

California Arbovirus Surveillance Bulletin # 30

Week 35 Tuesday, September 8, 2009

Weekly Summary

WEEKLY COMMENTS



As of September 4, 2009, 40 counties have reported West Nile virus (WNV) activity. At this time last year, 39 counties had reported WNV activity.

Humans

Seven new cases of West Nile virus were reported last week from the following 3 counties: Fresno (2), Kern (4), and Stanislaus (1). In 2009, 26 human cases of WNV have been identified in 8 counties: Contra Costa (1), Fresno (5), Kern (8), Kings (1), Los Angeles (5), Orange (1), San Diego (2) and Stanislaus (3). Of the 26 individuals, 12 (46%) developed neuroinvasive symptoms. The median age of the 26 individuals is 52 years (range: 15-76 years), and 18 (69%) are male. None of the cases have resulted in fatalities. In addition, 12 WNV-positive blood donation samples have been reported this year; 3 of the individuals developed symptoms and were reclassified as cases. At this time last year, 127 human cases had been reported from 14 counties.

Horses

Last week, a horse from Solano County tested positive for WNV infection. This is the first equine case of WNV reported from Solano County this year. In 2009, 5 equine WNV cases have been reported from 4 counties; 2 of the cases were euthanized as a result of their illness. At this time last year, 6 equine WNV cases had been reported from 5 counties.

Dead Birds & Tree Squirrels

Last week, 31 WNV positive dead birds were reported from the following 14 counties: Alameda (1), Butte (3), Contra Costa (4), El Dorado (1), Glenn (1), Los Angeles (2), Madera (1), Merced (1), Monterey (1), Sacramento (2), San Diego (5), San Joaquin (2), Stanislaus (4), and Yolo (3). This is the first detection of WNV activity in Glenn County this year. In 2009, 385 birds from 34 counties have tested positive for WNV. At this time last year, 1,456 WNV positive dead birds had been reported from 36 counties.

Two WNV positive tree squirrels were reported last week from Contra Costa and Kern counties; these are the first WNV positive tree squirrels reported this year from both counties. In 2009, 6 tree squirrels from 6 counties have tested positive for WNV. At this time last year, 11 WNV positive tree squirrels had been reported from 4 counties.

Mosquito Pools

Last week, 101 WNV positive mosquito pools were reported from the following 17 counties: Alameda (1), Fresno (7), Kern (13), Kings (14), Los Angeles (1), Merced (3), Orange (3), Placer (7), Riverside (8), Sacramento (7), San Bernardino (4), San Diego (2), Stanislaus (15), Sutter (2), Tulare (6), Yolo (7), and Yuba (1). These are the first WNV positive pools detected in Alameda, Merced, and Yuba counties this year, and this is the first indication of WNV activity in Yuba County in 2009. In 2009, 845 mosquito pools have tested positive for WNV from 27 counties. At this time last year, 1,405 WNV positive mosquito pools had been reported from 24 counties.

Sentinel Chickens

Last week, 32 WNV seroconversions were reported from the following 8 counties: Contra Costa (2), Fresno (1), Kern (1), Los Angeles (2), Merced (1), Riverside (11), San Joaquin (8), and Tulare (6). This is the first WNV positive chicken detected in Fresno County this year. In 2009, 171 chickens from 18 counties have tested positive for WNV antibodies. At this time last year, 134 WNV seroconversions had been reported from 13 counties.

Website Information: For updated information on WNV in California, please visit the California WNV website, www.westnile.ca.gov, or the California Vectorborne Disease Surveillance System website, www.calsurv.org. For national information on WNV and other arboviruses, please visit the CDC website, www.cdc.gov, and the USGS website, www.westnilemaps.usgs.gov.

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YTD WNV Activity by Element and County, 2009

County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			9	1		
Butte			11	4	8	
Colusa			2			
Contra Costa	1	1	26	17	4	1
El Dorado			6			
Glenn			1			
Fresno	5		58	115	1	1
Imperial				2	31	
Kern	8		27	119	40	1
Kings	1		9	96		
Lake			2	2		
Los Angeles	5		57	54	23	
Madera			11	2		
Merced			4	3	5	
Modoc			1			
Mono				1		
Monterey			3			
Napa					1	
Orange	1		6	7		
Placer			3	30		
Riverside			1	20	14	
Sacramento			17	29	2	
San Bernardino			11	31	5	1
San Diego	2		26	4	4	
San Francisco			1			
San Joaquin		2	21	63	9	
San Mateo			1			
Santa Barbara			1			
Santa Clara			10	14		1
Santa Cruz			1			
Shasta			6	1		
Solano		1	2	2	1	
Stanislaus	3	1	22	73	3	
Sutter				23	3	
Tehama						1
Tulare			22	118	15	
Tuolumne			1			
Ventura			2			
Yolo			4	13	2	
Yuba				1		
Total	26	5	385	845	171	6

