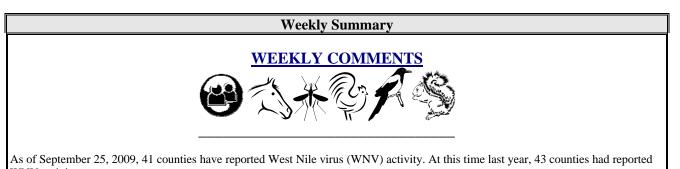
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WNV activity.

Humans

Fourteen new cases of West Nile virus have been reported from the following 8 counties: Fresno (2), Kings (1), Los Angeles (1), Orange (2), Riverside (1), San Joaquin (2), Stanislaus (3), and Yolo (2). These are the first human cases reported from Riverside and Yolo counties this year. In 2009, 61 human cases of West Nile virus (WNV) have been identified in 14 counties: Butte (1), Contra Costa (1), El Dorado (1), Fresno (9), Kern (11), Kings (3), Los Angeles (10), Merced (1), Orange (3), Riverside (1), San Diego (2), San Joaquin (4), Stanislaus (12), and Yolo (2). Of the 61 individuals, 31 (51%) developed neuroinvasive symptoms. The median age of the 61 individuals is 53 years (range: 15-88 years), and 39 (64%) are male. Two fatalities have been reported in Fresno (1) and Merced (1) counties. In addition, 15 WNV-positive blood donation samples have been reported this year; 5 of the individuals developed symptoms and were reclassified as cases. At this time last year, 236 human cases had been reported from 22 counties.

Horses

Two new equine cases of WNV have been reported from Merced and Tehama counties. In 2009, 11 equine cases of WNV have been identified in 8 counties: Contra Costa (1), Los Angeles (1), Merced (1), Shasta (1), San Joaquin (3), Solano (1), Stanislaus (2), and Tehama (1). 4 of the cases were euthanized as a result of their illness. At this time last year, 18 cases had been reported from 11 counties.

Dead Birds & Tree Squirrels

Twenty-three WNV positive dead birds were reported this week from the following 12 counties: Contra Costa (5), Fresno (1), Glenn (1), Los Angeles (5), Orange (1), Sacramento (1), San Bernardino (1), San Diego (3), Stanislaus (1), Tulare (2), Ventura (1), and Yolo (1). In 2009, 443 birds from 35 counties have tested positive for WNV. At this time last year, 1,965 WNV positive dead birds had been reported from 40 counties.

Three WNV positive tree squirrels were reported this week from Sacramento (1), San Bernardino (1), and Santa Clara (1) counties. This is the first WNV positive tree squirrel reported from Sacramento County this year. In 2009, 9 tree squirrels from 7 counties have tested positive for WNV. At this time last year, 22 WNV positive tree squirrels had been reported from 5 counties.

Mosquito Pools

Forty-one WNV positive mosquito pools were reported this week from the following 11 counties: Fresno (7), Kern (1), Kings (8), Los Angeles (8), Merced (3), Orange (1), Placer (1), San Bernardino (5), San Joaquin (2), Stanislaus (4), and Tulare (1). In 2009, 1,008 mosquito pools have tested positive for WNV from 27 counties. At this time last year, 1,723 WNV positive mosquito pools had been reported from 26 counties.

Sentinel Chickens

Fifty-one WNV seroconversions were reported this week from the following 9 counties: Butte (10), Contra Costa (5), Kern (13), Merced (2), Placer (7), Riverside (1), Stanislaus (7), Sutter (1), and Tulare (5). These are the first WNV positive chickens detected in Placer County this year. In 2009, 306 chickens from 19 counties have tested positive for WNV antibodies. At this time last year, 255 WNV seroconversions had been reported from 18 counties.

Website Information: For updated information on WNV in California, please visit the California WNV website, <u>www.westnile.ca.gov</u>, or the California Vectorborne Disease Surveillance System website, <u>www.calsurv.org</u>. For national information on WNV and other arboviruses, please visit the CDC website, <u>www.cdc.gov</u>, and the USGS website, <u>www.westnilemaps.usgs.gov</u>.

