

California Arbovirus Surveillance Bulletin # 30

Week 37 Friday, September 14, 2007

Weekly and Year-To-Date Summaries

WEEKLY COMMENTS



Humans

Thirty-three new human cases of West Nile virus (WNV) were reported this week from the following 11 counties: Butte (5), Fresno (1), Kern (7), Kings (2), Los Angeles (5), Merced (1), Placer (2), Riverside (6), Shasta (2), Stanislaus (1), and Ventura (1). **These are the first human cases reported from Placer and Ventura counties this year.** A total of 231 WNV cases have been reported in 2007, for a statewide incidence of 0.68 cases per 100,000 people. Of the 231 cases reported, 134 (58%) are classified as West Nile fever, 88 (38%) are classified as neuroinvasive disease, and 9 (4%) are of unknown clinical presentation. The median age of all cases is 53 years (range: 2-96 years), and 122 cases (53%) are male. Thirteen WNV-related fatalities have been reported in 2007 from Colusa (1), Fresno (1), Kern (4), Kings (1), Los Angeles (1), Riverside (3), Sacramento (1), and San Joaquin (1) counties. Thirty-four WNV-positive blood donation samples have been reported this year; 16 of the individuals subsequently developed symptoms and were reclassified as cases.

Horses

Two new equine cases of WNV were reported this week from Placer and Shasta counties. **This is the first WNV-positive horse reported from Placer County this year.** In 2007, 21 horses from 12 counties have tested positive for WNV, of which nine were euthanized or died.

Dead Birds & Tree Squirrels

Eighty-three WNV-positive dead birds were reported this week from 22 counties: Alameda (1), Colusa (1), Contra Costa (3), El Dorado (1), Fresno (3), Glenn (1), Kern (4), Kings (2), Lake (1), Los Angeles (21), Madera (2), Merced (1), Sacramento (14), San Bernardino (4), San Joaquin (2), Santa Clara (3), Shasta (1), Siskiyou (1), Stanislaus (8), Tulare (4), Ventura (2), and Yolo (3). A total of 915 dead birds from 48 counties have tested positive for WNV this year.

Two tree squirrels from Fresno (1) and Santa Clara (1) counties tested positive for WNV this week. Thirteen squirrels from six counties have tested positive for WNV this year.

Reminder: Local agencies should check the Surveillance Gateway for their county DYCAST bird reporting updates.

Mosquito Pools

Seventy-two new WNV-positive mosquito pools were reported this week from 15 counties: Fresno (2), Kings (5), Lake (1), Los Angeles (15), Orange (4), Placer (2), Riverside (5), Sacramento (6), San Bernardino (1), San Joaquin (6), Sonoma (1), Stanislaus (17), Sutter (2), Tulare (3), and Yolo (2). **This is the first WNV-positive mosquito pool detected in Sonoma County this year.** A total of 891 mosquito pools from 29 counties have tested positive for WNV this year.

In 2007, 15 WEE-positive pools have been detected in Fresno (1) and Kern (14) counties.

Sentinel Chickens

Forty-two new WNV seroconversions were reported this week from 12 counties: Butte (7), Contra Costa (1), Kern (8), Kings (2), Los Angeles (4), Riverside (1), Sacramento (4), San Bernardino (1), San Joaquin (1), Stanislaus (8), Sutter (4), and Tulare (1) counties. A total of 273 sentinel chickens from 25 counties have tested positive for WNV this year.

No new WEE seroconversions were detected this week. Two chickens from Kern County have tested positive for WEE this year.

