

# **Butte County Mosquito and Vector Control District**

5117 Larkin Road • Oroville, CA 95965-9250  
Phone: 530-533-6038 • Fax: 530-534-9916  
[www.BCMVCD.com](http://www.BCMVCD.com)

**Matthew C. Ball**  
Manager

## **AGENDA**

### ***Regular Meeting of the Board of Trustees of the Butte County Mosquito and Vector Control District***

(BCMVCD) Board Room, 444 Otterson Drive, Chico, CA 95928. The Board of Trustees is committed to making its proceedings accessible to all citizens. Individuals with special needs should call District staff at 530-533-6038 or 530-342-7350, Monday through Thursday, 6:00 a.m. to 4:30 p.m. to request disability-related modifications/accommodations or to request materials in alternate formats. All requests for special accommodation and/or alternative format documents must be made 48 hours prior to the meeting.

1. **Regular Board of Trustees Meeting Time:** 4:00 PM **Date:** February 14, 2024
2. **Call to Order** – 4:00 PM Roll Call
3. **Persons Wishing to Address the Board on Items Not on the Agenda (limit to 5 minutes):**
4. **Approval of Minutes of the Meeting of:** January 10, 2024
5. **Persons Wishing to Address the Board Pertaining to Closed Session Matters:**
6. **Closed Session Announcement (District Legal Counsel Present):** N/A
7. **Reports: (7.1 - 7.2)**
- 7.1 **District Manager's Report**

The District Manager will provide a brief report on current District business and activities. The District Manager will also report on District employees, meetings attended, and current projects.

#### 7.2 **Butte County Mosquito and Vector Control (BCMVCD) 2023 Annual Report**

The Assistant Manager will review the 2023 BCMVCD Annual Report.

#### 8. **Policy Matters: (8.1 – 8.3)**

##### 8.1 **Consider Authorizing Execution of Fire Victim Trust Releases**

The Board will be asked to consider authorizing the District Manager to execute the Fire Victim Trust Releases on behalf of the District, the Butte County Mosquito and Vector Control District.

##### 8.2 **Consider an Application for Eligibility for State and Federal Surplus Property Program**

The Board will be asked to consider approving and directing staff to submit an application for the State and Federal Surplus Property Program.

**8.3 Fair Political Practices Commission Form 700 Statement of Economic Interest**

This time will be set aside to allow the Board of Trustees to complete the Form 700 Statement of Economic Interest as required by the Fair Political Practices Commission.

**9. Topic of the Month:**

The Board will watch a presentation on overwintering *Anopheles freeborni*.

**10. Approve Payment of The Bills:**

The Board will be asked to review the demands made upon the District for the past month and consider approving the payment of the bills.

**11. Personnel: N/A**

**12. Correspondence:**

The Board will review a letter from the City of Oroville.

**13. Other Business: N/A**

**14. Persons Wishing to Address the Board Pertaining to Closed Session Matters:**

**15. Closed Session Matters (District Legal Counsel Not Present): N/A**

**16. Adjournment: (Next Regular Meeting of the BCMVCD Board of Trustees is March 13, 2024)**

**Regular Meeting Minutes of the Board of Trustees of the Butte County Mosquito and Vector Control District Meeting held January 10, 2024**

**Members Present:** Darlene Fredericks, Andrew Haymond, Assistant Secretary Bruce Johnson, Vice President Dr. Larry Kirk, Philip LaRocca, Steve Ostling, Secretary Melissa Schuster, President Bo Sheppard, and Carl Starkey.

**Members Excused:** None.

**Members Absent:** None.

**Also Present:** District Manager Matt Ball, Assistant Manager Aaron Lumsden, Administrative Manager Maritza Sandoval, and Entomologist Amanda Bradford.

1. The Regular Meeting of the Board of Trustees of the Butte County Mosquito and Vector Control District held on January 10, 2024, at 444 Otterson Drive, Chico, CA 95928.
2. The January 10, 2024, Butte County Mosquito and Vector Control District regular meeting of the Board of Trustees was called to order at 4:00 PM by President Sheppard.
3. Seeing and hearing no persons wishing to address the Board on items not on the agenda, President Sheppard proceeded to request approval of the minutes.
4. After review, it was then moved by Member Johnson, seconded by Member Kirk, and passed unanimously with a vote of 8 ayes and 0 nays with Member Starkey abstaining due to his excused absence to approve the minutes of the Board of Trustees regular meeting held December 13, 2023, as written.
5. No persons wishing to address the Board on closed session matters.
6. No closed session matters needing legal counsel.
7. The District Manager introduced the District's newly appointed Trustees, Steve Ostling and Andrew Haymond. Member Ostling was appointed by the Butte County Board of Supervisors to serve a 4-year term and Member Haymond was appointed to serve the remainder of the unexpired term ending December 31, 2025. Both Trustees provided a brief summary of their background and work history. The Board and staff welcomed Member Ostling and Member Haymond.
8. Under election of officers, President Sheppard opened nominations for election of officers, it was moved by Member Schuster, seconded by Member LaRocca, and passed unanimously to keep the current slate of officers. Member Sheppard as President, Member Kirk as Vice President, Member Schuster as Secretary, and Member Johnson to Assistant Secretary.
9. Reports (9.1 – 9.2)
  - 9.1 Under item 9.1 of Reports, District Manager's Report, the District Manager reported that the District has two current vacancies on the Board. No appointment was made from the City of Oroville as of this date and no appointment from the County of Glenn to represent Hamilton City.