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| YTD WNV Activity by Element and County, 2009 County Humans Horses Dead Birds Mosquito Pools Sentinel Chickens Squirre | | | | | | | | | |
|--|--------|--------|---------|------|-------------------|-----------|--|--|--|
| Alameda | numans | norses | 10 | 1 | Sentiner Chickens | Squirrels | | | |
| | | | 10 | I | | | | | |
| Amador Butte | 1 | | 12 | 4 | 23 | | | | |
| Colusa | I | | 2 | 4 | 23 | | | | |
| | 4 | 4 | | 47 | 10 | 4 | | | |
| Contra Costa | 1 | 1 | 36 9 | 17 | 10 | 1 | | | |
| El Dorado | 1 | | | 404 | 44 | 4 | | | |
| Fresno Glenn | 9 | | 62 5 | 131 | 11 | 1 | | | |
| | | | Э | 2 | 24 | | | | |
| Imperial | 4.4 | | 07 | 3 | 34 | 4 | | | |
| Kern | 11 | | 27 | 128 | 76 | 1 | | | |
| Kings | 3 | | 9 | 105 | | | | | |
| Lake | 40 | 4 | 2 | 2 | 04 | | | | |
| Los Angeles | 10 | 1 | 65 | 76 | 31 | | | | |
| Madera | | | 11 | 3 | 2 | | | | |
| Merced | 1 | 1 | 4 | 11 | 9 | | | | |
| Modoc | | | 1 | | | | | | |
| Mono | | | 0 | 1 | | | | | |
| Monterey | | | 3 | | 2 | | | | |
| Napa | 0 | | - | | 3 | | | | |
| Orange | 3 | | 7 | 11 | _ | | | | |
| Placer | | | 4 | 40 | 7 | | | | |
| Riverside | 1 | | 1 | 24 | 20 | | | | |
| Sacramento | | | 22 | 36 | 2 | 1 | | | |
| San Bernardino | - | | 14 | 49 | 8 | 2 | | | |
| San Diego | 2 | | 31 | 5 | 4 | | | | |
| San Francisco | | - | 1 | | • | | | | |
| San Joaquin | 4 | 3 | 22 | 80 | 9 | | | | |
| San Mateo | | | 1 | | | | | | |
| Santa Barbara | | | 1 | | | - | | | |
| Santa Clara | | | 11 | 14 | | 2 | | | |
| Santa Cruz | | | 1 | | | | | | |
| Shasta | | 1 | 6 | 2 | | | | | |
| Solano | | 1 | 2 | 2 | 5 | | | | |
| Stanislaus | 12 | 2 | 25 | 92 | 21 | | | | |
| Sutter | | | | 25 | 6 | | | | |
| Tehama | | 1 | | | | 1 | | | |
| Tulare | | | 24 | 129 | 25 | | | | |
| Tuolumne | | | 2 | | | | | | |
| Ventura | | | 3 | | | | | | |
| Yolo | 2 | | 6 | 16 | 2 | | | | |
| Yuba | | | | 1 | | | | | |
| Total | 61 | 11 | 443 | 1008 | 306 | 9 | | | |

YTD WNV Activity by Element and County, 2009

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| 2009 & 2008 YTD West Nile Virus Comparisons | | | | | | | | |
|---|----------------|----------------|--|--|--|--|--|--|
| | 2008 | 2009 | | | | | | |
| Total # Dead Bird Reports | 28,161 | 13,676 | | | | | | |
| # Positive Counties | 43 | 41 | | | | | | |
| # Human Cases / # Tested | 236 / 823 | 61 / 745 | | | | | | |
| # Horse Cases / # Tested | 18 / 198 | 11 / 162 | | | | | | |
| # Positive Dead Birds / # Tested | 1,965 /4,859 | 443 / 2,411 | | | | | | |
| # Positive Mosquito Pools / # Tested | 1,723 / 25,560 | 1,008 / 22,583 | | | | | | |
| # Positive Chicken Sera / # Tested | 255 / 23,101 | 306 / 19,653 | | | | | | |
| # Positive Squirrels / # Tested | 22 / 231 | 9 / 85 | | | | | | |

TEST SUMMARIES

Human & Horse Cases

| | | Number | | | W | WEE | | SLE | | ner |
|----------------|------|--------|----------|-------|----------|-------|----------|-------|----------|-------|
| | | Tested | Imported | Local | Imported | Local | Imported | Local | Imported | Local |
| Humans Tested* | Week | 17 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 |
| | YTD | 745 | 1 | 60 | 0 | 0 | 0 | 0 | 0 | 0 |
| Horses Tested | Week | 9 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| norses resteu | YTD | 162 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 |

Dead Birds & Tree Squirrels

| | | Number Tested | WNV Positive |
|-----------|------|------------------|-----------------|
| Dead | Week | 64 | 23 |
| Birds | YTD | 2,411 | 443 |
| Tree | Week | 4 | 3 |
| Squirrels | YTD | 85 | 9 |

