

California Arbovirus Surveillance Bulletin #17

Week 30 Friday, July 26, 2019



Weekly Update

Humans

No new cases were reported this week. To date this year, two human cases of West Nile virus (WNV) illness have been reported from two counties: Imperial (1) and San Bernardino (2). Of the two reported cases, both (100%) were classified as neuroinvasive disease and one (50%) was fatal. In addition to the two cases, three asymptomatic infections have been reported from Kern (1), San Bernardino (1), and Sutter (1) counties. At this time last year, 12 human cases of WNV illness had been reported from eight counties.

Dead Birds

A total of six WNV positive dead birds were reported this week from three counties: Fresno (2), Los Angeles (2), and Sacramento (2). In 2019, a total of 34 WNV positive dead birds have been reported from eight counties. At this time last year, 167 WNV positive dead birds had been reported from 14 counties.

Mosquito Pools

West Nile virus

A total of 292 WNV positive mosquito pools were reported this week from 17 counties: Butte (1), Fresno (65), Kern (9), Kings (10), Los Angeles (4), Madera (8), Merced (3), Placer (1), Riverside (64), Sacramento (4), San Bernardino (4), San Joaquin (5), Shasta (1), Stanislaus (5), Sutter (1), Tulare (106), and Yuba (1). **This is the first detection of WNV activity in Butte, Placer, Shasta, and Sutter counties this year.** In 2019, a total of 1,094 WNV positive mosquito pools have been reported from 19 counties. At this time last year, 480 WNV positive mosquito pools had been reported from 23 counties.

St. Louis encephalitis virus

This week, a total of 16 mosquito pools were reported positive for St. Louis encephalitis virus (SLEV) from four counties: Fresno (5), Kern (4), Riverside (1), and Tulare (6). In 2019, a total of 61 SLEV positive mosquito pools have been reported from four counties: Fresno (16), Kern (18), Riverside (8), and Tulare (19). At this time last year, 126 SLEV positive mosquito pools had been reported from five counties.

Sentinel Chickens

No seroconversions have been reported in 2019. At this time last year, 11 WNV seroconversions had been reported from two counties.

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| 2018 & 2019 YTD West Nile Virus Comparisons | | |
|--|--------------|----------------|
| | 2018 | 2019 |
| Total # Dead Bird Reports | 4,382 | 3,216 |
| # Positive Counties | 27 | 21 |
| # Human Cases | 12 | 2 |
| # Positive Dead Birds / # Tested | 167 / 1,076 | 34 / 974 |
| # Positive Mosquito Pools / # Tested | 480 / 21,331 | 1,094 / 21,284 |
| # Seroconversions / # Tested | 11 / 5,115 | 0 / 4,417 |

| YTD WNV Activity by Element and County, 2019 | | | | |
|---|----------|------------|----------------|-------------------|
| County | Humans | Dead Birds | Mosquito Pools | Sentinel Chickens |
| Butte | | | 1 | |
| Fresno | | 6 | 172 | |
| Imperial | 1 | | | |
| Kern | | | 35 | |
| Kings | | | 13 | |
| Los Angeles | | 5 | 6 | |
| Madera | | | 9 | |
| Merced | | 1 | 6 | |
| Orange | | 8 | 1 | |
| Placer | | | 1 | |
| Riverside | | | 428 | |
| Sacramento | | 3 | 7 | |
| San Bernardino | 1 | | 10 | |
| San Diego | | 1 | | |
| San Joaquin | | 3 | 20 | |
| Shasta | | | 1 | |
| Stanislaus | | | 10 | |
| Sutter | | | 1 | |
| Tulare | | 7 | 367 | |
| Ventura | | | 1 | |
| Yuba | | | 5 | |
| Totals | 2 | 34 | 1,094 | 0 |

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TESTING SUMMARIES

Humans

| | | WNV | SLE | WEE |
|-------------|------|-----|-----|-----|
| Human Cases | Week | 0 | 0 | 0 |
| | YTD | 2 | 0 | 0 |

Dead Birds

| | | Number Tested | WNV Positive |
|------------|------|---------------|--------------|
| Dead Birds | Week | 73 | 6 |
| | YTD | 974 | 34 |

Chickens

| | | Number Tested | WNV Positive | SLEV Positive | WEEV Positive |
|--------------|------|---------------|--------------|---------------|---------------|
| Chicken Sera | Week | 348 | 0 | 0 | 0 |
| | YTD | 4,417 | 0 | 0 | 0 |

Mosquitoes

| | | Positive / Total Tested | | | | | |
|----------------|------|-------------------------|----------------|-------------|------------|---------|---------|
| Mosquito Pools | Week | WNV | SLEV | WEEV | CHIK | DENV | ZIKA |
| | | 292 / 2,307 | 16 / 2,123 | 0 / 1,968 | 0 / 31 | 0 / 31 | 0 / 31 |
| | | YTD | 1,094 / 21,284 | 61 / 19,357 | 0 / 18,248 | 0 / 283 | 0 / 283 |

POSITIVES

Dead Birds

| County | Agency | City | Zip Code | Species | Date Reported | Virus |
|-------------|-----------------------------|----------------|----------|----------------------|---------------|-------|
| Fresno | Fresno MVCD | Fresno | 93711 | House Finch | 7/23/2019 | WNV |
| Fresno | Fresno MVCD | Fresno | 93722 | California Scrub-Jay | 7/18/2019 | WNV |
| Los Angeles | Los Angeles Co Veterinarian | Los Angeles | 90035 | American Crow | 7/10/2019 | WNV |
| Los Angeles | Los Angeles Co Veterinarian | West Hollywood | 90046 | American Crow | 7/16/2019 | WNV |
| Sacramento | Sacramento-Yolo MVCD | Elk Grove | 95624 | California Scrub-Jay | 7/16/2019 | WNV |
| Sacramento | Sacramento-Yolo MVCD | Elk Grove | 95624 | Lesser Goldfinch | 7/22/2019 | WNV |