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2009 & 2008 YTD West Nile Virus Comparisons		
	2008	2009
Total # Dead Bird Reports	24,693	12,791
# Positive Counties	39	40
# Human Cases / # Tested	127 / 665	26 / 683
# Horse Cases / # Tested	6 / 161	5 / 146
# Positive Dead Birds / # Tested	1,456 / 4,154	385 / 2,207
# Positive Mosquito Pools / # Tested	1,405 / 21,982	845 / 19,463
# Positive Chicken Sera / # Tested	134 / 20,419	171 / 17,984
# Positive Squirrels / # Tested	11 / 119	6 / 75

TEST SUMMARIES

Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested*	Week	29	0	7	0	0	0	0	0	0
	YTD	683	1	25	0	0	0	0	0	0
Horses Tested	Week	11	0	1	0	0	0	0	0	0
	YTD	146	0	5	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	93	31
	YTD	2,207	385
Tree Squirrels	Week	6	2
	YTD	75	6

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	SLE Positive	WEE Positive
Chicken Sera	Week	852	32	0	0
	YTD	17,984	171	0	0
Mosquito Pools: RT-PCR	Week	1,059	100	0	0
	YTD	18,839	797	0	0
Mosquito Pools: RAMP	Week	24	1	N/A	N/A
	YTD	624	48	N/A	N/A

POSITIVES

Dead Birds & Tree Squirrels

County	Submitting Agency	City	Zip	Species	Reported	Tested	Virus	Method
Alameda	Alameda Co MAD	Livermore	94550	American Crow	8/19/09	8/31/09	WNV	RT-PCR
Butte	Butte Co MVCD	Chico	95926	American Crow	8/19/09	8/31/09	WNV	RT-PCR
Butte	Butte Co MVCD	Durham	95938	Yellow-billed Magpie	8/25/09	8/31/09	WNV	RT-PCR
Butte	Butte Co MVCD	Oroville	95966	American Crow	8/24/09	8/31/09	WNV	RT-PCR
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/27/09	8/27/09	WNV	RAMP
Contra Costa	Contra Costa MVCD	Discovery Bay	94505	American Crow	8/28/09	8/31/09	WNV	RAMP

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Contra Costa	Contra Costa MVCD	Oakley	94561	American Crow	9/1/09	9/2/09	WNV	RAMP
Contra Costa	Contra Costa MVCD	Walnut Creek	94596	American Crow	9/1/09	9/2/09	WNV	RAMP
Contra Costa	Contra Costa MVCD	Walnut Creek	94597	Unknown - Squirrel	9/19/2009	8/31/2009	WNV	RT-PCR
El Dorado	El Dorado Co Env Mgmt	El Dorado Hills	95762	Western Scrub-Jay	8/25/09	8/31/09	WNV	RT-PCR
Glenn	Glenn Co MVCD	Orland	95963	Yellow-billed Magpie	8/24/09	8/31/09	WNV	RT-PCR
Kern	Kern MVCD	Bakersfield	93312	Fox Squirrel	8/18/2009	8/31/2009	WNV	RT-PCR
Los Angeles	Los Angeles Co Veterinarian	North Hills	91343	American Crow	8/26/09	8/31/09	WNV	RT-PCR
Los Angeles	Los Angeles Co West VCD	Inglewood	90305	American Crow	8/23/09	8/31/09	WNV	RT-PCR
Madera	Madera Co MVCD	Madera	93637	Western Scrub-Jay	8/26/09	8/31/09	WNV	RT-PCR
Merced	Merced Co MAD	Atwater	95301	Yellow-billed Magpie	8/19/09	8/31/09	WNV	RT-PCR
Monterey	Northern Salinas Valley MAD	Salinas	93906	Mourning Dove	8/26/09	8/31/09	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	8/20/09	8/31/09	WNV	RT-PCR
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	American Crow	8/23/09	8/31/09	WNV	RT-PCR
San Diego	San Diego Co Dept EH	Escondido	92027	American Crow	8/28/09	8/28/09	WNV	RT-PCR
San Diego	San Diego Co Dept EH	Rainbow	92028	American Crow	8/28/09	8/28/09	WNV	RT-PCR
San Diego	San Diego Co VCP	Escondido	92027	American Crow	8/25/09	8/26/09	WNV	RT-PCR
San Diego	San Diego Co VCP	Poway	92064	Red-shouldered Hawk	8/25/09	8/26/09	WNV	RT-PCR
San Diego	San Diego Co VCP	Valley Center	92082	American Crow	8/24/09	8/26/09	WNV	RT-PCR
San Joaquin	San Joaquin Co MVCD	Lathrop	95330	Western Scrub-Jay	8/20/09	8/31/09	WNV	RT-PCR
San Joaquin	San Joaquin Co MVCD	Stockton	95210	House Sparrow	8/18/09	8/31/09	WNV	RT-PCR
Stanislaus	East Side MAD	Modesto	95356	Yellow-billed Magpie	8/20/09	8/31/09	WNV	RT-PCR
Stanislaus	East Side MAD	Modesto	95356	Western Scrub-Jay	8/25/09	8/31/09	WNV	RT-PCR
Stanislaus	East Side MAD	Modesto	95351	House Finch	8/24/09	8/31/09	WNV	RT-PCR
Stanislaus	Turlock MAD	Turlock	95380	Western Scrub-Jay	8/19/09	8/31/09	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95616	Yellow-billed Magpie	8/20/09	8/31/09	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/20/09	8/31/09	WNV	RT-PCR
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	American Crow	8/19/09	8/31/09	WNV	RT-PCR

