

California Arbovirus Surveillance Bulletin # 24

Week 31 Friday, August 3, 2007

Weekly and Year-To-Date Summaries

WEEKLY COMMENTS



Humans

Twenty-two new human cases of West Nile virus (WNV) were reported this week from the following nine counties: Fresno (3), Glenn (1), Kern (10), Kings (1), Merced (2), Sacramento (1), San Joaquin (1), Santa Clara (1), and Stanislaus (2). **These are the first human cases reported this year from Kings, Sacramento, and Santa Clara counties.** A total of 64 WNV cases have been reported in 2007, for a statewide incidence of 0.19 cases per 100,000 people. Of the 64 cases reported, 37 (58%) are classified as West Nile fever, 26 (41%) are classified as neuroinvasive disease, and one is of unknown clinical presentation. The median age of all cases is 52 years (range: 2-96 years), and 36 cases (56%) are male. Five WNV-related fatalities have been reported in 2007 from Colusa (1), Kern (2), Kings (1), and San Joaquin (1) counties. Twenty WNV-positive blood donation samples have been reported this year; 11 of the individuals subsequently developed symptoms and were reclassified as cases.

Horses

No new equine cases were reported this week. To date in 2007, five horses from three counties have tested positive for WNV.

Dead Birds & Tree Squirrels

Seventy-nine WNV-positive dead birds were reported this week from 21 counties: Butte (6), Contra Costa (4), Fresno (9), Glenn (6), Humboldt (1), Kern (7), Los Angeles (2), Madera (1), Merced (3), Placer (1), Plumas (1), Sacramento (11), San Joaquin (1), Santa Clara (5), Shasta (9), Sonoma (1), Stanislaus (6), Tehama (2), Trinity (1), Tulare (1), and Yolo (1). **This is the first indication of WNV activity in Humboldt, Madera, Plumas, and Trinity counties this year.** A total of 502 dead birds from 37 counties have tested positive for WNV this year.

Two western gray squirrels from Santa Clara County tested positive for WNV this week. Seven squirrels from four 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

Eighty-five new WNV-positive mosquito pools were reported this week from 17 counties: Butte (2), Fresno (2), Kern (6), Kings (2), Lake (1), Los Angeles (6), Merced (1), Placer (2), Riverside (3), Sacramento (34), San Joaquin (2), Shasta (11), Stanislaus (6), Sutter (1), Tulare (1), Yolo (4), and Yuba (1). **This is the first WNV-positive mosquito pool detected in Merced County this year.** A total of 402 mosquito pools from 20 counties have tested positive for WNV this year.

This year, seven mosquito pools from Kern County have tested positive for western equine encephalomyelitis virus (WEE).

Sentinel Chickens

Thirty-seven new WNV seroconversions were reported this week from the following six counties: Glenn (5), Imperial (2), Kern (23), Stanislaus (4), Sutter (1), and Yuba (2). **These are the first seroconversions reported from Stanislaus, Sutter, and Yuba counties this year.** A total of 66 sentinel chickens from 14 counties have tested positive for WNV this year.

One WEE seroconversion from Kern County has been detected this year.

| 2007 & 2006 YTD West Nile Virus Comparisons | | |
|---|--------------|--------------|
| | 2007 | 2006 |
| Total # Dead Bird Reports | 18,893 | 28,748 |
| # Positive Counties | 42 | 37 |
| # Human Cases/ # Tested | 64 / 620 | 20 / 760 |
| # Horse Cases/ # Tested | 5 / 173 | 8 / 245 |
| # Positive Dead Birds/ # Tested | 502 / 3,071 | 299 / 3,209 |
| # Positive Mosquito Pools/ # Tested | 402 / 14,530 | 349 / 12,349 |
| # Positive Chicken Sera/ # Tested | 66 / 15,931 | 81 / 18,797 |
| # Positive Squirrels/ # Tested | 7 / 102 | 0 / 46 |

