx quinquefasciatus	50	8/19/2009	8/26/2009	Kingsburg	WNV	RTPCR
Kings	KNGS3010	327	Cx quinquefasciatus	23	8/18/2009	8/24/2009	Hanford	WNV	RTPCR
Kings	KNGS3018	306	Cx tarsalis	50	8/18/2009	8/24/2009	Lemoore	WNV	RTPCR
Kings	KNGS3018	360	Cx tarsalis	50	8/25/2009	8/27/2009	Lemoore	WNV	RTPCR
Kings	KNGS3018	362	Cx tarsalis	50	8/25/2009	8/27/2009	Lemoore	WNV	RTPCR
Kings	KNGS3018	364	Cx tarsalis	50	8/25/2009	8/27/2009	Lemoore	WNV	RTPCR
Kings	KNGS3022	299	Cx tarsalis	50	8/18/2009	8/24/2009	Hanford	WNV	RTPCR
Kings	KNGS3022	301	Cx tarsalis	50	8/18/2009	8/24/2009	Hanford	WNV	RTPCR
Kings	KNGS3022	302	Cx tarsalis	34	8/18/2009	8/24/2009	Hanford	WNV	RTPCR
Kings	KNGS3022	335	Cx tarsalis	50	8/25/2009	8/27/2009	Hanford	WNV	RTPCR
Kings	KNGS3022	336	Cx tarsalis	50	8/25/2009	8/27/2009	Hanford	WNV	RTPCR
Kings	KNGS3022	337	Cx tarsalis	50	8/25/2009	8/27/2009	Hanford	WNV	RTPCR
Kings	KNGS3030	316	Cx tarsalis	50	8/18/2009	8/24/2009	Lemoore	WNV	RTPCR
Kings	KNGS3030	317	Cx tarsalis	50	8/18/2009	8/24/2009	Lemoore	WNV	RTPCR
Kings	KNGS3030	318	Cx tarsalis	50	8/18/2009	8/24/2009	Lemoore	WNV	RTPCR
Kings	KNGS3035	324	Cx tarsalis	19	8/18/2009	8/24/2009	Hanford	WNV	RTPCR
Kings	KNGS3039	369	Cx erythrothorax	29	8/25/2009	8/27/2009	Lemoore	WNV	RTPCR
Kings	KNGS3051	351	Cx quinquefasciatus	50	8/25/2009	8/27/2009	Lemoore	WNV	RTPCR
Kings	KNGS3051	352	Cx quinquefasciatus	21	8/25/2009	8/27/2009	Lemoore	WNV	RTPCR
Kings	KNGS3056	312	Cx tarsalis	6	8/18/2009	8/24/2009	Hardwick	WNV	RTPCR