On December 13, 2023, District management attended a Butte County Special District Association (BCSDA) meeting. The District will host the BCSDA meeting in May.

On December 14, 2023, the District completed the monthly management meeting, staff meeting, and all vehicle inspections. The District's Safety Committee held their monthly meeting as well as management.

On December 22, 2023, the District Manager attended the MVCAC Legislative Committee meeting to discuss the upcoming legislative year, funding mechanisms, the possibility of bill introduction, and scheduling of future meetings and events.

On January 3, 2024, District management had a meeting with Leading Edge and Associates to discuss the District's new AIMMS 30/Satloc as well as MapVision 3.0.

On January 9, 2024, all District staff attended defensive driver's training provided by the VCJPA. The training includes classroom and ride along training. This training is provided free of charge to the District.

The District Manager reminded the Board that the District was closed the week of December 18<sup>th</sup> and December 25<sup>th</sup>.

- 9.2 Under item 9.2 of Reports, 2023/2024 2nd Quarter Fiscal Reports, the Administrative Manager reported that salaries and benefits category is 51.8% expended, services and supplies category is 71.3% expended, capital outlay category is 46.4%. It was then stated that overall expenditures are currently at 57.8% expended and current revenues are at 61.6% received.
10. Policy Matters (10.1 – 10.3)
- 10.1 Under item 10.1 of Policy Matters, the Board was asked to consider a new policy to be entered into Personnel Policies, Policy 7042, Reproductive Leave Loss. The District Manager informed the Board that this policy is a new leave that went into law on January 1, 2024 and that the District's legal counsel had drafted the policy. It was moved by Member Johnson, seconded by Member Schuster and approved with a vote of 9 ayes 0 nays to adopt Personnel Policy, Policy 7042, Reproductive Leave Loss as drafted.
- 10.2 Under item 10.2 of Policy Matters, the Board was asked to consider approving and adopting Resolution No. 24-01, a Resolution of Appreciation for Meritorious Service to the Citizens of Butte County and Hamilton City for Dr. Albert Beck. It was then moved by Member Kirk, seconded by Member Fredericks, and passed unanimously with a vote of 9 ayes 0 nays to approve and adopt Resolution No. 24-01, a Resolution of Appreciation for Meritorious Service to the Citizens of Butte County and Hamilton City for Dr. Albert Beck.
- 10.3 Under item 8.3 of Policy Matters, the Board was asked to consider accepting a claim against the District for property damages and provide District staff with direction on seeking reimbursement with the aircraft insurance. The District Manager provided information on the incident that took place on July 17, 2023, between the District's aircraft being flown by the District's Pilot and the Pacific Gas and Electric equipment that was damaged. It was then moved by Member Johnson, seconded by Member LaRocca and passed unanimously with a vote of 9 ayes 0 nays to accept the claim against the District for property damages totaling \$8,794.16, directed management to pay the invoice, and not file a claim for reimbursement with the District's aircraft insurance company.
11. Under topic of the month, the District's Entomologist gave a presentation on the biology of tick-borne diseases.
12. After reviewing the demands made upon the District for the past month, it was then moved by Member LaRocca, seconded by Member Johnson, and passed unanimously with a vote of 9 ayes 0 nays to authorize checks numbered 53310 through 53443 be signed and distributed. Expenditures for the month totaled \$372,422.44.
13. No items under personnel to report.
14. No correspondence to report.
15. No other business to report.
16. No persons wishing to address the Board pertaining to closed session matters.
17. No closed session matters not warranting legal counsel.
18. President Sheppard announced adjournment at 4:52 PM and concluded by stating that the next regular meeting of the BCMVCD Board of Trustees would meet at 4:00 PM on February 14, 2024, at the Chico Substation Board Room at 444 Otterson Drive, Chico, CA 95928.

Respectfully submitted,

Melissa Schuster,  
Secretary

On January 11, 2024, the District completed the monthly management meeting, staff meeting, and all vehicle inspections. The District's Safety Committee held their monthly meeting as well as management. In addition, staff attended annual training on the safe use and handling of pesticides, pesticide review, forklift training, and respirator training.

The District was closed on January 15, 2024, in observance of Dr. Martin Luther King Jr. Day.

On January 17, 2024, District management attended a webinar provided by the California Air Resources Control Board regarding the new Clean Vehicle Fleet regulations.

On January 19, 2024, the District Manager attended the biweekly Legislative Regulatory Committee call. MVCAC lobbyists and committee members reviewed legislation and current regulatory issues throughout the state.

January 22 through January 24, 2024, District management and laboratory staff attended the MVCAC Annual Conference. The conference was full of useful information on many different topics including, but not limited to, invasive Aedes, dengue infections in California, laws and regulations, public education and outreach, and drone use for mosquito control.

