

# California Arbovirus Surveillance Bulletin # 23

Week 30 Friday, July 28, 2006

## Weekly Summary

### COMMENTS

#### Humans

A total of sixteen human WNV cases have been reported in 2006, from Fresno (1), Kern (10), San Joaquin (1), Stanislaus (1), Sutter (1), and Yolo (2) Counties. Four of the cases have been classified as West Nile neuroinvasive disease, and eleven as West Nile fever. The West Nile fever case from Sutter County was initially identified as an asymptomatic blood donor; this individual later developed symptoms compatible with West Nile fever and was consequently reclassified. There have been no WNV-related fatalities reported in California this year.

#### Horses

This week, the California Department of Food & Agriculture reported two equine cases of WNV from Lassen and San Joaquin Counties. This year, five horses have tested positive for WNV from Lassen (1), Merced (2), San Joaquin (1), and Tulare (1) Counties.

#### Dead Birds

This week, 68 out of 259 (26.3%) dead birds collected from 41 counties tested positive for WNV.

- 44/218 dead birds tested positive via RT-PCR.
- 19/34 dead birds tested positive via VecTest.
- 5/7 dead birds tested positive via RAMP.

The WNV positive dead birds were collected from the following counties: Butte (1); Contra Costa (6); Fresno (3); Glenn (1); Kern (2); Kings (3); Lassen (1); Merced (5); Placer (2); Sacramento (6); San Bernardino (2); San Joaquin (2); Santa Clara (14); Shasta (1); Solano (1); Stanislaus (10); Sutter (2); Ventura (1) and Yolo (5). **This is the first indication of WNV activity in Lassen County in 2006.**

In 2006, 219 out of 2,987 (7.4%) dead birds have tested positive for WNV from 24 counties: Butte (2); Contra Costa (9); Fresno (33); Glenn (2); Kern (5); Kings (5); Lake (1); Lassen (1); Merced (9); Orange (19); Placer (2); Sacramento (13); San Bernardino (3); San Diego (3); San Joaquin (24); San Mateo (1); Santa Clara (29); Shasta (8); Solano (6); Stanislaus (25); Sutter (2); Ventura (3); Yolo (13) and Yuba (1).

The hotline has received a total of 26,680 dead bird reports this year.

#### Mosquito Pools

CVEC reported 62 WNV positive mosquito pools this week from Contra Costa (3), El Dorado (1), Fresno (7), Inyo (3), Kern (16), Los Angeles (4), Orange (1), Placer (4), Stanislaus (5), and Sutter (18) Counties. **This is the first indication of WNV activity in Inyo County in 2006.**

Sac-Yolo MVCD reported 19 WNV positive mosquito pools from Sacramento (1) and Yolo (18) Counties. Eight mosquito pools tested positive for WNV by RAMP only from Imperial (2), San Bernardino (1), San Joaquin (4), and Stanislaus (1) Counties. In addition, Calaveras County reported one RAMP positive mosquito pool which will be sent to CVEC for confirmation.

In 2006, 277 mosquito pools have tested positive for WNV from 21 counties: Contra Costa (5); El Dorado (2); Fresno (21); Inyo (3); Glenn (1); Imperial (7); Kern (91); Kings (11); Los Angeles (7); Merced (2); Orange (1); Placer (5); Riverside (7); Sacramento (5); San Bernardino (1), San Joaquin (12); Santa Clara (4); Solano (1); Stanislaus (17); Sutter (43); Yolo (29); and Yuba (2). One mosquito pool from Kern County has tested positive for WEEV this year.

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## Sentinel Chickens

VRDL reported no new WNV positive chickens this week and sixty-one new flavivirus positive chickens from Fresno (4), Kern (41), Merced (3), Stanislaus (5), Tulare (2) and Yolo (6) counties. Additionally, San Joaquin County MVCD reported 1 flavivirus positive chicken from San Joaquin County. VRDL will conduct additional tests to confirm SLE or WNV.

In 2006, 11 WNV seroconversions have been confirmed in chickens from Fresno (1), Imperial (6), and Los Angeles (4) counties. Eighty flavivirus serconversions have been detected in chickens from Fresno (4), Imperial (12), Kern (41), Merced (3), San Joaquin (1), Stanislaus (5), Tulare (2) and Yolo (12) counties.