Sentinel Chickens & Mosquito Pools

| | | Number Tested | WNV Positive | SLE Positive | WEE Positive |
|-----------------|------|------------------|-----------------|-----------------|-----------------|
| Chicken Sera | Week | 875 | 51 | 0 | 0 |
| | YTD | 19,653 | 306 | 0 | 0 |
| Mosquito Pools: | Week | 1,143 | 39 | 0 | 0 |
| RT-PCR | YTD | 21,586 | 941 | 0 | 0 |
| Mosquito Pools: | Week | 109 | 2 | N/A | N/A |
| RAMP | YTD | 997 | 67 | N/A | N/A |

POSITIVES

Dead Birds & Tree Squirrels

| Deau Difus a 1 | itee bequirrens | | | | | | | |
|----------------|----------------------------|-------------|-------|----------------------|----------|---------|--------|-------|
| County | Submitting Agency | City | Zip | Species | Reported | Tested | Method | Virus |
| Contra Costa | Contra Costa MVCD | Brentwood | 94513 | American Crow | 9/22/09 | 9/22/09 | RAMP | WNV |
| Contra Costa | Contra Costa MVCD | Brentwood | 94513 | American Crow | 9/17/09 | 9/17/09 | RAMP | WNV |
| Contra Costa | Contra Costa MVCD | Brentwood | 94513 | Western Scrub-Jay | 9/18/09 | 9/18/09 | RAMP | WNV |
| Contra Costa | Contra Costa MVCD | Danville | 94526 | American Crow | 9/21/09 | 9/22/09 | RAMP | WNV |
| Contra Costa | Contra Costa MVCD | San Ramon | 94583 | American Crow | 9/22/09 | 9/23/09 | RAMP | WNV |
| Fresno | Fresno MVCD | Fresno | 93711 | American Crow | 8/3/09 | 9/21/09 | RT-PCR | WNV |
| Glenn | Glenn Co MVCD | Orland | 95963 | Yellow-billed Magpie | 9/16/09 | 9/21/09 | RT-PCR | WNV |
| Los Angeles | Greater Los Angeles Co VCD | Cerritos | 90703 | American Crow | 9/9/09 | 9/21/09 | RT-PCR | WNV |
| Los Angeles | Greater Los Angeles Co VCD | Los Angeles | 91040 | American Crow | 9/14/09 | 9/21/09 | RT-PCR | WNV |

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| Los Angeles | Los Angeles Co Vet | Sherman Oaks | 91403 | American Crow | 9/10/09 | 9/21/09 | RT-PCR | WNV |
|----------------|----------------------------|---------------------|-------|--------------------------|---------|---------|---------|-----|
| Los Angeles | Los Angeles Co Vet | Sherman Oaks | 91423 | American Crow | 9/15/09 | 9/21/09 | RT-PCR | WNV |
| Los Angeles | Los Angeles Co Vet | Valencia | 91355 | American Crow | 9/14/09 | 9/21/09 | RT-PCR | WNV |
| Orange | Orange Co VCD | Anaheim | 92807 | American Crow | 7/7/09 | 9/21/09 | RT-PCR | WNV |
| Sacramento | Sacramento-Yolo MVCD | Sacramento | 95831 | Western Scrub-Jay | 9/10/09 | 9/21/09 | RT-PCR | WNV |
| Sacramento | Sacramento-Yolo MVCD | Sacramento | 95841 | Eastern Gray Squirrel | 9/9/09 | 9/21/09 | RT-PCR | WNV |
| San Bernardino | San Bernardino VCD | Running Springs | 92382 | Fox Squirrel | 9/10/09 | 9/23/09 | RT-PCR | WNV |
| San Bernardino | West Valley MVCD | Rancho Cucamonga | 91737 | American Crow | 9/16/09 | 9/16/09 | VecTest | WNV |
| San Diego | San Diego Co VCP | Escondido | 92025 | American Crow | 9/14/09 | 9/16/09 | RT-PCR | WNV |
| San Diego | San Diego Co VCP | Pine Valley | 91962 | American Crow | 9/15/09 | 9/16/09 | RT-PCR | WNV |
| San Diego | San Diego Co VCP | San Diego | 92139 | American Crow | 9/14/09 | 9/16/09 | RT-PCR | WNV |
| Santa Clara | Santa Clara VCD | San Jose | 95130 | Eastern Gray Squirrel | 9/14/09 | 9/23/09 | RT-PCR | WNV |
| Stanislaus | East Side MAD | Modesto | 95357 | American Crow | 9/15/09 | 9/15/09 | RAMP | WNV |
| Tulare | Delta VCD | Visalia | 93277 | American Crow | 9/14/09 | 9/21/09 | RT-PCR | WNV |
| Tulare | Delta VCD | Visalia | 93277 | American Crow | 9/14/09 | 9/21/09 | RT-PCR | WNV |
| Ventura | Ventura Co Env Health Dept | Ojai | 93023 | Western Scrub-Jay | 9/16/09 | 9/21/09 | RT-PCR | WNV |
| Yolo | Sacramento-Yolo MVCD | Davis | 95616 | American Crow | 9/11/09 | 9/21/09 | RT-PCR | WNV |

