

California Arbovirus Surveillance Bulletin # 29

Week 36 Friday, September 8, 2006

Weekly Summary

COMMENTS

Humans

This week, 21 new West Nile virus (WNV) cases were reported from 14 counties, **including the first human cases from Lake, Tehama, and Tulare counties in 2006.**

As of September 8, 2006, a total of 159 human West Nile virus (WNV) cases have been identified from the following 30 counties: Alameda (1), Butte (17), Colusa (2), Contra Costa (5), El Dorado (1), Fresno (8), Glenn (8), Kern (32), Kings (1), Lake (1), Los Angeles (4), Merced (1), Modoc (1), Mono (1), Nevada (1), Orange (3), Placer (4), Riverside (1), Sacramento (7), San Joaquin (5), San Luis Obispo (1), Santa Clara (4), Shasta (2), Solano (2), Stanislaus (7), Sutter (9), Tehama (2), Tulare (3), Ventura (3), and Yolo (22). Of the 159 WNV cases, 41 (26%) have been classified as West Nile neuroinvasive disease, and 112 (70%) as West Nile fever. The median age of all cases is 49 years (range: 8-86 years). The median age of neuroinvasive disease cases is 51 years (range: 19-86 years), while the median age of West Nile fever cases is 47 years (range: 8-79 years). Of the cases, 102 (64%) are male. Two WNV-related fatalities have been reported in California in 2006, from Butte (1) and Contra Costa (1) counties. Twenty-four WNV-positive blood donation samples have been identified to date; 11 of the individuals later developed symptoms so were reclassified as cases.

Horses

The California Department of Food & Agriculture reported 7 new equine cases of WNV this week from Fresno (2), Marin (1), Merced (1), San Luis Obispo (1), and Shasta (2) counties. This is the first WNV positive horse in Marin County this year.

In 2006, 38 horses have tested positive for WNV from 15 counties: Fresno (5); Kern (2); Lake (2); Lassen (7); Marin (1), Mendocino (1); Merced (3); Modoc (1); Sacramento (1); San Joaquin (1); San Luis Obispo (4); Shasta (2); Stanislaus (3); Tulare (2); and Yuba (2). Nineteen have died or were euthanized.

Dead Birds

This week, 81 out of 186 (43.5%) dead birds tested positive for WNV.

- 36/123 dead birds tested positive via RT-PCR.
- 39/56 dead birds tested positive via VecTest.
- 6/7 dead birds tested positive via RAMP.

The WNV positive dead birds were collected from 23 counties: Alameda (2); Amador (1); Contra Costa (4); El Dorado (2); Glenn (4); Inyo (1); Kern (1); Kings (1); Los Angeles (8); Madera (1); Mendocino (2); Merced (1); Placer (1); Sacramento (6); San Bernardino (2); San Diego (1); San Joaquin (2); Santa Clara (25); Shasta (5); Sonoma (2); Stanislaus (3); Tehama (3) and Ventura (3). **This is the first indication of WNV activity in Amador County in 2006.**

In 2006, 931 out of 4,423 (21.0%) dead birds have tested positive for WNV from 49 counties: Alameda (18); Amador (1); Butte (40); Calaveras (2); Colusa (9); Contra Costa (58); El Dorado (13); Fresno (62); Glenn (32); Humboldt (2); Inyo (8); Kern (20); Kings (10); Lake (6); Lassen (3); Los Angeles (28); Madera (1); Marin (3); Mariposa (1); Mendocino (6); Merced (28); Modoc (1); Mono (1); Monterey (2); Napa (3); Nevada (3); Orange (28); Placer (10); Sacramento (74); San Benito (1); San Bernardino (13); San Diego (6); San Joaquin (42); San Luis Obispo (6); San Mateo (3); Santa Barbara (3); Santa Clara (154); Santa Cruz (2); Shasta (53); Solano (12); Sonoma (7); Stanislaus (57); Sutter (2); Tehama (10); Trinity (1); Tulare (5); Ventura (30); Yolo (50) and Yuba (1).

