## California Arbovirus Surveillance Bulletin #3

Week 19 Friday, May 14, 2021



## **Weekly Update**

### **Humans**

No human infections have been reported in 2021.

## **Dead Birds**

One West Nile virus (WNV) positive dead bird has been reported from San Joaquin County. **This is the first detection of WNV activity in San Joaquin County and also California in 2021.** At this time last year, five WNV positive dead birds had been reported from two counties.

## **Mosquito Pools**

No positive mosquito pools have been reported in 2021.

## **Sentinel Chickens**

No seroconversions have been reported in 2021.

| YTD WNV Activity by Element and County, 2021 |        |            |                |                   |  |  |  |
|--|--------|------------|----------------|-------------------|--|--|--|
| County                                       | Humans | Dead Birds | Mosquito Pools | Sentinel Chickens |  |  |  |
| San Joaquin                                  |        | 1          |                |                   |  |  |  |
| Totals                                       | 0      | 1          | 0              | 0                 |  |  |  |

Website Information: For updated information on WNV in California, please visit the California WNV website, <a href="www.westnile.ca.gov">www.westnile.ca.gov</a>, or the California Vectorborne Disease Surveillance System website, <a href="www.maps.calsurv.org">www.maps.calsurv.org</a>. For national information on WNV and other arboviruses, please visit the CDC websites: <a href="www.cdc.gov">www.cdc.gov</a> and <a href="www.cdc.gov/arbonet/maps/ADB">www.cdc.gov/arbonet/maps/ADB</a> <a href="Diseases">Diseases</a> <a href="maps/maps/ADB">Map/index.html</a>

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| 2020 & 2021 YTD West Nile Virus Comparisons |           |           |  |  |  |  |
|---|-----------|-----------|--|--|--|--|
|   | 2020      | 2021      |  |  |  |  |
| Total # Dead Bird Reports                   | 1,006     | 1,626     |  |  |  |  |
| # Positive Counties                         | 2         | 1         |  |  |  |  |
| # Human Cases                               | 0         | 0         |  |  |  |  |
| # Positive Dead Birds / # Tested            | 5 / 190   | 1 / 351   |  |  |  |  |
| # Positive Mosquito Pools / # Tested        | 0 / 2,891 | 0 / 2,983 |  |  |  |  |
| # Seroconversions / # Tested                | 0 / 220   | 0 / 507   |  |  |  |  |

# **TESTING SUMMARIES**

## Humans

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

Dead Birds Chickens

|       |      | Number<br>Tested | WNV<br>Positive |  |
|-------|------|------------------|-----------------|--|
| Dead  | Week | 51               | 1               |  |
| Birds | YTD  | 351              | 1               |  |

|              |      | Number<br>Tested | WNV<br>Positive | SLEV<br>Positive | WEEV<br>Positive |
|--------------|------|------------------|-----------------|------------------|------------------|
| Chicken Sera | Week | 122              | 0               | 0                | 0                |
|              | YTD  | 507              | 0               | 0                | 0                |

## Mosquitoes

|                |      | Positive / Total Tested |           |           |      |      |      |  |
|----------------|------|-------------------------|-----------|-----------|------|------|------|--|
|                |      | WNV                     | SLEV      | WEEV      | СНІК | DENV | ZIKA |  |
| Mosquito Pools | Week | 0 / 784                 | 0 / 694   | 0 / 628   | 0/0  | 0/0  | 0/0  |  |
|                | YTD  | 0 / 2,983               | 0 / 2,712 | 0 / 2,603 | 0/0  | 0/0  | 0/0  |  |

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### **Dead Birds**

| County      | Agency              | City  | Zip Code | Species     | Date Reported | Virus |
|-------------|---------------------|-------|----------|-------------|---------------|-------|
| San Joaquin | San Joaquin Co MVCD | Ripon | 95366    | Pine Siskin | 3/9/2021      | WNV   |

## **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.

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