Mosquitoes

| County | Site Code | Pool # | Species | # in Pool | Collected | Tested | City | Virus | Method |
|-------------|-----------|--------|---------------------|--------------|-----------|-----------|-------------------------|-------|--------|
| Fresno | CNSL4124 | 691 | Cx tarsalis | 39 | 9/22/2009 | 9/24/2009 | Selma | WNV | RTPCR |
| Fresno | CNSL6142 | 686 | Cx quinquefasciatus | 50 | 9/17/2009 | 9/23/2009 | Riverdale | WNV | RTPCR |
| Fresno | FRNO0003 | 45 | Cx tarsalis | 40 | 9/16/2009 | 9/24/2009 | Herndon/Milburn inte | WNV | RTPCR |
| Fresno | FRNO0053 | 54 | Cx tarsalis | 50 | 9/17/2009 | 9/24/2009 | Fresno | WNV | RTPCR |
| Fresno | FRNO0053 | 55 | Cx tarsalis | 21 | 9/17/2009 | 9/24/2009 | Fresno | WNV | RTPCR |
| Fresno | FRNO0054 | 57 | Cx quinquefasciatus | 12 | 9/17/2009 | 9/24/2009 | Fresno | WNV | RTPCR |
| Fresno | FRWS4102 | 210 | Cx tarsalis | 50 | 9/22/2009 | 9/24/2009 | Kerman | WNV | RTPCR |
| Kern | KERN3014 | 572 | Cx tarsalis | 15 | 9/18/2009 | 9/22/2009 | Bakersfield | WNV | RTPCR |
| Kings | KNGS3022 | 449 | Cx tarsalis | 50 | 9/8/2009 | 9/21/2009 | Hanford | WNV | RTPCR |
| Kings | KNGS3022 | 451 | Cx tarsalis | 50 | 9/8/2009 | 9/21/2009 | Hanford | WNV | RTPCR |
| Kings | KNGS3030 | 439 | Cx tarsalis | 50 | 9/8/2009 | 9/21/2009 | Lemoore | WNV | RTPCR |
| Kings | KNGS3030 | 442 | Cx tarsalis | 50 | 9/8/2009 | 9/21/2009 | Lemoore | WNV | RTPCR |
| Kings | KNGS3030 | 443 | Cx tarsalis | 50 | 9/8/2009 | 9/21/2009 | Lemoore | WNV | RTPCR |
| Kings | KNGS3030 | 477 | Cx tarsalis | 50 | 9/16/2009 | 9/22/2009 | Lemoore | WNV | RTPCR |
| Kings | KNGS3030 | 480 | Cx erythrothorax | 14 | 9/16/2009 | 9/22/2009 | Lemoore | WNV | RTPCR |
| Kings | KNGS4003 | 485 | Cx tarsalis | 7 | 9/16/2009 | 9/22/2009 | Hanford | WNV | RTPCR |
| Los Angeles | GRLA2444 | 5999 | Cx quinquefasciatus | 34 | 9/17/2009 | 9/24/2009 | Glendale | WNV | RTPCR |
| Los Angeles | GRLA2450 | 5998 | Cx quinquefasciatus | 46 | 9/17/2009 | 9/24/2009 | Glendale | WNV | RTPCR |
| Los Angeles | GRLA2636 | 5979 | Cx quinquefasciatus | 50 | 9/15/2009 | 9/24/2009 | Van Nuys | WNV | RTPCR |
| Los Angeles | GRLA2650 | 5972 | Cx quinquefasciatus | 50 | 9/15/2009 | 9/24/2009 | Encino | WNV | RTPCR |
| Los Angeles | GRLA2655 | 5977 | Cx quinquefasciatus | 50 | 9/15/2009 | 9/24/2009 | Encino | WNV | RTPCR |
| Los Angeles | GRLA2938 | 5996 | Cx quinquefasciatus | 49 | 9/17/2009 | 9/24/2009 | Burbank | WNV | RTPCR |
| Los Angeles | LACW1007 | 451 | Cx quinquefasciatus | 28 | 9/17/2009 | 9/24/2009 | Baldwin Hills | WNV | RTPCR |
| Los Angeles | LACW1054 | 440 | Cx quinquefasciatus | 50 | 9/16/2009 | 9/24/2009 | Inglewood | WNV | RTPCR |
| Merced | MERC0028 | 231 | Cx pipiens | 15 | 9/17/2009 | 9/21/2009 | Merced | WNV | RTPCR |
| Merced | MERC0405 | 189 | Cx pipiens | 50 | 9/16/2009 | 9/21/2009 | Hilmar | WNV | RTPCR |
| Merced | TRLK0003 | 1362 | Cx tarsalis | 50 | 9/22/2009 | 9/24/2009 | Newman | WNV | RTPCR |