## 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	61	0	11	0	0	0	0	0	0
	YTD	736	0	16	0	0	0	0	0	0
Horses Tested	Week	7	0	2	0	0	0	0	0	0
	YTD	238	0	5	0	0	0	0	0	0

### Dead Birds

	Number Tested	WNV Positive
Week	259	68
YTD	2987	219

### Sentinel Chickens and Mosquito Pools

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Flavivirus* Positive
	YTD	17,529	11	0	0	80
Mosquito pools	Week	624	62	0	0	0
	YTD	8110	228	1	0	0

\*Does not include those later confirmed as WNV or SLE

### Mosquito pools tested by local agencies

		Number Tested	WNV Positive	WEE Positive	SLE Positive	Other Positive
YTD	2609	35	0	0	0	
RAMP	Week	178	8	N/A	N/A	N/A
	YTD	859	14*	--	--	--

\*Total does not include positive pools confirmed by RT-PCR

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## POSITIVES

### Humans

County	ID #	Report Date	Age	Sex	Clinical Presentation	Onset Date	WNV Fatality?
FRESNO	06-0006	7/24/2006	36	M	WNF	7/01/2006	NO
KERN	06-0007	7/25/2006	45	M	WNND	7/06/2006	NO
KERN	06-0008	7/25/2006	52	M	WNF	7/01/2006	NO
KERN	06-0009	7/25/2006	33	F	WNF	7/12/2006	NO
KERN	06-0010	7/25/2006	<18	M	WNF	7/12/2006	NO
KERN	06-0011	7/25/2006	49	F	WNF	7/03/2006	NO
KERN	06-0012	7/25/2006	41	M	WNF	7/06/2006	NO
KERN	06-0013	7/25/2006	38	F	WNF	7/06/2006	NO
YOLO	06-0014	7/27/2006	>18	M	WNF	7/09/2006	NO
YOLO	06-0015	7/27/2006	>18	M	N/A	7/07/2006	NO
KERN	06-0016	7/27/2006	48	F	WNF^	7/21/2006	NO

^ Initially identified in an asymptomatic blood donor

### Mosquito Pools

Agency Code	County	City	Species	Pool #	Collected	Tested	Virus
AFSB0035	Kern	Bakersfield	Cx tarsalis	5606	7/20/2006	7/26/2006	WN
AFSB0035	Kern	Bakersfield	Cx tarsalis	5607	7/20/2006	7/26/2006	WN
AFSB0035	Kern	Bakersfield	Cx tarsalis	5608	7/20/2006	7/26/2006	WN
AFSB0050	Kern	Bakersfield	Cx tarsalis	5611	7/20/2006	7/26/2006	WN
AFSB0055	Kern	Bakersfield	Cx tarsalis	5619	7/20/2006	7/26/2006	WN
AFSB0092	Kern	Bakersfield	Cx tarsalis	5616	7/20/2006	7/26/2006	WN
AFSB0102	Kern	Bakersfield	Cx quinquefasciatus	5628	7/21/2006	7/26/2006	WN
AFSB9999	Kern	Bakersfield	NA	5632	7/21/2006	7/26/2006	WN
CNSL1058	Fresno	Clovis	Cx tarsalis	143	7/19/2006	7/26/2006	WN
CNSL1125	Fresno	Fresno	Cx tarsalis	145	7/20/2006	7/26/2006	WN
CNSL3071	Fresno	Parlier	Cx quinquefasciatus	259	7/20/2006	7/26/2006	WN
CNSL3074	Fresno	Parlier	Cx quinquefasciatus	260	7/20/2006	7/26/2006	WN
CNSL4026	Fresno	Selma	Cx quinquefasciatus	265	7/21/2006	7/26/2006	WN
CNSL4026	Fresno	Selma	Cx quinquefasciatus	266	7/21/2006	7/26/2006	WN
CNSL4027	Fresno	Selma	Cx quinquefasciatus	267	7/21/2006	7/26/2006	WN
CNTR2299	Contra Costa	Pacheco	Cx pipiens	1160	7/21/2006	7/26/2006	WN
CNTR2900	Contra Costa	Martinez	Cx pipiens	1162	7/24/2006	7/27/2006	WN
CNTR7900	Contra Costa	Oakley	Cx tarsalis	1161	7/24/2006	7/27/2006	WN
COAV5002*	Imperial	Niland	Cx tarsalis	1116	7/27/2006	7/27/2006	WN
COAV5003*	Imperial	Westmoreland	Cx tarsalis	1118	7/27/2006	7/27/2006	WN
DAVI5101*	Yolo	Davis	Cx tarsalis	706	7/19/2006	7/24/2006	WN
DAVI5103*	Yolo	Davis	Cx tarsalis	841	7/21/2006	7/24/2006	WN
DAVI5107*	Yolo	Davis	Cx pipiens	678	7/19/2006	7/24/2006	WN
DAVI5111*	Yolo	Davis	Cx tarsalis	732	7/19/2006	7/24/2006	WN
DAVI5111*	Yolo	Davis	Cx tarsalis	822	7/20/2006	7/24/2006	WN
DAVI5113*	Yolo	Davis	Cx pipiens	685	7/19/2006	7/24/2006	WN
DAVI5115*	Yolo	Davis	Cx tarsalis	848	7/21/2006	7/24/2006	WN
DAVI5117*	Yolo	Davis	Cx pipiens	691	7/19/2006	7/24/2006	WN
DAVI5125*	Yolo	Davis	Cx tarsalis	799	7/20/2006	7/24/2006	WN
DAVI5125*	Yolo	Davis	Cx tarsalis	802	7/20/2006	7/24/2006	WN
DAVI5125*	Yolo	Davis	Cx tarsalis	814	7/20/2006	7/24/2006	WN