Mosquito Pools

| County | Site Code | Pool # | Species | City | # in Pool | Trap Type | Collected | Virus |
|--------|-----------|--------|----------------------|--------|-----------|-----------|-----------|-------|
| Butte | BUCO37 | 146 | Cx. tarsalis | Honcut | 50 | CO2 | 7/16/19 | WNV |
| Fresno | CNSL1000 | 309 | Cx. quinquefasciatus | Fresno | 14 | GRVD | 7/17/19 | WNV |
| Fresno | CNSL1050 | 330 | Cx. quinquefasciatus | Fresno | 21 | GRVD | 7/19/19 | WNV |

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|--------|----------|-----|----------------------|--------|----|--------|---------|------|
| Fresno | CNSL1111 | 292 | Cx. quinquefasciatus | Fresno | 50 | BGSENT | 7/16/19 | WNV |
| Fresno | CNSL1146 | 340 | Cx. quinquefasciatus | Fresno | 47 | GRVD | 7/19/19 | WNV |
| Fresno | CNSL1196 | 315 | Cx. quinquefasciatus | Fresno | 46 | GRVD | 7/18/19 | WNV |
| Fresno | CNSL1257 | 343 | Cx. quinquefasciatus | Clovis | 48 | GRVD | 7/19/19 | WNV |
| Fresno | CNSL1270 | 308 | Cx. quinquefasciatus | Clovis | 19 | GRVD | 7/17/19 | WNV |
| Fresno | CNSL1285 | 290 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/16/19 | WNV |
| Fresno | CNSL1286 | 291 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/16/19 | WNV |
| Fresno | CNSL1289 | 320 | Cx. quinquefasciatus | Fresno | 30 | GRVD | 7/18/19 | WNV |
| Fresno | CNSL1381 | 321 | Cx. quinquefasciatus | Fresno | 38 | GRVD | 7/18/19 | WNV |
| Fresno | CNSL1526 | 314 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/18/19 | WNV |
| Fresno | CNSL1566 | 341 | Cx. quinquefasciatus | Fresno | 39 | GRVD | 7/19/19 | WNV |
| Fresno | CNSL1585 | 310 | Cx. quinquefasciatus | Fresno | 47 | GRVD | 7/17/19 | SLEV |
| Fresno | CNSL1585 | 310 | Cx. quinquefasciatus | Fresno | 47 | GRVD | 7/17/19 | WNV |
| Fresno | CNSL1597 | 331 | Cx. quinquefasciatus | Fresno | 37 | GRVD | 7/19/19 | WNV |
| Fresno | CNSL1649 | 342 | Cx. quinquefasciatus | Clovis | 50 | GRVD | 7/19/19 | WNV |
| Fresno | CNSL1650 | 339 | Cx. quinquefasciatus | Clovis | 28 | GRVD | 7/19/19 | WNV |
| Fresno | CNSL1829 | 325 | Cx. quinquefasciatus | Clovis | 28 | GRVD | 7/19/19 | WNV |
| Fresno | CNSL1841 | 305 | Cx. quinquefasciatus | Clovis | 16 | GRVD | 7/16/19 | WNV |
| Fresno | CNSL1874 | 334 | Cx. quinquefasciatus | Clovis | 39 | GRVD | 7/19/19 | WNV |
| Fresno | CNSL1975 | 335 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/19/19 | WNV |
| Fresno | CNSL1990 | 311 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/17/19 | SLEV |
| Fresno | CNSL1990 | 311 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/17/19 | WNV |
| Fresno | CNSL2177 | 374 | Cx. stigmatosoma | Sanger | 41 | GRVD | 7/18/19 | WNV |
