

# California Arbovirus Surveillance Bulletin # 31

Week 37 Friday, September 16, 2005

## Weekly Summary

### Comments:

#### **Humans:**

As of September 16, 2005, 663 human West Nile virus (WNV) infections have been identified from the following local health jurisdictions: Alameda (1), Amador (1), Butte (17), Calaveras (1), Colusa (1), Contra Costa (8), El Dorado (1), Fresno (49), Glenn (11), Humboldt (1), Imperial (1), Kern (41), Kings (29), Los Angeles (21), Madera (6), Merced (13), Nevada (1), Orange (10), Placer (25), Plumas (1), Riverside (73), Sacramento (150), San Bernardino (23), San Diego (1), San Francisco (1), San Joaquin (29), Santa Barbara (1), Santa Clara (2), Solano (3), Sonoma (1), Stanislaus (69), Sutter (7), Tehama (3), Tulare (48), Ventura (1), Yolo (10), and Yuba (2). Eighty-three of the 663 infections were initially detected in asymptomatic individuals through screening done at blood banks - thirty-two individuals later developed symptoms. In addition to the individuals detected at blood banks, four individuals who had no symptoms for WNV were detected through the local health department. Of the 608 WNV cases with symptoms, 199 are classified as West Nile neuroinvasive disease cases, 353 are classified as West Nile fever, and 56 are of unknown clinical presentation. The median age for all symptomatic cases where data is available is 50 years (range: 2-93 years). 343 (56%) of the cases are male. There have been 13 WNV-related fatalities to date in California this year, from Butte (1), Fresno (2), Kings (2), Riverside (5), Sacramento (1), San Joaquin (1), and Tulare (1) counties. The median age of the 13 fatalities was 84 years (range: 72-92 years).

#### **Horses:**

The California Department of Food & Agriculture reported 23 new confirmed cases of equine WNV in Alameda (1), Contra Costa (2), Fresno (2), Glenn (1), Kern (2), Lake (1), Los Angeles (2), Merced (1), Placer (2), Riverside (1), San Joaquin (2), Santa Barbara (1), Solano (1), Stanislaus (2), Tulare (1), and Yuba (1) counties. The YTD total for the State is 372.

#### **Dead Birds:**

This week the hotline received 3,208 dead bird reports, for a YTD total of 95,163 reports. 159 out of 255 (62.4%) dead birds collected from 35 counties tested positive for WNV this week.

- 97 out of 186 (52.2%) dead birds tested positive via RT-PCR.
- 54 out of 56 (96.4%) corvids tested positive via VecTest.
- 8 out of 13 (61.5%) corvids tested positive via RAMP.

The WNV positive dead birds were collected from the following counties: Alameda (10); Amador (1); Calaveras (1); Contra Costa (3); El Dorado (9); Inyo (1); Kern (2); Lake (7); Los Angeles (15); Marin (5); Mendocino (3); Merced (2); Napa (12); Nevada (5); Placer (2); San Bernardino (3); San Diego (13); San Mateo (2); Santa Barbara (2); Santa Clara (16); Shasta (4); Solano (2); Sonoma (7); Stanislaus (12); Tehama (1); Tuolumne (17); and Ventura (2).

The following bird species tested positive for WNV: American crow (56); barn owl (1); black phoebe (1); California quail (1); California towhee (1); chickadee (1); common raven (1); cooper's hawk (1); double-breasted comorant (1); house finch (4); lesser goldfinch (2); Lincoln's sparrow (1); mourning dove (4); northern mockingbird (1); oak titmouse (3); Pacific sloppy flycatcher (2); Rufous hummingbird (1); snowy egret (1); sora (1); Steller's jay (4); western bluebird (2); western screech owl (2); western scrub-jay (56); western tanager (2); yellow warbler (1); and yellow-billed magpie (8). See "WNV Positive Dead Birds" table for details.

Since January 1, 2005, 2,376 of 7,291 (32.6%) dead birds have tested positive for WNV.

#### **Mosquito Pools:**

WNV: CVEC reported 71 WNV positive mosquito pools from the following counties: Fresno (5), Kern (4), Lake (3), Los Angeles (16), Merced (2), Orange (3), Riverside (11), San Bernardino (10), Sutter (2), Stanislaus (13), and Yolo (2). The YTD total for the State is 1120.

WEE: CVEC also reported two positive WEE pools in Kern and Riverside counties. The YTD for the State is 40.

**Sentinel Chickens:** WNV: VRDL reported 61 seroconversions among 25 flocks from Butte (1), Contra Costa (6), Fresno (9), Kern (9), Los Angeles (5), Madera (5), Merced (1), Riverside (7), San Bernardino (6), Shasta (4), Sutter (4), and Yolo (4). The current YTD total stands at 438 seroconversions. Additionally, there are 54 flavivirus positive seroconversions.

# California Arbovirus Surveillance Bulletin # 31

Week 37 Friday, September 16, 2005

**WEE:** VRDL reported 1 WEE seroconversion in a flock from San Bernardino County. The current YTD total stands at 88 seroconversions.

**Website Information:**

For updated information on WNV, please visit the California WNV website, [www.westnile.ca.gov](http://www.westnile.ca.gov), the CDC website, [www.cdc.gov](http://www.cdc.gov), and the USGS website, [www.westnilemaps.usgs.gov](http://www.westnilemaps.usgs.gov). Please go to the Vector website at <http://vector.ucdavis.edu/arbo.html> for flock location and more information on WNV and other vector-borne diseases.