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YTD WNV Activity by Element and County, 2007

| County | Humans* | Horses | Dead Birds | Mosquito Pools | Sentinel Chickens | Squirrels |
|---------------------|-----------|----------|------------|----------------|-------------------|-----------|
| Alameda | | | 3 | | | |
| Butte | 2 | | 27 | 4 | | |
| Calaveras | | | 2 | | | |
| Colusa | 1 | | | | | |
| Contra Costa | | | 11 | | | |
| El Dorado | | | 1 | | | |
| Fresno | 5 | | 72 | 15 | 1 | 2 |
| Glenn | 2 | | 27 | 1 | 7 | |
| Humboldt | | | 1 | | | |
| Imperial | 1 | | | 2 | 8 | |
| Kern | 38 | 2 | 79 | 109 | 27 | |
| Kings | 1 | | 1 | 15 | 2 | |
| Lake | | | | 5 | | |
| Lassen | | | 1 | | | |
| Los Angeles | | | 7 | 14 | 1 | |
| Madera | | | 1 | | | |
| Mendocino | 1 | | | | | |
| Merced | 3 | | 20 | 1 | | |
| Nevada | | | 2 | | | |
| Orange | | | 9 | | | |
| Placer | | | 2 | 7 | | |
| Plumas | | | 1 | | | |
| Riverside | | | 1 | 11 | | |
| Sacramento | 1 | 1 | 30 | 82 | 2 | |
| San Bernardino | | | 4 | | 1 | |
| San Diego | | | 6 | | | |
| San Joaquin | 2 | | 21 | 71 | | 1 |
| San Luis Obispo | | | 2 | | | |
| San Mateo | | | | | | 1 |
| Santa Clara | 1 | | 37 | 4 | | 3 |
| Santa Cruz | | | 1 | | | |
| Shasta | 1 | | 34 | 13 | 1 | |
| Solano | | | 1 | | | |
| Sonoma | 1 | 2 | 1 | | | |
| Stanislaus | 4 | | 73 | 19 | 4 | |
| Sutter | | | 1 | 18 | 1 | |
| Tehama | | | 8 | | 7 | |
| Trinity | | | 1 | | | |
| Tulare | | | 5 | 2 | | |
| Tuolumne | | | 1 | | | |
| Yolo | | | 7 | 7 | 2 | |
| Yuba | | | 1 | 2 | 2 | |
| State Totals | 64 | 5 | 502 | 402 | 66 | 7 |

* Total does not include asymptomatic infections

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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TEST SUMMARIES

Human & Horse Cases

| | | Number Tested | WNV | | WEE | | SLE | | Other | |
|---------------|------|---------------|----------|-------|----------|-------|----------|-------|----------|-------|
| | | | Imported | Local | Imported | Local | Imported | Local | Imported | Local |
| Humans Tested | Week | 43 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 |
| | YTD | 620 | 0 | 64 | 0 | 0 | 0 | 0 | 0 | 0 |
| Horses Tested | Week | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | YTD | 173 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |

Dead Birds & Tree Squirrels

| | | Number Tested | WNV Positive |
|----------------|------|---------------|--------------|
| Dead Birds | Week | 234 | 79 |
| | YTD | 3071 | 502 |
| Tree Squirrels | Week | 9 | 2 |
| | YTD | 102 | 7 |

Sentinel Chickens & Mosquito Pools

| | | Number Tested | WNV Positive | WEE Positive | SLE Positive | Flavivirus* Positive |
|------------------------|------|---------------|--------------|--------------|--------------|----------------------|
| Chicken Sera | Week | 896 | 37 | 0 | 0 | 0 |
| | YTD | 15,931 | 66 | 1 | 0 | 0 |
| Mosquito Pools: RT-PCR | Week | 1621 | 83 | 0 | 0 | 0 |
| | YTD | 13,331 | 328 | 7 | 0 | 0 |
| Mosquito Pools: RAMP | Week | 72 | 2 | N/A | N/A | N/A |
| | YTD | 1,199 | 74 | N/A | N/A | N/A |