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, 2007

County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens	Squirrels
Alameda			8			
Amador			1	1		
Butte	16		27	5	25	
Calaveras			3			
Colusa	1		3	1	2	
Contra Costa			18	23	4	
El Dorado			3			
Fresno	11	1	99	56	30	4
Glenn	7		33	1	8	
Humboldt			2			
Imperial	3			4	16	
Inyo			1			
Kern	107	3	110	194	58	
Kings	5	1	5	30	10	
Lake			3	7	2	
Lassen			2			
Los Angeles	13		89	75	5	
Madera			5	7		
Mendocino	1		1			1
Merced	4		27	1	1	
Modoc			1			
Nevada			2			
Orange	3		9	8		
Placer	2	1	12	23	3	
Plumas			1			
Riverside	7		3	27	23	
Sacramento	13	2	96	128	14	1
San Bernardino	2		15	4	8	
San Diego	2	3	11	2	1	
San Francisco			1			
San Joaquin	4	1	32	139	9	1
San Luis Obispo		1	5			
San Mateo			1			1
Santa Barbara			1			
Santa Clara	2		55	9		5
Santa Cruz			4			
Shasta	6	3	42	16	2	
Siskiyou			3			
Solano	1		1		5	
Sonoma	1	2	1	1		
Stanislaus	12		114	72	17	
Sutter	2		1	23	14	
Tehama	4	1	18	2	7	
Trinity			1			
Tulare		2	19	21	2	
Tuolumne			1			
Ventura	1		5			
Yolo	1		19	9	3	
Yuba			1	2	4	
Totals	231	21	915	891	273	13

*Total does not include asymptomatic infections

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2007 & 2006 YTD West Nile Virus Comparisons		
	2007	2006
Total # Dead Bird Reports	26,031	38,779
# Positive Counties	49	52
# Human Cases/ # Tested	231 / 867	197 / 1,077
# Horse Cases/ # Tested	21 / 283	43 / 360
# Positive Dead Birds/ # Tested	915 / 4,337	1,006 / 4,566
# Positive Mosquito Pools/ # Tested	891 / 22,374	723 / 18,505
# Positive Chicken Sera/ # Tested	273 / 21,325	446 / 25,038
# Positive Squirrels/ # Tested	13 / 150	23 / 101

TEST SUMMARIES

Human & Horse Cases

		Number Tested	WNV		WEE		SLE		Other	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested	Week	53	0	33	0	0	0	0	0	0
	YTD	867	0	231	0	0	0	0	0	0
Horses Tested	Week	10	0	2	0	0	0	0	0	0
	YTD	283	0	21	0	0	0	0	0	0

Dead Birds & Tree Squirrels

		Number Tested	WNV Positive
Dead Birds	Week	161	83
	YTD	4,337	915
Tree Squirrels	Week	7	2
	YTD	150	13

Sentinel Chickens & Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive
Chicken Sera	Week	789	42	0	0
	YTD	21,325	273	2	0
Mosquito Pools: RT-PCR	Week	1,364	72	0	0
	YTD	20,481	727	15	0
Mosquito Pools: RAMP	Week	15	0	N/A	N/A
	YTD	1,893	164	N/A	N/A