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EAST1020	Stanislaus	Valley Home	Cx tarsalis	60042	7/25/2006	7/27/2006	WN
EAST1021	Stanislaus	Valley Home	Cx tarsalis	60047	7/25/2006	7/27/2006	WN
EDVC1003	El Dorado	South Lake Tahoe	Cx tarsalis	5	7/25/2006	7/26/2006	WN
GRLA2636	Los Angeles	Van Nuys	Cx quinquefasciatus	5417	7/19/2006	7/26/2006	WN
GRLA2648	Los Angeles	Encino	Cx quinquefasciatus	5423	7/19/2006	7/28/2006	WN
GRLA2652	Los Angeles	Encino	Cx quinquefasciatus	5427	7/19/2006	7/26/2006	WN
GRLA2655	Los Angeles	Encino	Cx quinquefasciatus	5428	7/19/2006	7/26/2006	WN
INYO1003	INYO	Bishop	Cx tarsalis	21	7/26/2006	7/27/2006	WN
INYO1005	INYO	Big Pine	Cx tarsalis	24	7/26/2006	7/27/2006	WN
INYO1005	INYO	Big Pine	Cx tarsalis	33	7/26/2006	7/27/2006	WN
KERN2001	Kern	Bakersfield	Cx quinquefasciatus	336	7/21/2006	7/26/2006	WN
KERN2002	Kern	Bakersfield	Cx quinquefasciatus	338	7/21/2006	7/26/2006	WN
KERN2010	Kern	Bakersfield	Cx quinquefasciatus	340	7/21/2006	7/26/2006	WN
KERN2014	Kern	Bakersfield	Cx quinquefasciatus	341	7/21/2006	7/26/2006	WN
KERN2015	Kern	Bakersfield	Cx quinquefasciatus	342	7/21/2006	7/26/2006	WN
KERN2016	Kern	Bakersfield	Cx quinquefasciatus	343	7/21/2006	7/26/2006	WN
KERN2020	Kern	Bakersfield	Cx quinquefasciatus	345	7/21/2006	7/26/2006	WN
KERN2024	Kern	Bakersfield	Cx quinquefasciatus	339	7/21/2006	7/26/2006	WN
ORCO0002	Orange	Fullerton	Cx quinquefasciatus	469	7/19/2006	7/28/2006	WN
PLCR0025	Placer	Lincoln	Cx tarsalis	166	7/19/2006	7/26/2006	WN
PLCR0144	Placer	ELVERTA	Cx tarsalis	168	7/19/2006	7/26/2006	WN
PLCR0155	Placer	Sheridan	Cx tarsalis	173	7/19/2006	7/26/2006	WN
PLCR0280	Placer	Roseville	Cx tarsalis	164	7/19/2006	7/26/2006	WN
SAYO1104	Yolo	Zamora	Cx tarsalis	1587	7/20/2006	7/21/2006	WN
SAYO3233*	Yolo	Woodland	Cx tarsalis	1659	7/21/2006	7/24/2006	WN