Mosquitoes

County	Site Code	Pool #	Species	# in Pool	Collected	Tested	City	Virus	Method
Alameda	ALCO0001	146	Cx tarsalis	46	8/27/2009	9/1/2009	Mountain House	WNV	RTPCR
Fresno	CNSL3056	670	Cx stigmatosoma	28	8/27/2009	9/2/2009	Reedley	WNV	RTPCR
Fresno	CNSL3056	671	Cx quinquefasciatus	45	8/27/2009	9/2/2009	Reedley	WNV	RTPCR
Fresno	CNSL3193	668	Cx tarsalis	17	8/26/2009	9/2/2009	Reedley	WNV	RTPCR
Fresno	CNSL3193	669	Cx quinquefasciatus	50	8/26/2009	9/2/2009	Reedley	WNV	RTPCR
Fresno	CNSL3272	672	Cx quinquefasciatus	50	8/27/2009	9/2/2009	Reedley	WNV	RTPCR
Fresno	FRNO0044	42	Cx tarsalis	22	8/27/2009	9/3/2009	Fresno	WNV	RTPCR
Fresno	FRWS4102	181	Cx tarsalis	37	9/1/2009	9/2/2009	Kerman	WNV	RTPCR
Kern	AFSB0121	5166	Cx quinquefasciatus	8	8/26/2009	9/1/2009	Bakersfield	WNV	RTPCR
Kern	KERN0015	485	Cx quinquefasciatus	50	8/25/2009	9/1/2009	Pumpkin Center	WNV	RTPCR
Kern	KERN0029	498	Cx quinquefasciatus	50	8/26/2009	9/1/2009	Lamont	WNV	RTPCR
Kern	KERN0029	499	Cx tarsalis	50	8/26/2009	9/1/2009	Lamont	WNV	RTPCR
Kern	KERN0029	500	Cx tarsalis	50	8/26/2009	9/1/2009	Lamont	WNV	RTPCR
Kern	KERN0038	511	Cx tarsalis	50	8/28/2009	9/1/2009	Shafter	WNV	RTPCR
Kern	KERN0045	507	Cx quinquefasciatus	33	8/28/2009	9/1/2009	Buttonwillow	WNV	RTPCR
Kern	KERN0046	509	Cx tarsalis	14	8/28/2009	9/1/2009	Wasco	WNV	RTPCR
Kern	KERN0050	503	Cx tarsalis	20	8/27/2009	9/1/2009	Bakersfield	WNV	RTPCR