Squirrel Update: This week, one tree squirrel from Contra Costa County tested positive for WNV. To date in 2006, 12 out of 73 (16.4%) dead tree squirrels have tested positive for WNV from the following 8 counties: Alameda (1); Butte (1); Contra Costa (3); Los Angeles (1); Marin (1); San Bernardino (2); San Mateo (1); and Shasta (2).

The California Department of Health Services has received a total of 37,489 dead bird reports (hotline and website) this year.

Mosquito Pools

CVEC reported 40 WNV positive mosquito pools this week from the following 10 counties: Alameda (1); Fresno (1); Kern (17); Lake (1); Los Angeles (10); Orange (2); Placer (2); Riverside (3); Shasta (1); and Stanislaus (2).

Sac-Yolo MIVCD reported 2 WNV positive mosquito pools from Sacramento (1) and Yolo (1) counties by RT-PCR. Two mosquito pools tested positive for WNV by RAMP only from Contra Costa (1) and San Bernardino (1) counties.

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In 2006, 683 mosquito pools have tested positive for WNV from 33 counties: Alameda (8), Butte (1), Calaveras (2), Contra Costa (15); El Dorado (2); Fresno (35); Glenn (1); Imperial (12); Inyo (3); Kern (203); Kings (27); Lake (11); Lassen (3); Los Angeles (58); Madera (2); Marin (1); Merced (3); Orange (8); Placer (18); Riverside (15); Sacramento (29); San Bernardino (22), San Joaquin (20); Santa Barbara (1); Santa Clara (9); Shasta (7); Solano (1); Stanislaus (43); Sutter (54); Tulare (3); Ventura (1); Yolo (59); and Yuba (6).

Three mosquito pools from Kern County have tested positive for western equine encephalomyelitis virus this year.

Sentinel Chickens

VRDL reported 50 new WNV positive chickens this week from 14 counties: Butte (9); Contra Costa (1); Fresno (3); Glenn (1); Imperial (2); Kern (3); Lake (1); Los Angeles (3); Sacramento (2); San Bernardino (5); Stanislaus (12); Sutter (4); Tulare (1); and Yuba (3). One WEE seroconversion was detected in a chicken from Kern County, and there were 6 new flavivirus positive chickens from Los Angeles (1) and Tulare (5) counties. In addition, San Joaquin MVCD reported 6 WNV positive chickens this week from San Joaquin County.

In 2006, 399 WNV seroconversions have been confirmed in chickens from Butte (44), Colusa (1), Contra Costa (25), Fresno (19), Glenn (10), Imperial (32), Kern (80), Kings (22), Lake (1), Los Angeles (12), Madera (4), Placer (5), Riverside (4), Sacramento (7), San Bernardino (5), San Joaquin (18), Solano (16), Stanislaus (28), Sutter (34), Tulare (16), Yolo (9), and Yuba (7) counties. Three WEE seroconversions have been detected in chickens from Kern (1) and Riverside (2) counties.

Website Information

For updated information on WNV, please visit the California WNV website, www.westnile.ca.gov, the CDC website, www.cdc.gov, and the USGS website, 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 | 43 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 |
| | YTD | 1003 | 0 | 159 | 0 | 0 | 0 | 0 | 0 | 0 |
| Horses Tested | Week | 18 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| | YTD | 338 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 0 |

Dead Birds

| | Number Tested | WNV Positive |
|------|---------------|--------------|
| Week | 186 | 81 |
| YTD | 4423 | 931 |

Sentinel Chickens and Mosquito Pools

| | | Number Tested | WNV Positive | WEE Positive | SLE Positive | Flavivirus* Positive |
|----------------|------|---------------|--------------|--------------|--------------|----------------------|
| | | | | | | |
| | YTD | 23,874 | 399 | 3 | 0 | 51 |
| Mosquito pools | Week | 546 | 40 | 0 | 0 | 0 |
| | YTD | 11615 | 549 | 3 | 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 | 4442 | 89 | 0 | 0 | 0 |
| RAMP | Week | 110 | 2 | N/A | N/A | N/A |
| | YTD | 1511* | 45 | -- | -- | -- |
| VecTest | Week | 9 | 0 | N/A | N/A | N/A |
| | YTD | 9 | 0 | -- | -- | -- |