SAYO3234	Yolo	Woodland	Cx tarsalis	1568	7/20/2006	7/21/2006	WN
SAYO3286*	Yolo	Davis	Cx pipiens	1634	7/21/2006	7/24/2006	WN
SAYO3286*	Yolo	Davis	Cx tarsalis	1695	7/19/2006	7/24/2006	WN
SAYO3286*	Yolo	Davis	Cx tarsalis	1700	7/19/2006	7/24/2006	WN
SAYO3346*	Yolo	Davis	Cx tarsalis	1710	7/20/2006	7/24/2006	WN
SAYO4365*	Sacramento	Galt	Cx pipiens	1625	7/21/2006	7/24/2006	WN
SJCM8026*	San Joaquin	Stockton	Cx tarsalis	6589	7/18/2006	7/25/2006	WN
SJCM8049*	San Joaquin	Stockton	Cx tarsalis	6642	7/25/2006	7/25/2006	WN
SJCM8049*	San Joaquin	Stockton	Cx tarsalis	6643	7/25/2006	7/25/2006	WN
SJCM8083*	San Joaquin	Escalon	Cx pipiens	6634	7/25/2006	7/25/2006	WN
SUYA0014	Sutter	Sutter	Cx tarsalis	236	7/24/2006	7/27/2006	WN
SUYA0015	Sutter	Robbins	Cx tarsalis	293	7/25/2006	7/27/2006	WN
SUYA0018	Sutter	Sutter National Wild	Cx tarsalis	302	7/25/2006	7/26/2006	WN
SUYA0018	Sutter	Sutter National Wild	Cx tarsalis	300	7/25/2006	7/28/2006	WN
SUYA0022	Sutter	Tudor	Cx tarsalis	230	7/24/2006	7/27/2006	WN
SUYA0031	Sutter	Rio Oso	Cx tarsalis	231	7/24/2006	7/27/2006	WN
SUYA0031	Sutter	Rio Oso	Cx tarsalis	234	7/24/2006	7/27/2006	WN
SUYA0044	Sutter	Pleasant Grove	Cx tarsalis	242	7/24/2006	7/27/2006	WN
SUYA0044	Sutter	Pleasant Grove	Cx tarsalis	243	7/24/2006	7/27/2006	WN
SUYA0044	Sutter	Pleasant Grove	Cx tarsalis	245	7/24/2006	7/27/2006	WN
SUYA0044	Sutter	Pleasant Grove	Cx tarsalis	248	7/24/2006	7/27/2006	WN
SUYA0044	Sutter	Pleasant Grove	Cx tarsalis	259	7/25/2006	7/27/2006	WN
SUYA0044	Sutter	Pleasant Grove	Cx tarsalis	260	7/25/2006	7/27/2006	WN
SUYA0044	Sutter	Pleasant Grove	Cx tarsalis	261	7/25/2006	7/27/2006	WN
SUYA0044	Sutter	Pleasant Grove	Cx tarsalis	264	7/25/2006	7/27/2006	WN
SUYA0063	Sutter	Pennington	Cx tarsalis	196	7/18/2006	7/28/2006	WN
SUYA0063	Sutter	Pennington	Cx tarsalis	277	7/25/2006	7/27/2006	WN