## TEST SUMMARIES

### Humans and Horses

		Number Tested	WNV Positive		WEE Positive		SLE Positive		Other Positive	
			Imported	Local	Imported	Local	Imported	Local	Imported	Local
Humans Tested	Week	110	0	70	0	0	0	0	0	0
	YTD	1564	0	663	0	0	0	0	0	0
Horses Tested	Week	23	0	23	0	0	0	0	0	0
	YTD	841	0	372	0	0	0	0	0	0

### Sentinel Chickens and Mosquito Pools

#### Dead Birds

	Number Tested	WNV Positive
Week	255	159
YTD	7,291	2,376

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
Chicken sera	Week	1022*	61	1	0	0
	YTD	25445	438	88	0	0
Mosquito pools	Week	657	71	2	0	0
	YTD	15838	1120	40	0	0

\*Total has been adjusted to include local agency submission

### Human Positives Reported (September 5 – September 9):

Virus	Onset Date	Status	Diagnosis	County	Age
WNV	07/31/05	Probable	West Nile Fever	Colusa	>18
WNV	Week 33	Probable	West Nile Fever	Butte	>18
WNV	Week 34	Probable	West Nile Neuroinvasive Disease	Butte	>18
WNV	08/28/05	Probable	West Nile Neuroinvasive Disease	Los Angeles	60
WNV	08/20/05	Probable	Unk	Fresno	49
WNV	n/a	Probable	West Nile Fever	Glenn	n/a
WNV	n/a	Probable	Unk	Glenn	n/a
WNV	09/03/05	Probable	Unk	Fresno	61
WNV	08/21/05	Probable	West Nile Fever	Kern	61
WNV	08/30/05	Probable	West Nile Fever	Kern	51
WNV	09/02/05	Probable	West Nile Fever	Kern	24
WNV	Unk	Probable	Unk	Kern	76
WNV	8/1/2005	Probable	West Nile Fever	Sacramento	59
WNV	Unk	Probable	West Nile Fever	Sacramento	37

# California Arbovirus Surveillance Bulletin # 31

Week 37 Friday, September 16, 2005

WNV	08/09/05	Probable	West Nile Fever	Sacramento	38
WNV	07/23/05	Probable	West Nile Fever	Sacramento	69
WNV	08/01/05	Probable	West Nile Fever	Sacramento	54
WNV	09/04/05	Probable	West Nile Neuroinvasive Disease	Sacramento	76
WNV	08/27/05	Probable	West Nile Fever	Sacramento	59
WNV	09/02/05	Probable	West Nile Neuroinvasive Disease	Sacramento	54
WNV	09/08/05	Probable	West Nile Fever	Sacramento	42
WNV	08/14/05	Probable	West Nile Fever	Sacramento	51
WNV	07/01/05	Probable	West Nile Fever	Sacramento	60
WNV	08/29/05	Probable	West Nile Fever	Sacramento	33
WNV	08/15/05	Probable	West Nile Neuroinvasive Disease	Sacramento	76
WNV	08/19/05	Probable	West Nile Fever	Merced	77
WNV	08/30/05	Probable	West Nile Neuroinvasive Disease	Riverside	73
WNV	08/16/05	Probable	West Nile Fever	San Joaquin	48
WNV	Unk	Probable	Unk	Stanislaus	73
WNV	08/29/05	Probable	West Nile Fever	Stanislaus	49
WNV	Unk	Probable	West Nile Fever	Tulare	36
WNV	08/26/05	Probable	West Nile Fever	Tulare	58
WNV	08/20/05	Probable	West Nile Fever	Tulare	34
WNV	08/19/05	Probable	West Nile Fever	Tulare	48
WNV	08/23/05	Probable	West Nile Neuroinvasive Disease	Tulare	74
WNV	07/15/05	Probable	West Nile Fever	Tulare	36
WNV	08/16/05	Probable	West Nile Neuroinvasive Disease	Contra Costa	50
WNV	n/a	Probable	Asymptomatic Blood Donor	Los Angeles	57
WNV	n/a	Probable	Asymptomatic Blood Donor	Los Angeles	18
WNV	n/a	Probable	Asymptomatic Blood Donor	Fresno	46
WNV	n/a	Probable	Asymptomatic Blood Donor	Fresno	57
WNV	n/a	Probable	Asymptomatic Blood Donor	Sacramento	34
WNV	n/a	Probable	Asymptomatic Blood Donor	Sacramento	24
WNV	n/a	Probable	Asymptomatic Blood Donor	San Bernardino	51
WNV	n/a	Probable	Asymptomatic Blood Donor	Madera	>18

**Bolded entries refer to fatalities.**

\* = Initially detected by blood bank screening; later became symptomatic

## Virus Positive From Mosquito Pools:

Virus	Mosquito Species	Date Collected	Agency Site	Pool #	County	City	Date Received
WN	Cx tarsalis	9/8/05	CNSL1006	273	Fresno	Fresno	9/14/05
WN	Cx quinquefasciatus	9/8/05	CNSL1006	274	Fresno	Fresno	9/14/05
WN	Cx quinquefasciatus	9/8/05	CNSL6007	275	Fresno	Riverdale	9/14/05
WN	Cx quinquefasciatus	9/8/05	CNSL4004	278	Fresno	Fowler	9/14/05
WN	Cx quinquefasciatus	9/9/05	CNSL4005	281	Fresno	Selma	9/14/05