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POSITIVES: 9/10/07-9/14/07

Dead Birds & Tree Squirrels

County	City	Zip Code	Species	Reported	Tested	Test Method
Alameda	Livermore	94550	American Crow	8/29/07	9/10/07	RT-PCR
Colusa	Colusa	95932	Yellow-billed Magpie	9/4/07	9/10/07	RT-PCR
Contra Costa	Antioch	94509	Western Scrub-Jay	9/5/07	9/10/2007	RAMP
Contra Costa	Oakley	94561	American Crow	9/7/07	9/10/2007	RAMP
Contra Costa	Orinda	94563	Steller's Jay	8/24/07	9/10/07	RT-PCR
El Dorado	El Dorado	95623	Rock Dove	8/31/07	9/10/07	RT-PCR
Fresno	Fresno	93725	European Starling	8/30/07	9/10/07	RT-PCR
Fresno	Fresno	93711	Fox Squirrel	8/30/07	9/11/07	RT-PCR
Fresno	Fresno	93711	Western Scrub-Jay	9/6/07	9/10/2007	VecTest
Fresno	Kerman	93630	American Crow	9/5/07	9/10/07	RT-PCR
Glenn	Willows	95988	American Crow	9/4/07	9/10/2007	VecTest
Kern	Bakersfield	93307	Northern Mockingbird	9/4/07	9/10/07	RT-PCR
Kern	Bakersfield	93304	House Sparrow	9/4/07	9/10/07	RT-PCR
Kern	Bakersfield	93309	American Crow	9/5/07	9/10/07	RT-PCR
Kern	Weldon	93283	Rufous Hummingbird	8/30/07	9/10/07	RT-PCR
Kings	Hanford	93230	American Crow	9/5/07	9/10/07	RT-PCR
Kings	Hanford	93230	Common Raven	9/5/07	9/10/07	RT-PCR
Lake	Kelseyville	95451	American Crow	9/5/07	9/10/2007	VecTest
Los Angeles	Chatsworth	91311	American Crow	8/29/07	9/10/07	RT-PCR
Los Angeles	Chatsworth	91311	American Crow	8/31/07	9/10/07	RT-PCR
Los Angeles	Chatsworth	91311	American Crow	8/31/07	9/10/07	RT-PCR
Los Angeles	Chatsworth	91311	American Crow	8/31/07	9/10/07	RT-PCR
Los Angeles	Encino	91316	American Crow	8/29/07	9/10/07	RT-PCR
Los Angeles	Granada Hills	91344	Golden-Crowned Sparrow	8/29/07	9/10/07	RT-PCR
Los Angeles	Hidden Hills	91302	American Crow	8/28/07	9/10/07	RT-PCR
Los Angeles	Lakewood	90712	American Crow	8/30/07	9/10/07	RT-PCR
Los Angeles	Lancaster	93534	Northern Mockingbird	8/29/07	9/10/07	RT-PCR
Los Angeles	Northridge	91324	American Crow	8/23/07	9/10/07	RT-PCR
Los Angeles	Northridge	91326	House Finch	8/28/07	9/10/07	RT-PCR
Los Angeles	Sherman Oaks	91423	Golden-Crowned Sparrow	8/30/07	9/10/07	RT-PCR
Los Angeles	Sherman Oaks	91423	American Crow	9/4/07	9/10/07	RT-PCR
Los Angeles	Sherman Oaks	91423	American Crow	9/4/07	9/10/07	RT-PCR
Los Angeles	Sun Valley	91352	American Crow	8/29/07	9/10/07	RT-PCR
Los Angeles	Sylmar	91342	Common Raven	8/28/07	9/10/07	RT-PCR
Los Angeles	Van Nuys	91405	American Crow	8/29/07	9/10/07	RT-PCR
Los Angeles	West Covina	91791	American Crow	8/27/07	9/10/07	RT-PCR
Los Angeles	West Covina	91791	American Crow	8/27/07	9/10/07	RT-PCR
Los Angeles	West Hills	91307	American Crow	8/30/07	9/10/07	RT-PCR
Los Angeles	Winnetka	91306	Golden-Crowned Sparrow	8/30/07	9/10/07	RT-PCR
Madera	Madera	93637	American Crow	8/31/07	9/10/07	RT-PCR
Madera	Madera	93638	American Crow	9/3/07	9/10/07	RT-PCR
Merced	Merced	95340	Western Scrub-Jay	8/31/07	9/10/07	RT-PCR
Sacramento	Carmichael	95608	American Crow	8/30/07	9/10/07	RT-PCR
Sacramento	Carmichael	95608	American Crow	9/3/07	9/10/07	RT-PCR
Sacramento	Elk Grove	95758	Western Scrub-Jay	8/29/07	9/10/07	RT-PCR
Sacramento	Elk Grove	95624	Western Scrub-Jay	8/31/07	9/10/07	RT-PCR