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SUYA0063	Sutter	Pennington	Cx tarsalis	280	7/25/2006	7/28/2006	WN
TRLK0306*	Stanislaus	Grayson	Cx tarsalis	972	7/25/2006	7/25/2006	WN
TRLK0317	Stanislaus	Newman	Cx tarsalis	983	7/25/2006	7/27/2006	WN
TRLK0322	Stanislaus	Modesto	Cx tarsalis	977	7/25/2006	7/27/2006	WN
TRLK0424	Stanislaus	Patterson	Cx tarsalis	1010	7/26/2006	7/27/2006	WN
WVAL6005*	San Bernardino	Ontario	Cx quinquefasciatus	412	7/26/2006	7/27/2006	WN

\*Tested by local agency

## Sentinel Chicken Seroconversions

Agency Code	County	Nearest City	Probable Seroconversion Date	Band #	Virus
CNSL5005	Fresno	Fresno	7/10/2006	1365	Flavivirus
CNSL5005	Fresno	Fresno	7/24/2006	1366	Flavivirus
CNSL5005	Fresno	Fresno	7/24/2006	1369	Flavivirus
CNSL5005	Fresno	Fresno	7/24/2006	1371	Flavivirus
DLNO0060	Tulare	Delano	7/6/2006	1483	Flavivirus
KERN0113	Kern	Bakersfield	7/3/2006	1949	Flavivirus
KERN0046	Kern	Wasco	7/17/2006	1874	Flavivirus
KERN0046	Kern	Wasco	7/17/2006	1876	Flavivirus
KERN0046	Kern	Wasco	7/17/2006	1879	Flavivirus
KERN0101	Kern	Lost Hills	7/3/2006	1864	Flavivirus
KERN0101	Kern	Lost Hills	7/3/2006	1865	Flavivirus
KERN0101	Kern	Lost Hills	7/3/2006	1867	Flavivirus
KERN0101	Kern	Lost Hills	7/3/2006	1869	Flavivirus
KERN0101	Kern	Lost Hills	7/17/2006	1866	Flavivirus
KERN0101	Kern	Lost Hills	7/17/2006	1868	Flavivirus
KERN0102	Kern	Buttonwillow	7/17/2006	1932	Flavivirus
KERN0102	Kern	Buttonwillow	7/17/2006	1938	Flavivirus
KERN0104	Kern	Old River	7/3/2006	1886	Flavivirus
KERN0104	Kern	Old River	7/17/2006	1881	Flavivirus
KERN0104	Kern	Old River	7/17/2006	1883	Flavivirus
KERN0104	Kern	Old River	7/17/2006	1888	Flavivirus
KERN0104	Kern	Old River	7/17/2006	1889	Flavivirus
KERN0105	Kern	Pumpkin Center	7/3/2006	1895	Flavivirus
KERN0105	Kern	Pumpkin Center	7/3/2006	1898	Flavivirus
KERN0105	Kern	Pumpkin Center	7/17/2006	1893	Flavivirus
KERN0107	Kern	Arvin	7/3/2006	1911	Flavivirus
KERN0107	Kern	Arvin	7/3/2006	1912	Flavivirus
KERN0107	Kern	Arvin	7/3/2006	1913	Flavivirus
KERN0107	Kern	Arvin	7/3/2006	1915	Flavivirus
KERN0107	Kern	Arvin	7/3/2006	1916	Flavivirus
KERN0107	Kern	Arvin	7/3/2006	1917	Flavivirus
KERN0107	Kern	Arvin	7/3/2006	1919	Flavivirus
KERN0107	Kern	Arvin	7/17/2006	1914	Flavivirus
KERN0107	Kern	Arvin	7/17/2006	1918	Flavivirus
KERN0107	Kern	Arvin	7/17/2006	1920	Flavivirus
KERN0111	Kern	Arvin	7/17/2006	1922	Flavivirus
KERN0111	Kern	Arvin	7/17/2006	1930	Flavivirus
KERN0113	Kern	Bakersfield	7/3/2006	1943	Flavivirus
KERN0113	Kern	Bakersfield	7/3/2006	1945	Flavivirus

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KERN0113	Kern	Bakersfield	7/3/2006	1946	Flavivirus
KERN0113	Kern	Bakersfield	7/3/2006	1948	Flavivirus
KERN0113	Kern	Bakersfield	7/17/2006	1941	Flavivirus
KERN0113	Kern	Bakersfield	7/17/2006	1942	Flavivirus
KERN0113	Kern	Bakersfield	7/17/2006	1944	Flavivirus
KERN0113	Kern	Bakersfield	7/17/2006	1947	Flavivirus
KERN0113	Kern	Bakersfield	7/17/2006	1950	Flavivirus
SAYO6000	Yolo	Dunnigan	7/20/2006	2788	Flavivirus
SAYO6002	Yolo	Dunnigan	7/20/2006	2791	Flavivirus
SAYO6002	Yolo	Woodland	7/20/2006	2755	Flavivirus
SAYO6003	Yolo	Winters	7/20/2006	2760	Flavivirus
SAYO6003	Yolo	Winters	7/20/2006	2767	Flavivirus
SAYO6003	Yolo	Winters	7/20/2006	2769	Flavivirus
SJCM9910*	San Joaquin		7/10/2006	3064	Flavivirus
TLRE0011	Tulare	Mefford Field	7/12/2006	3483	Flavivirus
TRLK0529	Stanislaus	Vernalis	7/17/2006	3511	Flavivirus
TRLK0529	Stanislaus	Vernalis	7/17/2006	3515	Flavivirus
TRLK9701	Merced	Grayson	7/3/2006	3523	Flavivirus
TRLK9701	Merced	Grayson	7/17/2006	3521	Flavivirus
TRLK9701	Merced	Grayson	7/17/2006	3522	Flavivirus
TRLK9702	Stanislaus	Patterson	7/3/2006	3532	Flavivirus
TRLK9702	Stanislaus	Patterson	7/17/2006	3533	Flavivirus
TRLK9702	Stanislaus	Patterson	7/17/2006	3541	Flavivirus

