

California Arbovirus Surveillance Bulletin #25

Week 31 Friday, August 5, 2011



WEEKLY UPDATE

Human Cases

Six new human cases of West Nile virus (WNV) were reported this week from Fresno (2), Stanislaus (2), and Tulare (2) counties. To date this year, 7 WNV cases have been reported from 4 counties. Of the 7 cases, 6 (86%) are classified clinically as neuroinvasive disease. The median age for all cases is 61 years (range: 35-71 years) and 5 (71%) are male. No fatalities have been reported.

At this time last year, 12 WNV cases had been reported from 6 counties.

National Activity: As of August 2, 2011, 27 human cases of WNV had been reported nationwide in 12 states: Arizona (4), California (3), Colorado (1), Florida (5), Georgia (1), Louisiana (1), Mississippi (6), North Dakota (1), South Dakota (1), Texas (2), Virginia (1), and Wyoming (1). Of the 27 cases, 15 (56%) have been classified clinically as neuroinvasive disease. One WNV-related fatality has been reported in Texas.

Horses

No equine cases have been reported in 2011. At this time last year, 1 horse from Madera County had tested positive for WNV.

Dead Birds & Squirrels

Thirty WNV positive dead birds were reported this week from 4 counties: Fresno (2), Los Angeles (13), Sacramento (12), and Tulare (3). In addition, one tree squirrel from Sacramento County tested positive for WNV; this is the WNV positive tree squirrel reported in California in 2011. To date this year, 118 dead birds from 12 counties and one tree squirrel from one county have tested positive for WNV. An additional 44 birds have tested positive for chronic* WNV infection from 16 counties.

At this time last year, 179 birds from 19 counties, and 5 tree squirrels from 4 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 123 WNV positive mosquito pools were reported this week from 9 counties: Fresno (11), Kern (27), Kings (2), Los Angeles (33), Placer (2), Sacramento (21), Stanislaus (1), Sutter (3), and Tulare (23). In 2011, 394 mosquito pools from 15 counties have tested positive for WNV.

At this time last year, 562 mosquito pools from 21 counties had tested positive for WNV.

Sentinel Chickens

Fifteen WNV seroconversions were reported this week from 6 flocks in 3 counties: Kern (2), Los Angeles (4), and San Bernardino (9). To date this year, 34 WNV positive chickens have been detected among 12 flocks in 3 counties.

At this time last year, 45 chickens (11 flocks) had tested positive for WNV from 6 counties.

2010 & 2011 YTD West Nile Virus Comparisons		
	2010	2011
Total # Dead Bird Reports	7,153	5,396
# Positive Counties	24	18
# Human Cases	12	7
# Horse Cases	1	0
# Positive Dead Birds / # Tested	179 / 1,375	118 / 1,181
# Positive Mosquito Pools / # Tested	562 / 16,655	394 / 18,887
# Seroconversions / # Tested	45 / 14,995	34 / 11,618
# Positive Squirrels / # Tested	5 / 56	1 / 51

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YTD WNV Activity by Element and County, 2011

County	Humans	Horses	Dead Birds ^A	Mosquito Pools	Sentinel Chickens	Squirrels
Contra Costa			2			
Fresno	2		6	50		
Inyo				1		
Kern				67	18	
Kings			1	6		
Los Angeles			45	115	5	
Orange			4	11		
Placer				5		
Riverside			1	1		
Sacramento			23	48		1
San Bernardino				3	11	
San Joaquin			1	8		
Santa Barbara	1					
Santa Clara			10	1		
Stanislaus	2		1	11		
Sutter				4		
Tulare	2		23	63		
Ventura			1			
Totals	7	0	118	394	34	1

TESTING SUMMARIES

Humans and Horses

		WNV		WEEV		SLEV	
		Local	Imported	Local	Imported	Local	Imported
Human Cases	Week	6	0	0	0	0	0
	YTD	7	0	0	0	0	0
Horse Cases	Week	0	0	0	0	0	0
	YTD	0	0	0	0	0	0

Dead Birds & Squirrels

		Number Tested	WNV Positive (recent only)
Dead Birds	Week	53	30
	YTD	1,181	118
Tree Squirrels	Week	1	1
	YTD	51	1