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Sacramento	Elk Grove	95758	Western Scrub-Jay	9/4/07	9/10/07	RT-PCR
Sacramento	Elk Grove	95624	American Crow	9/4/07	9/10/07	RT-PCR
Sacramento	Elk Grove	95758	Western Scrub-Jay	9/5/07	9/10/07	RT-PCR
Sacramento	Elverta	95626	American Crow	9/3/07	9/10/07	RT-PCR
Sacramento	Fair Oaks	95628	American Crow	9/4/07	9/10/07	RT-PCR
Sacramento	Sacramento	95827	American Crow	8/29/07	9/10/07	RT-PCR
Sacramento	Sacramento	95833	Western Scrub-Jay	8/29/07	9/10/07	RT-PCR
Sacramento	Sacramento	95864	American Crow	8/31/07	9/10/07	RT-PCR
Sacramento	Sacramento	95814	Western Scrub-Jay	8/30/07	9/10/07	RT-PCR
Sacramento	Sacramento	95819	Yellow-billed Magpie	9/5/07	9/10/07	RT-PCR
San Bernardino	Bloomington	92316	American Crow	9/5/07	9/10/2007	RAMP
San Bernardino	Colton	92324	American Crow	8/21/07	9/10/2007	RAMP
San Bernardino	Fontana	92335	American Crow	8/26/07	9/10/2007	RAMP
San Bernardino	Rialto	92377	American Crow	8/27/07	9/10/2007	RAMP
San Joaquin	Ripon	95366	Other	8/28/07	9/10/07	RT-PCR
San Joaquin	Tracy	95377	American Crow	9/5/07	9/10/2007	VecTest
Santa Clara	Campbell	95008	Eastern Gray Squirrel	9/5/07	9/11/07	RT-PCR
Santa Clara	San Jose	95129	American Crow	8/30/07	9/10/2007	VecTest
Santa Clara	San Jose	95129	American Crow	8/31/07	9/10/2007	VecTest
Santa Clara	San Jose	95124	American Crow	9/3/07	9/10/2007	VecTest
Shasta	Shingletown	96088	Western Scrub-Jay	9/5/07	9/10/2007	RAMP
Siskiyou	Yreka	96097	Western Scrub-Jay	8/28/07	9/10/07	RT-PCR
Stanislaus	Ceres	95307	Western Scrub-Jay	8/28/07	9/10/07	RT-PCR
Stanislaus	Keyes	95328	Yellow-billed Magpie	8/30/07	9/10/07	RT-PCR
Stanislaus	Modesto	95357	American Crow	9/5/07	9/10/07	RT-PCR
Stanislaus	Turlock	95380	Yellow-billed Magpie	8/28/07	9/10/07	RT-PCR
Stanislaus	Turlock	95380	Yellow-billed Magpie	8/28/07	9/10/07	RT-PCR
Stanislaus	Turlock	95382	Yellow-billed Magpie	8/30/07	9/10/07	RT-PCR
Stanislaus	Turlock	95380	Rosella	9/4/07	9/10/07	RT-PCR
Stanislaus	Turlock	95380	Yellow-billed Magpie	9/4/07	9/10/07	RT-PCR
Tulare	Exeter	93221	House Finch	9/5/07	9/10/07	RT-PCR
Tulare	Visalia	93291	House Finch	8/30/07	9/10/07	RT-PCR
Tulare	Visalia	93277	Western Scrub-Jay	9/5/07	9/10/07	RT-PCR
Tulare	Visalia	93277	American Crow	9/5/07	9/10/07	RT-PCR
Ventura	Thousand Oaks	91360	Western Scrub-Jay	9/5/07	9/10/07	RT-PCR
Ventura	Ventura	93004	House Sparrow	9/4/07	9/10/07	RT-PCR
Yolo	Davis	95618	American Crow	9/5/07	9/10/07	RT-PCR
Yolo	Davis	95616	Western Scrub-Jay	9/6/07	9/10/07	RT-PCR
Yolo	Woodland	95695	Yellow-billed Magpie	9/4/07	9/10/07	RT-PCR

Mosquito Pools

County	Site Code	Pool #	Species	# in Pool	Collected	Tested	City	Virus
Fresno	CNSL1435	197	Cx quinquefasciatus	26	9/6/2007	9/12/2007	Clovis	WNV
Fresno	CNSL6030	409	Cx quinquefasciatus	25	9/11/2007	9/12/2007	Riverdale	WNV
Kings	KNGS3018	224	Cx tarsalis	50	9/12/2007	9/13/2007	Lemoore	WNV
Kings	KNGS3030	217	Cx quinquefasciatus	50	9/12/2007	9/13/2007	Lemoore	WNV
Kings	KNGS3033	214	Cx quinquefasciatus	41	9/12/2007	9/13/2007	Hanford	WNV
Kings	KNGS4003	231	Cx quinquefasciatus	50	9/12/2007	9/14/2007	Hanford	WNV
Kings	KNGS9003	194	Cx tarsalis	50	9/7/2007	9/13/2007	Lemoore	WNV
Lake	LAKE2006	261	Cx tarsalis	11	9/8/2007	9/12/2007	Lower Lake	WNV

