

## California Arbovirus Surveillance Bulletin #32

Week 47 Friday, November 21, 2025



### WEEKLY UPDATE

#### **Humans**

##### West Nile virus

A total of 3 new human cases of West Nile virus (WNV) disease were reported this week from 2 counties: Merced (1) and Orange (2). In 2025, 102 human cases of WNV disease have been reported from 21 counties. Of the 102 cases, 91 (89%) had neuroinvasive disease and 9 (9%) were fatal. The median age of the case-patients was 64 years and 64 (63%) of the case patients were male. The dates of symptom onset ranged from June 6 to November 2. In addition to the 102 cases of WNV disease, 11 asymptomatic WNV positive blood donors have been reported from 6 counties: Fresno (2), Kern (2), Los Angeles (4), Madera (1), Merced (1), and Tulare (1). At this time last year, 117 human cases of WNV disease had been reported from 23 counties.

##### Dengue virus

In 2025, 6 locally acquired dengue cases have been reported from 1 county: Los Angeles (6). Locally acquired and travel associated dengue cases are indicated in the CDPH Weekly Update on Number of Dengue Infections: <https://westnile.ca.gov/pdfs/WeeklyUpdateDengueInfectionsCA.pdf>

#### **Dead Birds**

A total of 2 new WNV positive dead birds were reported this week from 1 county: San Diego (2). In 2025, a total of 154 WNV positive dead birds have been reported from 21 counties. At this time last year, 533 WNV positive dead birds had been reported from 22 counties.

#### **Mosquito Pools**

##### West Nile virus

No new WNV positive mosquito pools were reported this week. In 2025, a total of 2,755 WNV positive mosquito pools have been reported from 27 counties. At this time last year, 2,003 WNV positive mosquito pools had been reported from 25 counties.

##### St. Louis encephalitis virus

No new St. Louis encephalitis virus (SLEV) positive mosquito pools were reported this week. In 2025, 105 SLEV positive mosquito pools have been reported from 3 counties: Fresno (1), Imperial (8), and Riverside (96). At this time last year, 34 SLEV positive mosquito pools had been reported from 5 counties.

##### Dengue virus

No new dengue virus (DENV) positive mosquito pools were reported this week. In 2025, 1 DENV positive mosquito pool has been reported from 1 county. At this time last year, no DENV positive mosquito pools had been reported.

#### **Sentinel Chickens**

No new WNV positive sentinel chickens were reported this week. In 2025, 64 WNV positive sentinel chickens have been reported from 8 counties. At this time last year, 158 WNV positive chickens had been reported from 16 counties.

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| 2024 & 2025 YTD West Nile Virus Comparisons |                |                |
|---------------------------------------------|----------------|----------------|
|                                             | 2024           | 2025           |
| Total No. Dead Bird Reports                 | 6,290          | 7,418          |
| No. Positive Counties                       | 32             | 36             |
| No. Human Cases                             | 117            | 102            |
| No. Positive Dead Birds / No. Tested        | 533 / 1,777    | 154 / 1,643    |
| No. Positive Mosquito Pools / No. Tested    | 2,003 / 47,990 | 2,755 / 51,802 |
| No. Seroconversions / No. Tested            | 158 / 4,757    | 64 / 4,142     |