Chickens & Mosquitoes

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	682	15	0	0
	YTD	11,618	34	0	0
Mosquito Pools: RT-PCR	Week	1,359	122	0	0
	YTD	15,826	393	0	0
Mosquito Pools: RAMP	Week	6	1	N/A	N/A
	YTD	61	1	N/A	N/A

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NEW POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus	Type of Infection	Method
Fresno	Consolidated MAD	Parlier	93648	American Robin	7/18/2011	WNV	Recent	RT-PCR
Fresno	Consolidated MAD	Fresno	93710	Mourning Dove	7/8/2011	WNV	Recent	RT-PCR
Kings	Kings MAD	Hanford	93230	American Robin	7/22/2011	WNV	Chronic	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Whittier	90605	American Crow	7/20/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	La Mirada	90638	American Crow	7/15/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Cerritos	90703	American Crow	7/17/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Cerritos	90703	American Crow	7/19/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Cerritos	90703	American Crow	7/19/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Cerritos	90703	American Crow	7/19/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - SFS	Long Beach	90815	American Crow	7/20/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Encino	91316	American Crow	7/22/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Northridge	91324	American Crow	7/23/2011	WNV	Recent	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Sylmar	91342	American Crow	7/26/2011	WNV	Chronic	RT-PCR
Los Angeles	Greater LA Co VCD - Sylmar	Van Nuys	91405	American Crow	7/25/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Los Angeles	90034	American Crow	7/19/2011	WNV	Chronic	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Downey	90240	Western Scrub-Jay	7/19/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Chatsworth	91311	American Crow	7/17/2011	WNV	Recent	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	Panorama City	91402	Cooper's Hawk	7/17/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	7/5/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	7/15/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	7/17/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	Western Scrub-Jay	7/18/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	7/19/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Western Scrub-Jay	7/13/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Cooper's Hawk	7/15/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Northern Mockingbird	7/26/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	Western Scrub-Jay	7/6/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	Yellow-billed Magpie	7/13/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	7/18/2011	WNV	Recent	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	American Crow	7/19/2011	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	7/19/2011	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93277	American Crow	7/19/2011	WNV	Recent	RT-PCR
Tulare	Delta VCD	Visalia	93291	American Crow	7/21/2011	WNV	Recent	RT-PCR