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Los Angeles	GRLA2219	812	Cx quinquefasciatus	50	9/6/2007	9/13/2007	Rowland Heights	WNV
Los Angeles	GRLA2230	811	Cx quinquefasciatus	9	9/6/2007	9/13/2007	Rowland Heights	WNV
Los Angeles	GRLA2528	5871	Cx quinquefasciatus	45	9/6/2007	9/12/2007	Los Angeles	WNV
Los Angeles	GRLA2636	5860	Cx quinquefasciatus	37	9/5/2007	9/12/2007	Van Nuys	WNV
Los Angeles	GRLA2637	5853	Cx quinquefasciatus	50	9/5/2007	9/14/2007	Van Nuys	WNV
Los Angeles	GRLA2645	5839	Cx quinquefasciatus	50	9/5/2007	9/12/2007	Encino	WNV
Los Angeles	GRLA2648	5844	Cx quinquefasciatus	50	9/5/2007	9/12/2007	Encino	WNV
Los Angeles	GRLA2648	5848	Cx quinquefasciatus	50	9/5/2007	9/14/2007	Encino	WNV
Los Angeles	GRLA2648	5849	Cx quinquefasciatus	50	9/5/2007	9/14/2007	Encino	WNV
Los Angeles	GRLA2649	5857	Cx quinquefasciatus	35	9/5/2007	9/12/2007	Encino	WNV
Los Angeles	GRLA2651	5861	Cx quinquefasciatus	33	9/5/2007	9/14/2007	Encino	WNV
Los Angeles	GRLA2655	5858	Cx quinquefasciatus	24	9/5/2007	9/12/2007	Encino	WNV
Los Angeles	GRLA2655	5866	Cx quinquefasciatus	50	9/6/2007	9/12/2007	Encino	WNV
Los Angeles	GRLA2655	5867	Cx quinquefasciatus	50	9/6/2007	9/12/2007	Encino	WNV
Los Angeles	GRLA2655	5868	Cx quinquefasciatus	22	9/6/2007	9/14/2007	Encino	WNV
Orange	ORCO0002	622	Cx quinquefasciatus	50	9/5/2007	9/10/2007	Fullerton	WNV
Orange	ORCO0014	624	Cx quinquefasciatus	5	9/5/2007	9/10/2007	Yorba Linda	WNV
Orange	ORCO0017	617	Cx quinquefasciatus	12	9/5/2007	9/10/2007	Orange	WNV
Orange	ORCO0081	645	Cx quinquefasciatus	6	9/5/2007	9/10/2007	Seal Beach	WNV
Placer	PLCR0057	510	Cx tarsalis	50	9/7/2007	9/11/2007	Lincoln	WNV
Placer	PLCR0479	501	Cx pipiens	21	9/7/2007	9/11/2007	Roseville	WNV
Riverside	COAV0027	1547	Cx quinquefasciatus	50	9/5/2007	9/14/2007	North Shore	WNV
Riverside	COAV0030	1543	Cx tarsalis	7	9/5/2007	9/12/2007	Mecca	WNV
Riverside	COAV0033	1538	Cx tarsalis	35	9/5/2007	9/12/2007	Mecca	WNV
Riverside	COAV0035	1533	Cx tarsalis	50	9/5/2007	9/14/2007	Mecca	WNV
Riverside	COAV0537	1526	Cx tarsalis	50	9/5/2007	9/12/2007	Thermal	WNV