# California Arbovirus Surveillance Bulletin # 31

Week 37 Friday, September 16, 2005

WN	Cx quinquefasciatus	9/7/05	COAV0320	2350	Riverside	Palm Desert	9/15/05
WN	Cx tarsalis	9/7/05	COAV0023	2363	Riverside	Mecca	9/15/05
WN	Cx tarsalis	9/7/05	COAV0008	2368	Riverside	Mecca	9/15/05
WN	Cx tarsalis	9/7/05	COAV0010	2372	Riverside	Thermal	9/15/05
WN	Cx tarsalis	9/7/05	COAV0010	2373	Riverside	Thermal	9/15/05
WN	Cx tarsalis	9/7/05	COAV0034	2377	Riverside	Mecca	9/15/05
WN	Cx quinquefasciatus	9/8/05	GRLA2365	1332	Los Angeles	Pico Rivera	9/14/05
WN	Cx quinquefasciatus	9/8/05	GRLA2247	1334	Los Angeles	Pico Rivera	9/14/05
WN	Cx quinquefasciatus	9/8/05	GRLA2278	1338	Los Angeles	Long Beach	9/14/05
WN	Cx quinquefasciatus	9/8/05	GRLA2132	1339	Los Angeles	Wilmington	9/14/05
WN	Cx thriambus	9/6/05	GRLA2473	5962	Los Angeles	Sunland	9/14/05
WN	Cx quinquefasciatus	9/6/05	GRLA2548	5976	Los Angeles	Sylmar	9/14/05
WN	Cx quinquefasciatus	9/7/05	GRLA2650	5989	Los Angeles	Encino	9/14/05
WN	Cx quinquefasciatus	9/7/05	GRLA2635	5992	Los Angeles	Van Nuys	9/14/05
WN	Cx quinquefasciatus	9/7/05	GRLA2655	5994	Los Angeles	Encino	9/14/05
WN	Cx quinquefasciatus	9/7/05	GRLA2636	5997	Los Angeles	Van Nuys	9/14/05
WN	Cx tarsalis	9/7/05	KERN0055	5778	Kern	Bakersfield	9/15/05
WN	Cx quinquefasciatus	9/8/05	KERN1003	5784	Kern	Oildale	9/15/05
WN	Cx quinquefasciatus	9/8/05	KERN1003	5786	Kern	Oildale	9/15/05
WN	Cx tarsalis	9/13/05	KERN0041	5799	Kern	Lost Hills	9/15/05
WN	Cx quinquefasciatus	9/7/05	LACW1054	408	Los Angeles	Los Angeles	9/14/05
WN	Cx tarsalis	9/7/05	LAKE1101	293	Lake	Nice	9/14/05
WN	Cx tarsalis	9/8/05	LAKE1004	299	Lake	Upper Lake	9/14/05
WN	Cx tarsalis	9/9/05	LAKE1004	304	Lake	Upper Lake	9/14/05
WN	Cx quinquefasciatus	9/7/05	LONG0203	344	Los Angeles	Long Beach	9/8/05
WN	Cx quinquefasciatus	9/7/05	LONG0101	347	Los Angeles	Long Beach	9/8/05
WN	Cx quinquefasciatus	9/7/05	LONG0702	353	Los Angeles	Long Beach	9/8/05
WN	Cx quinquefasciatus	9/7/05	LONG0704	356	Los Angeles	Long Beach	9/8/05
WN	Cx quinquefasciatus	9/7/05	LONG0401	357	Los Angeles	Long Beach	9/8/05
WN	Cx pipiens	9/6/05	MERC5507	321	Merced	Merced	9/9/05
WN	Cx tarsalis	9/6/05	MERC0512	325	Merced	Atwater	9/9/05
WN	Cx tarsalis	8/18/05	NWST9227	464	Riverside	Highgrove	9/13/05
WN	Cx thriambus	8/23/05	NWST0011	474	Riverside	Rubidoux	9/13/05
WN	Cx quinquefasciatus	8/29/05	NWST0007	480	Riverside	Lake Elsinore	9/13/05
WN	Cx quinquefasciatus	9/7/05	ORCO0006	2638	Orange	Irvine	9/13/05
WN	Cx quinquefasciatus	9/7/05	ORCO0052	2640	Orange	Anaheim	9/13/05
WN	Cx stigmatosoma	9/7/05	ORCO0058	2643	Orange	Laguna Niguel	9/13/05
WN	Cx erythrothorax	9/7/05	RIVR0022	347	Riverside	Murrieta	9/15/05
WN	Cx erythrothorax	9/7/05	RIVR0002	356	Riverside	Nuevo	9/15/05
WN	Cx quinquefasciatus	8/30/05	SANB0011	384	San Bernardino	Rialto	9/8/05
WN	Cx tarsalis	8/25/05	SANB0001	393	San Bernardino	Needles	9/8/05
WN	Cx tarsalis	8/25/05	SANB0001	395	San Bernardino	Needles	9/8/05
WN	Cx tarsalis	8/25/05	SANB0001	396	San Bernardino	Needles	9/8/05