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Mosquitoes

County	Site Code	Pool #	Species	# in Pool	City	Collected	Virus	Method
Fresno	CNSL1002	666	Cx. quinquefasciatus	50	Fresno	7/28/2011	WNV	RTPCR
Fresno	CNSL1774	653	Cx. quinquefasciatus	44	Clovis	7/27/2011	WNV	RTPCR
Fresno	CNSL3172	554	Cx. quinquefasciatus	50	Orange Cove	7/27/2011	WNV	RTPCR
Fresno	CNSL4092	564	Cx. quinquefasciatus	32	Fowler	7/29/2011	WNV	RTPCR
Fresno	FRNO0014	40	Cx. quinquefasciatus	50	Fresno	8/3/2011	WNV	RTPCR
Fresno	FRNO0014	41	Cx. quinquefasciatus	50	Fresno	8/3/2011	WNV	RTPCR
Fresno	FRNO0014	42	Cx. quinquefasciatus	50	Fresno	8/3/2011	WNV	RTPCR
Fresno	FRNO0028	37	Cx. quinquefasciatus	50	Fresno	8/3/2011	WNV	RTPCR
Fresno	FRNO0028	38	Cx. quinquefasciatus	50	Fresno	8/3/2011	WNV	RTPCR
Fresno	FRNO0028	39	Cx. quinquefasciatus	50	Fresno	8/3/2011	WNV	RTPCR
Fresno	FRNO0039	44	Cx. quinquefasciatus	50	Fresno	8/3/2011	WNV	RTPCR
Kern	KERN0121	1405	Cx. quinquefasciatus	50	Bakersfield	7/29/2011	WNV	RTPCR
Kern	KERN0121	1406	Cx. quinquefasciatus	50	Bakersfield	7/29/2011	WNV	RTPCR
Kern	KERN0121	1407	Cx. quinquefasciatus	20	Bakersfield	7/29/2011	WNV	RTPCR
Kern	KERN0156	1336	Cx. tarsalis	16	Butttonwillow	7/26/2011	WNV	RTPCR
Kern	KERN2002	1397	Cx. quinquefasciatus	50	Bakersfield	7/29/2011	WNV	RTPCR
Kern	KERN2007	1409	Cx. quinquefasciatus	41	Bakersfield	7/29/2011	WNV	RTPCR
Kern	KERN2010	1394	Cx. quinquefasciatus	50	Bakersfield	7/29/2011	WNV	RTPCR
Kern	KERN2020	1393	Cx. quinquefasciatus	27	Bakersfield	7/29/2011	WNV	RTPCR
Kern	KERN2022	1373	Cx. quinquefasciatus	20	Shafter	7/28/2011	WNV	RTPCR
Kern	KERN2028	1401	Cx. quinquefasciatus	50	Bakersfield	7/29/2011	WNV	RTPCR
Kern	KERN2030	1355	Cx. quinquefasciatus	40	Bakersfield	7/27/2011	WNV	RTPCR
Kern	KERN2031	1391	Cx. quinquefasciatus	31	Bakersfield	7/29/2011	WNV	RTPCR
Kern	KERN0028	1346	Cx. tarsalis	13	Bakersfield	7/27/2011	WNV	RTPCR
Kern	KERN3004	1340	Cx. tarsalis	35	Bakersfield	7/27/2011	WNV	RTPCR
Kern	KERN3004	1341	Cx. quinquefasciatus	50	Bakersfield	7/27/2011	WNV	RTPCR
Kern	KERN3017	1339	Cx. quinquefasciatus	28	Bakersfield	7/27/2011	WNV	RTPCR
Kern	KERN3035	1412	Cx. quinquefasciatus	21	Bakersfield	7/29/2011	WNV	RTPCR
Kern	KERN3041	1308	Cx. quinquefasciatus	15	Bakersfield	7/26/2011	WNV	RTPCR
Kern	KERN0031	1378	Cx. tarsalis	50	Arvin	7/28/2011	WNV	RTPCR
Kern	KERN0031	1379	Cx. tarsalis	16	Arvin	7/28/2011	WNV	RTPCR
Kern	KERN0033	1376	Cx. tarsalis	34	Arvin	7/28/2011	WNV	RTPCR
Kern	KERN0033	1377	Cx. quinquefasciatus	50	Arvin	7/28/2011	WNV	RTPCR
Kern	KERN0083	1380	Cx. tarsalis	50	Arvin	7/28/2011	WNV	RTPCR
Kern	KERN0083	1381	Cx. tarsalis	50	Arvin	7/28/2011	WNV	RTPCR
Kern	KERN0083	1383	Cx. tarsalis	30	Arvin	7/28/2011	WNV	RTPCR
Kern	WEST6231	31	Cx. quinquefasciatus	50	Taft	8/3/2011	WNV	RTPCR
Kern	WEST6236	28	Cx. tarsalis	50	Tupman	8/3/2011	WNV	RTPCR
Kings	KNGS3018	355	Cx. pipiens	50	Lemoore	7/26/2011	WNV	RTPCR
Kings	KNGS3036	383	Cx. tarsalis	50	Hanford	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2097	1089	Cx. quinquefasciatus	43	La Mirada	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2100	1083	Cx. quinquefasciatus	50	Norwalk	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2100	1084	Cx. quinquefasciatus	50	Norwalk	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2100	1086	Cx. stigmatosoma	13	Norwalk	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2221	1093	Cx. quinquefasciatus	50	Rowland Heights	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2228	1095	Cx. quinquefasciatus	44	Rowland Heights	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2228	1097	Cx. stigmatosoma	11	Rowland Heights	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2247	1098	Cx. quinquefasciatus	50	Pico Rivera	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2247	1099	Cx. quinquefasciatus	50	Pico Rivera	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2247	1100	Cx. quinquefasciatus	50	Pico Rivera	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2247	1101	Cx. quinquefasciatus	25	Pico Rivera	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2268	1067	Cx. quinquefasciatus	41	Cerritos	7/27/2011	WNV	RTPCR
Los Angeles	GRLA2414	6037	Cx. quinquefasciatus	50	Granada Hills	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2416	6036	Cx. quinquefasciatus	36	Panorama City	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2419	6021	Cx. quinquefasciatus	50	Panorama City	7/27/2011	WNV	RTPCR
Los Angeles	GRLA2419	6022	Cx. quinquefasciatus	39	Panorama City	7/27/2011	WNV	RTPCR