Sacramento	SAYO2207	5950	Cx tarsalis	50	9/7/2007		Wilton	WNV
Sacramento	SAYO2207	6020	Cx tarsalis	50	9/12/2007		Wilton	WNV
Sacramento	SAYO2207	6021	Cx tarsalis	50	9/12/2007		Wilton	WNV
Sacramento	SAYO2211	6056	Cx tarsalis	25	9/12/2007		Sacramento	WNV
Sacramento	SAYO4127	5966	Cx pipiens	8	9/7/2007		Rio Linda	WNV
Sacramento	SAYO4204	6051	Cx pipiens	12	9/12/2007		Sacramento	WNV
San Bernardino	WVAL2005	620	Cx tarsalis	26	9/7/2007	9/14/2007	Chino	WNV
San Joaquin	SJCM8026	1642	Cx pipiens	15	9/5/2007	9/14/2007	Stockton	WNV
San Joaquin	SJCM8029	1611	Cx pipiens	50	9/5/2007	9/10/2007	Farmington	WNV
San Joaquin	SJCM8056	1606	Cx pipiens	43	9/5/2007	9/10/2007	Manteca	WNV
San Joaquin	SJCM8079	1630	Cx pipiens	50	9/5/2007	9/14/2007	Manteca	WNV
San Joaquin	SJCM8079	1635	Cx pipiens	28	9/5/2007	9/10/2007	Manteca	WNV
San Joaquin	SJCM8110	1649	Cx pipiens	50	9/5/2007	9/10/2007	Lodi	WNV
Sonoma	MARN0195	686	Cx tarsalis	50	9/5/2007	9/12/2007	Healdsburg	WNV
Stanislaus	TRLK0407	1538	Cx pipiens	50	9/11/2007	9/14/2007	Turlock	WNV
Stanislaus	TRLK0407	1543	Cx pipiens	28	9/11/2007	9/14/2007	Turlock	WNV
Stanislaus	TRLK0408	1554	Cx pipiens	50	9/11/2007	9/14/2007	Turlock	WNV
Stanislaus	TRLK0432	1511	Cx pipiens	50	9/6/2007	9/10/2007	Turlock	WNV
Stanislaus	TRLK0432	1515	Cx pipiens	50	9/6/2007	9/10/2007	Turlock	WNV
Stanislaus	TRLK0432	1565	Cx pipiens	50	9/11/2007	9/14/2007	Turlock	WNV
Stanislaus	TRLK0508	1504	Cx pipiens	50	9/6/2007	9/10/2007	Turlock	WNV
Stanislaus	TRLK0516	1599	Cx pipiens	50	9/11/2007	9/14/2007	Denair	WNV
Stanislaus	TRLK0516	1601	Cx pipiens	50	9/11/2007	9/14/2007	Denair	WNV
Stanislaus	TRLK0516	1607	Cx pipiens	50	9/11/2007	9/12/2007	Denair	WNV
Stanislaus	TRLK0516	1610	Cx pipiens	50	9/11/2007	9/12/2007	Denair	WNV
Stanislaus	TRLK0525	1625	Cx pipiens	16	9/11/2007	9/12/2007	Hughson	WNV
Stanislaus	TRLK0531	1529	Cx pipiens	50	9/11/2007	9/12/2007	Turlock	WNV
Stanislaus	TRLK0609	1493	Cx pipiens	50	9/6/2007	9/10/2007	Turlock	WNV
Stanislaus	TRLK0613	1620	Cx pipiens	33	9/11/2007	9/12/2007	Hickman	WNV