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| Orange | ORCO0030 | 1212 | Cx quinquefasciatus | 21 | 9/17/2009 | 9/21/2009 | La Habra | WNV | RTPCR |
|----------------|----------|------|---------------------|----|-----------|-----------|-------------|-----|-------|
| Placer | PLCR0476 | 931 | Cx tarsalis | 50 | 9/16/2009 | 9/23/2009 | Roseville | WNV | RTPCR |
| San Bernardino | WVAL1007 | 942 | Cx quinquefasciatus | 28 | 9/15/2009 | 9/22/2009 | Ontario | WNV | RTPCR |
| San Bernardino | WVAL2002 | 956 | Cx quinquefasciatus | 7 | 9/16/2009 | 9/22/2009 | Chino Hills | WNV | RTPCR |
| San Bernardino | WVAL2002 | 957 | Cx tarsalis | 29 | 9/16/2009 | 9/22/2009 | Chino Hills | WNV | RTPCR |
| San Bernardino | WVAL2002 | 958 | Cx tarsalis | 29 | 9/16/2009 | 9/22/2009 | Chino Hills | WNV | RTPCR |
| San Bernardino | WVAL2006 | 971 | Cx tarsalis | 45 | 9/16/2009 | 9/22/2009 | Chino | WNV | RTPCR |
| San Joaquin | SJCM8026 | 1020 | Cx tarsalis | 18 | 9/22/2009 | 9/23/2009 | Stockton | WNV | RAMP |
| San Joaquin | SJCM8083 | 1061 | Cx pipiens | 50 | 9/23/2009 | 9/25/2009 | Escalon | WNV | RAMP |
| Stanislaus | TRLK0414 | 1207 | Cx pipiens | 50 | 9/22/2009 | 9/24/2009 | Modesto | WNV | RTPCR |
| Stanislaus | TRLK0437 | 1272 | Cx pipiens | 50 | 9/22/2009 | 9/24/2009 | Patterson | WNV | RTPCR |
| Stanislaus | TRLK0625 | 1094 | Cx pipiens | 50 | 9/15/2009 | 9/21/2009 | Turlock | WNV | RTPCR |
| Stanislaus | TRLK9732 | 1289 | Cx tarsalis | 50 | 9/22/2009 | 9/24/2009 | Newman | WNV | RTPCR |
| Tulare | DLTA8413 | 861 | Cx quinquefasciatus | 30 | 9/16/2009 | 9/22/2009 | Visalia | WNV | RTPCR |