# California Arbovirus Surveillance Bulletin # 31

Week 37 Friday, September 16, 2005

WN	Cx tarsalis	8/25/05	SANB0007	401	San Bernardino	Fontana	9/8/05
WN	Cx quinquefasciatus	8/25/05	SANB0011	402	San Bernardino	Rialto	9/8/05
WN	Cx tarsalis	9/9/05	SANB0007	424	San Bernardino	Fontana	9/14/05
WN	Cx tarsalis	9/6/05	SANB0002	428	San Bernardino	Redlands	9/14/05
WN	Cx tarsalis	9/6/05	SANB0002	447	San Bernardino	Redlands	9/14/05
WN	Cx tarsalis	9/6/05	SANB0002	459	San Bernardino	Redlands	9/14/05
WN	Cx stigmatosoma	9/8/05	SAYO3150	1383	Yolo	Guinda	9/12/05
WN	Cx pipiens	9/9/05	SAYO3287	5185	Yolo	Davis	9/14/05
WN	Cx tarsalis	9/6/05	SUYA0044	290	Sutter	Pleasant Grove	9/13/05
WN	Cx tarsalis	9/6/05	SUYA0044	291	Sutter	Pleasant Grove	9/13/05
<b>WN</b>	<b>Cx pipiens</b>	<b>9/7/05</b>	<b>TRLK0526</b>	<b>784</b>	<b>Stanislaus</b>	<b>Denair</b>	<b>9/9/05</b>
<b>WN</b>	<b>Cx tarsalis</b>	<b>9/7/05</b>	<b>TRLK0526</b>	<b>785</b>	<b>Stanislaus</b>	<b>Denair</b>	<b>9/9/05</b>
<b>WN</b>	<b>Cx pipiens</b>	<b>9/7/05</b>	<b>TRLK0526</b>	<b>787</b>	<b>Stanislaus</b>	<b>Denair</b>	<b>9/9/05</b>
<b>WN</b>	<b>Cx pipiens</b>	<b>9/7/05</b>	<b>TRLK0516</b>	<b>793</b>	<b>Stanislaus</b>	<b>Denair</b>	<b>9/9/05</b>
<b>WN</b>	<b>Cx pipiens</b>	<b>9/7/05</b>	<b>TRLK0530</b>	<b>797</b>	<b>Stanislaus</b>	<b>Turlock</b>	<b>9/9/05</b>
<b>WN</b>	<b>Cx pipiens</b>	<b>9/7/05</b>	<b>TRLK0530</b>	<b>800</b>	<b>Stanislaus</b>	<b>Turlock</b>	<b>9/9/05</b>
<b>WN</b>	<b>Cx pipiens</b>	<b>9/7/05</b>	<b>TRLK0530</b>	<b>802</b>	<b>Stanislaus</b>	<b>Turlock</b>	<b>9/9/05</b>
<b>WN</b>	<b>Cx pipiens</b>	<b>9/7/05</b>	<b>TRLK0530</b>	<b>803</b>	<b>Stanislaus</b>	<b>Turlock</b>	<b>9/9/05</b>
<b>WN</b>	<b>Cx pipiens</b>	<b>9/7/05</b>	<b>TRLK0432</b>	<b>808</b>	<b>Stanislaus</b>	<b>Turlock</b>	<b>9/9/05</b>
<b>WN</b>	<b>Cx pipiens</b>	<b>9/7/05</b>	<b>TRLK0421</b>	<b>809</b>	<b>Stanislaus</b>	<b>Hughson</b>	<b>9/9/05</b>
<b>WN</b>	<b>Cx pipiens</b>	<b>9/7/05</b>	<b>TRLK0538</b>	<b>817</b>	<b>Stanislaus</b>	<b>Hughson</b>	<b>9/9/05</b>
WN	Cx pipiens	9/7/05	TRLK0538	818	Stanislaus	Hughson	9/9/05
WN	Cx pipiens	9/7/05	TRLK0530	829	Stanislaus	Turlock	9/9/05
WEE	Cx tarsalis	9/7/05	COAV0017	2375	Riverside	Mecca	9/15/05
WEE	Cx tarsalis	9/13/05	KERN0089	5813	Kern	Lost Hills	9/15/05

\* RAMP tested

## Chicken Seroconversions Reported by DHS:

	Virus	Site Number	County	State	Nearest City	Location	Date Seroconverted	Band #1	Band #2	Band #3	Band #4	Band #5	Band #6	Band #7
	WNV	BUCO0005	Butte	CA	Honcut	Honcut	9/7/05	5455						
	WNV	CNTR8152	Contra Costa	CA	Knightsen	Holland Tract	9/5/05	4476	4485					
	WNV	CNTR7402	Contra Costa	CA	Oakley	ISD	9/5/05	4496						
****	WNV	CNTR5552	Contra Costa	CA	Walnut Creek	Black	8/22/05	4524	4527	4534				
	WNV	CNSL5005	Fresno	CA	Fresno	Fresno Roofing	8/22/05	0030	0033	0037	0038			
	WNV	CNSL5005	Fresno	CA	Fresno	Fresno Roofing	8/8/05	0036						
	WNV	CNSL5008	Fresno	CA	Orange Cove	O. Mitchell	9/7/05	0073	0077	0078	0080			
	WNV	KERN0107	Kern	CA	Arvin	John Dale	9/6/05	4400						
	WNV	WEST6203	Kern	CA	B.V. Lake	B.V. Lake	7/26/05	4571	4572	4574	4575			
	WNV	KERN0105	Kern	CA	Bakersfield	Wible/Houghton	9/6/05	3717						