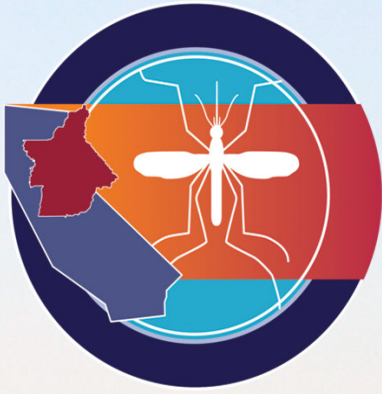
On February 6, 2024, the District Manager met with a representative of Valent Biosciences to discuss products, product availability, and pricing.

On February 7, 2024, District management attended a Butte County Special Districts Association meeting held at CARD in Chico.

On February 8, 2024, District management attended a CalPERS webinar on the Districts CEPPT account update.

On February 14, 2024, the District Manager attended a MVCAC Legislative Committee meeting reviewing the new legislative bills for 2024 and strategized and planned for the MVCAC Lobby Day.

20  
23



# Butte County Mosquito & Vector Control District

*Since 1948* **Annual Report 2023**





# BUTTE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT

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## CONTACT INFORMATION

**Butte County Mosquito and Vector Control District**  
**5117 Larkin Road, Oroville, California 95965**  
**(530) 533-6038 (530) 342-7350**  
**Fax (530) 534-9916**

Visit us on the web at [www.buttemosquito.com](http://www.buttemosquito.com)

*Front Cover: Sutter Buttes and rice photographed near Richvale, CA  
This institution is an equal opportunity provider and employer*



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# MANAGER'S FOREWORD

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It is my honor to submit the 2023 Annual Report for the Butte County Mosquito and Vector Control District. The District had a very successful year serving the residents of Butte County and Hamilton City by utilizing an integrated vector management (IVM) approach that included public education and outreach, vector surveillance, reduction of breeding grounds by physical and cultural control by altering the environment and/or management practices, and by using sound biological and chemical control methods. This report outlines the work conducted by the District to accomplish its primary goal of protecting public health.

The prevention of vector-borne disease outbreaks remains the District's primary goal and its most important responsibility to the public. West Nile virus (WNV) has long been considered to be endemic in the state of California and remains the District's largest public health concern. The state observed another extremely active WNV season and for the past several years St. Louis encephalitis has again started to become active in parts of the state. The extraordinary efforts to combat the WNV epidemic and St. Louis encephalitis resurgence in California should be credited to the combined efforts of more than 60 mosquito and vector control districts and local health departments, working in close cooperation with the California Department of Public Health and numerous other agencies indirectly related to mosquito and vector control.

For the fourth year in a row, *Aedes aegypti*, a major public health concern and an invasive species, was collected and identified in Butte County. Detections of this mosquito were found in Chico, Oroville, Thermalito, Biggs, Gridley and Hamilton City. Through the challenges of 2023, the District was still able to perform the essential services the public we serve have come to rely on and responded to 2415 service requests.

The District continues to aggressively control unmaintained / abandoned swimming pools, catch basins, storm drains, and retention / detention ponds and works in partnership with other local agencies and governments to maintain improper functioning utilities that could and have bred mosquitoes.

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Regardless of drought conditions, the over-watering of landscaped yards and environments continues to add to the mosquito breeding problems in urban mosquito sources and extends the length of our mosquito season. In addition to urban mosquito breeding problems, the District continues surveillance and control in agricultural, rural, and wetland areas that breed mosquitoes. Due to two newly established invasive mosquito species in the state of California and now within Butte County, the District has greatly expanded surveillance efforts to detect either of these two species of mosquitoes. The District continues to conduct surveillance of ticks of medical importance and control of yellowjackets.

