

California Arbovirus Surveillance Bulletin #9

Week 22 Friday, June 3, 2022



Weekly Update

Humans

No human infections have been reported in 2022.

Dead Birds

A total of 4 West Nile virus (WNV) positive dead birds were reported this week from Los Angeles (3) and Yolo (1) counties. **These are the first detections of WNV activity in Los Angeles and Yolo counties this year.** To date this year, five WNV positive dead birds have been reported from three counties. At this time last year, six WNV positive dead birds had been reported from three counties.

Mosquito Pools

A total of 11 WNV positive mosquito pools were reported this week from Fresno (6), Kern (3), Orange (1), and Sacramento (1) counties. **This is the first detection of WNV activity in Sacramento County this year.** In 2022, 16 WNV positive mosquito pools have been reported from 5 counties. At this time last year, three WNV positive mosquito pools from two counties had been reported.

Sentinel Chickens

No seroconversions have been reported in 2022.

| 2021 & 2022 YTD West Nile Virus Comparisons | | |
|---|-----------|------------|
| | 2021 | 2022 |
| Total # Dead Bird Reports | 2,157 | 1,783 |
| # Positive Counties | 4 | 8 |
| # Human Cases | 0 | 0 |
| # Positive Dead Birds / # Tested | 6 / 560 | 5 / 360 |
| # Positive Mosquito Pools / # Tested | 3 / 6,553 | 16 / 6,317 |
| # Seroconversions / # Tested | 0 / 1,125 | 0 / 699 |

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| YTD WNV Activity by Element and County, 2022 | | | | | |
|--|--------|--------|------------|----------------|-------------------|
| County | Humans | Horses | Dead Birds | Mosquito Pools | Sentinel Chickens |
| Contra Costa | | | 1 | | |
| Fresno | | | | 8 | |
| Kern | | | | 4 | |
| Los Angeles | | | 3 | | |
| Orange | | | | 2 | |
| Riverside | | | | 1 | |
| Sacramento | | | | 1 | |
| Yolo | | | 1 | | |
| Totals | 0 | 0 | 5 | 16 | 0 |

TESTING SUMMARIES

Humans

| | | WNV | SLEV | WEEV |
|-------------|------|-----|------|------|
| Human Cases | Week | 0 | 0 | 0 |
| | YTD | 0 | 0 | 0 |

Dead Birds

| | | Number Tested | WNV Positive |
|------------|------|---------------|--------------|
| Dead Birds | Week | 53 | 4 |
| | YTD | 360 | 5 |

Sentinel Chickens

| | | Number Tested | WNV Positive | SLEV Positive | WEEV Positive |
|--------------|------|---------------|--------------|---------------|---------------|
| Chicken Sera | Week | 132 | 0 | 0 | 0 |
| | YTD | 699 | 0 | 0 | 0 |

Mosquito Pools

| | | Positive / Total Tested | | | | | |
|----------------|------|-------------------------|-----------|-----------|--------|--------|--------|
| | | WNV | SLEV | WEEV | CHIK | DENV | ZIKA |
| Mosquito Pools | Week | 11 / 885 | 0 / 837 | 0 / 836 | 0 / 70 | 0 / 70 | 0 / 70 |
| | YTD | 16 / 6,317 | 0 / 6,212 | 0 / 6,211 | 0 / 70 | 0 / 70 | 0 / 70 |

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POSITIVES

Dead Birds

| County | Agency | City | Zip Code | Species | Date Reported | Virus |
|-------------|-------------------------------------|-------------|----------|---------------|---------------|-------|
| Los Angeles | Greater Los Angeles Co VCD - Sylmar | North Hills | 91343 | American Crow | 5/26/2022 | WNV |
| Los Angeles | Greater Los Angeles Co VCD - Sylmar | North Hills | 91343 | American Crow | 5/26/2022 | WNV |
| Los Angeles | Greater Los Angeles Co VCD - Sylmar | North Hills | 91343 | American Crow | 5/26/2022 | WNV |
| Yolo | Sacramento-Yolo MVCD | Davis | 95616 | American Crow | 5/27/2022 | WNV |

Mosquito Pools

| County | Site Code | Pool # | Species | City | # in Pool | Trap Type | Collected | Virus |
|------------|-------------|--------|----------------------|-------------|-----------|-----------|-----------|-------|
| Fresno | CNSL 4298 | 20 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 5/26/2022 | WNV |
| Fresno | FRNO 156 | 226 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 5/26/2022 | WNV |
| Fresno | FRNO 256 | 215 | Cx. quinquefasciatus | Fresno | 37 | GRVD | 5/26/2022 | WNV |
| Fresno | FRNO 64 | 223 | Cx. quinquefasciatus | Fresno | 28 | GRVD | 5/26/2022 | WNV |
| Fresno | FRNO 87 | 235 | Cx. quinquefasciatus | Fresno | 50 | GRVD | 6/1/2022 | WNV |
| Fresno | FRNO 87 | 236 | Cx. quinquefasciatus | Fresno | 9 | GRVD | 6/1/2022 | WNV |
| Kern | KERN 12 | 164 | Cx. quinquefasciatus | Bakersfield | 50 | GRVD | 5/26/2022 | WNV |
| Kern | KERN 2027 | 171 | Cx. quinquefasciatus | Bakersfield | 34 | CO2 | 5/26/2022 | WNV |
| Kern | KERN 77 | 179 | Cx. quinquefasciatus | Bakersfield | 45 | BGSENT | 5/26/2022 | WNV |
| Orange | ORCO 325 | 995 | Cx. quinquefasciatus | La Habra | 28 | GRVD | 6/1/2022 | WNV |
| Sacramento | SAYO 213009 | 682 | Cx. pipiens | Sacramento | 22 | GRVD | 6/1/2022 | 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.

Website Information: For updated information on WNV in California, please visit the California WNV website, <https://westnile.ca.gov>, or the California Vector-Borne Disease Surveillance System website, <https://maps.vectorsurv.org>.

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