

Butte County Mosquito & Vector Control District *Since* 1948

2nd Quarter, 2024

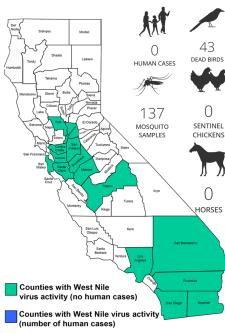
MOSOUITO SURVEILLANCE

Mosquito control season is now fully underway. The District has already seen increasingly higher numbers of mosquitoes in traps with rising populations identified in all areas of Butte County. The entomology department continues searching for West Nile virus and other mosquito-borne illnesses, utilizing New Jersey light traps, gravid traps, CO₂ baited traps, sentinel chickens, mosquito pools, and dead birds. An invasive species, Aedes aegypti, has been identified within Butte County again. *Aedes aegypti* is the primary vector of diseases such as Yellow Fever, Dengue and Zika viruses. Butte County does not have any local transmission of these viruses. The District's control and surveillance programs are fully staffed and operating at high capacity. Mosquito and Vector Control Specialists are focusing larvicide efforts on various mosquito-breeding sources:



Rural Roadside Ditches, Pastures, Sewer Ponds, Sumps, Canal Leakage, Containers, Tires, Tree-Holes, Etc.

WEST NILE VIRUS ACTIVITY



As of June 27th, 2024, West Nile virus (WNV) has not been found in Butte County using any of our sampling techniques.

WNV has been found in California, in 15 counties. Many in southern California and near the bay area.



Oroville, CA. 95965 211/ Larkin Road Butte County Mosquito and Vector Control District

MOSQUITOFISH

Requested By Phone or Website (530) 533-6038 www.ButteMosquito.com Free mosquitofish available for pickup at these locations:

Oroville BCMVCD 5117 Larkin Rd. (530) 533-6038

Ace Hardware 1845 Mitchell Ave. (530) 533-5600

Gridley Ace Hardware 1626 State Hwy 99 (530) 846-3625

Concow The Pine's Yankee Hill 11300 Miller Flat Rd. (530) 534-1265

Butte Valley Earthworm Soil Factory 2552 Clark Rd. (530) 895-9676

Hamilton City **Fire Department** 4120 1st St. (530) 826-3355

Chico **BCMVCD** Substation 444 Otterson Dr. 530) 533-6038 Bar D Feeds

3388 State Hwy 32 (530) 342-5361

Magnolia Gift & Garden 1367 East Ave. (530) 894-5410 Wilbur's Feed

139 Mevers St. (530) 895-0559

Paradise Déjà Vu Gardens 5424 Foster Rd. (530) 877-7341 Foothill Mill & Lumber 1698 Wagstaff Rd. (530) 877-3395

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 annovance 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 Contol District 5117 Larkin Road, Oroville, CA. 95965 Phone: (530) 533-6038, (530) 342-7350

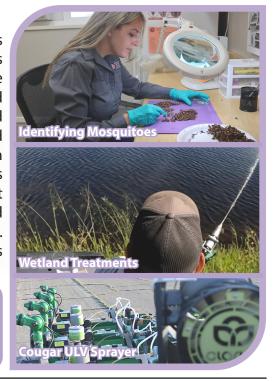
> Fax: (530) 534-9916 www.buttemosquito.com "FIGHT THE BITE!"

This institution is an equal opportunity provider and employer



Newsletter

Agricultural Rice, Wetlands, Orchard Runoff, Ditches, Pump Leaks, Containers, Tires, Wildlife Area Ponds, Etc.



AERIAL OPERATIONS

As of June 27th, 2024, aerial operations has treated 3, 437 acres of rice and 2,464 acres of wetlands. The District welcomes David Brandley, and additional Pilot II.



Afrantik NG633K=JAWS

MOSQUITO LIFE CYCLE

There are more than 3,500 species of mosquitoes around the world

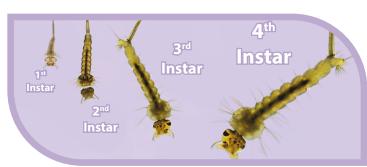
In California, we have about 50 species and of those, only a few are considered public health threats due to their potential to transmit mosquito-borne diseases to humans. People who have been bitten by a mosquito infected with viruses such as West Nile, Saint Louis Encephalitis, Dengue, and Zika may develop life-threatening or life-altering diseases. For the District and residents of Butte County to effectively reduce mosquito populations and the chance of getting a mosquito-borne disease, it is important to understand the habits and behaviors of the different mosquito species.