| Fresno | CNSL2177 | 375 | Cx. quinquefasciatus | Sanger | 50 | GRVD | 7/18/19 | WNV |
| Fresno | CNSL2463 | 316 | Cx. tarsalis | Sanger | 14 | BGSENT | 7/18/19 | WNV |
| Fresno | CNSL2463 | 317 | Cx. quinquefasciatus | Sanger | 32 | BGSENT | 7/18/19 | WNV |
| Fresno | CNSL2500 | 302 | Cx. quinquefasciatus | Clovis | 50 | GRVD | 7/16/19 | WNV |
| Fresno | CNSL4014 | 380 | Cx. quinquefasciatus | Fowler | 24 | GRVD | 7/18/19 | WNV |
| Fresno | CNSL4129 | 293 | Cx. quinquefasciatus | Selma | 15 | GRVD | 7/16/19 | WNV |
| Fresno | CNSL8048 | 338 | Cx. quinquefasciatus | Fresno | 19 | BGSENT | 7/19/19 | WNV |
| Fresno | CNSL8076 | 329 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/19/19 | WNV |
| Fresno | CNSL8104 | 328 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/19/19 | WNV |
| Fresno | CNSL8105 | 327 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/19/19 | WNV |
| Fresno | CNSL9001 | 304 | Cx. quinquefasciatus | Clovis | 21 | GRVD | 7/16/19 | WNV |
| Fresno | CNSL9001 | 306 | Cx. quinquefasciatus | Clovis | 50 | GRVD | 7/17/19 | WNV |
| Fresno | CNSL9035 | 326 | Cx. quinquefasciatus | Clovis | 16 | GRVD | 7/19/19 | WNV |
| Fresno | CNSL9068 | 307 | Cx. quinquefasciatus | Clovis | 26 | GRVD | 7/17/19 | WNV |
| Fresno | CNSL9106 | 337 | Cx. quinquefasciatus | Clovis | 46 | GRVD | 7/19/19 | WNV |
| Fresno | CNSL9195 | 336 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/19/19 | WNV |
| Fresno | FRNO112 | 333 | Cx. quinquefasciatus | Fresno | 50 | BGSENT | 7/23/19 | WNV |
| Fresno | FRNO15 | 316 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/23/19 | WNV |
| Fresno | FRNO15 | 317 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/23/19 | WNV |
| Fresno | FRNO15 | 318 | Cx. quinquefasciatus | Fresno | 20 | GRVD | 7/23/19 | SLEV |
| Fresno | FRNO15 | 318 | Cx. quinquefasciatus | Fresno | 20 | GRVD | 7/23/19 | WNV |
| Fresno | FRNO178 | 299 | Cx. quinquefasciatus | | 50 | GRVD | 7/17/19 | WNV |
| Fresno | FRNO178 | 300 | Cx. quinquefasciatus | | 16 | GRVD | 7/17/19 | WNV |
| Fresno | FRNO178 | 337 | Cx. quinquefasciatus | | 34 | BGSENT | 7/24/19 | WNV |
| Fresno | FRNO189 | 350 | Cx. quinquefasciatus | | 50 | GRVD | 7/25/19 | WNV |
| Fresno | FRNO189 | 351 | Cx. quinquefasciatus | | 50 | GRVD | 7/25/19 | WNV |
| Fresno | FRNO197 | 311 | Cx. quinquefasciatus | | 50 | BGSENT | 7/18/19 | WNV |
| Fresno | FRNO197 | 312 | Cx. quinquefasciatus | | 38 | BGSENT | 7/18/19 | WNV |
| Fresno | FRNO208 | 310 | Cx. quinquefasciatus | FRESNO | 50 | GRVD | 7/18/19 | WNV |
| Fresno | FRNO235 | 334 | Cx. quinquefasciatus | FRESNO | 38 | GRVD | 7/23/19 | SLEV |
| Fresno | FRNO235 | 334 | Cx. quinquefasciatus | FRESNO | 38 | GRVD | 7/23/19 | WNV |