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POSITIVES

| West Nile Virus Cases* Reported September 4 – September 8, 2006 | | | | | | | |
|---|-------------|---------------------|-----|-----|------------------------|------------|---------------|
| ID | Report Date | County ¹ | Age | Sex | Clin Pres ² | Onset Date | WNV Fatality? |
| 06-0139 | 09/01/06 | LAKE | 68 | F | WNND | n/a | NO |
| 06-0140 | 09/05/06 | SHASTA | >18 | n/a | WNND | Week 33 | NO |
| 06-0141 | 09/05/06 | VENTURA | >18 | n/a | WNF | n/a | NO |
| 06-0142 | 09/05/06 | SANTA CLARA | 53 | M | WNND | 07/27/06 | NO |
| 06-0143 | 09/05/06 | CONTRA COSTA | 22 | M | WNF^ | 08/14/06 | NO |
| 06-0144 | 09/05/06 | STANISLAUS | <18 | F | WNF | 08/31/06 | NO |
| 06-0145 | 09/05/06 | KERN | 53 | M | WNF | 08/23/06 | NO |
| 06-0146 | 09/05/06 | KERN | 51 | M | WNND | 07/31/06 | NO |
| 06-0147 | 09/06/06 | FRESNO | 74 | F | WNF | n/a | NO |
| 06-0148 | 09/06/06 | TULARE | 67 | M | WNF^ | 08/23/06 | NO |
| 06-0149 | 09/06/06 | LOS ANGELES | 48 | M | WNND | 08/11/06 | NO |
| 06-0150 | 09/06/06 | GLENN | >18 | M | WNF | n/a | NO |
| 06-0151 | 09/06/06 | GLENN | >18 | M | WNF | n/a | NO |
| 06-0152 | 09/06/06 | VENTURA | >18 | n/a | WNND | n/a | NO |
| 06-0153 | 09/07/06 | YOLO | >18 | M | WNF | 08/02/06 | NO |
| 06-0154 | 09/07/06 | BUTTE | >18 | M | WNF | 08/26/06 | NO |
| 06-0155 | 09/07/06 | BUTTE | >18 | F | WNND | 08/24/06 | NO |
| 06-0156 | 09/08/06 | TEHAMA | >18 | M | WNND | Week 34 | NO |
| 06-0157 | 09/08/06 | TEHAMA | >18 | F | n/a | Week 34 | NO |
| 06-0158 | 09/08/06 | TULARE | 76 | M | WNF | n/a | NO |
| 06-0159 | 09/08/06 | TULARE | 66 | M | WNF | 07/25/06 | NO |

* Cases of WNV illness in California residents with infection likely acquired in California

¹ County of residence

² Clinical presentation of WNV: WNF=fever; WNND=neuroinvasive

^ Initially identified as blood donor, later developed symptoms

Mosquito Pools

| Site Code | County | City | Pool # | Species | Collected | Tested | Virus |
|-----------|--------------|---------------|--------|---------------------|-----------|----------|-------|
| AFSB0035 | Kern | Bakersfield | 5785 | Cx quinquefasciatus | 8/31/2006 | 9/8/2006 | WN |
| AFSB0050 | Kern | Bakersfield | 5787 | Cx tarsalis | 8/31/2006 | 9/8/2006 | WN |
| AFSB0054 | Kern | Bakersfield | 5796 | Cx quinquefasciatus | 8/31/2006 | 9/8/2006 | WN |
| AFSB0102 | Kern | Bakersfield | 5770 | Cx quinquefasciatus | 8/30/2006 | 9/8/2006 | WN |
| AFSB1005 | Kern | Bakersfield | 5775 | Cx quinquefasciatus | 8/30/2006 | 9/8/2006 | WN |
| AFSB1009 | Kern | Bakersfield | 5772 | Cx quinquefasciatus | 8/30/2006 | 9/8/2006 | WN |
| ALCO9038 | Alameda | Pleasanton | 267 | Cx pipiens | 8/31/2006 | 9/8/2006 | WN |
| CNSL1214 | Fresno | Fresno | 176 | Cx tarsalis | 8/31/2006 | 9/6/2006 | WN |
| CNTR^ | Contra Costa | Pleasant Hill | 241 | Cx pipiens | 9/5/2006 | 9/5/2006 | WN |
| COAV0005 | Riverside | Mecca | 1190 | Cx tarsalis | 8/29/2006 | 9/8/2006 | WN |
| GRLA2416 | Los Angeles | Panorama City | 5551 | Cx quinquefasciatus | 9/1/2006 | 9/8/2006 | WN |
| GRLA2416 | Los Angeles | Panorama City | 5557 | Cx quinquefasciatus | 9/1/2006 | 9/7/2006 | WN |