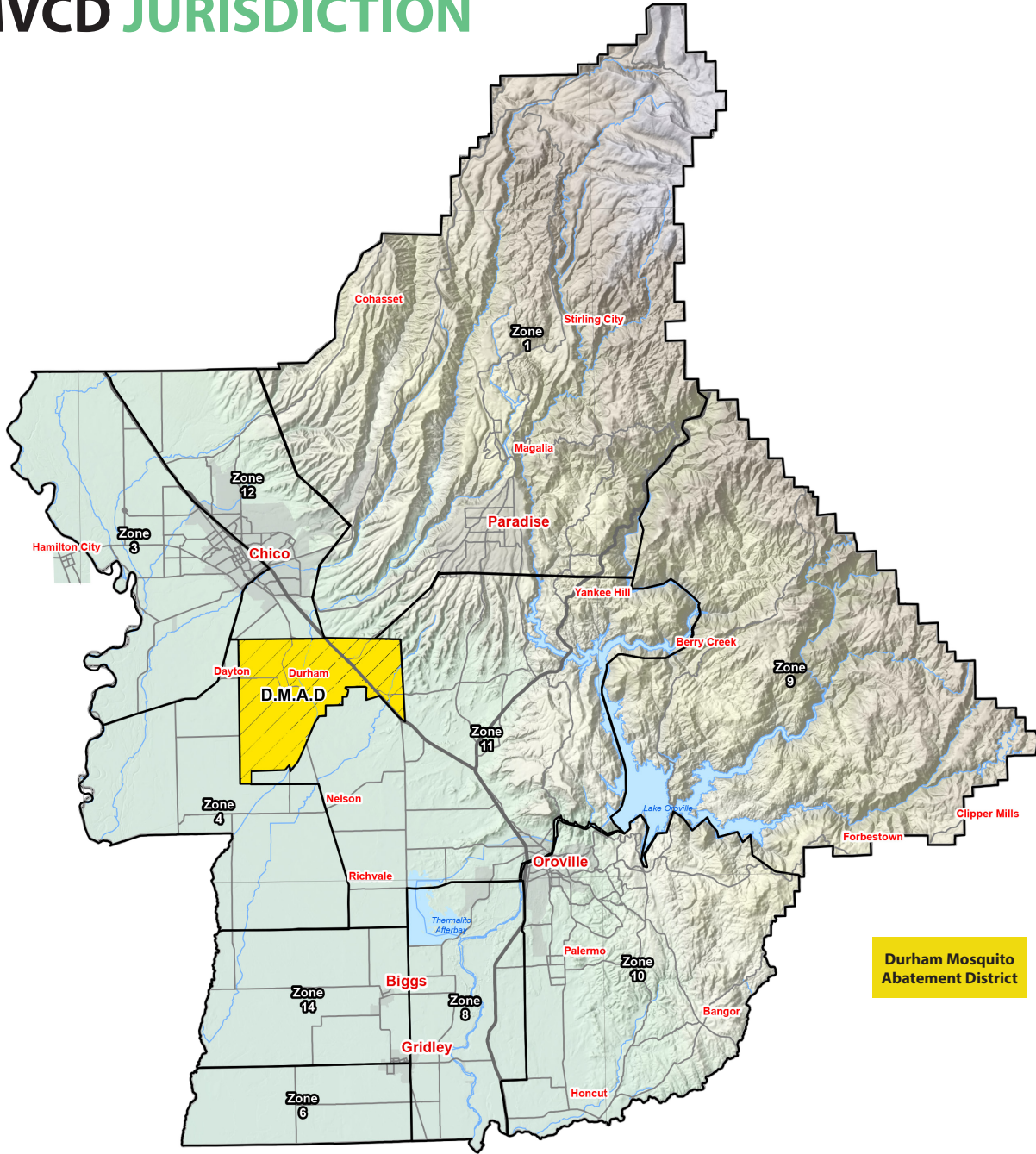
“The Mission of the Butte County Mosquito and Vector Control District is primarily to suppress mosquito-transmitted disease and to also reduce the annoyance levels of mosquitoes and diseases associated with ticks, fleas, and other vectors through environmentally compatible control practices and public education.” To achieve this goal the District provides continual surveillance of mosquitoes and other vectors to ascertain the threat of disease transmission and annoyance levels and then uses integrated vector management methods to keep mosquitoes and other vectors below those levels. The District continues to work in cooperation with property owners, residents, social groups, and other governmental agencies to minimize mosquito breeding and to reduce the threat of mosquito-transmitted diseases.

The Board of Trustees and employees continue to plan and search for better ways to improve our programs to be prepared for future disease outbreaks that would be a threat to the health of Butte County and Hamilton City residents. We look forward to providing our services to you in the future and if you have any questions or need more information, please visit our website at [ButteMosquito.com](http://ButteMosquito.com) or call us at 530-533-6038 or 530-342-7350.

Respectfully,

**MATTHEW C. BALL**  
*District Manager*

# BCMVCDC JURISDICTION



Durham Mosquito Abatement District

## DISTRICT HISTORY

**District Formed**  
Butte County Mosquito Abatement District formed to manage Malaria epidemic



1948

**Relocation**  
Relocated from Biggs to current location in Oroville



1950s

**Annex Hamilton City**  
Annexation of Hamilton City in Glenn County, into the District's Service Area



1986

**WEE and SLE**  
Western Equine and St Louis Encephalitis viruses



1990s

**District's Name**  
District's name changed to Butte County Mosquito and Vector Control District



1993

# Mission

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



## Main Office Location



5117 Larkin Road  
Oroville, CA. 95965

## Substation Location



444 Otterson Drive  
Chico, CA. 95928

### West Nile Virus

West Nile Virus Arrives in Butte County



2004

### New Chico Substation

New Substation location opened in south Chico



2011

### New Benefit Assessment

Special Benefit Assessment to improve all services provided by the District



2014

### Annex DMAD Areas

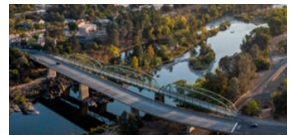
Annexation of Durham Mosquito Abatement's 23 mi<sup>2</sup> of Rice and Wetlands



2018

### Annex OMAD

Annexation of Oroville Mosquito Abatement District's 12 mi<sup>2</sup> service



2021

# BUTTE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT PERSONNEL

## Albert J. Beck, PhD 50 Years of Service

Born in Nyack, New York, but raised in California, Albert Beck learned a love of wildlife and fostered an interest in vector-borne disease from a young age. Growing up in San Mateo County, he pursued his interest in animals with an internship at the San Francisco Zoo while still a teenager. Thanks to the zoo's location, he also spent countless hours at the nearby Academy of Sciences. Soon he headed to the University of California, Davis for his undergraduate studies in zoology. His first job at UC Davis was in Veterinary Public Health, working in part with bats. During this time, he became increasingly interested in the epidemiology of infectious diseases in animal vectors.