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|-------------|------------|------|----------------------|-------------|----|--------|---------|------|
| Fresno | FRNO238 | 298 | Cx. quinquefasciatus | | 31 | GRVD | 7/16/19 | WNV |
| Fresno | FRNO238 | 344 | Cx. quinquefasciatus | | 50 | GRVD | 7/24/19 | WNV |
| Fresno | FRNO238 | 345 | Cx. quinquefasciatus | | 38 | GRVD | 7/24/19 | WNV |
| Fresno | FRNO241 | 303 | Cx. quinquefasciatus | | 28 | GRVD | 7/17/19 | WNV |
| Fresno | FRNO241 | 304 | Cx. quinquefasciatus | | 40 | BGSENT | 7/17/19 | WNV |
| Fresno | FRNO35 | 352 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/25/19 | WNV |
| Fresno | FRNO36 | 322 | Cx. quinquefasciatus | Fresno | 42 | GRVD | 7/23/19 | WNV |
| Fresno | FRNO38 | 292 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/16/19 | WNV |
| Fresno | FRNO38 | 293 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/16/19 | WNV |
| Fresno | FRNO38 | 294 | Cx. quinquefasciatus | Fresno | 45 | GRVD | 7/16/19 | WNV |
| Fresno | FRNO61 | 309 | Cx. quinquefasciatus | Fresno | 20 | GRVD | 7/18/19 | SLEV |
| Fresno | FRNO61 | 309 | Cx. quinquefasciatus | Fresno | 20 | GRVD | 7/18/19 | WNV |
| Fresno | FRNO8 | 320 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 7/23/19 | WNV |
| Fresno | FRNO8005 | 343 | Cx. quinquefasciatus | | 14 | GRVD | 7/24/19 | WNV |
| Kern | DLNO27 | 119 | Cx. tarsalis | Wasco | 50 | CO2 | 7/18/19 | WNV |
| Kern | DLNO43 | 127 | Cx. quinquefasciatus | McFarland | 46 | GRVD | 7/19/19 | WNV |
| Kern | KERN1144 | 421 | Cx. tarsalis | Bakersfield | 50 | CO2 | 7/17/19 | WNV |
| Kern | KERN2021 | 423 | Cx. quinquefasciatus | Wasco | 50 | GRVD | 7/18/19 | WNV |
| Kern | KERN2022 | 422 | Cx. quinquefasciatus | Shafter | 50 | GRVD | 7/18/19 | WNV |
| Kern | KERN2031 | 432 | Cx. quinquefasciatus | Bakersfield | 30 | GRVD | 7/19/19 | SLEV |
| Kern | KERN2039 | 405 | Cx. quinquefasciatus | Bakersfield | 47 | GRVD | 7/16/19 | WNV |
| Kern | KERN2041 | 408 | Cx. quinquefasciatus | Arvin | 25 | GRVD | 7/16/19 | WNV |
| Kern | KERN2051 | 406 | Cx. quinquefasciatus | Bakersfield | 20 | GRVD | 7/16/19 | WNV |
| Kern | KERN3004 | 415 | Cx. quinquefasciatus | Bakersfield | 50 | CO2 | 7/16/19 | SLEV |
| Kern | KERN3004 | 415 | Cx. quinquefasciatus | Bakersfield | 50 | CO2 | 7/16/19 | WNV |
| Kern | KERN3025 | 434 | Cx. quinquefasciatus | Bakersfield | 50 | CO2 | 7/19/19 | SLEV |
| Kern | KERN50 | 425 | Cx. tarsalis | Bakersfield | 50 | CO2 | 7/18/19 | SLEV |
| Kings | KNGS3022 | 316 | Cx. tarsalis | Hanford | 50 | CO2 | 7/19/19 | WNV |
| Kings | KNGS3062 | 287 | Cx. tarsalis | Lemoore | 50 | CO2 | 7/16/19 | WNV |
| Kings | KNGS3072 | 309 | Cx. tarsalis | Hanford | 50 | CO2 | 7/18/19 | WNV |
| Kings | KNGS3084 | 286 | Cx. tarsalis | Lemoore | 31 | CO2 | 7/16/19 | WNV |
| Kings | KNGS3108 | 290 | Cx. tarsalis | Island | 50 | CO2 | 7/16/19 | WNV |
| Kings | KNGS3108 | 291 | Cx. tarsalis | Island | 50 | CO2 | 7/16/19 | WNV |
| Kings | KNGS3108 | 294 | Cx. tarsalis | Island | 50 | CO2 | 7/16/19 | WNV |
| Kings | KNGS3110 | 304 | Cx. tarsalis | Guernsey | 50 | CO2 | 7/17/19 | WNV |
| Kings | KNGS55011 | 296 | Cx. pipiens | Hanford | 11 | BGSENT | 7/17/19 | WNV |
| Kings | KNGS5503 | 308 | Cx. pipiens | Hanford | 50 | BGSENT | 7/18/19 | WNV |
| Los Angeles | GRLA2270 | 576 | Cx. quinquefasciatus | Bellflower | 50 | GRVD | 7/12/19 | WNV |
| Los Angeles | LACW1002 | 442 | Cs. incidens | Torrance | 16 | CO2 | 7/16/19 | WNV |
| Los Angeles | LACW1002 | 443 | Cx. quinquefasciatus | Torrance | 17 | CO2 | 7/16/19 | WNV |
| Los Angeles | LACW1019 | 449 | Cx. quinquefasciatus | El Segundo | 12 | CO2 | 7/16/19 | WNV |
| Madera | MADR1109 | 120 | Cx. tarsalis | Madera | 50 | CO2 | 7/17/19 | WNV |
| Madera | MADR1109 | 121 | Cx. tarsalis | Madera | 50 | CO2 | 7/17/19 | WNV |
| Madera | MADR195 | 136 | Cx. tarsalis | Madera | 50 | CO2 | 7/19/19 | WNV |
| Madera | MADR204 | 134 | Cx. tarsalis | Madera | 31 | CO2 | 7/19/19 | WNV |
| Madera | MADR3334 | 122 | Cx. tarsalis | Madera | 50 | CO2 | 7/17/19 | WNV |
| Madera | MADR683 | 114 | Cx. tarsalis | Madera | 37 | CO2 | 7/16/19 | WNV |
| Madera | MADR85 | 117 | Cx. quinquefasciatus | Madera | 30 | CO2 | 7/16/19 | WNV |
| Madera | MADR85 | 118 | Cx. tarsalis | Madera | 46 | CO2 | 7/16/19 | WNV |
| Merced | MERC1103 | 332 | Cx. tarsalis | | 13 | CO2 | 7/23/19 | WNV |
| Merced | MERC1117 | 359 | Cx. tarsalis | | 18 | CO2 | 7/25/19 | WNV |
| Merced | MERC201782 | 364 | Cx. pipiens | merced | 50 | CO2 | 7/25/19 | WNV |
| Placer | PLCR139 | 1034 | Cx. tarsalis | ROSEVILLE | 38 | CO2 | 7/23/19 | WNV |
| Riverside | COAV0 | 3873 | Cx. quinquefasciatus | | 35 | CO2 | 7/12/19 | WNV |