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|-----------|----------------|------------------|------|---------------------|-----------|----------|----|
| GRLA2417 | Los Angeles | Panorama City | 5552 | Cx quinquefasciatus | 9/1/2006 | 9/7/2006 | WN |
| GRLA2418 | Los Angeles | Panorama City | 5558 | Cx quinquefasciatus | 9/1/2006 | 9/7/2006 | WN |
| GRLA2520 | Los Angeles | Los Angeles | 5561 | Cx quinquefasciatus | 8/30/2006 | 9/8/2006 | WN |
| GRLA2523 | Los Angeles | Los Angeles | 5537 | Cx quinquefasciatus | 8/30/2006 | 9/7/2006 | WN |
| GRLA2636 | Los Angeles | Van Nuys | 709 | Cx quinquefasciatus | 8/29/2006 | 9/7/2006 | WN |
| GRLA2658 | Los Angeles | Encino | 702 | Cx quinquefasciatus | 8/29/2006 | 9/8/2006 | WN |
| GRLA2665 | Los Angeles | Encino | 711 | Cx quinquefasciatus | 8/29/2006 | 9/7/2006 | WN |
| GRLA2953 | Los Angeles | Santa Fe Springs | 724 | Cx quinquefasciatus | 8/31/2006 | 9/8/2006 | WN |
| KERN2001 | Kern | Bakersfield | 498 | Cx quinquefasciatus | 9/1/2006 | 9/8/2006 | WN |
| KERN2007 | Kern | Bakersfield | 505 | Cx quinquefasciatus | 9/1/2006 | 9/8/2006 | WN |
| KERN2007 | Kern | Bakersfield | 506 | Cx quinquefasciatus | 9/1/2006 | 9/8/2006 | WN |
| KERN2007 | Kern | Bakersfield | 507 | Cx quinquefasciatus | 9/1/2006 | 9/8/2006 | WN |
| KERN2010 | Kern | Bakersfield | 508 | Cx quinquefasciatus | 9/1/2006 | 9/8/2006 | WN |
| KERN2016 | Kern | Bakersfield | 513 | Cx quinquefasciatus | 9/1/2006 | 9/8/2006 | WN |
| KERN2016 | Kern | Bakersfield | 514 | Cx quinquefasciatus | 9/1/2006 | 9/8/2006 | WN |
| KERN2018 | Kern | Bakersfield | 515 | Cx quinquefasciatus | 9/1/2006 | 9/8/2006 | WN |
| KERN2020 | Kern | Bakersfield | 519 | Cx quinquefasciatus | 9/1/2006 | 9/8/2006 | WN |
| KERN2024 | Kern | Bakersfield | 504 | Cx quinquefasciatus | 9/1/2006 | 9/8/2006 | WN |
| KERN2025 | Kern | Bakersfield | 522 | Cx quinquefasciatus | 9/1/2006 | 9/8/2006 | WN |
| LAKE1400 | Lake | Lakeport | 256 | Cx tarsalis | 8/30/2006 | 9/7/2006 | WN |
| ORCO0002 | Orange | Fullerton | 650 | Cx quinquefasciatus | 8/30/2006 | 9/6/2006 | WN |
| ORCO0021 | Orange | Orange | 659 | Cx quinquefasciatus | 8/31/2006 | 9/6/2006 | WN |
| PLCR0034 | Placer | Lincoln | 360 | Cx tarsalis | 8/29/2006 | 9/6/2006 | WN |
| PLCR0035 | Placer | Lincoln | 358 | Cx tarsalis | 8/29/2006 | 9/6/2006 | WN |
| RIVR0022 | Riverside | Murrieta | 437 | Cx erythrothorax | 9/6/2006 | 9/8/2006 | WN |
| RIVR0040 | Riverside | Moreno Valley | 415 | Cx tarsalis | 8/29/2006 | 9/8/2006 | WN |
| SAYO3346* | Sacramento | Sacramento | 3075 | Cx tarsalis | 8/30/2006 | 9/1/2006 | WN |
| SAYO4131* | Yolo | Davis | 3144 | Cx pipiens | 9/1/2006 | 9/1/2006 | WN |
| SHAS0054 | Shasta | Redding | 87 | Cx tarsalis | 8/30/2006 | 9/7/2006 | WN |
| TRLK0310 | Stanislaus | Grayson | 1252 | Cx pipiens | 9/6/2006 | 9/7/2006 | WN |
| TRLK0504 | Stanislaus | Denair | 1273 | Cx pipiens | 9/6/2006 | 9/7/2006 | WN |
| WVAL6005^ | San Bernardino | Ontario | 563 | Cx quinquefasciatus | 9/7/2006 | 9/7/2006 | WN |