His course of study changed briefly while he completed a two-year tour of duty in the U.S. Army before returning to UC Davis to receive his Master's Degree and PhD in zoology. With degrees in hand, he set off for Malaysia where he spent two and a half years working with outbreaks of malaria, cholera, arboviruses and other tropical maladies while serving as the Acting Medical Zoologist at the Institute for Medical Research in Malaysia.

When he returned to California in 1969, Beck settled in Chico to work for William Reeves' research based at UC Berkeley. Four years later, he branched out on his own, establishing the environmental consulting business Eco-Analysts for which he remains the owner and principal partner today. In 1973, he joined the Butte County Mosquito and Vector Control District's Board of Trustees and became President of the Board in 1995.

Dr. Beck has been a vital advocate for the Board of Trustees, the District, the MVCAC, and the mosquito control industry. Along with his years of experience and vast knowledge of medical entomology, mosquito control, vector-borne disease, and local agency governance, Dr. Beck is a vital component to the District, the constituents, and to the duty of Vector Control. His services will be hard to replace, and the District wishes him a wonderful retirement.



## BOARD OF TRUSTEES



Name	Title	Represents	Appointed	Expires	Years Served
Dr. Albert Beck*	Trustee	County District 1	12/04/1973	12/31/2023	50
Carl Starkey	Trustee	County District 2	01/08/2013	12/31/2024	11
Philip LaRocca	Trustee	County District 3	02/12/2019	12/31/2026	5
Darlene Fredericks*	Trustee	County District 4	01/01/2022	12/31/2025	2
Michael Barth	Trustee	County District 5	01/01/2020	12/31/2023	4
James Bo Sheppard	President	City of Biggs	12/13/2010	12/31/2026	12
Dr. Larry Kirk	Vice President	City of Chico	02/01/2012	12/31/2025	13
Bruce Johnson	Asst Secretary	City of Gridley	01/01/2016	12/31/2023	8
Melissa Schuster	Secretary	Town of Paradise	12/13/2016	12/31/2026	8
Chuck Reynolds*	Trustee	City of Oroville	02/15/2022	12/31/2023	2
Vacant*	Trustee	Hamilton City	TBD	TBD	TBD

\*Not seen in picture

## BCMVCD STAFF



### ADMINISTRATION

Matt Ball *District Manager* Aaron Lumsden *Assistant Manager* Del Boyd *Pilot II*  
 Maritza Sandoval *Administrative Manager* Sara MacKenzie *Office Assistant* Amanda Bradford *Entomologist II*  
 Ryan Rothenwander *Vector Ecologist/Fish Biologist* Shane Cassity *Regional Supervisor II* Charlie Favilla *Regional Supervisor*

### MOSQUITO & VECTOR CONTROL SPECIALISTS

Shane Robertson (MVCS III), Eric Dillard (MVCS III), Kenny Armstrong, Kellen Larson  
 Glen Williams, Jeremy Edwards, Aaron Goff, Frank Lopez, Mike Mattia

### MOSQUITO & VECTOR CONTROL ASSISTANT SEASONALS\*

Stephanie Burnham, Colton Chenoweth, Erin Carmichael, Daniel Flesher, Sean Kidd, Michael Langley  
 Daniel Mayer, Ashley Mullins, Jason St. Clair, Corey Slotte, Jim Valk, Elliott Sanders

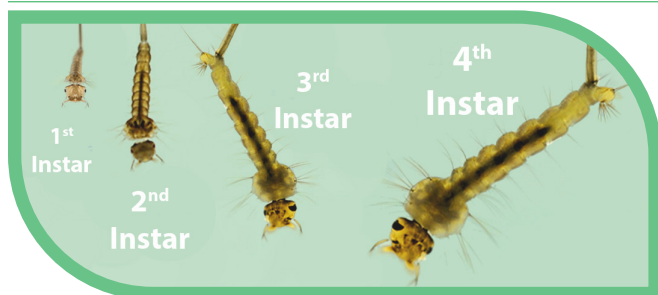
\*Not seen in picture

## MOSQUITO BIOLOGY

There are more than 3,500 species of mosquitoes around the world and in California we have about 50 species. Only a few species 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. This water can range in quality, 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. All mosquitoes must have water to complete their lifecycle.

### 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.

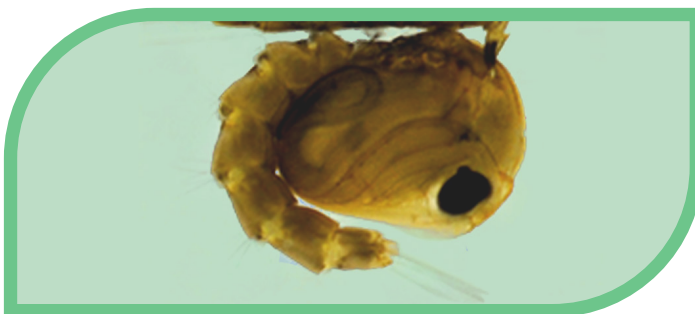


### Larva

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 4<sup>th</sup> instar larva molts it becomes a pupa.