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| Riverside | COAV0 | 3875 | Cx. quinquefasciatus | | 50 | GRVD | 7/12/19 | WNV |
| Riverside | COAV0 | 3901 | Cx. tarsalis | | 50 | CO2 | 7/12/19 | WNV |
| Riverside | COAV0 | 3904 | Cx. tarsalis | | 50 | CO2 | 7/12/19 | WNV |
| Riverside | COAV0 | 3906 | Cx. quinquefasciatus | | 50 | CO2 | 7/12/19 | WNV |
| Riverside | COAV0 | 4062 | Cx. quinquefasciatus | | 6 | GRVD | 7/19/19 | WNV |
| Riverside | COAV0 | 4063 | Cx. quinquefasciatus | | 31 | GRVD | 7/19/19 | WNV |
| Riverside | COAV0 | 4064 | Cx. quinquefasciatus | | 50 | GRVD | 7/19/19 | WNV |
| Riverside | COAV0 | 4066 | Cx. quinquefasciatus | | 31 | GRVD | 7/19/19 | WNV |
| Riverside | COAV0 | 4067 | Cx. quinquefasciatus | | 24 | GRVD | 7/19/19 | WNV |
| Riverside | COAV0 | 4072 | Cx. quinquefasciatus | | 24 | GRVD | 7/19/19 | WNV |
| Riverside | COAV0 | 4076 | Cx. quinquefasciatus | | 53 | GRVD | 7/20/19 | WNV |
| Riverside | COAV0 | 4078 | Cx. quinquefasciatus | | 38 | GRVD | 7/20/19 | WNV |
| Riverside | COAV0 | 4079 | Cx. quinquefasciatus | | 18 | GRVD | 7/20/19 | WNV |
| Riverside | COAV0 | 4081 | Cx. quinquefasciatus | | 12 | GRVD | 7/20/19 | WNV |
| Riverside | COAV0 | 4110 | Cx. quinquefasciatus | | 12 | GRVD | 7/23/19 | WNV |
| Riverside | COAV0 | 4114 | Cx. quinquefasciatus | | 57 | GRVD | 7/23/19 | WNV |
| Riverside | COAV0 | 4116 | Cx. quinquefasciatus | | 17 | GRVD | 7/23/19 | WNV |
| Riverside | COAV0 | 4128 | Cx. quinquefasciatus | | 16 | GRVD | 7/24/19 | WNV |
| Riverside | COAV0 | 4131 | Cx. quinquefasciatus | | 49 | GRVD | 7/24/19 | WNV |
| Riverside | COAV0 | 4132 | Cx. quinquefasciatus | | 23 | GRVD | 7/24/19 | WNV |
| Riverside | COAV0 | 4133 | Cx. quinquefasciatus | | 50 | GRVD | 7/24/19 | WNV |
| Riverside | COAV0 | 4195 | Cx. quinquefasciatus | | 20 | CO2 | 7/25/19 | WNV |
| Riverside | COAV0 | 4227 | Cx. quinquefasciatus | | 19 | CO2 | 7/25/19 | WNV |
| Riverside | COAV121 | 4086 | Cx. tarsalis | Mecca | 50 | CO2 | 7/23/19 | WNV |
| Riverside | COAV123 | 4162 | Cx. tarsalis | Mecca | 50 | CO2 | 7/23/19 | WNV |
| Riverside | COAV200 | 3896 | Cx. tarsalis | Mecca | 50 | BGSENT | 7/12/19 | WNV |
| Riverside | COAV200 | 4068 | Cx. quinquefasciatus | Mecca | 21 | BGSENT | 7/19/19 | WNV |
| Riverside | COAV200 | 4094 | Cx. tarsalis | Mecca | 24 | CO2 | 7/23/19 | WNV |
| Riverside | COAV208 | 4103 | Cx. quinquefasciatus | Palm Springs | 50 | CO2 | 7/24/19 | WNV |
| Riverside | COAV208 | 4125 | Cx. quinquefasciatus | Palm Springs | 50 | CO2 | 7/24/19 | WNV |
| Riverside | COAV208 | 4126 | Cx. quinquefasciatus | Palm Springs | 50 | CO2 | 7/24/19 | WNV |
| Riverside | COAV208 | 4127 | Cx. quinquefasciatus | Palm Springs | 50 | CO2 | 7/24/19 | WNV |
| Riverside | COAV302 | 4170 | Cx. quinquefasciatus | Rancho Mirage | 50 | GRVD | 7/25/19 | WNV |
| Riverside | COAV302 | 4171 | Cx. quinquefasciatus | Rancho Mirage | 50 | CO2 | 7/25/19 | WNV |
| Riverside | COAV302 | 4172 | Cx. quinquefasciatus | Rancho Mirage | 21 | CO2 | 7/25/19 | WNV |
| Riverside | COAV320 | 4176 | Cx. quinquefasciatus | Palm Desert | 50 | GRVD | 7/25/19 | WNV |
| Riverside | COAV320 | 4177 | Cx. quinquefasciatus | Palm Desert | 50 | GRVD | 7/25/19 | WNV |
| Riverside | COAV320 | 4178 | Cx. quinquefasciatus | Palm Desert | 50 | GRVD | 7/25/19 | WNV |
| Riverside | COAV321 | 4186 | Cx. quinquefasciatus | Rancho Mirage | 36 | CO2 | 7/25/19 | WNV |
| Riverside | COAV322 | 4101 | Cx. quinquefasciatus | Cathedral City | 30 | GRVD | 7/24/19 | WNV |
| Riverside | COAV322 | 4136 | Cx. quinquefasciatus | Cathedral City | 7 | BGSENT | 7/24/19 | WNV |
| Riverside | COAV346 | 4155 | Cx. quinquefasciatus | Thermal | 6 | GRVD | 7/23/19 | WNV |
| Riverside | COAV347 | 4080 | Cx. quinquefasciatus | La Quinta | 33 | GRVD | 7/20/19 | WNV |
| Riverside | COAV347 | 4215 | Cx. quinquefasciatus | La Quinta | 50 | CO2 | 7/25/19 | WNV |
| Riverside | COAV407 | 4102 | Cx. quinquefasciatus | Palm Springs | 30 | GRVD | 7/24/19 | WNV |
| Riverside | COAV409 | 4100 | Cx. quinquefasciatus | Cathedral City | 22 | GRVD | 7/24/19 | WNV |
| Riverside | COAV411 | 4174 | Cx. quinquefasciatus | Rancho Mirage | 30 | GRVD | 7/25/19 | WNV |
| Riverside | COAV412 | 4185 | Cx. quinquefasciatus | Rancho Mirage | 32 | GRVD | 7/25/19 | WNV |
| Riverside | COAV413 | 4182 | Cx. quinquefasciatus | Palm Desert | 10 | CO2 | 7/25/19 | WNV |
| Riverside | COAV419 | 4145 | Cx. quinquefasciatus | La Quinta | 23 | GRVD | 7/23/19 | WNV |
| Riverside | COAV420 | 4150 | Cx. quinquefasciatus | La Quinta | 21 | CO2 | 7/23/19 | WNV |
| Riverside | COAV421 | 4154 | Cx. quinquefasciatus | Indio | 34 | GRVD | 7/23/19 | WNV |
| Riverside | COAV422 | 4149 | Cx. quinquefasciatus | Coachella | 34 | GRVD | 7/23/19 | WNV |
| Riverside | COAV426 | 4153 | Cx. quinquefasciatus | South La Quinta | 21 | CO2 | 7/23/19 | WNV |