California Arbovirus Surveillance Bulletin # 29

Week 34 Friday, August 28, 2009

Kings	KNGS3056	313	Cx quinquefasciatus	9	8/18/2009	8/24/2009	Hardwick	WNV	RTPCR
Kings	KNGS4003	328	Cx tarsalis	27	8/18/2009	8/24/2009	Hanford	WNV	RTPCR
Kings	KNGS4006	322	Cx tarsalis	50	8/18/2009	8/24/2009	Hanford	WNV	RTPCR
Kings	KNGS4006	346	Cx tarsalis	17	8/25/2009	8/27/2009	Hanford	WNV	RTPCR
Kings	KNGS4006	347	Cx quinquefasciatus	13	8/25/2009	8/27/2009	Hanford	WNV	RTPCR
Los Angeles	ANTV8463	27	Cx tarsalis	44	8/25/2009	8/26/2009	Lancaster	WNV	RTPCR
Los Angeles	GRLA2334	1546	Cx quinquefasciatus	50	8/21/2009	8/26/2009	Whittier	WNV	RTPCR
Los Angeles	GRLA2334	1547	Cx quinquefasciatus	50	8/21/2009	8/26/2009	Whittier	WNV	RTPCR
Los Angeles	GRLA2414	5925	Cx quinquefasciatus	50	8/18/2009	8/26/2009	Granada Hills	WNV	RTPCR
Los Angeles	GRLA2419	5928	Cx quinquefasciatus	50	8/18/2009	8/26/2009	Panorama City	WNV	RTPCR
Los Angeles	GRLA2419	5929	Cx quinquefasciatus	33	8/18/2009	8/26/2009	Panorama City	WNV	RTPCR
Los Angeles	GRLA2421	5926	Cx quinquefasciatus	44	8/18/2009	8/26/2009	Panorama City	WNV	RTPCR
Los Angeles	GRLA2476	5936	Cx quinquefasciatus	50	8/20/2009	8/26/2009	Sunland	WNV	RTPCR
Los Angeles	GRLA2512	5910	Cx quinquefasciatus	50	8/13/2009	8/25/2009	Los Angeles	WNV	RTPCR
Los Angeles	GRLA2520	5895	Cx quinquefasciatus	50	8/13/2009	8/25/2009	Los Angeles	WNV	RTPCR
Los Angeles	GRLA2521	5896	Cx quinquefasciatus	50	8/13/2009	8/25/2009	Los Angeles	WNV	RTPCR
Los Angeles	GRLA2521	5898	Cx stigmatosoma	18	8/13/2009	8/25/2009	Los Angeles	WNV	RTPCR
Los Angeles	GRLA2527	5900	Cx quinquefasciatus	45	8/13/2009	8/25/2009	Los Angeles	WNV	RTPCR
Los Angeles	GRLA2849	5934	Cx quinquefasciatus	50	8/19/2009	8/26/2009	Panorama City	WNV	RTPCR
Los Angeles	GRLA2950	5939	Cx quinquefasciatus	50	8/20/2009	8/26/2009	Sunland	WNV	RTPCR
Mono	MALA0008	3	Cx tarsalis	18	8/20/2009	8/26/2009	Hilton Creek	WNV	RTPCR
Placer	PLCR0017	559	An freeborni	50	8/18/2009	8/24/2009	Sheridan	WNV	RTPCR
Placer	PLCR0017	601	Cx tarsalis	17	8/20/2009	8/27/2009	Sheridan	WNV	RTPCR
Placer	PLCR0079	671	Cx pipiens	50	8/25/2009	8/27/2009	Roseville	WNV	RTPCR
Placer	PLCR0339	650	Cx tarsalis	12	8/25/2009	8/27/2009	Sheridan	WNV	RTPCR
Placer	PLCR1113	598	Cx tarsalis	50	8/20/2009	8/28/2009	Pleasant Grove	WNV	RTPCR
Placer	PLCR1114	604	Cx tarsalis	7	8/20/2009	8/27/2009	Lincoln	WNV	RTPCR
Riverside	COAV0035	1468	Cx tarsalis	28	8/18/2009	8/26/2009	Mecca	WNV	RTPCR
Sacramento	SAYO2204	3260	Cx tarsalis	50	8/20/2009	8/24/2009	Galt	WNV	RTPCR
Sacramento	SAYO4368	3258	Cx tarsalis	6	8/20/2009	8/24/2009	Galt	WNV	RTPCR
Sacramento	SAYO4368	3259	Cx pipiens	43	8/20/2009	8/24/2009	Galt	WNV	RTPCR
Sacramento	SAYO4368	3293	Cx tarsalis	50	8/20/2009	8/24/2009	Galt	WNV	RTPCR
Sacramento	SAYO7009	3304	Cx tarsalis	49	8/20/2009	8/24/2009	Wilton	WNV	RTPCR
Shasta	SHAS0044	235	Cx pipiens	50	8/25/2009	8/27/2009	Redding	WNV	RTPCR
Solano	SOLA9999	21	Cx tarsalis	47	8/20/2009	8/25/2009	Fairfield	WNV	RTPCR
Solano	SOLA9999	22	Cx tarsalis	39	8/20/2009	8/25/2009	Fairfield	WNV	RTPCR
Stanislaus	EAST1012	9186	Cx pipiens	30	8/25/2009	8/26/2009	Modesto	WNV	RAMP
Stanislaus	TRLK0305	739	Cx pipiens	50	8/25/2009	8/26/2009	Grayson	WNV	RTPCR
Stanislaus	TRLK0305	741	Cx pipiens	50	8/25/2009	8/26/2009	Grayson	WNV	RTPCR
Stanislaus	TRLK9743	774	Cx pipiens	50	8/25/2009	8/26/2009	Crows Landing	WNV	RTPCR
Stanislaus	TRLK9772	745	Cx tarsalis	50	8/25/2009	8/28/2009	Grayson	WNV	RTPCR
Stanislaus	TRLK9772	747	Cx pipiens	50	8/25/2009	8/26/2009	Grayson	WNV	RTPCR
Stanislaus	TRLK9772	748	Cx pipiens	50	8/25/2009	8/26/2009	Grayson	WNV	RTPCR
Stanislaus	TRLK9772	749	Cx pipiens	50	8/25/2009	8/26/2009	Grayson	WNV	RTPCR
Sutter	SUYA0016	285	Cx tarsalis	31	8/24/2009	8/28/2009	Trowbridge	WNV	RTPCR
Sutter	SUYA0022	282	Cx tarsalis	37	8/24/2009	8/27/2009	Tudor	WNV	RTPCR
Sutter	SUYA0031	286	Cx tarsalis	36	8/24/2009	8/27/2009	Rio Oso	WNV	RTPCR
Sutter	SUYA0044	288	Cx tarsalis	50	8/24/2009	8/27/2009	Pleasant Grove	WNV	RTPCR
Sutter	SUYA0044	290	Cx tarsalis	42	8/25/2009	8/27/2009	Pleasant Grove	WNV	RTPCR
Sutter	SUYA0063	284	Cx tarsalis	15	8/24/2009	8/27/2009	Pennington	WNV	RTPCR
Tulare	DLTA6407	739	Cx quinquefasciatus	50	8/21/2009	8/26/2009	Dinuba	WNV	RTPCR
Tulare	DLTA6418	740	Cx quinquefasciatus	50	8/21/2009	8/26/2009	Dinuba	WNV	RTPCR