\*Tested by local agency

## WNV Positive Dead Birds

County	City	Species	Collected	Tested	ZIP	Tested By
Butte	Chico	Western Scrub-Jay	07/18/06	07/24/06	95928	RT-PCR
Contra Costa	Antioch	American Kestrel	07/17/06	07/24/06	94509	RT-PCR
Contra Costa	Martinez	Western Scrub-Jay	07/12/06	07/24/06	94553	RT-PCR
Contra Costa	Oakley	Western Scrub-Jay	07/17/06	07/24/06	94561	RT-PCR
Contra Costa	Oakley	Steller's Jay	07/17/06	07/17/06	94561	RAMP
Contra Costa	Oakley	Western Scrub-Jay	07/19/06	07/19/06	94561	RAMP
Contra Costa	Concord	American Crow	07/26/06	07/26/06	94520	RAMP
Fresno	Fresno	House Finch	07/17/06	07/24/06	93727	RT-PCR
Fresno	Fresno	House Sparrow	07/12/06	07/24/06	93720	RT-PCR
Fresno	Fresno	Western Scrub-Jay	07/13/06	07/24/06	93727	RT-PCR
Glenn	Willows	American Crow	07/21/06	07/21/06	95988	VecTest
Kern	Bakersfield	American Robin	07/13/06	07/24/06	93309	RT-PCR
Kern	Wasco	American Crow	07/12/06	07/24/06	93280	RT-PCR
Kings	Hanford	American Crow	07/12/06	07/24/06	93230	RT-PCR
Kings	Lemoore	American Crow	07/09/06	07/24/06	93245	RT-PCR
Kings	Lemoore	American Crow	07/11/06	07/24/06	93245	RT-PCR
Lassen	Standish	Swainson's Hawk	07/15/06	07/24/06	96128	RT-PCR
Merced	Atwater	American Crow	07/12/06	07/24/06	95301	RT-PCR
Merced	Atwater	Yellow-billed Magpie	07/13/06	07/24/06	95301	RT-PCR
Merced	Delhi	Swainson's Hawk	07/14/06	07/24/06	95315	RT-PCR
Merced	Gustine	Yellow-billed Magpie	07/17/06	07/24/06	95322	RT-PCR
Merced	Los Banos	Western Scrub-Jay	07/17/06	07/24/06	93635	RT-PCR
Placer	Granite Bay	Cooper's Hawk	07/12/06	07/24/06	95746	RT-PCR
Placer	Roseville	American Crow	07/17/06	07/24/06	95678	RT-PCR

