

Butte County Mosquito & Vector Control District

Since 1948

3rd Quarter, 2024

Newsletter

MANAGER'S MESSAGE

"I'm humbled, honored, and privileged to have a dedicated group of employees who were willing to step up to the task of working long hours during the days, nights, and the holidays of 2024, committing themselves to protecting the public's health. Throughout the mosquito season, the District's staff and Board of Trustees operated and conducted business to respond to 2,022 service requests as of September 18th, West Nile virus detections, and an invasive mosquito species, *Aedes aegypti*. I am extremely grateful and appreciative for each and every one of the District's employees and the Board of Trustees. For all those that went above and beyond this season, I thank you."

Respectfully, Matthew C. Ball
District Manager



Butte County Mosquito and Vector Control District
5117 Larkin Road
Orville, CA. 95965

MISSION STATEMENT

The mission of the Butte County Mosquito and Vector Control District is primarily to suppress mosquito transmitted disease and also to reduce the annoyance levels of mosquitoes and diseases associated with ticks, fleas and other vectors through environmentally compatible control practices and public education.

CONTACT INFORMATION

Butte County Mosquito & Vector Control District
5117 Larkin Road, Oroville, CA. 95965
Phone: (530) 533-6038, (530) 342-7350
Fax: (530) 534-9916
Website: www.BUTTEMOSQUITO.com
"FIGHT THE BITE!"

This institution is an equal opportunity provider and employer.



DON'T FORGET TO DUMP AND DRAIN AFTER THE RAIN

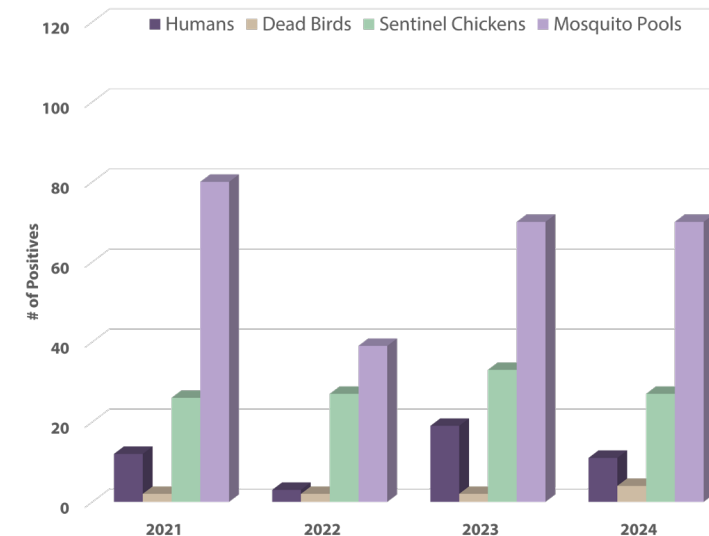
Common Backyard Mosquito Sources

- Open trash bins
- Uncovered boats
- Fountains and bird baths
- Clogged rain gutters
- Low areas
- Water bowls for pets
- Potted plant saucers
- Buckets and barrels
- Leaky hoses
- Wagons and other toys
- Ponds
- Neglected pools
- Rot holes in trees
- Tires

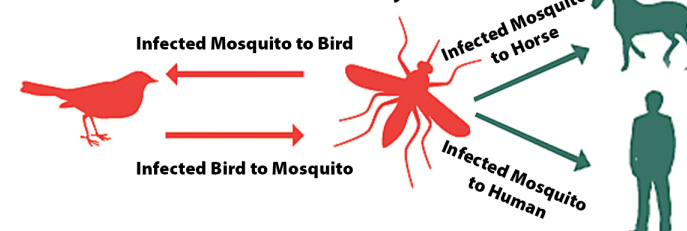
WEST NILE VIRUS ACTIVITY

As of September 18th, 70 mosquito pools, 4 dead birds, and 27 sentinel chickens have tested positive for WNV. There have been 11 human cases of WNV reported.

BUTTE COUNTY WNV STATISTICS



West Nile Virus Transmission Cycle



AERIAL OPERATIONS

As of September 18th, Aerial Operations have treated 47,966 acres of rice, 10,195 acres of wetlands and Ultra-Low-Volume(ULV) adulticide treatments of 72,000 acres. A total of 130,161 acres have been treated by air.

Rice **47,966** Acres
Wetlands **10,195** Acres
ULV **72,000** Acres



AERIAL PROGRAM



Managed wetland surveillance is crucial for the District's vector management program, covering over 50,000 acres of state, federal, and private wetlands. Given their vast expanse, aerial surveillance via aircraft is the most efficient method. During mosquito season, the District's pilot uses aerial photography to monitor these wetlands as they flood. Photos are then shared with Mosquito and Vector Control Specialists (MVCS), who conduct larval sampling by dipping water sources with a specialized cup. If larvae are detected, field maps are generated using Mapvision® software. Based on surveillance data including larval counts and environmental factors, the air operations staff determines the pesticide application rate. The pilot receives detailed instructions including GIS maps and coordinates for precise application. After application, data is recorded in Mapvision® for compliance and reporting purposes.



N714Y
'Horse'

FYI If an MVCS finds 10 mosquito larvae per dip in a small 10-acre field, there are approximately 3.92 million mosquito larvae. With these numbers in mind, it quickly becomes apparent as to why the District must do aerial wetland surveillance and control.

AEDES AEGYPTI

Aedes aegypti, commonly referred to as the Yellow Fever mosquito, ranges globally in tropic and subtropic areas. Now firmly established in Southern California, it has expanded its range northward. These mosquitoes are aggressive daytime biters that feed mostly during the day, indoors and outdoors. Eggs are laid on dry surfaces near water and are resistant to drying out. Eggs can remain dry for 8 months. These mosquitoes survive the winter in the egg stage and hatch when covered with water in warm weather. This mosquito has the ability to transmit Zika, Dengue Fever, Chikungunya, Yellow Fever and Mayaro viruses. As of September 18th, *Aedes aegypti* has been identified in Butte County 247 times at 30 sites, in areas of Oroville, Chico, Paradise, Gridley, Biggs and Hamilton City. It's important for residents to eliminate all types of standing water around their property to prevent the spread of *Aedes aegypti*. Detection maps available at ButteMosquito.com