*Does not include those later confirmed as WNV or SLE

POSITIVES: 7/30/07-8/3/07

Dead Birds & Tree Squirrels

| County | City | Zip Code | Species | Reported | Tested | Test Method |
|--------------|---------------|----------|----------------------|----------|---------|-------------|
| Butte | Chico | 95926 | Western Scrub-Jay | 7/20/07 | 7/30/07 | RT-PCR |
| Butte | Chico | 95928 | American Crow | 7/20/07 | 7/30/07 | RT-PCR |
| Butte | Chico | 95928 | Yellow-billed Magpie | 7/21/07 | 7/30/07 | RT-PCR |
| Butte | Chico | 95973 | Ring-necked Pheasant | 7/19/07 | 7/30/07 | RT-PCR |
| Butte | Chico | 95973 | American Crow | 7/23/07 | 7/30/07 | RT-PCR |
| Butte | Paradise | 95969 | Western Scrub-Jay | 7/19/07 | 7/30/07 | RT-PCR |
| Contra Costa | Alamo | 94507 | California Towhee | 7/18/07 | 7/30/07 | RT-PCR |
| Contra Costa | Antioch | 94509 | Western Scrub-Jay | 7/17/07 | 7/30/07 | RT-PCR |
| Contra Costa | Oakley | 94561 | American Crow | 7/22/07 | 7/30/07 | RAMP |
| Contra Costa | San Ramon | 94583 | Yellow-billed Magpie | 7/18/07 | 7/30/07 | RT-PCR |
| Fresno | Clovis | 93611 | American Crow | 7/19/07 | 7/30/07 | RT-PCR |
| Fresno | Clovis | 93611 | American Crow | 7/20/07 | 7/30/07 | RT-PCR |
| Fresno | Clovis | 93619 | Barn Owl | 7/19/07 | 7/30/07 | RT-PCR |
| Fresno | Fresno | 93711 | Western Scrub-Jay | 7/23/07 | 7/30/07 | RT-PCR |
| Fresno | Fresno | 93720 | Western Scrub-Jay | 7/18/07 | 7/30/07 | RT-PCR |
| Fresno | Fresno | 93727 | American Crow | 7/16/07 | 7/30/07 | RT-PCR |
| Fresno | Sanger | 93657 | Western Scrub-Jay | 7/18/07 | 7/30/07 | RT-PCR |
| Fresno | Sanger | 93657 | Western Scrub-Jay | 7/18/07 | 7/30/07 | RT-PCR |
| Fresno | Sanger | 93657 | Western Scrub-Jay | 7/23/07 | 7/30/07 | RT-PCR |
| Glenn | Artois | 95913 | Yellow-billed Magpie | 7/23/07 | 7/30/07 | RT-PCR |
| Glenn | Hamilton City | 95951 | Western Scrub-Jay | 7/19/07 | 7/30/07 | RT-PCR |
| Glenn | Hamilton City | 95951 | Red-tailed Hawk | 7/25/07 | 7/30/07 | RT-PCR |
| Glenn | Orland | 95963 | Western Scrub-Jay | 7/19/07 | 7/30/07 | RT-PCR |