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Kern	KERN0083	494	Cx tarsalis	45	8/26/2009	9/1/2009	Arvin	WNV	RTPCR
Kern	KERN2041	464	Cx quinquefasciatus	10	8/20/2009	8/31/2009	Arvin	WNV	RTPCR
Kern	KERN2043	450	Cx quinquefasciatus	11	8/18/2009	8/31/2009	Bakersfield	WNV	RTPCR
Kern	KERN3014	504	Cx tarsalis	30	8/28/2009	9/1/2009	Bakersfield	WNV	RTPCR
Kings	KNGS3005	399	Cx tarsalis	50	9/1/2009	9/3/2009	Lemoore NAS	WNV	RTPCR
Kings	KNGS3005	401	Cx tarsalis	50	9/1/2009	9/3/2009	Lemoore NAS	WNV	RTPCR
Kings	KNGS3005	404	Cx erythrothorax	43	9/1/2009	9/3/2009	Lemoore NAS	WNV	RTPCR
Kings	KNGS3022	381	Cx tarsalis	50	9/1/2009	9/3/2009	Hanford	WNV	RTPCR
Kings	KNGS3022	383	Cx tarsalis	50	9/1/2009	9/3/2009	Hanford	WNV	RTPCR
Kings	KNGS3030	373	Cx tarsalis	50	8/28/2009	9/3/2009	Lemoore	WNV	RTPCR
Kings	KNGS3030	390	Cx tarsalis	50	9/1/2009	9/3/2009	Lemoore	WNV	RTPCR
Kings	KNGS3030	391	Cx tarsalis	50	9/1/2009	9/3/2009	Lemoore	WNV	RTPCR
Kings	KNGS3030	392	Cx tarsalis	50	9/1/2009	9/3/2009	Lemoore	WNV	RTPCR
Kings	KNGS3030	393	Cx tarsalis	50	9/1/2009	9/3/2009	Lemoore	WNV	RTPCR
Kings	KNGS3030	395	Cx tarsalis	50	9/1/2009	9/3/2009	Lemoore	WNV	RTPCR
Kings	KNGS3030	398	Cx erythrothorax	34	9/1/2009	9/3/2009	Lemoore	WNV	RTPCR
Kings	KNGS3039	425	Cx tarsalis	50	9/2/2009	9/3/2009	Lemoore	WNV	RTPCR
Kings	KNGS4003	432	Cx tarsalis	50	9/2/2009	9/3/2009	Hanford	WNV	RTPCR
Los Angeles	ANTV5669	29	Cx quinquefasciatus	41	9/1/2009	9/2/2009	Palmdale	WNV	RTPCR
Merced	MERC0402	116	Cx pipiens	31	8/26/2009	9/1/2009	Hilmar	WNV	RTPCR
Merced	MERC0403	114	Cx pipiens	21	8/26/2009	9/1/2009	Hilmar	WNV	RTPCR
Merced	MERC0914	126	Cx pipiens	50	8/28/2009	9/4/2009	Atwater	WNV	RTPCR
Orange	ORCO0018	1079	Cx quinquefasciatus	21	40052	40054	Lake Forest	WNV	RTPCR
Orange	ORCO0030	1078	Cx quinquefasciatus	12	40052	40054	La Habra	WNV	RTPCR
Orange	ORCO0082	1047	Cx quinquefasciatus	19	8/20/2009	8/21/2009	Cypress	WNV	RTPCR
Placer	PLCR0017	685	Cx tarsalis	50	8/27/2009	9/2/2009	Sheridan	WNV	RTPCR
Placer	PLCR0017	686	Cx tarsalis	33	8/27/2009	9/2/2009	Sheridan	WNV	RTPCR
Placer	PLCR0025	688	Cx tarsalis	50	8/27/2009	9/2/2009	Lincoln	WNV	RTPCR
Placer	PLCR0025	692	Cx pipiens	10	8/27/2009	9/2/2009	Lincoln	WNV	RTPCR
Placer	PLCR0032	751	Cx pipiens	50	9/1/2009	9/3/2009	Lincoln	WNV	RTPCR
Placer	PLCR0032	754	Cx tarsalis	10	9/1/2009	9/3/2009	Lincoln	WNV	RTPCR
Placer	PLCR1113	699	Cx tarsalis	45	8/27/2009	9/2/2009	Pleasant Grove	WNV	RTPCR
Riverside	COAV0010	1499	Cx tarsalis	50	9/1/2009	9/2/2009	Thermal	WNV	RTPCR
Riverside	COAV0034	1511	Cx tarsalis	50	9/1/2009	9/2/2009	Mecca	WNV	RTPCR
Riverside	COAV0035	1515	Cx tarsalis	50	9/1/2009	9/2/2009	Mecca	WNV	RTPCR
Riverside	COAV0037	1520	Cx tarsalis	50	9/1/2009	9/2/2009	Mecca	WNV	RTPCR
Riverside	COAV0045	1523	Cx tarsalis	50	9/1/2009	9/2/2009	Mecca	WNV	RTPCR
Riverside	COAV0048	1528	Cx tarsalis	50	9/1/2009	9/2/2009	Mecca	WNV	RTPCR
Riverside	COAV0540	1509	Cx tarsalis	50	9/1/2009	9/2/2009	Mecca	WNV	RTPCR
Riverside	RIVR0082	443	Cx erythrothorax	42	8/26/2009	9/4/2009	Hemet	WNV	RTPCR
Sacramento	SAYO2108	3366	Cx pipiens	11	8/25/2009	8/31/2009	Elverta	WNV	RTPCR
Sacramento	SAYO2108	3470	Cx pipiens	41	8/27/2009	8/31/2009	Elverta	WNV	RTPCR
Sacramento	SAYO2108	3589	Cx tarsalis	51	9/1/2009	9/4/2009	Elverta	WNV	RTPCR
Sacramento	SAYO2315	3364	Cx pipiens	17	8/25/2009	8/31/2009	Isleton	WNV	RTPCR
Sacramento	SAYO2315	3365	Ae vexans	11	8/25/2009	9/3/2009	Isleton	WNV	RTPCR
Sacramento	SAYO4253	3628	Cx tarsalis	46	9/1/2009	9/4/2009	Sacramento	WNV	RTPCR
Sacramento	SAYO7003	3407	Cx tarsalis	2	8/25/2009	9/3/2009	Folsom	WNV	RTPCR
San Bernardino	WVAL6002	806	Cx quinquefasciatus	50	8/18/2009	8/27/2009	Ontario	WNV	RTPCR
San Bernardino	WVAL6002	807	Cx quinquefasciatus	50	8/18/2009	8/27/2009	Ontario	WNV	RTPCR
San Bernardino	WVAL6005	787	Cx quinquefasciatus	33	8/18/2009	8/27/2009	Ontario	WNV	RTPCR
San Bernardino	WVAL6012	790	Cx quinquefasciatus	49	8/18/2009	8/27/2009	Ontario	WNV	RTPCR
San Diego	SAND0263	84	Cx quinquefasciatus	27	8/19/2009	9/2/2009	Escondido	WNV	RTPCR
San Diego	SAND0288	91	Cx quinquefasciatus	25	8/28/2009	9/2/2009	Escondido	WNV	RTPCR
Stanislaus	EAST1075	9207	Cx pipiens	25	9/1/2009	9/2/2009	Riverbank	WNV	RAMP
Stanislaus	TRLK0406	838	Cx pipiens	26	9/1/2009	9/2/2009	Turlock	WNV	RTPCR
Stanislaus	TRLK0407	815	Cx pipiens	50	9/1/2009	9/2/2009	Turlock	WNV	RTPCR
Stanislaus	TRLK0416	888	Cx pipiens	50	9/2/2009	9/3/2009	Turlock	WNV	RTPCR
Stanislaus	TRLK0416	895	Cx pipiens	50	9/2/2009	9/3/2009	Turlock	WNV	RTPCR
Stanislaus	TRLK0416	897	Cx pipiens	50	9/2/2009	9/3/2009	Turlock	WNV	RTPCR