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|----------------|------------|-------|----------------------|-------------------|----|--------|---------|------|
| Riverside | COAV427 | 4189 | Cx. quinquefasciatus | Palm Desert | 46 | GRVD | 7/25/19 | WNV |
| Riverside | COAV427 | 4224 | Cx. quinquefasciatus | Palm Desert | 24 | BGSENT | 7/25/19 | WNV |
| Riverside | COAV431 | 4098 | Cx. quinquefasciatus | Palm Springs | 29 | GRVD | 7/24/19 | WNV |
| Riverside | COAV533 | 4122 | Cx. quinquefasciatus | Mecca | 49 | CO2 | 7/23/19 | WNV |
| Riverside | COAV56 | 4165 | Cx. tarsalis | Mecca | 23 | CO2 | 7/23/19 | WNV |
| Riverside | COAV604 | 4221 | Cx. quinquefasciatus | Palm Springs | 42 | GRVD | 7/25/19 | WNV |
| Riverside | COAV611 | 4123 | Cx. tarsalis | Mecca | 29 | CO2 | 7/23/19 | SLEV |
| Riverside | COAV753 | 3898 | Cx. tarsalis | Mecca | 50 | BGSENT | 7/12/19 | WNV |
| Riverside | COAV753 | 4070 | Cx. quinquefasciatus | Mecca | 33 | BGSENT | 7/19/19 | WNV |
| Riverside | COAV753 | 4071 | Cx. tarsalis | Mecca | 10 | BGSENT | 7/19/19 | WNV |
| Sacramento | SAYO223006 | 3029 | Cx. tarsalis | South Watt Avenue | 1 | CO2 | 7/23/19 | WNV |
| Sacramento | SAYO223063 | 3007 | Cx. pipiens | Sacramento | 25 | CO2 | 7/23/19 | WNV |
| Sacramento | SAYO234013 | 2997 | Cx. tarsalis | Elk Grove | 11 | CO2 | 7/23/19 | WNV |
| Sacramento | SAYO255007 | 2908 | Cx. pipiens | Herald | 18 | CO2 | 7/19/19 | WNV |
| San Bernardino | SANB51 | 671 | Cx. stigmatosoma | Rialto | 8 | CO2 | 7/25/19 | WNV |
| San Bernardino | WVAL250 | 1708 | Cx. quinquefasciatus | Chino | 24 | GRVD | 7/23/19 | WNV |
| San Bernardino | WVAL4233 | 1846 | Cx. quinquefasciatus | Ontario | 48 | BGSENT | 7/26/19 | WNV |
| San Bernardino | WVAL5009 | 1725 | Cx. quinquefasciatus | Rancho Cucamonga | 50 | GRVD | 7/23/19 | WNV |
| San Joaquin | SJCM8003 | 1071 | Cx. tarsalis | Tracy | 25 | CO2 | 7/23/19 | WNV |
| San Joaquin | SJCM8003 | 1072 | Cx. pipiens | Tracy | 18 | CO2 | 7/23/19 | WNV |
| San Joaquin | SJCM8010 | 1103 | Cx. pipiens | Ripon | 13 | CO2 | 7/23/19 | WNV |
| San Joaquin | SJCM8199 | 1115 | Cx. tarsalis | Manteca | 50 | CO2 | 7/23/19 | WNV |
| San Joaquin | SJCM8228 | 1146 | Cx. pipiens | Escalon | 33 | CO2 | 7/25/19 | WNV |
| Shasta | SHAS242 | 141 | Cx. tarsalis | Cottonwood | 26 | CO2 | 7/23/19 | WNV |
| Stanislaus | EAST1088 | 19122 | Cx. pipiens | Modesto | 20 | GRVD | 7/25/19 | WNV |
| Stanislaus | TRLK2 | 521 | Cx. tarsalis | Vernalis | 50 | CO2 | 7/23/19 | WNV |
| Stanislaus | TRLK322 | 523 | Cx. tarsalis | Vernalis | 50 | CO2 | 7/23/19 | WNV |
| Stanislaus | TRLK424 | 537 | Cx. tarsalis | Patterson | 50 | CO2 | 7/23/19 | WNV |
| Stanislaus | TRLK424 | 540 | Cx. pipiens | Patterson | 21 | CO2 | 7/23/19 | WNV |
| Sutter | SUYA24 | 219 | Cx. tarsalis | Yuba City | 50 | REST | 7/22/19 | WNV |
| Tulare | DLNO19 | 136 | Cx. quinquefasciatus | Ducor | 19 | GRVD | 7/23/19 | WNV |
| Tulare | DLNO75 | 137 | Cx. quinquefasciatus | Earlalmart | 34 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA6236 | 2069 | Cx. tarsalis | Kingsburg | 38 | CO2 | 7/24/19 | WNV |
| Tulare | DLTA6236 | 2070 | Cx. quinquefasciatus | Kingsburg | 16 | CO2 | 7/24/19 | WNV |
| Tulare | DLTA6304 | 2132 | Cx. stigmatosoma | | 13 | CO2 | 7/25/19 | WNV |
| Tulare | DLTA6308 | 2136 | Cx. stigmatosoma | Reedley | 50 | CO2 | 7/25/19 | WNV |
| Tulare | DLTA6308 | 2137 | Cx. stigmatosoma | Reedley | 23 | CO2 | 7/25/19 | WNV |
| Tulare | DLTA6308 | 2138 | Cx. tarsalis | Reedley | 15 | CO2 | 7/25/19 | WNV |
| Tulare | DLTA6317 | 2131 | Cx. stigmatosoma | Dinuba | 19 | CO2 | 7/25/19 | WNV |
| Tulare | DLTA6317 | 2133 | Cx. quinquefasciatus | Dinuba | 11 | CO2 | 7/25/19 | WNV |
| Tulare | DLTA6317 | 2135 | Cx. tarsalis | Dinuba | 19 | CO2 | 7/25/19 | WNV |
| Tulare | DLTA6407 | 2060 | Cx. quinquefasciatus | Dinuba | 40 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA6407 | 2095 | Cx. quinquefasciatus | Dinuba | 36 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA6408 | 1968 | Cx. quinquefasciatus | Dinuba | 33 | GRVD | 7/19/19 | WNV |
| Tulare | DLTA6408 | 2058 | Cx. quinquefasciatus | Dinuba | 16 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA6408 | 2102 | Cx. quinquefasciatus | Dinuba | 47 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA6408 | 2103 | Cx. quinquefasciatus | Dinuba | 10 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA6416 | 2064 | Cx. quinquefasciatus | Dinuba | 10 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA6518 | 2156 | Cx. quinquefasciatus | Cutler | 17 | GRVD | 7/25/19 | WNV |
| Tulare | DLTA7520 | 1986 | Cx. quinquefasciatus | | 50 | CO2 | 7/23/19 | WNV |
| Tulare | DLTA7528 | 1985 | Cx. quinquefasciatus | Ivanhoe | 18 | CO2 | 7/23/19 | WNV |
| Tulare | DLTA8324 | 2048 | Cx. quinquefasciatus | Goshen | 45 | GRVD | 7/23/19 | WNV |