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Sacramento	Antelope	American Robin	07/13/06	07/24/06	95843	RT-PCR
Sacramento	Antelope	Western Scrub-Jay	07/11/06	07/24/06	95843	RT-PCR
Sacramento	Elk Grove	American Crow	07/12/06	07/24/06	95624	RT-PCR
Sacramento	Sacramento	American Robin	07/14/06	07/24/06	95814	RT-PCR
Sacramento	Sacramento	Western Scrub-Jay	07/17/06	07/24/06	95841	RT-PCR
Sacramento	Wilton	American Crow	07/13/06	07/24/06	95693	RT-PCR
San Bernardino	Victorville	Western Scrub-Jay	07/11/06	07/24/06	92395	RT-PCR
San Bernardino	Fontana	American Crow	07/19/06	07/19/06	92335	RAMP
San Joaquin	Escalon	Yellow-billed Magpie	07/15/06	07/24/06	95320	RT-PCR
San Joaquin	Vernalis	Western Scrub-Jay	07/17/06	07/17/06	95385	VecTest
Santa Clara	San Jose	American Crow	07/13/06	07/13/06	95129	VecTest
Santa Clara	San Jose	American Crow	07/13/06	07/13/06	95129	VecTest
Santa Clara	Saratoga	American Crow	07/13/06	07/13/06	95070	VecTest
Santa Clara	Los Gatos	American Crow	07/11/06	07/11/06	95032	VecTest
Santa Clara	San Jose	American Crow	07/13/06	07/13/06	95129	VecTest
Santa Clara	Campbell	American Crow	07/13/06	07/13/06	95008	VecTest
Santa Clara	Saratoga	American Crow	07/13/06	07/13/06	95070	VecTest
Santa Clara	San Jose	American Crow	07/13/06	07/13/06	95129	VecTest
Santa Clara	Saratoga	American Crow	07/17/06	07/17/06	95070	VecTest
Santa Clara	Saratoga	American Crow	07/18/06	07/18/06	95070	VecTest
Santa Clara	San Jose	American Crow	07/19/06	07/19/06	95117	VecTest
Santa Clara	San Jose	American Crow	07/19/06	07/19/06	95130	VecTest
Santa Clara	San Jose	Western Scrub-Jay	07/19/06	07/19/06	95129	VecTest
Santa Clara	San Jose	American Crow	07/19/06	07/19/06	95130	VecTest
Shasta	Redding	American Crow	07/20/06	07/20/06	96001	VecTest
Solano	Dixon	American Crow	07/17/06	07/17/06	95620	RAMP
Stanislaus	Ceres	Western Scrub-Jay	07/10/06	07/24/06	95307	RT-PCR
Stanislaus	Modesto	American Crow	07/16/06	07/24/06	95355	RT-PCR
Stanislaus	Modesto	House Finch	07/12/06	07/24/06	95355	RT-PCR
Stanislaus	Newman	Yellow-billed Magpie	07/14/06	07/24/06	95360	RT-PCR
Stanislaus	Newman	Yellow-billed Magpie	07/16/06	07/24/06	95360	RT-PCR
Stanislaus	Patterson	Yellow-billed Magpie	07/17/06	07/24/06	95363	RT-PCR
Stanislaus	Turlock	Yellow-billed Magpie	07/11/06	07/24/06	95380	RT-PCR
Stanislaus	Turlock	Yellow-billed Magpie	07/12/06	07/24/06	95380	RT-PCR
Stanislaus	Newman	Western Scrub-Jay	07/19/06	07/19/06	95360	VecTest
Stanislaus	Turlock	American Crow	07/21/06	07/21/06	95382	VecTest
Sutter	Rio Oso	American Crow	07/14/06	07/24/06	95674	RT-PCR
Sutter	Yuba City	Barn Owl	07/16/06	07/24/06	95993	RT-PCR
Ventura	Thousand Oaks	Western Scrub-Jay	07/17/06	07/24/06	91362	RT-PCR
Yolo	Davis	American Crow	07/13/06	07/24/06	95616	RT-PCR
Yolo	Davis	Western Scrub-Jay	07/12/06	07/24/06	95616	RT-PCR
Yolo	Davis	White-tailed Kite	07/18/06	07/24/06	95616	RT-PCR
Yolo	Woodland	American Crow	07/14/06	07/24/06	95776	RT-PCR
Yolo	Woodland	Western Scrub-Jay	07/17/06	07/24/06	95695	RT-PCR

**National Comments:** As of July 25, 2006, WNV activity had been reported from 33 states and New York City (NYC). A total of 33 human cases were reported to the Centers for Disease Control and Prevention (CDC) from 12 states: California (3), Colorado (3), Idaho (7), Indiana (1), Iowa (1), Kansas (1), Mississippi (6), Missouri (1), Nebraska (2), South Dakota (5), Texas (2), and Utah (1). Sixteen of the cases (48%) presented with West Nile neuroinvasive disease, i.e. encephalitis or meningitis. The median age of the 33 cases was 49 years (range: 9-89 years) and 58% were male. One WNV-associated fatality has been reported in 2006, from Mississippi.

# California Arbovirus Surveillance Bulletin # 23

Week 30 Friday, July 28, 2006

## TEST PROTOCOLS

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### **Dead Birds:**

All bird 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 are necropsied at the California Animal Health and Food Safety (CAHFS) laboratory at UC Davis. Oral swabs from American Crows and kidney tissue from all other dead birds are forward to the UC Davis Center for Vector borne 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.

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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.

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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 Tina Albrecht by phone (510) 412-6298, FAX (510) 412-6263, or email [talbrech@dhs.ca.gov].*