| YTD WNV Activity by Element and County, 2025 |            |          |            |                |                   |
|----------------------------------------------|------------|----------|------------|----------------|-------------------|
| County                                       | Humans     | Horses   | Dead Birds | Mosquito Pools | Sentinel Chickens |
| Alameda                                      |            |          | 6          |                |                   |
| Butte                                        | 4          |          |            | 28             | 14                |
| Colusa                                       |            |          | 1          | 1              | 1                 |
| Contra Costa                                 |            | 1        | 3          | 3              |                   |
| Fresno                                       | 13         |          | 11         | 132            |                   |
| Glenn                                        | 1          |          |            |                |                   |
| Imperial                                     |            |          |            | 1              |                   |
| Inyo                                         |            |          |            | 1              |                   |
| Kern                                         | 16         |          | 1          | 129            |                   |
| Kings                                        | 9          |          |            | 129            |                   |
| Lake                                         |            |          | 1          | 5              | 6                 |
| Los Angeles                                  | 14         |          | 5          | 200            | 17                |
| Madera                                       |            |          |            | 264            |                   |
| Merced                                       | 2          |          | 1          | 42             |                   |
| Monterey                                     | 1          |          |            |                |                   |
| Nevada                                       | 1          |          |            |                |                   |
| Orange                                       | 4          |          | 4          | 184            |                   |
| Placer                                       | 6          |          | 8          | 145            |                   |
| Riverside                                    |            |          |            | 15             |                   |
| Sacramento                                   | 2          | 1        | 27         | 67             |                   |
| San Bernardino                               |            |          |            | 6              |                   |
| San Diego                                    |            |          | 33         | 179            |                   |
| San Joaquin                                  | 6          |          | 7          | 139            |                   |
| Santa Barbara                                |            | 1        |            |                |                   |
| Santa Clara                                  | 1          |          | 26         | 3              |                   |
| Shasta                                       |            |          |            | 2              |                   |
| Siskiyou                                     | 1          |          |            |                |                   |
| Solano                                       | 1          |          | 3          | 28             | 2                 |
| Sonoma                                       |            |          | 1          |                |                   |
| Stanislaus                                   | 2          | 1        | 1          | 196            |                   |
| Sutter                                       | 2          |          | 1          | 12             | 11                |
| Tulare                                       | 13         |          | 8          | 759            | 9                 |
| Tuolumne                                     | 2          |          |            |                |                   |
| Ventura                                      |            |          | 1          |                |                   |
| Yolo                                         | 1          | 1        | 5          | 77             |                   |
| Yuba                                         |            |          |            | 8              | 4                 |
| <b>Totals</b>                                | <b>102</b> | <b>5</b> | <b>154</b> | <b>2,755</b>   | <b>64</b>         |

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### TESTING SUMMARIES

|             |      | WNV | SLEV | WEEV |
|-------------|------|-----|------|------|
| Human Cases | Week | 3   | 0    | 0    |
|             | YTD  | 102 | 0    | 0    |

| Positive / Total Tested |      |      |      |      |      |
|-------------------------|------|------|------|------|------|
| WNV                     | SLEV | WEEV | CHIK | DENV | ZIKA |

| Dead Birds | Week | 2 / 6       |
|------------|------|-------------|
|            | YTD  | 154 / 1,643 |

| Chicken Sera | Week | 0 / 72     | 0 / 72    | 0 / 72    |
|--------------|------|------------|-----------|-----------|
|              | YTD  | 64 / 4,142 | 0 / 4,142 | 0 / 4,142 |

| Mosquito Pools | Week | 0 / 202        | 0 / 202      | 0 / 202    | 0 / 21    | 0 / 21    | 0 / 21    |
|----------------|------|----------------|--------------|------------|-----------|-----------|-----------|
|                | YTD  | 2,755 / 51,802 | 105 / 47,791 | 0 / 47,686 | 0 / 1,589 | 1 / 1,610 | 0 / 1,610 |

### POSITIVES

#### Dead Birds

| County    | Submitting Agency | City      | Zip Code | Species       | Date Reported | Virus |
|-----------|-------------------|-----------|----------|---------------|---------------|-------|
| San Diego | San Diego Co VCP  | San Diego | 92115    | American Crow | 11/12/2025    | WNV   |
| San Diego | San Diego Co VCP  | Santee    | 92071    | Cooper's Hawk | 11/12/2025    | WNV   |

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### TEST PROTOCOLS

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#### **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).

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#### **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.

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#### **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.

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#### **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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*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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