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| Tulare | DLTA8413 | 2098 | Cx. quinquefasciatus | Visalia | 39 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA8414 | 1956 | Cx. quinquefasciatus | Visalia | 50 | CO2 | 7/19/19 | WNV |
| Tulare | DLTA8414 | 1957 | Cx. quinquefasciatus | Visalia | 50 | CO2 | 7/19/19 | WNV |
| Tulare | DLTA8414 | 1958 | Cx. quinquefasciatus | Visalia | 50 | CO2 | 7/19/19 | SLEV |
| Tulare | DLTA8414 | 1959 | Cx. quinquefasciatus | Visalia | 50 | CO2 | 7/19/19 | WNV |
| Tulare | DLTA8414 | 1960 | Cx. quinquefasciatus | Visalia | 50 | CO2 | 7/19/19 | WNV |
| Tulare | DLTA8414 | 1961 | Cx. quinquefasciatus | Visalia | 50 | CO2 | 7/19/19 | WNV |
| Tulare | DLTA8414 | 1962 | Cx. quinquefasciatus | Visalia | 22 | CO2 | 7/19/19 | WNV |
| Tulare | DLTA8415 | 1950 | Cx. quinquefasciatus | | 50 | CO2 | 7/19/19 | WNV |
| Tulare | DLTA8415 | 1954 | Cx. tarsalis | | 46 | CO2 | 7/19/19 | WNV |
| Tulare | DLTA8415 | 1955 | Cx. tarsalis | | 10 | CO2 | 7/19/19 | WNV |
| Tulare | DLTA8422 | 2021 | Cx. quinquefasciatus | Goshen | 50 | BGSENT | 7/23/19 | WNV |
| Tulare | DLTA8422 | 2023 | Cx. quinquefasciatus | Goshen | 50 | BGSENT | 7/23/19 | WNV |
| Tulare | DLTA8422 | 2024 | Cx. quinquefasciatus | Goshen | 47 | BGSENT | 7/23/19 | WNV |
| Tulare | DLTA8423 | 1975 | Cx. quinquefasciatus | Visalia | 21 | GRVD | 7/19/19 | WNV |
| Tulare | DLTA8424 | 2026 | Cx. quinquefasciatus | Visalia | 50 | BGSENT | 7/23/19 | WNV |
| Tulare | DLTA8424 | 2041 | Cx. quinquefasciatus | Visalia | 40 | BGSENT | 7/23/19 | WNV |
| Tulare | DLTA8424 | 2099 | Cx. quinquefasciatus | Visalia | 22 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA8425 | 2065 | Cx. quinquefasciatus | Visalia | 50 | BGSENT | 7/23/19 | WNV |
| Tulare | DLTA8425 | 2066 | Cx. quinquefasciatus | Visalia | 50 | BGSENT | 7/23/19 | WNV |
| Tulare | DLTA8425 | 2067 | Cx. quinquefasciatus | Visalia | 18 | BGSENT | 7/23/19 | WNV |
| Tulare | DLTA8425 | 2145 | Cx. quinquefasciatus | Visalia | 40 | GRVD | 7/25/19 | WNV |
| Tulare | DLTA8427 | 1980 | Cx. quinquefasciatus | Visalia | 44 | GRVD | 7/19/19 | WNV |
| Tulare | DLTA8434 | 2140 | Cx. quinquefasciatus | Visalia | 37 | GRVD | 7/25/19 | WNV |
| Tulare | DLTA8435 | 2037 | Cx. quinquefasciatus | Visalia | 39 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA8435 | 2143 | Cx. quinquefasciatus | Visalia | 30 | GRVD | 7/25/19 | WNV |
| Tulare | DLTA8436 | 2006 | Cx. quinquefasciatus | Visalia | 19 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA8436 | 2034 | Cx. quinquefasciatus | Visalia | 28 | BGSENT | 7/23/19 | WNV |
| Tulare | DLTA8436 | 2087 | Cx. quinquefasciatus | Visalia | 50 | GRVD | 7/24/19 | SLEV |
| Tulare | DLTA8436 | 2088 | Cx. quinquefasciatus | Visalia | 40 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA8514 | 2120 | Cx. quinquefasciatus | Visalia | 14 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA8519 | 2036 | Cx. quinquefasciatus | Visalia | 23 | BGSENT | 7/23/19 | WNV |
| Tulare | DLTA8519 | 2123 | Cx. quinquefasciatus | Visalia | 50 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA8519 | 2124 | Cx. quinquefasciatus | Visalia | 14 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA8520 | 1966 | Cx. quinquefasciatus | Visalia | 10 | GRVD | 7/19/19 | WNV |
| Tulare | DLTA8520 | 2025 | Cx. quinquefasciatus | Visalia | 22 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA8520 | 2111 | Cx. quinquefasciatus | Visalia | 22 | BGSENT | 7/24/19 | WNV |
| Tulare | DLTA8521 | 2119 | Cx. quinquefasciatus | Visalia | 32 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA8527 | 2011 | Cx. quinquefasciatus | Visalia | 40 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA8527 | 2012 | Cx. quinquefasciatus | Visalia | 18 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA8528 | 2050 | Cx. quinquefasciatus | Visalia | 50 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA8528 | 2100 | Cx. quinquefasciatus | Visalia | 32 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA8529 | 2039 | Cx. quinquefasciatus | Visalia | 46 | BGSENT | 7/23/19 | WNV |
| Tulare | DLTA8530 | 2125 | Cx. quinquefasciatus | Visalia | 50 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA8530 | 2126 | Cx. quinquefasciatus | Visalia | 37 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA8531 | 2078 | Cx. quinquefasciatus | Visalia | 20 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA8532 | 2142 | Cx. quinquefasciatus | Visalia | 24 | GRVD | 7/25/19 | WNV |
| Tulare | DLTA8532 | 2151 | Cx. quinquefasciatus | Visalia | 36 | GRVD | 7/25/19 | WNV |
| Tulare | DLTA8533 | 2007 | Cx. quinquefasciatus | Visalia | 17 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA8533 | 2083 | Cx. quinquefasciatus | Visalia | 31 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA8533 | 2149 | Cx. quinquefasciatus | Visalia | 27 | GRVD | 7/25/19 | WNV |
| Tulare | DLTA8534 | 2029 | Cx. quinquefasciatus | Visalia | 16 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA8534 | 2091 | Cx. quinquefasciatus | Visalia | 40 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA8631 | 2104 | Cx. quinquefasciatus | Farmersville | 19 | GRVD | 7/24/19 | WNV |