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Stanislaus	TRLK0432	829	Cx pipiens	50	9/1/2009	9/2/2009	Turlock	WNV	RTPCR
Stanislaus	TRLK0432	831	Cx pipiens	50	9/1/2009	9/2/2009	Turlock	WNV	RTPCR
Stanislaus	TRLK0434	883	Cx pipiens	16	9/1/2009	9/2/2009	Ceres	WNV	RTPCR
Stanislaus	TRLK0504	840	Cx tarsalis	9	9/1/2009	9/2/2009	Denair	WNV	RTPCR
Stanislaus	TRLK0516	852	Cx pipiens	50	9/1/2009	9/2/2009	Denair	WNV	RTPCR
Stanislaus	TRLK0531	813	Cx pipiens	50	9/1/2009	9/2/2009	Turlock	WNV	RTPCR
Stanislaus	TRLK0609	862	Cx pipiens	50	9/1/2009	9/2/2009	Turlock	WNV	RTPCR
Stanislaus	TRLK0609	867	Cx pipiens	50	9/1/2009	9/2/2009	Turlock	WNV	RTPCR
Stanislaus	TRLK0613	875	Cx pipiens	50	9/1/2009	9/2/2009	Hickman	WNV	RTPCR
Sutter	SUYA0015	306	Cx pipiens	21	9/1/2009	9/3/2009	Robbins	WNV	RTPCR
Sutter	SUYA0044	304	Cx tarsalis	38	9/1/2009	9/3/2009	Pleasant Grove	WNV	RTPCR
Tulare	DLTA8501	782	Cx quinquefasciatus	28	8/28/2009	9/1/2009	Ivanhoe	WNV	RTPCR
Tulare	DLTA8511	774	Cx quinquefasciatus	39	8/28/2009	9/1/2009	Ivanhoe	WNV	RTPCR
Tulare	DLTA9512	767	Cx quinquefasciatus	43	8/27/2009	9/1/2009	Farmersville	WNV	RTPCR
Tulare	TLRE0027	64	Cx pipiens	49	10/2/2009	9/3/2009	Tulare	WNV	RTPCR
Tulare	TLRE0029	69	Cx pipiens	22	10/2/2009	9/3/2009	Tulare	WNV	RTPCR
Tulare	TLRE0030	71	Cx tarsalis	50	10/2/2009	9/3/2009	Tulare	WNV	RTPCR
Yolo	SAYO1106	3496	Cx tarsalis	50	8/27/2009	8/31/2009	Woodland	WNV	RTPCR
Yolo	SAYO3220	3403	Cx tarsalis	50	8/25/2009	8/31/2009	Yolo	WNV	RTPCR
Yolo	SAYO3220	3404	Cx tarsalis	50	8/25/2009	8/31/2009	Yolo	WNV	RTPCR
Yolo	SAYO3220	3405	Cx tarsalis	50	8/25/2009	9/3/2009	Yolo	WNV	RTPCR
Yolo	SAYO3220	3406	Cx tarsalis	50	8/25/2009	9/3/2009	Yolo	WNV	RTPCR
Yolo	SAYO6002	3382	Cx tarsalis	50	8/25/2009	8/31/2009	Woodland	WNV	RTPCR
Yolo	SAYO6002	3383	Cx tarsalis	50	8/25/2009	9/3/2009	Woodland	WNV	RTPCR
Yuba	SUYA0038	307	Cx tarsalis	50	9/1/2009	9/3/2009	Marysville	WNV	RTPCR