# California Arbovirus Surveillance Bulletin # 31

Week 37 Friday, September 16, 2005

	WNV	KERN0101	Kern	CA	Lost Hills	Kern NWR	9/6/05	3714	4392							
	WNV	KERN0112	Kern	CA	Wasco	Wells Residence	9/6/05	4385								
****	WNV	ANTV8656	Los Angeles	CA	Lancaster	Volmer	8/17/05	8819	8820	8821	8822	8824				
	WNV	MADR4123	Madera	CA	Chowchilla	Calley Farm	8/24/05	4577	4578	4582	4583	4585				
	WNV	MERC0501	Merced	CA	El Nido	Homen	9/6/05	5990								
****	WNV	RIVR0016	Riverside	CA	Lake Matthews	17221 Owl Tree St	8/17/05	5236	5237	5239	5241	5242	5243	5244		
****	WNV	SAYO6000	Yolo	CA	Dunnigan	Dunnigan	8/30/05	6093								
	WNV	SAYO6001	Yolo	CA	Knights Landing	Knights Landing	8/30/05	6081								
	WNV	SAYO6003	Yolo	CA	Winters	Winters	8/30/05	6077								
	WNV	SAYO6002	Yolo	CA	Woodland	Merritt	8/30/05	6063								
****	WNV	WVAL0001	San Bernardino	CA	Chino	Kimball	8/15/05	5701								
	WNV	SANB0003	San Bernardino	CA	Colton	Agua Mansa Flood Control	8/31/05	5026	5030							
****	WNV	WVAL0004	San Bernardino	CA	Ontario	4th street	8/15/05	1101	1102							
	WNV	SANB0006	San Bernardino	CA	Yucaipa	Yucaipa Regional Park	8/31/05	5044								
	WNV	SHAS9704	Shasta	CA	Anderson	Shasta MVCD	9/8/05	0352	0354	0358	0359					
	WNV	SUYA0071	Sutter	CA	Olivehurst	Roller	8/25/05	0499	0501	0502						
	WNV	SUYA0071	Sutter	CA	Olivehurst	Roller	8/11/05	0503								
	WEE	SANB0001	San Bernardino	CA	Needles	Treatment Plant	8/30/05	5007								
	Flav +	BUCO0001	Butte	CA	Chico	Elmer Street	9/6/05	5411								
****	Flav +	BUCO0006	Butte	CA	Chico	River Marina	9/6/05	5457								
	Flav +	BUCO0007	Butte	CA	Chico	M&T Ranch	9/6/05	5472	5475							
	Flav +	CNSL5004	Fresno	CA	Caruthers	S. Turner	9/6/05	0017	0021	0022						
****	Flav +	FRNO0002	Fresno	CA	Kerman	Kerman	9/6/05	7591	7593							
	Flav +	CNSL5007	Fresno	CA	Laton	P. Balver	9/7/05	0059	0063							
	Flav +	GLEN9701	Glenn	CA	Willows	N. E. Willows	9/7/05	5803	5810							
	Flav +	KERN0104	Kern	CA	Bakersfield	Old River	9/6/05	3706								
	Flav +	DLNO0060	Kern	CA	Delano	Delano	9/8/05	5488								
	Flav +	DLNO0021	Kern	CA	Earlimart	Teviston	9/8/05	5494	5495							
	Flav +	LAKE1000	Lake	CA	Upper Lake	MAD Fish Ponds	9/7/05	8732								
	Flav +	MERC0001	Merced	CA	Merced	Veldhuis Dairy	9/6/05	4727								
	Flav +	ORCO0006	Orange	CA	Irvine	San Joaquin WS	9/1/05	7457								
****	Flav +	SANB0001	San Bernardino	CA	Needles	Treatment Plant	8/30/05	5007	5008							
****	Flav +	SANB0004	San Bernardino	CA	San Bernardino	Wildwood Park Flood Basin	8/30/05	5032	5034	5037						
	Flav +	SANB0008	San Bernardino	CA	Upland	Upland Crosswalls	8/31/05	5064	5068	5070	6954					
	Flav +	SANB0009	San Bernardino	CA	Victorville	Mojave Narrows Regional Park	8/30/05	5075	5079							
	Flav +	SLOC0030	San Luis Obispo	CA	Paso Robles	Pat Butler School	9/8/05	0241	0243	0248						
	Flav +	SHAS9701	Shasta	CA	Cottonwood	Gover	9/8/05	0376								
	Flav +	TRLK0402	Stanislaus	CA	Denair	Bettencourt/Mendes	9/6/05	0628	0629	0630	0638					
	Flav +	TRLK9701	Stanislaus	CA	Grayson	Dykzeul Dairy	9/6/05	0569	0570	0571	0576	0577				
	Flav +	EAST1957	Stanislaus	CA	Modesto	Mapes	9/7/05	0886								
	Flav +	TRLK0403	Stanislaus	CA	Newman/Hillsferry	Thomas	9/6/05	0604	0613							
	Flav +	EAST1933	Stanislaus	CA	Oakdale	Valley Home	9/7/05	0880								
****	Flav +	TRLK9702	Stanislaus	CA	Patterson	Modesto Sewer	9/6/05	0581	0586	0587	0588					
	Flav +	TRLK0001	Stanislaus	CA	Vernalis	Dunne	9/6/05	0560								
	Flav +	SUYA0020	Sutter	CA	Meridian	Meridian	9/8/05	0456								

# California Arbovirus Surveillance Bulletin # 31

Week 37 Friday, September 16, 2005

## Chicken Seroconversions Previously Unreported:

Virus	Site #	County	State	City	Date Seroconverted	Band #	Bulletin #
WNV	RIVR0008	Riverside	CA	Murrieta	7/8/2005	5253	24
WNV	NWST0004	Riverside	CA	Rubidoux	7/19/2005	6200	24
WNV	SAYO7004	Sacramento	CA	Elverta	8/2/2005	6008	26
WNV	SANB0003	San Bernardino	CA	Colton	7/18/05	5025	24
WNV	SANB0002	San Bernardino	CA	Redlands	7/19/2005	5013	24
WNV	SANB0002	San Bernardino	CA	Redlands	7/19/05	5020	24
WNV	SANB0006	San Bernardino	CA	Yucaipa	7/5/2005	5045	24
WNV	SANB0006	San Bernardino	CA	Yucaipa	7/5/2005	5047	24
WNV	SOLA0125	Solano	CA	Cordelia	7/23/2005	426	24
WNV	SOLA0010	Solano	CA	Vacaville	7/23/2005	415	24
WNV	SOLA0010	Solano	CA	Vacaville	7/23/2005	411	24

Due to a database issue these band numbers were omitted from previous bulletins, please update your records with these seroconversions.