### Pupa

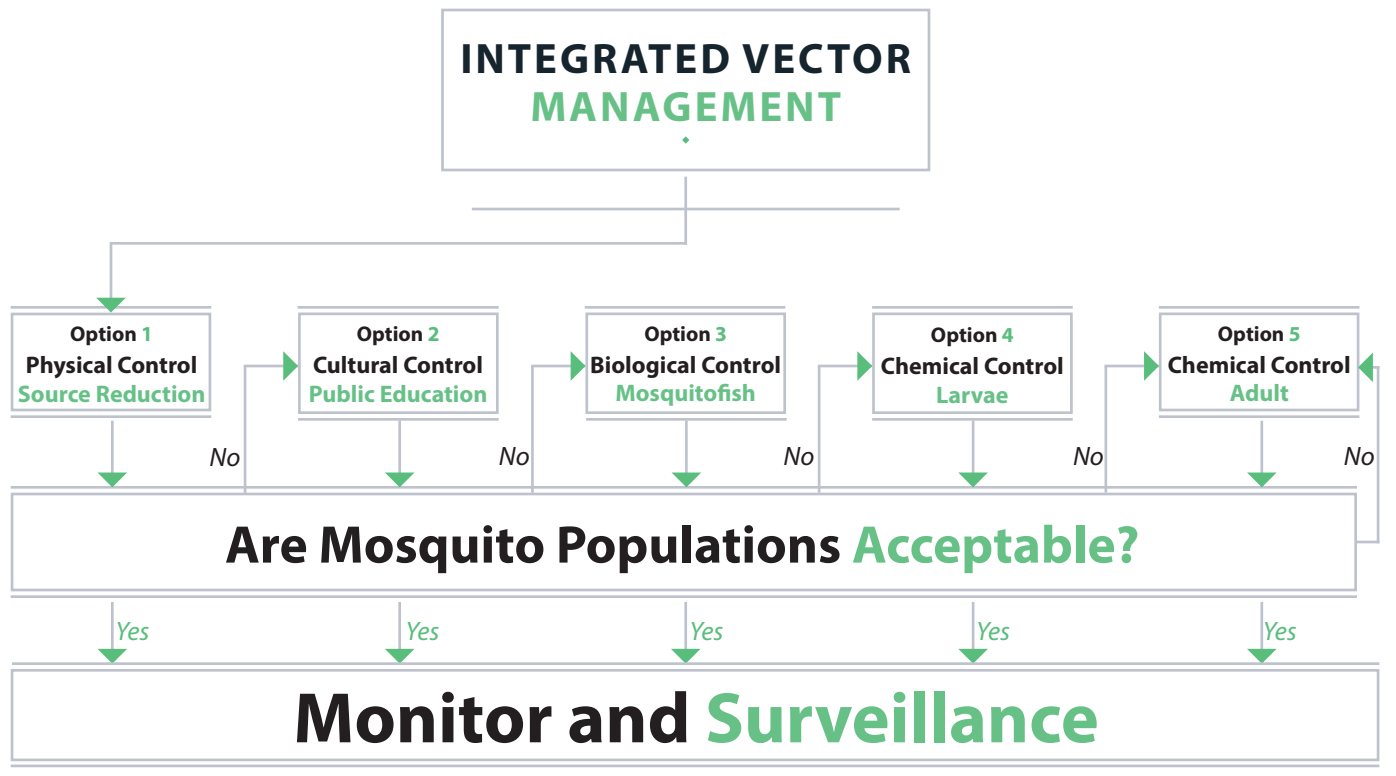
Mosquito pupae also float at the water surface and breathe air. When disturbed, they dive in a tumbling motion and then float back to the surface. The pupal stage is a non-feeding stage. This is the time the mosquito turns into an adult. It takes two days before the adult is fully developed.