Sentinel Chickens

County	Site Code	Nearest City	Virus	Date Bled	Band 01	Band 02	Band 03	Band 04	Band 05	Band 06	Band 07	Band 08
Contra Costa	CNTR8152	Knightsen	WNV	8/17/2009	3005							
Contra Costa	CNTR8152	Knightsen	WNV	8/3/2009	3009							
Fresno	FRNO0012	Fresno	WNV	8/24/2009	3755							
Kern	DLNO0035		WNV	8/20/2009	2971							
Los Angeles	ANTV2667	Palmdale	WNV	8/26/2009	3414							
Los Angeles	SGVA0007		WNV	8/24/2009	1601							
Merced	MERC502	Hilmar	WNV	8/21/2009	2268							
Riverside	NWST0002	Glen Ivy Hot Spring	WNV	8/26/2009	2066	2071	2072					
Riverside	NWST0004	Flabob Airport	WNV	8/26/2009	2046	2049	2050					
Riverside	RIVR0002	Nuevo	WNV	8/26/2009	1950	1951	1952	1957	1959			
San Joaquin	SJCM9901	Lodi	WNV	8/24/2009	1556	1558	1559	1561	1562	1563	1564	1565
Tulare	DLTA6309	Reedley	WNV	8/24/2009	2920	2924	2925	2926	2929			
Tulare	DLTA8530	Visalia	WNV	8/24/2009	2942							

NATIONAL COMMENTS

As of September 1, 2009, 156 human cases had been reported nationwide in the following 25 states: Arizona (12), Arkansas (1), California (19), Colorado (14), Idaho (8), Indiana (1), Iowa (1), Kansas (4), Louisiana (10), Minnesota (1), Mississippi (26), Missouri (1), Montana (2), Nebraska (7), Nevada (12), New Mexico (3), New York (1), Ohio (1), Oklahoma (1), Pennsylvania (1), South Dakota (11), Tennessee (2), Texas (13), Washington (1), and Wyoming (3). Of the 156 individuals, 78 (50%) have neuroinvasive illness. There have been six fatalities in Idaho (1), Indiana (1), Mississippi (2), New Mexico (1) and Texas (1).

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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.

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