



# FROM DATA TO ACTION: CALSURV CONTINUES TO REVOLUTIONIZE MOSQUITO CONTROL

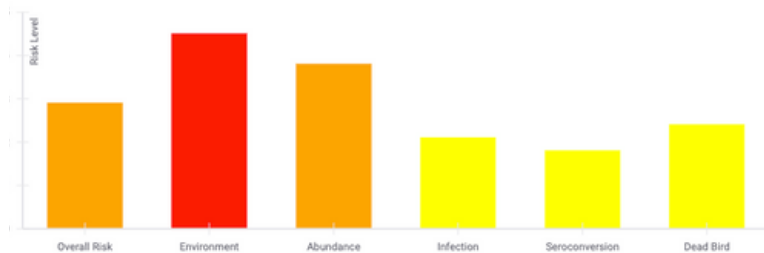
The California Vectorborne Disease Surveillance Gateway (CalSurv) is an essential tool in fighting vector-borne diseases. It is recognized in statute (AB 320 – Quirk) as the statewide surveillance database critical to preventing the spread of mosquito-borne diseases. The platform was included in the 2022-23 state budget as an annual appropriation. The state’s ongoing support for this online interactive platform is critical as it enables real-time collection, visualization, and analysis of data on vector-borne diseases. CalSurv, housed at UC Davis, curates local and statewide data to enable 81 mosquito and vector control and public health agencies to make informed decisions on public health interventions.

## State funding has sustained CalSurv and enabled the addition of new capabilities

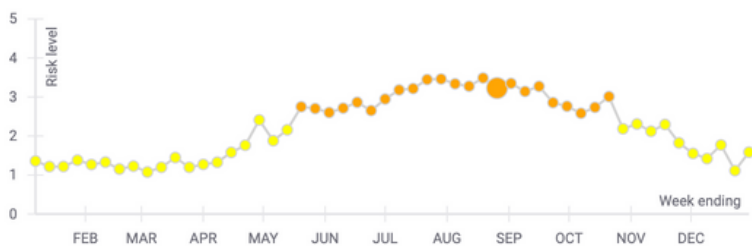
- New data tools to support surveillance for the vectors of Lyme and other tick-borne diseases.
- Open-data portal to accelerate research on the spread of invasive species and climate change-related impacts.
- Support for Integrated Vector Management practices through immediate reporting of mosquito and tick surveillance and pathogen test results.
- Improved local, state, and national interoperability.

**On top of the ongoing threat of West Nile virus, invasive *Aedes* mosquitoes, which can transmit Zika, dengue, chikungunya, and yellow fever, continue to spread throughout the state. CalSurv is an important part of controlling invasive mosquitoes as it helps identify pesticide resistance and visualize disease outbreak risks.**

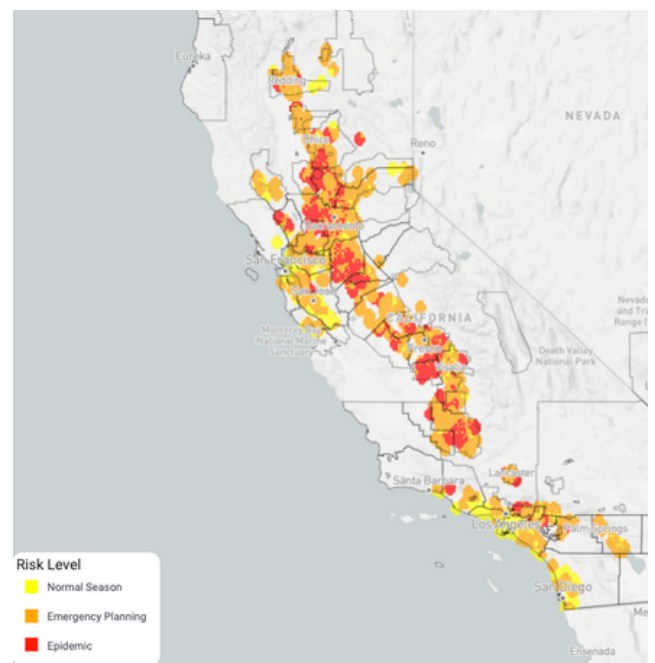
### Risk Components for Week Ending July 22, 2023



### Overall Risk Levels for 2023



### West Nile Virus Human Infection Risk Assessment for Week Ending July 22, 2023



# LEARN HOW CALSURV WORKS

## Turns data into evidence for public-health decision-makers.

- Tracks the spread of invasive mosquitoes.
- Enables real-time control decisions based on surveillance data to prevent the spread of vector-borne diseases.