*Local agency RT-PCR

^Local agency RAMP

Sentinel Chicken Seroconversions

| Site Number | County | Nearest City | Date Bled | Virus | BAND 01 | BAND 02 | BAND 03 | BAND 04 | BAND 05 |
|-------------|--------------|--------------|-----------|-------|---------|---------|---------|---------|---------|
| ANTV8656 | Los Angeles | Lancaster | 8/23/06 | Flav | 1072 | | | | |
| BUCO0002 | Butte | Oroville | 8/28/06 | WNV | 1614 | | | | |
| BUCO0003 | Butte | Oroville | 8/28/06 | WNV | 1626 | 1628 | | | |
| BUCO0005 | Butte | Honcut | 8/28/06 | WNV | 1648 | | | | |
| BUCO0006 | Butte | Chico | 8/14/06 | WNV | 1664 | 1666 | | | |
| BUCO0007 | Butte | Chico | 8/14/06 | WNV | 1668 | 1672 | | | |
| BUCO0007 | Butte | Chico | 8/28/06 | WNV | 1677 | | | | |
| CNTR2302 | Contra Costa | Martinez | 8/28/06 | WNV | 1437 | | | | |
| COAV5002 | Imperial | Niland | 8/21/06 | WNV | 4244 | | | | |
| COAV5003 | Imperial | Westmoreland | 8/21/06 | WNV | 1269 | | | | |

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|----------|----------------|----------------------|---------|------|------|------|------|------|------|
| DLNO0021 | Tulare | Earlimart | 8/31/06 | Flav | 1491 | 1496 | 1497 | 1498 | 1500 |
| DLNO0060 | Tulare | Delano | 8/31/06 | WNV | 1488 | | | | |
| FRNO0012 | Fresno | Fresno | 8/21/06 | WNV | 1559 | | | | |
| FRWS0001 | Fresno | Mendota Airport | 8/8/06 | WNV | 4113 | | | | |
| FRWS0021 | Fresno | Firebaugh | 8/8/06 | WNV | 4110 | | | | |
| GLEN9701 | Glenn | Center of City of Wi | 8/30/06 | WNV | 1600 | | | | |
| GRLA2223 | Los Angeles | Rowland Heights | 8/22/06 | WNV | 1733 | 1736 | 1740 | | |
| KERN0102 | Kern | Buttonwillow | 8/28/06 | WNV | 1934 | 1935 | | | |
| KERN0111 | Kern | Arvin | 7/31/06 | WEE | 1927 | | | | |
| KERN0111 | Kern | Arvin | 8/14/06 | WNV | 1923 | | | | |
| LAKE1000 | Lake | Upper Lake | 8/16/06 | WNV | 2214 | | | | |
| SANB0001 | San Bernardino | Needles | 8/9/06 | WNV | 2817 | 2821 | 2824 | | |
| SANB0001 | San Bernardino | Needles | 8/23/06 | WNV | 2818 | 2822 | | | |
| SAYO7002 | Sacramento | Hood | 8/31/06 | WNV | 2717 | 2721 | | | |
| SJCM9901 | San Joaquin | Lodi | 9/5/06 | WNV | 3068 | 3069 | 3071 | | |
| SJCM9906 | San Joaquin | French Camp | 9/5/06 | WNV | 3099 | 3101 | 3104 | | |
| SUYA0007 | Yuba | Marysville | 8/31/06 | WNV | 3438 | 3440 | | | |
| SUYA0014 | Sutter | Sutter | 8/31/06 | WNV | 3387 | 3389 | | | |
| SUYA0030 | Sutter | Live Oak | 8/31/06 | WNV | 3371 | 3377 | | | |
| SUYA0071 | Yuba | Olivehurst | 8/31/06 | WNV | 3427 | | | | |
| TRLK0402 | Stanislaus | Denair | 8/14/06 | WNV | 3570 | 3572 | 3574 | | |
| TRLK0402 | Stanislaus | Denair | 8/28/06 | WNV | 3569 | 3573 | 3575 | 3576 | |
| TRLK9702 | Stanislaus | Patterson | 8/28/06 | WNV | 3530 | 3531 | 3534 | 3535 | 3536 |