## WNV Positive Dead Birds Reported (September 12- September 16)

Species	County	City	Date Collected	Date Tested	ZIP	Tested By
American Crow	Alameda	Livermore	08/26/05	09/12/05	94550	RT-PCR
American Crow	Alameda	Livermore	08/30/05	09/12/05	94550	RT-PCR
American Crow	Alameda	Livermore	09/08/05	09/08/05	94550	RAMP
American Crow	Alameda	Pleasanton	09/08/05	09/08/05	94588	RAMP
American Crow	Alameda	Livermore	09/08/05	09/08/05	94550	RAMP
American Crow	Lake	Lakeport	09/02/05	09/02/05	95453	VecTest
American Crow	Lake	Lower Lake	08/24/05	08/24/05	95457	VecTest
American Crow	Lake	Lower Lake	09/08/05	09/08/05	95457	VecTest
American Crow	Lake	Lower Lake	09/08/05	09/08/05	95457	VecTest
American Crow	Los Angeles	Canyon Country	09/07/05	09/12/05	91387	RT-PCR
American Crow	Los Angeles	Lancaster	09/01/05	09/12/05	93536	RT-PCR
American Crow	Los Angeles	Sunland	09/07/05	09/12/05	91040	RT-PCR
American Crow	Los Angeles	Encino	09/09/05	09/09/05	91316	VecTest
American Crow	Los Angeles	Lancaster	09/01/05	09/01/05	93536	VecTest
American Crow	Los Angeles	Long Beach	09/07/05	09/07/05	90815	VecTest
American Crow	Los Angeles	Long Beach	09/06/05	09/06/05	90815	VecTest
American Crow	Los Angeles	Newhall	08/31/05	08/31/05	91321	VecTest
American Crow	Los Angeles	Northridge	08/31/05	08/31/05	91325	VecTest
American Crow	Los Angeles	Santa Clarita	09/08/05	09/08/05	91350	VecTest
American Crow	Los Angeles	Santa Clarita	09/07/05	09/07/05	91387	VecTest
American Crow	Los Angeles	Santa Clarita	09/09/05	09/09/05	91321	VecTest
American Crow	Los Angeles	Santa Monica	09/08/05	09/08/05	90405	VecTest
American Crow	Los Angeles	Venice	09/07/05	09/07/05	90291	VecTest
American Crow	Los Angeles	Winnetka	09/01/05	09/01/05	91306	VecTest
American Crow	Mendocino	Ukiah	09/05/05	09/12/05	95482	RT-PCR

# California Arbovirus Surveillance Bulletin # 31

Week 37 Friday, September 16, 2005

American Crow	Merced	Merced	08/31/05	09/12/05	95340	RT-PCR
American Crow	Napa	Calistoga	08/30/05	08/30/05	94515	VecTest
American Crow	Napa	Napa	08/28/05	08/28/05	94558	VecTest
American Crow	Napa	Napa	08/29/05	08/29/05	94558	VecTest
American Crow	Napa	Napa	09/02/05	09/02/05	94559	VecTest
American Crow	Napa	Napa	09/02/05	09/02/05	94558	VecTest
American Crow	Napa	Napa	09/06/05	09/06/05	94558	VecTest
American Crow	San Bernardino	Chino	08/26/05	09/12/05	91710	RT-PCR
American Crow	San Bernardino	Rancho Cucamonga	08/26/05	09/12/05	91737	RT-PCR
American Crow	San Diego	Alpine	09/03/05	09/03/05	91901	VecTest
American Crow	San Diego	Fallbrook	09/05/05	09/05/05	92028	VecTest
American Crow	San Diego	Fallbrook	09/05/05	09/05/05	92028	VecTest
American Crow	San Diego	Jamul	09/07/05	09/07/05	91935	VecTest
American Crow	San Diego	Ramona	09/02/05	09/02/05	92065	VecTest
American Crow	San Diego	Ramona	09/04/05	09/04/05	92065	VecTest
American Crow	San Diego	San Marcos	09/04/05	09/04/05	92069	VecTest
American Crow	Santa Barbara	Santa Barbara	09/01/05	09/12/05	93110	RT-PCR
American Crow	Santa Clara	San Jose	09/01/05	09/08/05	95139	RT-PCR
American Crow	Santa Clara	Cupertino	09/01/05	09/01/05	95014	VecTest
American Crow	Santa Clara	San Jose	08/31/05	08/31/05	95118	VecTest
American Crow	Santa Clara	San Jose	08/31/05	08/31/05	95118	VecTest
American Crow	Santa Clara	San Jose	09/01/05	09/01/05	95120	VecTest
American Crow	Santa Clara	San Jose	09/02/05	09/02/05	95129	VecTest
American Crow	Santa Clara	San Jose	09/02/05	09/02/05	95120	VecTest
American Crow	Santa Clara	San Jose	09/02/05	09/02/05	95136	VecTest
American Crow	Santa Clara	San Jose	09/06/05	09/06/05	95120	VecTest
American Crow	Santa Clara	Saratoga	08/31/05	08/31/05	95070	VecTest
American Crow	Stanislaus	Hughson	08/25/05	09/12/05	95326	RT-PCR
American Crow	Stanislaus	Hughson	08/26/05	08/26/05	95326	VecTest
American Crow	Stanislaus	Hughson	08/26/05	08/26/05	95326	VecTest
American Crow	Stanislaus	Turlock	09/01/05	09/01/05	95380	VecTest
Barn Owl	Kern	Edwards	08/29/05	09/12/05	93524	RT-PCR
Black Phoebe	Calaveras	Copperopolis	08/30/05	09/12/05	95228	RT-PCR
California Quail	El Dorado	El Dorado Hills	08/25/05	09/12/05	95762	RT-PCR
California Towhee	San Mateo	Burlingame	08/30/05	09/12/05	94010	RT-PCR
Chickadee	Marin	Mill Valley	08/25/05	09/12/05	94941	RT-PCR
Common Raven	San Diego	San Diego	09/08/05	09/08/05	92124	VecTest
Cooper's Hawk	Santa Clara	Santa Clara	08/19/05	09/12/05	95050	RT-PCR
Double-Crested Cormorant	Sonoma	Sonoma	08/25/05	09/12/05	95476	RT-PCR
House Finch	Alameda	Dublin	09/06/05	09/12/05	94568	RT-PCR
House Finch	El Dorado	El Dorado	08/30/05	09/12/05	95623	RT-PCR
House Finch	Nevada	Auburn	09/06/05	09/12/05	95602	RT-PCR
House Finch	San Bernardino	Upland	08/31/05	09/12/05	91784	RT-PCR
Lesser Goldfinch	Inyo	Bishop	08/29/05	09/12/05	93514	RT-PCR
Lesser Goldfinch	Sonoma	Sebastopol	08/25/05	09/12/05	95472	RT-PCR
Lincoln's Sparrow	Shasta	Redding	08/30/05	09/12/05	96003	RT-PCR
Mourning Dove	EL Dorado	South Lake Tahoe	09/02/05	09/12/05	96150	RT-PCR
Mourning Dove	Shasta	Bella Vista	08/30/05	09/12/05	96008	RT-PCR
Mourning Dove	Sonoma	Petaluma	08/31/05	09/12/05	94954	RT-PCR
Mourning Dove	Tehama	Red Bluff	08/24/05	09/12/05	96080	RT-PCR