California Arbovirus Surveillance Bulletin # 29

Week 34 Friday, August 28, 2009

Tulare	DLTA8427	753	Cx quinquefasciatus	41	8/25/2009	8/26/2009	Visalia	WNV	RTPCR
Tulare	DLTA8434	741	Cx quinquefasciatus	34	8/21/2009	8/26/2009	Visalia	WNV	RTPCR
Tulare	DLTA8434	742	Cx quinquefasciatus	50	8/21/2009	8/26/2009	Visalia	WNV	RTPCR
Tulare	DLTA9403	745	Cx quinquefasciatus	43	8/21/2009	8/26/2009	Visalia	WNV	RTPCR
Tulare	DLTA9412	758	Cx quinquefasciatus	48	8/26/2009	8/27/2009	Visalia	WNV	RTPCR
Tulare	DLTA9505	675	Cx quinquefasciatus	50	8/18/2009	8/26/2009	Visalia	WNV	RTPCR
Tulare	DLTA9505	676	Cx quinquefasciatus	41	8/18/2009	8/26/2009	Visalia	WNV	RTPCR
Tulare	TLRE0025	59	Cx pipiens	30	8/26/2009	8/27/2009	Tulare	WNV	RTPCR

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO0003	Oroville	8/17/2009	WNV	3278	3280	3284	3286
Butte	BUCO0004	Gridley	8/17/2009	WNV	3289	3293	3296	
Contra Costa	CNTR7402	Oakley	8/17/2009	WNV	3017			
Imperial	COAV5001	Niland	8/11/2009	WNV	3172			
Imperial	COAV5002	Niland	7/27/2009	WNV	3184			
Kern	DLNO0035		8/20/2009	WNV	2966			
Kern	KERN0102	Buttonwillow	8/17/2009	WNV	2674	2676	2677	
Kern	KERN0104	Old River	8/17/2009	WNV	2613			
Kern	KERN0107	Arvin	8/17/2009	WNV	2641	2643	2646	2650
Kern	KERN0111	Arvin	8/17/2009	WNV	2657	2659		
Kern	KERN0113	Bakersfield	8/17/2009	WNV	2601	2603	2606	
Kern	KERN0114	Bakersfield	8/17/2009	WNV	2625			
Kern	WEST6203	Hwy 119 and Hwy 43	8/18/2009	WNV	1049	1050	1052	
Merced	MERC0502	Hilmar	8/7/2009	WNV	2273			
Napa	NAPA2808	St Helena	8/17/2009	WNV	2176			
Riverside	NWST0004	Flabob Airport	8/13/2009	WNV	2047			
Riverside	NWST9401	Corona	8/13/2009	WNV	2102			
Stanislaus	EAST1947	Modesto	8/5/2009	WNV	2893			
Stanislaus	EAST1947	Modesto	8/19/2009	WNV	2894	2899		
Sutter	SUYA0014	Sutter	8/20/2009	WNV	1285	1287		
Tulare	DLTA6309	Reedley	8/10/2009	WNV	2923			
Tulare	DLTA8530	Visalia	8/10/2009	WNV	2940	2941	2947	

NATIONAL COMMENTS

As of August 25, 2009, 123 human cases had been reported nationwide in the following 22 states: Arizona (12), Arkansas (1), California (12), Colorado (14), Idaho (1), Iowa (1), Kansas (4), Louisiana (10), Minnesota (1), Mississippi (20), Missouri (1), Montana (1), Nebraska (4), Nevada (10), New Mexico (3), New York (1), Oklahoma (1), Pennsylvania (1), South Dakota (9), Tennessee (2), Texas (12), and Wyoming (2). Of the 123 individuals, 65 (53%) have neuroinvasive illness. There have been four fatalities in Mississippi (2), New Mexico (1), and Texas (1).

California Arbovirus Surveillance Bulletin # 29

Week 34 Friday, August 28, 2009

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).

*Human denominator data only includes specimens tested at VRDL and does not include additional negative specimens that are tested by local agencies only.

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. The WNV Dead Bird Surveillance Coordinator, Erin Parker, can be reached directly at (510) 412-6254.

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 (WEE), and St. Louis encephalitis (SLE) 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 WEE, SLE, 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) 412-6298 or email: tina.feiszli@cdph.ca.gov