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Los Angeles	GRLA2421	6019	Cx. quinquefasciatus	33	Panorama City	7/27/2011	WNV	RTPCR
Los Angeles	GRLA2540	6038	Cx. quinquefasciatus	50	Northridge	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2540	6039	Cx. quinquefasciatus	50	Northridge	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2554	6040	Cx. quinquefasciatus	50	Winnetka	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2554	6041	Cx. quinquefasciatus	50	Winnetka	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2554	6046	Cx. quinquefasciatus	26	Winnetka	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2583	6029	Cx. quinquefasciatus	50	Studio City	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2583	6030	Cx. quinquefasciatus	50	Studio City	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2583	6031	Cx. quinquefasciatus	29	Studio City	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2592	6012	Cx. quinquefasciatus	50	San Marino	7/26/2011	WNV	RTPCR
Los Angeles	GRLA2655	6032	Cx. quinquefasciatus	50	Encino	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2655	6034	Cx. quinquefasciatus	34	Encino	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2655	6044	Cx. quinquefasciatus	50	Encino	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2936	6006	Cx. quinquefasciatus	24	Burbank	7/26/2011	WNV	RTPCR
Los Angeles	GRLA2955	1087	Cx. quinquefasciatus	50	Cerritos	7/28/2011	WNV	RTPCR
Los Angeles	GRLA2995	6042	Cx. quinquefasciatus	50	Woodland Hills	7/28/2011	WNV	RTPCR
Los Angeles	SGVA0000	112	Cx. quinquefasciatus	10	West Covina	7/26/2011	WNV	RAMP
Placer	PLCR1113	661	Cx. tarsalis	50	Pleasant Grove	8/2/2011	WNV	RTPCR
Placer	PLCR0025	642	Cx. tarsalis	50	Lincoln	8/2/2011	WNV	RTPCR
Sacramento	SAYO232022	2716	Cx. pipiens	6	Elk Grove	7/29/2011	WNV	RTPCR
Sacramento	SAYO233008	2731	Cx. pipiens	6	Sacramento	7/29/2011	WNV	RTPCR
Sacramento	SAYO233009	2872	Cx. pipiens	44	Elk Grove	8/2/2011	WNV	RTPCR
Sacramento	SAYO233039	2789	Cx. tarsalis	6	Elk Grove	7/29/2011	WNV	RTPCR
Sacramento	SAYO233039	2790	Cx. pipiens	3	Elk Grove	7/29/2011	WNV	RTPCR
Sacramento	SAYO233043	2774	Cx. tarsalis	50	Elk Grove	7/29/2011	WNV	RTPCR
Sacramento	SAYO233043	2775	Cx. tarsalis	16	Elk Grove	7/29/2011	WNV	RTPCR
Sacramento	SAYO233043	2777	Cx. pipiens	2	Elk Grove	7/29/2011	WNV	RTPCR
Sacramento	SAYO233064	2778	Cx. tarsalis	50	Sacramento	7/29/2011	WNV	RTPCR
Sacramento	SAYO233064	2779	Cx. tarsalis	14	Sacramento	7/29/2011	WNV	RTPCR
Sacramento	SAYO233064	2780	Cx. pipiens	50	Sacramento	7/29/2011	WNV	RTPCR
Sacramento	SAYO233064	2781	Cx. pipiens	11	Sacramento	7/29/2011	WNV	RTPCR
Sacramento	SAYO234003	2726	Cx. tarsalis	2	Wilton	7/29/2011	WNV	RTPCR
Sacramento	SAYO234003	2727	Cx. pipiens	6	Wilton	7/29/2011	WNV	RTPCR
Sacramento	SAYO234003	2728	Cx. pipiens	12	Wilton	7/29/2011	WNV	RTPCR
Sacramento	SAYO234016	2773	Cx. stigmatosoma	5	Wilton	7/29/2011	WNV	RTPCR
Sacramento	SAYO235012	2794	Cx. tarsalis	1	Wilton	7/29/2011	WNV	RTPCR
Sacramento	SAYO244002	2732	Cx. tarsalis	24	Galt	7/29/2011	WNV	RTPCR
Sacramento	SAYO244002	2734	Cx. pipiens	1	Galt	7/29/2011	WNV	RTPCR
Sacramento	SAYO244006	2756	Cx. tarsalis	27	Wilton	7/29/2011	WNV	RTPCR
Sacramento	SAYO244006	2758	Cx. pipiens	41	Wilton	7/29/2011	WNV	RTPCR
Stanislaus	TRLK304	357	Cx. pipiens	50	Grayson	8/2/2011	WNV	RTPCR
Sutter	SUYA0031	163	Cx. tarsalis	50	Rio Oso	8/2/2011	WNV	RTPCR
Sutter	SUYA0031	164	Cx. tarsalis	50	Rio Oso	8/2/2011	WNV	RTPCR
Sutter	SUYA0044	161	Cx. tarsalis	50	Pleasant Grove	8/2/2011	WNV	RTPCR
Tulare	DLTA6407	251	Cx. quinquefasciatus	28	Dinuba	7/27/2011	WNV	RTPCR
Tulare	DLTA6408	255	Cx. quinquefasciatus	28	Dinuba	7/27/2011	WNV	RTPCR
Tulare	DLTA6416	307	Cx. quinquefasciatus	30	Dinuba	8/2/2011	WNV	RTPCR
Tulare	DLTA6416	309	Cx. quinquefasciatus	39	Dinuba	8/2/2011	WNV	RTPCR
Tulare	DLTA6416	310	Cx. quinquefasciatus	31	Dinuba	8/2/2011	WNV	RTPCR
Tulare	DLTA6417	264	Cx. quinquefasciatus	24	Dinuba	7/29/2011	WNV	RTPCR
Tulare	DLTA7625	303	Cx. quinquefasciatus	34	Woodlake	8/2/2011	WNV	RTPCR
Tulare	DLTA8411	267	Cx. quinquefasciatus	50	Visalia	7/29/2011	WNV	RTPCR
Tulare	DLTA8413	270	Cx. tarsalis	50	Visalia	7/29/2011	WNV	RTPCR
Tulare	DLTA8413	271	Cx. tarsalis	50	Visalia	7/29/2011	WNV	RTPCR
Tulare	DLTA8413	272	Cx. quinquefasciatus	50	Visalia	7/29/2011	WNV	RTPCR
Tulare	DLTA8413	274	Cx. quinquefasciatus	50	Visalia	7/29/2011	WNV	RTPCR
Tulare	DLTA8414	277	Cx. tarsalis	38	Visalia	7/29/2011	WNV	RTPCR
Tulare	DLTA8414	282	Cx. tarsalis	42	Visalia	7/29/2011	WNV	RTPCR
Tulare	DLTA8414	289	Cx. tarsalis	50	Visalia	7/29/2011	WNV	RTPCR
Tulare	DLTA8414	291	Cx. quinquefasciatus	50	Visalia	7/29/2011	WNV	RTPCR