Sentinel Chickens

| Sentinel Ch | ICKEIIS | | | | | | | | |
|--------------|-----------|-------------------|-------|-----------|---------|---------|---------|---------|---------|
| County | Site Code | Nearest City | Virus | Date Bled | Band 01 | Band 02 | Band 03 | Band 04 | Band 05 |
| Butte | BUCO0001 | Chico | WNV | 9/1/2009 | 3258 | 3263 | | | |
| Butte | BUCO0001 | Chico | WNV | 9/15/2009 | 3261 | 3264 | | | |
| Butte | BUCO0002 | Oroville | WNV | 8/31/2009 | 3273 | 3277 | | | |
| Butte | BUCO0002 | Oroville | WNV | 9/15/2009 | 3268 | 3272 | | | |
| Butte | BUCO0003 | Oroville | WNV | 9/15/2009 | 3282 | | | | |
| Butte | BUCO0004 | Gridley | WNV | 9/15/2009 | 3290 | | | | |
| Contra Costa | CNTR8152 | Knightsen | WNV | 9/14/2009 | 3002 | 3003 | 3004 | 3007 | 3010 |
| Kern | DLNO0035 | - | WNV | 9/17/2009 | 2967 | 2969 | 2974 | | |
| Kern | KERN0104 | Old River | WNV | 9/15/2009 | 2611 | | | | |
| Kern | KERN0107 | Arvin | WNV | 9/15/2009 | 2704 | 2711 | 2712 | | |
| Kern | KERN0111 | Arvin | WNV | 9/15/2009 | 2692 | 2709 | | | |
| Kern | KERN0112 | Wasco | WNV | 9/14/2009 | 2662 | 2668 | | | |
| Kern | KERN0114 | Bakersfield | WNV | 9/15/2009 | 2627 | 2716 | | | |
| Merced | MERC0501 | El Nido | WNV | 9/4/2009 | 2262 | | | | |
| Merced | MERC0501 | El Nido | WNV | 9/21/2009 | 2264 | | | | |
| Placer | PLCR0017 | Sheridan | WNV | 8/31/2009 | 3448 | 3449 | 3453 | | |
| Placer | PLCR0017 | Sheridan | WNV | 9/14/2009 | 3450 | 3451 | | | |
| Placer | PLCR0025 | Lincoln | WNV | 8/31/2009 | 3456 | | | | |
| Placer | PLCR0401 | Auburn | WNV | 8/31/2009 | 3471 | | | | |
| Riverside | NWST0004 | Flabob Airport | WNV | 9/11/2009 | 2044 | | | | |
| Stanislaus | TRLK0402 | Denair | WNV | 9/3/2009 | 1114 | 1117 | | | |
| Stanislaus | TRLK0402 | Denair | WNV | 9/16/2009 | 1112 | 1115 | 1121 | | |
| Stanislaus | TRLK0403 | Newman | WNV | 9/17/2009 | 1122 | | | | |
| Stanislaus | TRLK9703 | Crows Landing | WNV | 9/3/2009 | 1153 | | | | |
| Sutter | SUYA0014 | Sutter | WNV | 9/17/2009 | 1289 | | | | |
| Tulare | DLNO0021 | Earlimart | WNV | 9/3/2009 | 2953 | 2958 | | | |
| Tulare | DLNO0021 | Earlimart | WNV | 9/17/2009 | 2956 | 2957 | 2961 | | |

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NATIONAL COMMENTS

As of September 22, 2009, 345 human cases had been reported nationwide in the following 31 states: Arizona (15), Arkansas (1), California (47), Colorado (51), Georgia (2), Idaho (8), Illinois (1), Indiana (3), Iowa (2), Kansas (4), Kentucky (2), Louisiana (13), Minnesota (1), Mississippi (37), Missouri (1), Montana (3), Nebraska (21), Nevada (12), New Mexico (6), New York (1), North Dakota (1), Ohio (2), Oklahoma (4), Oregon (7), Pennsylvania (2), South Carolina (3), South Dakota (14), Tennessee (2), Texas (55), Washington (17), and Wyoming (7). Of the 345 individuals, 174 (50%) have neuroinvasive illness. The median age of the 345 individuals is 54 years (range: 2-91 years); 58% are male. There have been twelve fatalities in California (2), Idaho (1), Indiana (1), Mississippi (3), New Mexico (1), Texas (3), and Wyoming (1).

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).

*Human denominator data only includes specimens tested at VRDL and does not include additional negative specimens that are tested by local agencies only.

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:

Dead birds and tree squirrels are necropsied at CAHFS laboratory at University of California, Davis. Oral swabs from American Crows and kidney tissue from all other dead birds and squirrels are forwarded to the UC Davis Center for Vectorborne Diseases (CVEC) for West Nile virus testing using the singleplex RT-PCR Taqman assay and confirmed with a second primer set. The WNV Dead Bird Surveillance Coordinator, Erin Parker, can be reached directly at (510) 412-6254.

Sentinel Chickens:

Dried blood spot specimens from sentinel chickens are submitted to the California Department of Public Health Vector-Borne Disease Laboratory and tested for the presence of antibodies to West Nile, 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), 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 or email: <u>tina.feiszli@cdph.ca.gov</u>