WNV Positive Dead Birds

| County | City | Zip | Species | Date Collected | Date Tested | Tested By |
|--------------|------------------|-------|----------------------|----------------|-------------|-----------|
| Alameda | Livermore | 94550 | American Crow | 09/01/06 | 09/01/06 | RAMP |
| Alameda | Pleasanton | 94588 | American Crow | 08/29/06 | 08/29/06 | RAMP |
| Amador | Plymouth | 95669 | Yellow-billed Magpie | 08/29/06 | 09/05/06 | PCR |
| Contra Costa | Antioch | 94509 | American Crow | 08/24/06 | 09/05/06 | PCR |
| Contra Costa | Antioch | 94509 | Western Scrub-Jay | 08/31/06 | 08/31/06 | RAMP |
| Contra Costa | Richmond | 94801 | American Crow | 08/23/06 | 09/05/06 | PCR |
| Contra Costa | Walnut Creek | 94598 | Western Scrub-Jay | 08/30/06 | 08/30/06 | RAMP |
| El Dorado | South Lake Tahoe | 96150 | Steller's Jay | 08/24/06 | 09/05/06 | PCR |
| El Dorado | South Lake Tahoe | 96150 | Steller's Jay | 08/25/06 | 09/05/06 | PCR |
| Glenn | Orland | 95963 | Yellow-billed Magpie | 08/31/06 | 08/31/06 | VecTest |
| Glenn | Orland | 95963 | Western Scrub-Jay | 08/31/06 | 08/31/06 | VecTest |
| Glenn | Willows | 95988 | American Crow | 08/31/06 | 08/31/06 | VecTest |
| Glenn | Willows | 95988 | American Crow | 08/31/06 | 08/31/06 | VecTest |
| Inyo | Bishop | 93514 | American Crow | 08/24/06 | 09/05/06 | PCR |
| Kern | Bakersfield | 93309 | American Crow | 08/22/06 | 09/05/06 | PCR |
| Kings | Hanford | 93230 | American Crow | 08/22/06 | 09/05/06 | PCR |
| Los Angeles | Burbank | 91502 | American Crow | 08/30/06 | 08/30/06 | VecTest |
| Los Angeles | Cerritos | 90703 | Canary | 08/25/06 | 09/05/06 | PCR |
| Los Angeles | Encino | 91316 | House Finch | 08/21/06 | 09/05/06 | PCR |
| Los Angeles | Los Angeles | 90039 | American Crow | 08/30/06 | 08/30/06 | VecTest |
| Los Angeles | Panorama City | 91402 | American Crow | 08/25/06 | 09/05/06 | PCR |
| Los Angeles | San Gabriel | 91775 | American Crow | 08/31/06 | 08/31/06 | VecTest |