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|-------------|----------------|-------|-----------------------|-----------|-----------|---------|
| Glenn | Orland | 95963 | Western Scrub-Jay | 7/20/07 | 7/30/07 | RT-PCR |
| Glenn | Willows | 95988 | Yellow-billed Magpie | 7/17/07 | 7/30/07 | RT-PCR |
| Humboldt | Arcata | 95521 | American Crow | 7/24/07 | 7/30/07 | RT-PCR |
| Kern | Bakersfield | 93306 | Canary | 7/20/07 | 7/30/07 | RT-PCR |
| Kern | Bakersfield | 93308 | European Starling | 7/21/07 | 7/30/07 | RT-PCR |
| Kern | Bakersfield | 93308 | House Sparrow | 7/24/07 | 7/30/07 | RT-PCR |
| Kern | Bakersfield | 93309 | American Crow | 7/19/07 | 7/30/07 | RT-PCR |
| Kern | Bakersfield | 93309 | Western Scrub-Jay | 7/20/07 | 7/30/07 | RT-PCR |
| Kern | Bakersfield | 93312 | Mourning Dove | 7/25/07 | 7/30/07 | RT-PCR |
| Kern | Bakersfield | 93314 | California Towhee | 7/19/07 | 7/30/07 | RT-PCR |
| Los Angeles | Tarzana | 91356 | American Crow | 7/24/07 | 7/30/07 | RT-PCR |
| Los Angeles | West Covina | 91790 | American Crow | 7/23/07 | 7/30/07 | RT-PCR |
| Madera | Ahwahnee | 93601 | Western Scrub-Jay | 7/20/07 | 7/30/07 | RT-PCR |
| Merced | Atwater | 95301 | Western Scrub-Jay | 7/19/07 | 7/30/07 | RT-PCR |
| Merced | Merced | 95340 | Barn Owl | 7/18/07 | 7/30/07 | RT-PCR |
| Merced | Merced | 95340 | American Crow | 7/24/07 | 7/30/07 | RT-PCR |
| Placer | Roseville | 95661 | American Crow | 7/23/07 | 7/30/07 | RT-PCR |
| Plumas | Clio | 96106 | Goldfinch | 7/18/07 | 7/30/07 | RT-PCR |
| Sacramento | Citrus Heights | 95621 | House Finch | 7/24/07 | 7/30/07 | RT-PCR |
| Sacramento | Fair Oaks | 95628 | Yellow-billed Magpie | 7/24/07 | 7/30/07 | RT-PCR |
| Sacramento | Sacramento | 95818 | American Crow | 7/22/07 | 7/30/07 | RT-PCR |
| Sacramento | Sacramento | 95822 | Western Scrub-Jay | 7/24/07 | 7/30/07 | RT-PCR |
| Sacramento | Sacramento | 95822 | Western Scrub-Jay | 7/24/07 | 7/30/07 | RT-PCR |
| Sacramento | Sacramento | 95825 | Yellow-billed Magpie | 7/20/07 | 7/30/07 | RT-PCR |
| Sacramento | Sacramento | 95838 | American Crow | 7/23/07 | 7/30/07 | RT-PCR |
| Sacramento | Sacramento | 95841 | Yellow-billed Magpie | 7/23/07 | 7/30/07 | RT-PCR |
| Sacramento | Sacramento | 95841 | Yellow-billed Magpie | 7/25/07 | 7/30/07 | RT-PCR |
| Sacramento | Sacramento | 95842 | Western Scrub-Jay | 7/24/07 | 7/30/07 | RT-PCR |
| Sacramento | Sacramento | 95864 | American Crow | 7/22/07 | 7/30/07 | RT-PCR |
| San Joaquin | Thornton | 95686 | American Crow | 7/25/07 | 7/30/07 | VecTest |
| Santa Clara | Campbell | 95008 | American Crow | 7/24/07 | 7/30/07 | VecTest |
| Santa Clara | San Jose | 95124 | Western Gray Squirrel | 7/19/2007 | 7/30/2007 | RT- PCR |
| Santa Clara | San Jose | 95130 | Western Gray Squirrel | 7/19/2007 | 7/30/2007 | RT- PCR |
| Santa Clara | Santa Clara | 95050 | American Crow | 7/23/07 | 7/30/07 | VecTest |
| Santa Clara | Saratoga | 95070 | American Crow | 7/22/07 | 7/30/07 | VecTest |
| Santa Clara | Saratoga | 95070 | American Crow | 7/23/07 | 7/30/07 | VecTest |
| Santa Clara | Saratoga | 95070 | American Crow | 7/25/07 | 7/30/07 | VecTest |
| Shasta | Anderson | 96007 | American Crow | 7/25/07 | 7/30/07 | VecTest |
| Shasta | Cottonwood | 96022 | Western Scrub-Jay | 7/23/07 | 7/30/07 | VecTest |
| Shasta | Redding | 96001 | Yellow-billed Magpie | 7/23/07 | 7/30/07 | RT-PCR |
| Shasta | Redding | 96002 | Yellow-billed Magpie | 7/22/07 | 7/30/07 | RT-PCR |
| Shasta | Redding | 96002 | Western Scrub-Jay | 7/23/07 | 7/30/07 | VecTest |
| Shasta | Redding | 96002 | Western Scrub-Jay | 7/23/07 | 7/30/07 | VecTest |
| Shasta | Redding | 96002 | Western Scrub-Jay | 7/24/07 | 7/30/07 | VecTest |
| Shasta | Redding | 96003 | Western Scrub-Jay | 7/25/07 | 7/30/07 | RT-PCR |
| Shasta | Redding | 96003 | Western Scrub-Jay | 7/26/07 | 7/30/07 | VecTest |
| Sonoma | Santa Rosa | 95403 | Western Scrub-Jay | 7/24/07 | 7/30/07 | RT-PCR |
| Stanislaus | Ceres | 95307 | Yellow-billed Magpie | 7/20/07 | 7/30/07 | RT-PCR |
| Stanislaus | Modesto | 95357 | American Crow | 7/19/07 | 7/30/07 | RT-PCR |
| Stanislaus | Modesto | 95358 | Yellow-billed Magpie | 7/19/07 | 7/30/07 | RT-PCR |
| Stanislaus | Modesto | 95358 | Western Scrub-Jay | 7/19/07 | 7/30/07 | RT-PCR |
| Stanislaus | Turlock | 95382 | Yellow-billed Magpie | 7/19/07 | 7/30/07 | RT-PCR |
| Stanislaus | Turlock | 95382 | House Sparrow | 7/23/07 | 7/30/07 | RT-PCR |