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Tulare	DLTA8414	293	Cx. quinquefasciatus	50	Visalia	7/29/2011	WNV	RTPCR
Tulare	DLTA8414	295	Cx. quinquefasciatus	50	Visalia	7/29/2011	WNV	RTPCR
Tulare	DLTA8414	298	Cx. quinquefasciatus	50	Visalia	7/29/2011	WNV	RTPCR
Tulare	DLTA8414	301	Cx. quinquefasciatus	50	Visalia	7/29/2011	WNV	RTPCR
Tulare	DLTA8425	261	Cx. quinquefasciatus	30	Visalia	7/29/2011	WNV	RTPCR
Tulare	DLTA9403	320	Cx. quinquefasciatus	17	Visalia	8/3/2011	WNV	RTPCR
Tulare	DLTA9403	321	Cx. quinquefasciatus	17	Visalia	8/3/2011	WNV	RTPCR

Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Kern	WEST6203	Hwy 119 & Hwy 43	7/26/2011	WNV	3248	3254			
Los Angeles	GRLA0223	Rowland Heights	7/26/2011	WNV	1521	1527	1528		
Los Angeles	GRLA2651	Encino	7/25/2011	WNV	1566				
San Bernardino	SANB0001	Needles	7/27/2011	WNV	2500	2502	2510		
San Bernardino	SANB0011	Rialto	7/25/2011	WNV	2602				
San Bernardino	SANB0024	Needles	7/27/2011	WNV	2608	2609	2610	2612	2613

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.

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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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