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| Tulare | DLTA9401 | 2009 | Cx. quinquefasciatus | Visalia | 41 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA9401 | 2079 | Cx. quinquefasciatus | Visalia | 37 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA9401 | 2105 | Cx. quinquefasciatus | Visalia | 50 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA9401 | 2106 | Cx. quinquefasciatus | Visalia | 24 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA9402 | 2147 | Cx. quinquefasciatus | Visalia | 14 | GRVD | 7/25/19 | WNV |
| Tulare | DLTA9402 | 2150 | Cx. quinquefasciatus | Visalia | 35 | GRVD | 7/25/19 | WNV |
| Tulare | DLTA9403 | 2093 | Cx. quinquefasciatus | Visalia | 50 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA9403 | 2094 | Cx. quinquefasciatus | Visalia | 28 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA9403 | 2116 | Cx. quinquefasciatus | Visalia | 48 | BGSENT | 7/24/19 | WNV |
| Tulare | DLTA9411 | 2085 | Cx. quinquefasciatus | Visalia | 46 | GRVD | 7/24/19 | SLEV |
| Tulare | DLTA9411 | 2085 | Cx. quinquefasciatus | Visalia | 46 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA9411 | 2127 | Cx. quinquefasciatus | Visalia | 50 | BGSENT | 7/24/19 | WNV |
| Tulare | DLTA9411 | 2128 | Cx. quinquefasciatus | Visalia | 50 | BGSENT | 7/24/19 | WNV |
| Tulare | DLTA9411 | 2129 | Cx. quinquefasciatus | Visalia | 50 | BGSENT | 7/24/19 | WNV |
| Tulare | DLTA9411 | 2152 | Cx. quinquefasciatus | Visalia | 27 | GRVD | 7/25/19 | WNV |
| Tulare | DLTA9412 | 2052 | Cx. quinquefasciatus | Visalia | 40 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA9412 | 2141 | Cx. quinquefasciatus | Visalia | 36 | GRVD | 7/25/19 | WNV |
| Tulare | DLTA9412 | 2172 | Cx. quinquefasciatus | Visalia | 50 | BGSENT | 7/25/19 | WNV |
| Tulare | DLTA9504 | 1974 | Cx. quinquefasciatus | Visalia | 35 | BGSENT | 7/19/19 | WNV |
| Tulare | DLTA9504 | 2017 | Cx. quinquefasciatus | Visalia | 14 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA9504 | 2082 | Cx. quinquefasciatus | Visalia | 27 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA9504 | 2148 | Cx. quinquefasciatus | Visalia | 29 | GRVD | 7/25/19 | SLEV |
| Tulare | DLTA9504 | 2148 | Cx. quinquefasciatus | Visalia | 29 | GRVD | 7/25/19 | WNV |
| Tulare | DLTA9505 | 2018 | Cx. quinquefasciatus | Visalia | 11 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA9505 | 2089 | Cx. quinquefasciatus | Visalia | 46 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA9505 | 2159 | Cx. quinquefasciatus | Visalia | 29 | BGSENT | 7/25/19 | WNV |
| Tulare | DLTA9506 | 2016 | Cx. quinquefasciatus | Visalia | 30 | GRVD | 7/23/19 | SLEV |
| Tulare | DLTA9506 | 2016 | Cx. quinquefasciatus | Visalia | 30 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA9506 | 2084 | Cx. quinquefasciatus | Visalia | 44 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA9506 | 2144 | Cx. quinquefasciatus | Visalia | 18 | GRVD | 7/25/19 | WNV |
| Tulare | DLTA9512 | 2112 | Cx. quinquefasciatus | Farmersville | 50 | GRVD | 7/24/19 | WNV |
| Tulare | DLTA9603 | 2047 | Cx. quinquefasciatus | Exeter | 46 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA9606 | 2031 | Cx. quinquefasciatus | Farmersville | 49 | GRVD | 7/23/19 | SLEV |
| Tulare | DLTA9606 | 2031 | Cx. quinquefasciatus | Farmersville | 49 | GRVD | 7/23/19 | WNV |
| Tulare | DLTA9610 | 2108 | Cx. quinquefasciatus | Exeter | 16 | GRVD | 7/24/19 | WNV |
| Tulare | KNGS3017 | 320 | Cx. tarsalis | Waukena | 10 | CO2 | 7/19/19 | WNV |
| Yuba | SUYA8 | 233 | Cx. tarsalis | Marysville | 40 | CO2 | 7/23/19 | WNV |

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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 with a plaque reduction neutralization test (PRNT).

Dead Birds

Oral swab samples collected from bird carcasses are tested at the UC Davis Arbovirus Research and Training laboratory (DART) or at a local agency for West Nile virus by RT-qPCR.

Sentinel Chickens:

Dried blood spot samples from sentinel chickens are tested at the California Department of Public Health Vector-Borne Disease Laboratory for IgG antibodies to West Nile, St. Louis encephalitis, and western equine encephalomyelitis viruses by an EIA. Positive samples are confirmed by IFA, western-blot, or PRNT.

Mosquito Pools:

Mosquito pools are tested at DART or at a local agency for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a multiplex RT-qPCR. Invasive *Aedes* mosquitoes (*Ae. aegypti* and *Ae. albopictus*) are also tested at DART for chikungunya, dengue, and Zika viral RNA by a separate RT-qPCR.

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) 412-6253 or email: tina.feiszli@cdph.ca.gov.

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 websites: www.cdc.gov and https://wwwn.cdc.gov/arbovet/maps/ADB_Diseases_Map/index.html