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|---------|-------------|-------|-------------------|---------|---------|---------|
| Tehama | Red Bluff | 96080 | Western Scrub-Jay | 7/25/07 | 7/30/07 | VecTest |
| Tehama | Red Bluff | 96080 | Western Scrub-Jay | 7/25/07 | 7/30/07 | VecTest |
| Trinity | Weaverville | 96093 | House Wren | 7/19/07 | 7/30/07 | RT-PCR |
| Tulare | Visalia | 93277 | American Crow | 7/20/07 | 7/30/07 | RT-PCR |
| Yolo | Davis | 95616 | American Crow | 7/20/07 | 7/30/07 | RT-PCR |

Mosquito Pools

| County | Site Code | Pool # | Species | # in Pool | Collected | Tested | City | Virus |
|-------------|-----------|--------|---------------------|-----------|-----------|-----------|-----------------|-------|
| Butte | BUCO0064 | 12 | Cx tarsalis | 50 | 7/26/2007 | 7/31/2007 | Chico | WN |
| Butte | BUCO0064 | 15 | Cx tarsalis | 50 | 7/26/2007 | 7/31/2007 | Chico | WN |
| Fresno | CNSL1373 | 116 | Cx tarsalis | 50 | 7/26/2007 | 8/1/2007 | Clovis | WN |
| Fresno | CNSL4073 | 323 | Cx quinquefasciatus | 22 | 7/31/2007 | 8/1/2007 | Selma | WN |
| Kern | KERN2002 | 280 | Cx quinquefasciatus | 48 | 7/27/2007 | 8/2/2007 | Bakersfield | WN |
| Kern | KERN2010 | 283 | Cx quinquefasciatus | 32 | 7/27/2007 | 8/2/2007 | Bakersfield | WN |
| Kern | KERN2014 | 285 | Cx quinquefasciatus | 50 | 7/27/2007 | 8/2/2007 | Bakersfield | WN |
| Kern | KERN2016 | 287 | Cx quinquefasciatus | 41 | 7/27/2007 | 8/2/2007 | Bakersfield | WN |
| Kern | KERN2018 | 288 | Cx quinquefasciatus | 32 | 7/27/2007 | 8/2/2007 | Bakersfield | WN |
| Kern | KERN2020 | 291 | Cx quinquefasciatus | 37 | 7/27/2007 | 8/2/2007 | Bakersfield | WN |
| Kings | KNGS4003 | 139 | Cx quinquefasciatus | 50 | 7/31/2007 | 8/2/2007 | Hanford | WN |
| Kings | KNGS3030 | 128 | Cx tarsalis | 47 | 7/27/2007 | 8/3/2007 | Lemoore | WN |
| Lake | LAKE1001 | 153 | Cx tarsalis | 50 | 7/31/2007 | 8/2/2007 | Upper Lake | WN |
| Los Angeles | GRLA2650 | 5621 | Cx quinquefasciatus | 50 | 7/26/2007 | 8/3/2007 | Encino | WN |
| Los Angeles | GRLA2655 | 5634 | Cx quinquefasciatus | 50 | 7/26/2007 | 8/2/2007 | Encino | WN |
| Los Angeles | GRLA2549 | 5615 | Cx quinquefasciatus | 40 | 7/25/2007 | 8/2/2007 | Granada Hills | WN |
| Los Angeles | GRLA2539 | 5613 | Cx quinquefasciatus | 37 | 7/25/2007 | 8/2/2007 | Northridge | WN |