# California Arbovirus Surveillance Bulletin # 31

Week 37 Friday, September 16, 2005

Northern Mockingbird	Alameda	Livermore	08/30/05	09/12/05	94550	RT-PCR
Oak Titmouse	El Dorado	Placerville	09/01/05	09/12/05	95667	RT-PCR
Oak Titmouse	Tuolumne	Sonora	09/01/05	09/12/05	95370	RT-PCR
Oak Titmouse	Tuolumne	Sonora	09/01/05	09/12/05	95370	RT-PCR
Pacific-Slope Flycatcher	Marin	San Rafael	08/24/05	09/12/05	94901	RT-PCR
Pacific-Slope Flycatcher	Shasta	Redding	08/29/05	09/12/05	96049	RT-PCR
Rufous Hummingbird	Nevada	Grass Valley	08/29/05	09/12/05	95945	RT-PCR
Snowy Egret	Solano	Suisun City	08/30/05	09/12/05	94585	RT-PCR
Sora	Marin	Novato	08/26/05	09/12/05	94945	RT-PCR
Steller's Jay	Napa	Napa	09/08/05	09/08/05	94558	VecTest
Steller's Jay	Tuolumne	Groveland	08/30/05	09/12/05	95321	RT-PCR
Steller's Jay	Tuolumne	Sonora	09/01/05	09/12/05	95370	RT-PCR
Steller's Jay	Tuolumne	Soulsbyville	09/01/05	09/12/05	95372	RT-PCR
Western Bluebird	El Dorado	Placerville	09/01/05	09/12/05	95667	RT-PCR
Western Bluebird	Sonoma	Forestville	08/25/05	09/12/05	95436	RT-PCR
Western Screech Owl	Marin	Novato	08/31/05	09/12/05	94949	RT-PCR
Western Screech Owl	Sonoma	Santa Rosa	08/26/05	09/12/05	95404	RT-PCR
Western Scrub-Jay	Alameda	Sunol	09/08/05	09/08/05	94586	RAMP
Western Scrub-Jay	Alameda	Pleasanton	09/08/05	09/08/05	94566	RAMP
Western Scrub-Jay	Amador	Jackson	09/06/05	09/12/05	95642	RT-PCR
Western Scrub-Jay	Contra Costa	Alamo	08/29/05	09/12/05	94507	RT-PCR
Western Scrub-Jay	Contra Costa	Oakley	09/01/05	09/01/05	94561	RAMP
Western Scrub-Jay	Contra Costa	Pittsburg	09/01/05	09/01/05	94565	RAMP
Western Scrub-Jay	El Dorado	Placerville	08/28/05	09/12/05	95667	RT-PCR
Western Scrub-Jay	El Dorado	Placerville	08/29/05	09/12/05	95667	RT-PCR
Western Scrub-Jay	El Dorado	Placerville	08/29/05	09/12/05	95667	RT-PCR
Western Scrub-Jay	El Dorado	Shingle Springs	08/29/05	09/12/05	95682	RT-PCR
Western Scrub-Jay	Kern	Bakersfield	09/01/05	09/12/05	93309	RT-PCR
Western Scrub-Jay	Lake	Lakeport	08/29/05	09/12/05	95453	RT-PCR
Western Scrub-Jay	Lake	Lakeport	09/06/05	09/12/05	95453	RT-PCR
Western Scrub-Jay	Lake	Nice	09/05/05	09/12/05	95464	RT-PCR
Western Scrub-Jay	Mendocino	Redwood Valley	08/30/05	09/12/05	95470	RT-PCR
Western Scrub-Jay	Mendocino	Ukiah	08/31/05	09/12/05	95482	RT-PCR
Western Scrub-Jay	Napa	Angwin	08/31/05	09/12/05	94508	RT-PCR
Western Scrub-Jay	Napa	Napa	08/31/05	09/12/05	94558	RT-PCR
Western Scrub-Jay	Napa	Pope Valley	08/31/05	09/12/05	94567	RT-PCR
Western Scrub-Jay	Napa	Napa	09/08/05	09/08/05	94558	VecTest
Western Scrub-Jay	Napa	St. Helena	08/31/05	08/31/05	94574	VecTest
Western Scrub-Jay	Nevada	Auburn	08/31/05	09/12/05	95602	RT-PCR
Western Scrub-Jay	Nevada	Auburn	09/06/05	09/12/05	95602	RT-PCR
Western Scrub-Jay	Placer	Auburn	08/26/05	09/12/05	95603	RT-PCR
Western Scrub-Jay	Placer	Auburn	08/29/05	09/12/05	95602	RT-PCR
Western Scrub-Jay	San Diego	Escondido	09/03/05	09/12/05	92029	RT-PCR
Western Scrub-Jay	San Diego	Fallbrook	09/01/05	09/12/05	92028	RT-PCR
Western Scrub-Jay	San Diego	Potrero	09/02/05	09/12/05	91963	RT-PCR
Western Scrub-Jay	San Diego	Pine Valley	09/02/05	09/02/05	91962	VecTest
Western Scrub-Jay	San Diego	Ramona	09/02/05	09/02/05	92065	VecTest
Western Scrub-Jay	Santa Clara	San Jose	09/01/05	09/12/05	95124	RT-PCR
Western Scrub-Jay	Santa Clara	San Jose	09/06/05	09/12/05	95122	RT-PCR
Western Scrub-Jay	Santa Clara	Campbell	09/01/05	09/01/05	95008	VecTest