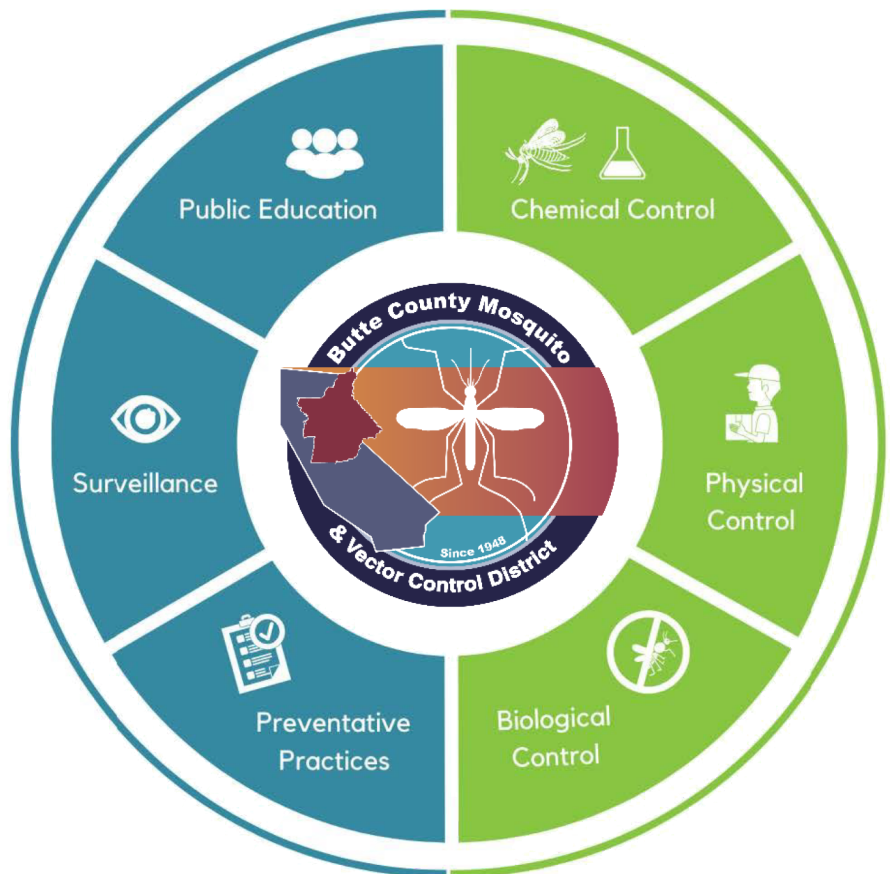
### Adult

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.





Integrated Pest Management (IPM) is an effective and environmentally sensitive approach to pest management that relies on a combination of common sense practices. The District's IPM program uses current and comprehensive information on the life cycles of pests and their interaction with the environment. This information, along with available pest control methods, is used to manage pest nuisance and public health threats by the most economical means and with the least possible hazard to people, property, and the environment. The District's IPM includes public education, physical control, biological control, chemical control, and continuous monitoring. Each time one of the District's state certified vector control technicians locates a mosquito breeding source, the flow chart above is followed.





Simply cleaning up around the yard, dumping containers and storing things properly can eliminate mosquito breeding sources.



Using materials such as sand or a water absorbing polymer, can fill in tree holes, excluding them from holding water and preventing mosquito breeding.



## PHYSICAL CONTROL SOURCE REDUCTION

The best method of mosquito control is source elimination (the complete removal of standing water). All mosquitoes need water to breed, unfortunately water is vital to keep lawns green, to grow crops, to sustain life, and to provide habitat for other aquatic insects and animals. District Mosquito and Vector Control Specialists actively work with property owners, land managers, and municipalities to reduce the amount of water needed for irrigation, to observe or consider best management practices, to actively participate in the design of new developments, and the overall reduction of standing water on a property.





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## **PUBLIC EDUCATION OUTREACH** **BEST MANAGEMENT PRACTICES**

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The District's mission is to protect residents from mosquitoes and other vectors that transmit disease. Public education and information are important parts to the success of combating diseases such as West Nile virus and Lyme disease. The District's education program consists of public appearances at local city and county fairs, participation in the state Mosquito and Vector Awareness week, and presentations at schools and local civic groups. In addition to the above, the District strives to find new and more effective ways of better educating the public by arming residents with knowledge to prevent mosquito bites and reduce or eliminate mosquito-breeding through informational pamphlets, website information, best management practice manuals, repellent suggestions, one on one interaction, and homeowner safeguards. In 2010, the District and the Board of Trustees adopted a final version of a 'Best Management Practices to Reduce Mosquitoes' (BMP) manual. The manual provides property owners with tools and techniques to minimize mosquito populations through the proper use of land management practices while reducing the use of pesticides. The BMP manual is assembled from a number of sources including scientific literature, state and inter-agency documents, and from experienced vector control professionals. The BMP manual includes general guidance to all properties that can, have, and will breed mosquitoes. A copy of the BMP manual can be viewed on the District's website at [buttemosquito.com](http://buttemosquito.com). The manual has successfully been used to reduce mosquito populations/public health threats without the need of additional pesticides.

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## PUBLIC EDUCATION HIGHLIGHTS

The District believes that through **public education**, residents of Butte County learn the importance of avoiding/preventing mosquito bites to avoid getting a mosquito-borne illness. The District suggests that residents prevent mosquito bites by staying inside at dusk and dawn when mosquitoes are most active, wearing repellent and long sleeves and pants when outside during peak mosquito activity, and making sure their door and window screens are in good working condition. Residents are also asked to check their property for mosquito breeding sources and drain any unnecessary standing water.

The District was able to continue its billboard campaign and partnered with Lamar Advertising. The 2023 slogan was **"Fight the Bite: Cover up. Repel. Eliminate."** Eight billboards rotated throughout the county and ran from May through September.

With the detection of *Aedes aegypti* mosquitoes in Chico, Oroville, Biggs, Gridley, Thermalito and Hamilton City in 2023, the District responded with invasive *Aedes* brochures, door hangers, and mailers. The mailers were sent out to all residences and businesses within a two to three mile radius of the *Aedes* detections. The District sent out **3,994 mailers** to Hamilton City and South Oroville. The mailers included a detailed description of the *Aedes* mosquito, where they can be found, and how to report any findings to the District.

The District also renewed its contract with **Action News Now** and ran a television public service announcement (PSA) and a broadcast announcement on **KIXE-PBS**. The PSA and broadcast announcement ran from May through the end of September.

Radio advertising continued this year with **Deer Creek Broadcasting** and **Results Radio**. These programs ran through the end of September.

Newsprint advertising with the **Enterprise-Record**, **Chico News and Review** and **Upgraded Living** magazine ran from May through September.