| Los Angeles | GRLA2540 | 5614 | Cx quinquefasciatus | 48 | 7/25/2007 | 8/2/2007 | Northridge | WN |
| Los Angeles | GRLA2637 | 5625 | Cx quinquefasciatus | 47 | 7/26/2007 | 8/3/2007 | Van Nuys | WN |
| Merced | MERC0102 | 28 | Cx tarsalis | 47 | 7/25/2007 | 7/31/2007 | Merced | WN |
| Placer | PLCR0425 | 178 | Cx tarsalis | 15 | 7/20/2007 | 7/31/2007 | Loomis | WN |
| Placer | PLCR0139 | 201 | Cx tarsalis | 50 | 7/27/2007 | 8/3/2007 | Roseville | WN |
| Riverside | COAV0030 | 1336 | Cx tarsalis | 32 | 7/24/2007 | 8/2/2007 | Mecca | WN |
| Riverside | COAV0045 | 1372 | Cx stigmatosoma | 29 | 7/26/2007 | 8/2/2007 | Mecca | WN |
| Riverside | COAV0048 | 1373 | Cx tarsalis | 30 | 7/26/2007 | 8/2/2007 | Mecca | WN |
| Sacramento | SAYO4120 | 3435 | Cx tarsalis | 17 | 7/27/07 | 7/27/07 | Antelope | WN |
| Sacramento | SAYO4122 | 3476 | Cx tarsalis | 20 | 7/27/07 | 7/27/07 | Antelope | WN |
| Sacramento | SAYO4126 | 3465 | Cx pipiens | 18 | 7/27/07 | 7/27/07 | Antelope | WN |
| Sacramento | SAYO4192 | 3662 | Cx pipiens | 13 | 07/29/07 | 07/30/07 | Carmichael | WN |
| Sacramento | SAYO4135 | 3637 | Cx pipiens | 40 | 07/29/07 | 07/30/07 | Citrus Heights | WN |
| Sacramento | SAYO4135 | 3641 | Cx pipiens | 50 | 07/29/07 | 07/30/07 | Citrus Heights | WN |
| Sacramento | SAYO4135 | 3693 | Cx tarsalis | 22 | 07/30/07 | 08/01/07 | Citrus Heights | WN |
| Sacramento | SAYO4135 | 3488 | Cx pipiens | 22 | 7/27/07 | 7/27/07 | Citrus Heights | WN |
| Sacramento | SAYO4136 | 3493 | Cx pipiens | 31 | 7/27/07 | 7/27/07 | Fair Oaks | WN |
| Sacramento | SAYO7002 | 3808 | Cx tarsalis | 50 | 07/31/07 | 08/01/07 | Hood | WN |
| Sacramento | SAYO7002 | 3809 | Cx tarsalis | 50 | 07/31/07 | 08/01/07 | Hood | WN |
| Sacramento | SAYO4124 | 3434 | Cx pipiens | 14 | 7/27/07 | 7/27/07 | North Highlands | WN |
| Sacramento | SAYO4224 | 3654 | Cx pipiens | 6 | 07/29/07 | 07/30/07 | Rancho Cordova | WN |
| Sacramento | SAYO4224 | 3741 | Cx tarsalis | 20 | 07/30/07 | 08/01/07 | Rancho Cordova | WN |
| Sacramento | SAYO4225 | 3585 | Cx tarsalis | 50 | 07/28/07 | 07/30/07 | Rancho Cordova | WN |
| Sacramento | SAYO4127 | 3519 | Cx tarsalis | 8 | 07/28/07 | 07/30/07 | Rio Linda | WN |
| Sacramento | SAYO4127 | 3702 | Cx tarsalis | 3 | 07/30/07 | 08/01/07 | Rio Linda | WN |