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| Los Angeles | Valley Village | 91607 | American Crow | 08/22/06 | 09/05/06 | PCR |
| Los Angeles | Van Nuys | 91406 | American Crow | 08/31/06 | 08/31/06 | VecTest |
| Madera | Madera | 93638 | Western Scrub-Jay | 08/23/06 | 09/05/06 | PCR |
| Mendocino | Redwood Valley | 95470 | American Crow | 08/24/06 | 09/05/06 | PCR |
| Mendocino | Ukiah | 95482 | American Crow | 08/23/06 | 09/05/06 | PCR |
| Merced | Merced | 95340 | Yellow-billed Magpie | 08/21/06 | 09/05/06 | PCR |
| Placer | Loomis | 95650 | Western Scrub-Jay | 08/28/06 | 09/05/06 | PCR |
| Sacramento | Carmichael | 95608 | Western Scrub-Jay | 08/25/06 | 09/05/06 | PCR |
| Sacramento | Citrus Heights | 95621 | Western Scrub-Jay | 08/25/06 | 09/05/06 | PCR |
| Sacramento | Elk Grove | 95624 | American Crow | 08/21/06 | 09/05/06 | PCR |
| Sacramento | Sacramento | 95864 | House Finch | 08/24/06 | 09/05/06 | PCR |
| Sacramento | Sacramento | 95822 | American Crow | 08/29/06 | 09/05/06 | PCR |
| Sacramento | Wilton | 95693 | Western Scrub-Jay | 08/23/06 | 09/05/06 | PCR |
| San Bernardino | Montclair | 91763 | American Crow | 08/24/06 | 09/05/06 | PCR |
| San Bernardino | Ontario | 91761 | American Crow | 08/31/06 | 08/31/06 | RAMP |
| San Diego | La Mesa | 91941 | Western Scrub-Jay | 08/28/06 | 08/28/06 | VecTest |
| San Joaquin | Manteca | 95337 | Yellow-billed Magpie | 08/25/06 | 09/05/06 | PCR |
| San Joaquin | Vernalis | 95385 | American Kestrel | 08/22/06 | 09/05/06 | PCR |
| Santa Clara | Campbell | 95008 | American Crow | 08/19/06 | 08/19/06 | VecTest |
| Santa Clara | Campbell | 95008 | American Crow | 08/19/06 | 08/19/06 | VecTest |
| Santa Clara | Campbell | 95008 | American Crow | 08/28/06 | 08/28/06 | VecTest |
| Santa Clara | Los Gatos | 95030 | Western Scrub-Jay | 08/28/06 | 08/28/06 | VecTest |
| Santa Clara | Los Gatos | 95030 | American Crow | 08/28/06 | 08/28/06 | VecTest |
| Santa Clara | San Jose | 95138 | Unknown | 08/22/06 | 09/05/06 | PCR |
| Santa Clara | San Jose | 95132 | American Crow | 08/12/06 | 08/12/06 | VecTest |
| Santa Clara | San Jose | 95117 | American Crow | 08/17/06 | 08/17/06 | VecTest |
| Santa Clara | San Jose | 95117 | American Crow | 08/20/06 | 08/20/06 | VecTest |
| Santa Clara | San Jose | 95129 | American Crow | 08/20/06 | 08/20/06 | VecTest |
| Santa Clara | San Jose | 95129 | American Crow | 08/21/06 | 08/21/06 | VecTest |
| Santa Clara | San Jose | 95129 | American Crow | 08/28/06 | 08/28/06 | VecTest |
| Santa Clara | San Jose | 95125 | American Crow | 08/28/06 | 08/28/06 | VecTest |
| Santa Clara | Santa Clara | 95055 | Common Raven | 08/23/06 | 08/23/06 | VecTest |
| Santa Clara | Saratoga | 95070 | American Crow | 08/21/06 | 08/21/06 | VecTest |
| Santa Clara | Saratoga | 95070 | American Crow | 08/21/06 | 08/21/06 | VecTest |
| Santa Clara | Saratoga | 95070 | Western Scrub-Jay | 08/21/06 | 08/21/06 | VecTest |
| Santa Clara | Saratoga | 95070 | Western Scrub-Jay | 08/23/06 | 08/23/06 | VecTest |
| Santa Clara | Saratoga | 95070 | American Crow | 08/27/06 | 08/27/06 | VecTest |
| Santa Clara | Saratoga | 95070 | American Crow | 08/28/06 | 08/28/06 | VecTest |
| Santa Clara | Saratoga | 95070 | Western Scrub-Jay | 08/28/06 | 08/28/06 | VecTest |
| Santa Clara | Saratoga | 95070 | Western Scrub-Jay | 08/28/06 | 08/28/06 | VecTest |
| Santa Clara | Saratoga | 95070 | American Crow | 08/28/06 | 08/28/06 | VecTest |
| Santa Clara | Saratoga | 95070 | American Crow | 08/28/06 | 08/28/06 | VecTest |
| Santa Clara | Sunnyvale | 94086 | American Crow | 08/28/06 | 08/28/06 | VecTest |
| Shasta | Anderson | 96007 | Yellow-billed Magpie | 08/31/06 | 08/31/06 | VecTest |
| Shasta | Cottonwood | 96022 | Western Scrub-Jay | 08/25/06 | 08/25/06 | VecTest |
| Shasta | Redding | 96003 | Western Scrub-Jay | 08/24/06 | 09/05/06 | PCR |
| Shasta | Redding | 96001 | Western Scrub-Jay | 08/29/06 | 08/29/06 | VecTest |
| Shasta | Redding | 96002 | American Crow | 08/31/06 | 08/31/06 | VecTest |
| Sonoma | Eldridge | 95431 | American Crow | 08/25/06 | 08/25/06 | RAMP |
| Sonoma | Sonoma | 95476 | Western Scrub-Jay | 08/24/06 | 09/05/06 | PCR |