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Stanislaus	TRLK9742	1655	Cx pipiens	11	9/11/2007	9/13/2007	Crows Landing	WNV
Stanislaus	TRLK9743	1657	Cx pipiens	50	9/11/2007	9/14/2007	Crows Landing	WNV
Sutter	SUYA0044	273	Cx tarsalis	50	8/13/2007	9/14/2007	Pleasant Grove	WNV
Sutter	SUYA0044	279	Cx tarsalis	42	8/27/2007	9/13/2007	Pleasant Grove	WNV
Tulare	DLTA2301	306	Cx quinquefasciatus	50	9/11/2007	9/12/2007	Kingsburg	WNV
Tulare	DLTA2301	307	Cx quinquefasciatus	50	9/11/2007	9/12/2007	Kingsburg	WNV
Tulare	KNGS3017	210	Cx quinquefasciatus	50	9/12/2007	9/13/2007	Waukena	WNV
Yolo	DAVI5115	0349	Cx pipiens	8	9/12/2007			WNV
Yolo	SAYO6006	6069	Cx tarsalis	45	9/12/2007			WNV

Sentinel Chickens

County	Agency Code	Date Bled	Nearest City	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Butte	BUCO3	8/20/2007	Oroville	WNV	1112	1113	1118		
Butte	BUCO5	9/4/2007	Honcut	WNV	1136	1138	1141		
Butte	BUCO4	9/4/2007	Gridley	WNV	1122				
Contra Costa	CNTR7402	9/4/2007	Oakley	WNV	1189				
Kern	KERN104	8/20/2007	Old River	WNV	1912				
Kern	KERN113	9/4/2007	Bakersfield	WNV	1869				
Kern	KERN112	9/4/2007	Wasco	WNV	1851	1852	1854	1855	1857
Kern	KERN111	9/4/2007	Arvin	WNV	1842				
Kings	KNGS2007	7/30/2007	Lemoore	WNV	1952	1951			
Los Angeles	GRLA2223	8/13/2007	Rowland Heights	WNV	1725	1726	1727		
Los Angeles	SGVA9	8/27/2007		WNV	3577				
Riverside	COAV114	8/13/2007	Mecca	WNV	1328				
Sacramento	SAYO7001	8/27/2007	Galt	WNV	2638				
Sacramento	SAYO7000	9/11/2007	Elk Grove	WNV	2623	2625	2626		
San Bernardino	SANB11	8/13/2007	Rialto	WNV	2822				
San Joaquin	SJCM9901	9/11/2007	Lodi	WNV	2942				
Stanislaus	TRLK9701	8/20/2007	Grayson	WNV	3353				
Stanislaus	TRLK402	8/20/2007	Denair	WNV	3333	3337			
Stanislaus	TRLK9701	9/4/2007	Grayson	WNV	3362				
Stanislaus	TRLK402	9/4/2007	Denair	WNV	3331	3334	3335	3338	
Sutter	SUYA15	8/23/2007	Robbins	WNV	3224	3229			
Sutter	SUYA30	9/6/2007	Live Oak	WNV	3252	3258			
Tulare	DLTA6005	8/13/2007	Visalia	WNV	1577				

California Arbovirus Surveillance Bulletin # 30

Week 37 Friday, September 14, 2007

NATIONAL COMMENTS

As of September 11, 2007, WNV activity had been reported from 45 states, New York City, and Puerto Rico. A total of 1,395 human cases had been reported nationwide in the following 38 states: Alabama (13), Arizona (16), Arkansas (6), California (198), Colorado (72), Connecticut (4), Florida (3), Georgia (16), Idaho (70), Illinois (19), Iowa (12), Kansas (21), Kentucky (1), Louisiana (2), Maryland (1), Massachusetts (1), Michigan (1), Minnesota (70), Mississippi (44), Missouri (18), Montana (100), Nebraska (70), Nevada (3), New Mexico (25), New York (1), North Dakota (184), Ohio (3), Oklahoma (40), Oregon (11), Pennsylvania (1), South Carolina (2), South Dakota (160), Tennessee (3), Texas (43), Utah (12), Virginia (2), Wisconsin (4), and Wyoming (143). Of the 1,395 cases reported, 416 (30%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the 1,386 cases where data was available was 49 years (range: 15 months-96 years) and 56% were male. A total of 38 human fatalities had been reported from Alabama (3), Arkansas (1), California (10), Colorado (1), Florida (1), Illinois (1), Mississippi (1), Montana (3), Nebraska (3), New Mexico (1), North Dakota (2), Oklahoma (4), South Dakota (4), Texas (2), and Wyoming (1). For the latest updates about WNV activity in the United States, please visit the CDC WNV website at <http://www.cdc.gov/ncidod/dvbid/westnile/index.htm>.

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:

All bird and tree squirrel species from all zip codes are currently being accepted for testing unless otherwise requested by a local agency. Additionally, once WNV has been detected within a county, doves, pigeons, and chickens will no longer be accepted for testing from that county. Corvids that test positive via RAMP or VecTest are no longer confirmed. Dead birds and 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 WNV testing using the singleplex RT-PCR Taqman assay and confirmed with a second primer set. The WNV Dead Bird Surveillance Coordinator, Ryan Carney, can be reached directly at (510) 412-6254.

Sentinel Chickens:

Dried blood spot specimens from sentinel chickens are submitted to VRDL and tested for the presence of antibodies to West Nile virus (WNV), 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) and the Viral and Rickettsial Disease Laboratory 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, FAX (510) 412-6263, or email: tina.feiszli@cdph.ca.gov