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| Sacramento | SAYO4163 | 3525 | Cx tarsalis | 24 | 07/28/07 | 07/30/07 | Rio Linda | WN |
| Sacramento | SAYO4163 | 3728 | Cx tarsalis | 34 | 07/30/07 | 08/01/07 | Rio Linda | WN |
| Sacramento | SAYO2102 | 3678 | Cx pipiens | 49 | 07/29/07 | 07/30/07 | Sacramento | WN |
| Sacramento | SAYO2102 | 3745 | Cx pipiens | 21 | 07/30/07 | 08/01/07 | Sacramento | WN |
| Sacramento | SAYO2102 | 3749 | Cx tarsalis | 24 | 07/30/07 | 08/01/07 | Sacramento | WN |
| Sacramento | SAYO2211 | 3924 | Cx tarsalis | 38 | 07/31/07 | 08/01/07 | Sacramento | WN |
| Sacramento | SAYO4128 | 3498 | Cx pipiens | 50 | 07/28/07 | 07/30/07 | Sacramento | WN |
| Sacramento | SAYO4128 | 3706 | Cx tarsalis | 2 | 07/30/07 | 08/01/07 | Sacramento | WN |
| Sacramento | SAYO4128 | 3709 | Cx tarsalis | 20 | 07/30/07 | 08/01/07 | Sacramento | WN |
| Sacramento | SAYO4177 | 3631 | Cx tarsalis | 50 | 07/29/07 | 07/30/07 | Sacramento | WN |
| Sacramento | SAYO4177 | 3632 | Cx tarsalis | 50 | 07/29/07 | 07/30/07 | Sacramento | WN |
| Sacramento | SAYO4177 | 3634 | Cx pipiens | 50 | 07/29/07 | 07/30/07 | Sacramento | WN |
| Sacramento | SAYO4177 | 3423 | Cx pipiens | 32 | 7/27/07 | 7/27/07 | Sacramento | WN |
| Sacramento | SAYO4280 | 3406 | Cx tarsalis | 32 | 7/27/07 | 7/27/07 | Sacramento | WN |
| Sacramento | SAYO2309 | 3794 | Cx tarsalis | 50 | 07/31/07 | 08/01/07 | Walnut Grove | WN |
| Sacramento | SAYO2207 | 3775 | Cx tarsalis | 46 | 07/31/07 | 08/01/07 | Wilton | WN |
| Sacramento | SAYO4335 | 3409 | Cx tarsalis | 21 | 7/27/07 | 7/27/07 | Wilton | WN |
| San Joaquin | SJCM8083 | 1092 | Cx pipiens | 50 | 07/28/07 | 07/30/07 | Escalon | WN |
| San Joaquin | SJCM8079 | 1126 | Cx pipiens | 44 | 08/01/07 | 08/01/07 | Manteca | WN |
| Shasta | SHAS0062 | 210 | Cx pipiens | 50 | 7/26/2007 | 8/1/2007 | Anderson | WN |
| Shasta | SHAS0062 | 226 | Cx pipiens | 50 | 7/26/2007 | 8/1/2007 | Anderson | WN |
| Shasta | SHAS0062 | 227 | Cx pipiens | 50 | 7/26/2007 | 8/1/2007 | Anderson | WN |
| Shasta | SHAS0081 | 120 | Cx pipiens | 50 | 7/25/2007 | 7/31/2007 | Redding | WN |
| Shasta | SHAS0082 | 124 | Cx tarsalis | 50 | 7/25/2007 | 7/31/2007 | Redding | WN |
| Shasta | SHAS0082 | 125 | Cx tarsalis | 50 | 7/25/2007 | 7/31/2007 | Redding | WN |
| Shasta | SHAS0082 | 133 | Cx pipiens | 50 | 7/25/2007 | 7/31/2007 | Redding | WN |
| Shasta | SHAS0082 | 145 | Cx pipiens | 50 | 7/25/2007 | 7/31/2007 | Redding | WN |
| Shasta | SHAS0083 | 156 | Cx pipiens | 50 | 7/25/2007 | 8/3/2007 | Redding | WN |
| Shasta | SHAS0083 | 173 | Cx pipiens | 50 | 7/25/2007 | 7/31/2007 | Redding | WN |
| Shasta | SHAS0083 | 175 | Cx pipiens | 50 | 7/25/2007 | 7/31/2007 | Redding | WN |
| Stanislaus | TRLK0434 | 942 | Cx pipiens | 13 | 7/31/2007 | 8/1/2007 | Ceres | WN |
| Stanislaus | TRLK9771 | 908 | Cx tarsalis | 23 | 7/31/2007 | 8/1/2007 | Grayson | WN |
| Stanislaus | TRLK0716 | 947 | Cx pipiens | 2 | 7/31/2007 | 8/1/2007 | hughson | WN |
| Stanislaus | TRLK0408 | 927 | Cx pipiens | 32 | 7/31/2007 | 8/1/2007 | Turlock | WN |
| Stanislaus | TRLK0432 | 981 | Cx pipiens | 50 | 7/31/2007 | 8/1/2007 | Turlock | WN |
| Stanislaus | TRLK0531 | 922 | Cx pipiens | 12 | 7/31/2007 | 8/1/2007 | Turlock | WN |
| Sutter | SUYA0014 | 235 | Cx tarsalis | 45 | 7/31/2007 | 8/1/2007 | Sutter | WN |
| Tulare | DLTA1353 | 63 | Cx quinquefasciatus | 50 | 7/31/2007 | 8/2/2007 | Dinuba | WN |
| Yolo | SAYO3334 | 3897 | Cx pipiens | 18 | 07/31/07 | 08/01/07 | Davis | WN |
| Yolo | SAYO3273 | 3949 | Cx tarsalis | 50 | 07/31/07 | 08/01/07 | Woodland | WN |
| Yolo | SAYO6002 | 3845 | Cx tarsalis | 50 | 07/31/07 | 08/01/07 | Woodland | WN |
| Yolo | SAYO1104 | 3862 | Cx tarsalis | 20 | 07/31/07 | 08/01/07 | Zamora | WN |
| Yuba | SUYA0097 | 228 | Cx tarsalis | 31 | 7/30/2007 | 8/1/2007 | Marysville | WN |