## Supports cutting-edge research.

- Provides data that supports research to enhance surveillance and control strategies and predict new disease outbreaks.

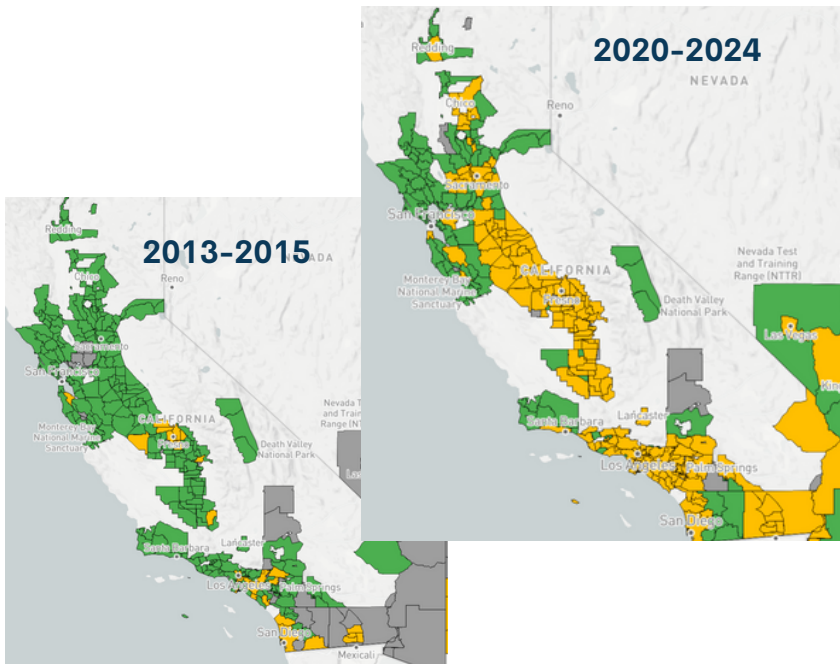
## Enables state and national reporting and risk assessment.

- CA Dept. of Public Health uses CalSurv data on mosquito abundance, mosquito infection rates, dead birds, sentinel chickens, and weather to provide statewide reports and assess transmission risk for vector-borne diseases.

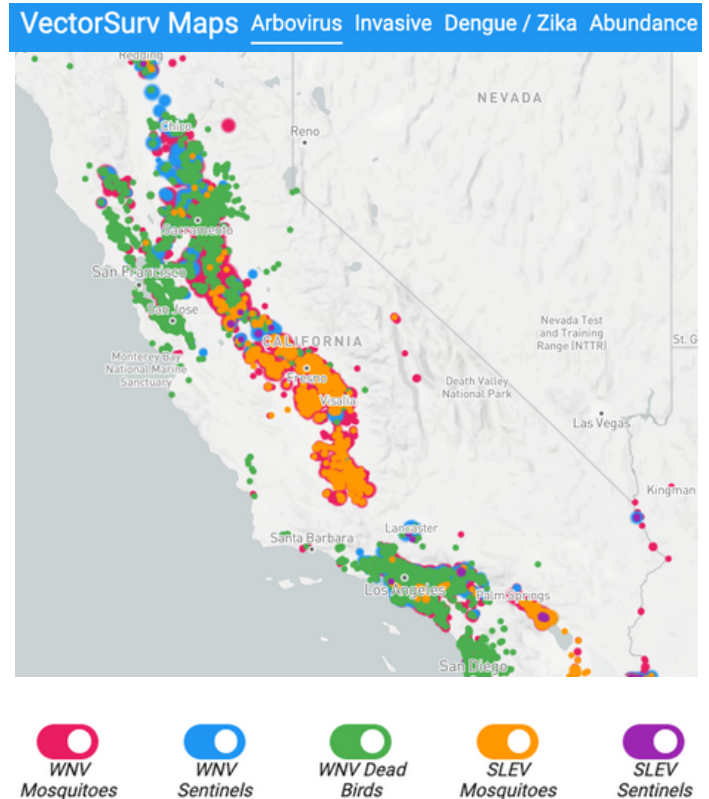
## Reduces health disparities.

- Local vector control programs vary greatly in funding and operational capacity.
- CalSurv provides a software solution for surveillance data in smaller rural communities that have a higher risk of arbovirus transmission but limited vector control resources.

## *Aedes aegypti* Detections Based on Surveillance



## Mosquito-Borne Virus Activity Detected by Surveillance January 2013 - January 2024



Surveillance

*Aedes aegypti*

WNV Mosquitoes

WNV Sentinels

WNV Dead Birds

SLEV Mosquitoes

SLEV Sentinels