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|------------|-------------|-------|----------------------|----------|----------|---------|
| Stanislaus | Modesto | 95351 | Yellow-billed Magpie | 08/23/06 | 09/05/06 | PCR |
| Stanislaus | Turlock | 95380 | Yellow-billed Magpie | 08/24/06 | 09/05/06 | PCR |
| Stanislaus | Turlock | 95380 | Yellow-billed Magpie | 08/28/06 | 08/28/06 | VecTest |
| Tehama | Corning | 96021 | Yellow-billed Magpie | 08/17/06 | 09/05/06 | PCR |
| Tehama | Red Bluff | 96080 | Yellow-billed Magpie | 08/24/06 | 09/05/06 | PCR |
| Tehama | Red Bluff | 96080 | American Crow | 08/28/06 | 08/28/06 | VecTest |
| Ventura | Piru | 93040 | House Sparrow | 08/28/06 | 09/05/06 | PCR |
| Ventura | Simi Valley | 93065 | American Crow | 08/23/06 | 09/05/06 | PCR |
| Ventura | Simi Valley | 93065 | American Crow | 08/29/06 | 09/05/06 | PCR |

National Comments: As of September 5, 2006, WNV activity had been reported from 47 states and New York City (NYC). A total of 1267 human cases were reported to the Centers for Disease Control and Prevention (CDC) from 34 states: Arizona (13), Arkansas (9), California (138), Colorado (75), Connecticut (6), Florida (2), Georgia (3), Idaho (292), Illinois (39), Indiana (1), Iowa (9), Kansas (18), Louisiana (43), Michigan (4), Minnesota (42), Mississippi (32), Missouri (16), Montana (10), Nebraska (55), Nevada (85), New Jersey (1), New Mexico (2), New York (1), North Dakota (77), Ohio (3), Oklahoma (13), Oregon (22), Pennsylvania (5), South Dakota (68), Texas (101), Utah (62), West Virginia (1), Wisconsin (3), and Wyoming (16). Of the 1267 cases, 448 (35%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the 1258 cases where data was available was 50 years (range: 3 months - 95 years) and 55% were male. Thirty-six WNV-associated fatalities have been reported in 2006, from California (2), Colorado (1), Connecticut (1), Georgia (1), Idaho (3), Illinois (2), Kansas (3), Minnesota (3), Mississippi (2), North Dakota (1), Oklahoma (1), Pennsylvania (1), South Dakota (1), Texas (11), Utah (2), and Wyoming (1).

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TEST PROTOCOLS

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 forwarded 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.

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.

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.

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 Feiszli by phone (510) 412-6298, FAX (510) 412-6263, or email [tfeiszli@dhs.ca.gov].