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Sentinel Chickens

| County | Site Code | Nearest City | Date Bled | Virus | Band 1 | Band 2 | Band 3 | Band 4 | Band 5 | Band 6 | Band 7 |
|------------|-----------|----------------|-----------|-------|--------|--------|--------|--------|--------|--------|--------|
| Glenn | GLEN9701 | Willows | 7/25/2007 | WN | 1662 | 1663 | 1664 | 1665 | 1670 | | |
| Imperial | IMPR16 | Holtville | 7/31/2007 | WN | 1766 | | | | | | |
| Imperial | IMPR2 | Seeley | 7/31/2007 | WN | 1753 | | | | | | |
| Kern | KERN111 | Arvin | 7/23/2007 | WN | 1843 | 1845 | 1847 | 1848 | 1849 | 1850 | |
| Kern | KERN107 | Arvin | 7/23/2007 | WN | 1831 | 1832 | 1833 | 1834 | 1839 | 1929 | |
| Kern | KERN105 | Pumpkin Center | 7/23/2007 | WN | 1811 | 1812 | 1816 | 1817 | 1819 | 1927 | 1928 |
| Kern | KERN104 | Old River | 7/23/2007 | WN | 1802 | 1807 | 1808 | 1810 | | | |
| Stanislaus | EAST1947 | Modesto | 7/25/2007 | WN | 1584 | 1586 | 1587 | 1590 | | | |
| Sutter | SUYA31 | Rio Oso | 7/26/2007 | WN | 3217 | | | | | | |
| Yuba | SUYA7 | Marysville | 7/26/2007 | WN | 3191 | 3194 | | | | | |

NATIONAL COMMENTS

As of July 31, 2007, WNV activity had been reported from 37 states. A total of 185 human cases had been reported in the following 22 states: Alabama (4), Arizona (7), Arkansas (1), California (42), Colorado (10), Idaho (8), Illinois (3), Iowa (2), Kansas (3), Minnesota (4), Mississippi (13), Missouri (2), Nebraska (12), Nevada (1), New Mexico (2), North Dakota (14), Ohio (1), South Dakota (38), Texas (6), Utah (2), Virginia (1), and Wyoming (9). Of the 185 cases reported, 60 (32%) had West Nile neuroinvasive disease (i.e. encephalitis or meningitis). The median age of the cases was 47 years (range: 15 months-96 years) and 59% were male. Five human fatalities had been reported from Alabama (1), California (2), Mississippi (1), and South Dakota (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

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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