All mosquitoes must have water to complete their lifecycle.

This water can range in guality and it can be in any container imaginable. The mosquito goes through four separate and distinct stages of its lifecycle: egg, larva, pupa, and adult. Some species can go through their entire life cycle in as little as four days.

Egg

Eggs are laid on or near water or where water will be. They may be laid one at a time or stuck together in rafts of 100-300 eggs. Most eggs hatch into larvae within 48 hours of coming into contact with water. Eggs vary in form between different species.





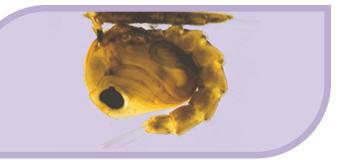
Larva

Larvae live in water and breathe air from the surface. Larvae feed on micro-organisms and organic matter in the water. They shed their skin four times growing larger after each molt. The stages between molts are called instars. When the 4th instar larva molts it becomes a pupa.

Pupa

Mosquito pupae also float at the water surface and breathe air. When disturbed, they dive in a tumbling motion and then float back to the surface. The pupal stage does not eat food. This is the time the mosquito turns into an adult. It takes two days before the adult is fully developed.





Adult

Newly emerged adults rest on the surface of the water for a short time to allow itself to dry before taking flight. Female mosquitoes feed to get a sufficient blood meal to develop eggs. Male mosquitoes feed only on plant nectar. The life span of the adult mosquito usually depends on several factors: species, temperature, humidity, gender, and time of year. Males live shorter lives.

PUBLIC EDUCATION CAMPAIGN

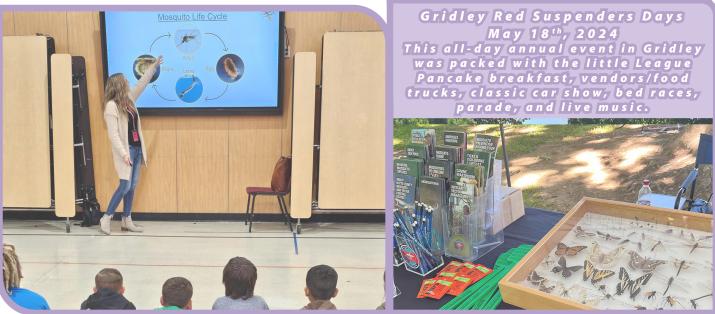
The District's ongoing public education campaign has been off to a strong start with several successful events already completed. The Home & Garden Show, Gold Nugget Craft Faire, and Red Suspenders Days were particularly well-received. These events featured an impressive insect exhibit, showcasing mosquitofish and mosquito larvae, along with complimentary items such as fly and mosquito swatters, tick identification cards, recyclable shopping bags, and mosquito repellent.

Additionally, the District participated in the State Park Week event at the North Forebay, further engaging with the community on mosquito awareness and prevention.

In collaboration with Lamar Advertising, the District has launched a comprehensive advertising campaign across various platforms. This includes a billboard campaign with the slogan, "Fight the Bite: Cover up. Repel. Eliminate.", displayed on six billboards rotating from May through September. New this year, the campaign also includes Bus and Bus shelter advertising throughout the county, as well as an electronic billboard advertisement.

Moreover, the District has partnered with Action News Now for a 30-second animated public service announcement focused on mosquito awareness, amplifying their outreach efforts.

Lastly, the District will continue its outreach through radio and print public service announcements. Radio ads are set to air on Deer Creek Broadcasting and Results Radio stations, while detailed information on mosquito prevention measures and contact details for the District will be featured in local newspapers.



Chico Spring Home & Garden April 6th & 7th, 2024 buildings packed with vendors and outdoor displays at Silver Dollar



Paradise Gold Nugget Craft Faire April 27th & 28th, 2024 This annual event was held she Recreation Center, in Pa featuring a variety of artisan craft from California, Oregon, and