# California Arbovirus Surveillance Bulletin # 31

Week 37 Friday, September 16, 2005

Western Scrub-Jay	Santa Clara	San Jose	09/02/05	09/02/05	95120	VecTest
Western Scrub-Jay	Santa Clara	San Jose	09/02/05	09/02/05	95111	VecTest
Western Scrub-Jay	Shasta	Cottonwood	08/31/05	09/12/05	96022	RT-PCR
Western Scrub-Jay	Solano	Fairfield	09/05/05	09/12/05	94533	RT-PCR
Western Scrub-Jay	Sonoma	Healdsburg	09/06/05	09/12/05	95448	RT-PCR
Western Scrub-Jay	Sonoma	Santa Rosa	08/29/05	09/12/05	95405	RT-PCR
Western Scrub-Jay	Stanislaus	Hughson	09/01/05	09/12/05	95326	RT-PCR
Western Scrub-Jay	Stanislaus	Westley	08/31/05	09/12/05	95387	RT-PCR
Western Scrub-Jay	Stanislaus	Turlock	09/01/05	09/01/05	95382	VecTest
Western Scrub-Jay	Tuolumne	Jamestown	08/30/05	09/12/05	95327	RT-PCR
Western Scrub-Jay	Tuolumne	Jamestown	08/30/05	09/12/05	95327	RT-PCR
Western Scrub-Jay	Tuolumne	Jamestown	08/30/05	09/12/05	95327	RT-PCR
Western Scrub-Jay	Tuolumne	Jamestown	08/30/05	09/12/05	95327	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	08/30/05	09/12/05	95370	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	08/30/05	09/12/05	95370	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	08/30/05	09/12/05	95370	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	08/30/05	09/12/05	95370	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	09/01/05	09/12/05	95370	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	09/01/05	09/12/05	95370	RT-PCR
Western Scrub-Jay	Tuolumne	Sonora	09/01/05	09/12/05	95370	RT-PCR
Western Scrub-Jay	Tuolumne	Soulsbyville	09/01/05	09/12/05	95372	RT-PCR
Western Scrub-Jay	Ventura	Camarillo	09/01/05	09/12/05	93010	RT-PCR
Western Scrub-Jay	Ventura	Simi Valley	09/06/05	09/12/05	93063	RT-PCR
Western Tanager	Marin	Novato	08/25/05	09/12/05	94947	RT-PCR
Western Tanager	Nevada	Nevada City	08/24/05	09/12/05	95959	RT-PCR
Yellow Warbler	San Mateo	Redwood City	08/26/05	09/12/05	94065	RT-PCR
Yellow-billed Magpie	Alameda	Livermore	09/08/05	09/08/05	94550	RAMP
Yellow-billed Magpie	Merced	Atwater	09/02/05	09/12/05	95301	RT-PCR
Yellow-billed Magpie	Santa Barbara	Santa Ynez	09/06/05	09/12/05	93460	RT-PCR
Yellow-billed Magpie	Stanislaus	Hughson	08/23/05	09/12/05	95326	RT-PCR
Yellow-billed Magpie	Stanislaus	Turlock	08/31/05	09/12/05	95380	RT-PCR
Yellow-billed Magpie	Stanislaus	Ceres	08/26/05	08/26/05	95307	VecTest
Yellow-billed Magpie	Stanislaus	Ceres	09/07/05	09/07/05	95307	VecTest
Yellow-billed Magpie	Stanislaus	Denair	08/26/05	08/26/05	95316	VecTest

**National Comments:**

As of September 13, 2005, West Nile virus (WNV) activity has been detected in 45 states and New York City (NYC). At this time in 2004, a total of 47 states, Puerto Rico, and NYC had published WNV activity. A total of 1,299 human WNV cases have been reported in 2005 from 37 states. At this time in 2004, 1,386 cases had been reported from 39 states and NYC. In 2005, of the 1,193 cases with available data, the median age is 50 years (range: 3 months-92 years) and 671 (56%) of the cases are male. Four hundred seventy-six (40%) of the cases are neuroinvasive. There have been 29 reported WNV-related fatalities. The median age of the 27 decedents where data is available was 80 years (range: 54-92 years).

# California Arbovirus Surveillance Bulletin # 31

Week 37 Friday, September 16, 2005

## TEST PROTOCOLS

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### **Dead Birds:**

All bird species, except chickens, doves, and pigeons, from all zip codes are currently being accepted for testing unless otherwise requested by a local agency. Positive RAMP and Vec-Tests from oral swabs from corvids are no longer confirmed. Other bird species are tested by singleplex RT-PCR and confirmed with a second primer set.

Dead birds are necropsied at the California Animal Health and Food Safety (CAHFS) Laboratories and kidney tissue from the dead birds are forward to the UC Davis Center for Vectorborne Diseases (CVEC) for WNV using the PCR Taqman assay. Organ pools from PCR positive carcasses are tested using cell culture for virus isolation. The WNV Dead Bird Surveillance Coordinator, Ryan Carney, can be reached directly at (510) 412-6254.

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### **Sentinel Chickens:**

Dried blood spot specimens from sentinel chickens submitted each week to the DHS Viral and Rickettsial Disease Laboratory (VRDL) are 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. The VRDL performs additional testing, including plaque reduction neutralization (PRNT), on specimens from sentinel chickens from geographic areas where WNV is detected for the first time. The VRDL also forwards selected serum to CVEC for additional testing for WNV, WEE, and SLE antibodies as needed.

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### **Mosquito Pools:**

All mosquito pools are 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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*Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch) and the Viral and Rickettsial Disease Laboratory Branch, Division of Communicable Disease Control, California Department of Health Services, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Al Hom by phone (510) 412-6252, FAX (510) 412-6263, or email [ahom@dhs.ca.gov].*