## District Public Relations Highlights 2023

- Billboard Advertising
- Chico News & Review
- Enterprise-Record
- Upgraded Living Magazine
- Television Public Service Announcements
  - Action News Now
  - KIXE-PBS
- Print, Radio, and Television Interviews
- Radio Advertising
  - Deer Creek Broadcasting
  - Results Radio
- Invasive *Aedes* Brochures, Mailers, and Door Hangers
- Home & Garden Show- Chico
- Gold Nugget Craft Faire- Paradise
- Red Suspenders Days- Gridley
- Salmon Festival- Oroville



**HT the BITE**  
**UP. REPEL. MINUTE.**  
 mosquito.com  
 LAMAR 0000




**PUBLIC HEALTH WARNING: REPORT DAY-BITING MOSQUITOES**  
 Please call the **BUTTE COUNTY MOSQUITO & VECTOR CONTROL DISTRICT**  
 to schedule an inspection at **(530) 533-6038**

**INVASIVE MOSQUITOES FOUND IN YOUR AREA**



***Aedes aegypti***  
 Yellow Fever mosquito

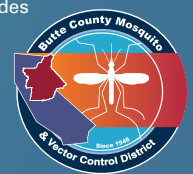
 Actual Size: About 1/4 inch long

**WHY THE CONCERN?**

*Aedes aegypti* is an invasive mosquito in California that is capable of transmitting several diseases including Zika, dengue, and chikungunya. While there have been no local transmissions detected to date, the identification and control of this invasive mosquito is important to protect public health.

**About *Aedes aegypti* mosquitoes**

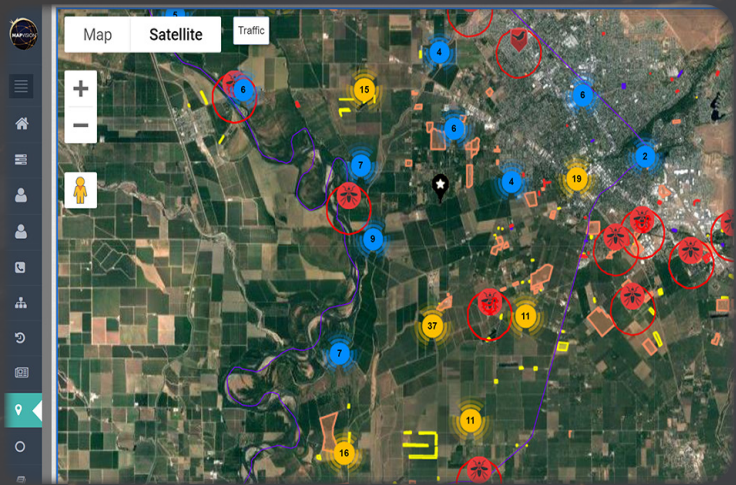
- Small dark mosquito that bites during the day.
- Prefers to dwell in urban areas indoors and outdoors.
- They especially like to bite ankles, wrists and elbows.
- They lay eggs in small sources of water around homes.
- They are very difficult to control.
- They complete their life cycle in 7-10 days. The adults live for about 3 weeks.
- Invasive *Aedes* are "container breeders": Individual eggs are glued to the sides of containers. Eggs are resistant to drying out and can survive for many months until water covers them.



# TECHNOLOGICAL APPLICATIONS

## MapVision®

The District continues to use the Geographical Information System (GIS) that first went live in 2018. The new system, MapVision®, is a geospatial web-based data management system. Every workflow associated with each department within a vector control agency is automated, streamlined and results in cross department enterprise data sharing and data integrity. Management, finance/billing, employee time tracking, inventory, operations, treatment applications, field technician activities, laboratory processes, maintenance, vehicles, equipment, and reporting are a few of the core features MapVision® Enterprise offers. Examples include: inter-agency/commercial invoicing, employee time card tracking/payroll, and real time synchronization with state reporting databases such as CalSurv Gateway. Three unique components available in MapVision® Enterprise are a 'Heightened Surveillance' feature designed to monitor for invasive species and newly emerging pathogens in mosquitoes, ticks, and wildlife. The team concentric 'Parcel Inspection' program is based off of the heightened surveillance feature and the 'Resistance Management' module. MapVision® Enterprise dynamically bridges all vector control departments in real time, resulting in the most efficient, effective, and resourceful geospatial data management solution available.



Butte County Mosquito and Vector Control District

buttemosquito.com



Contact Us

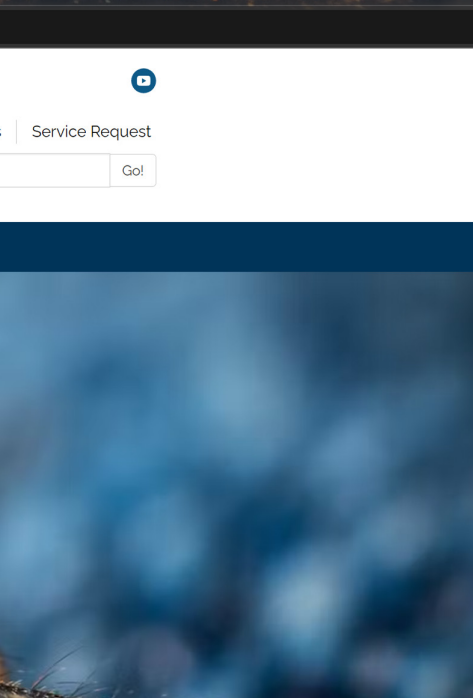
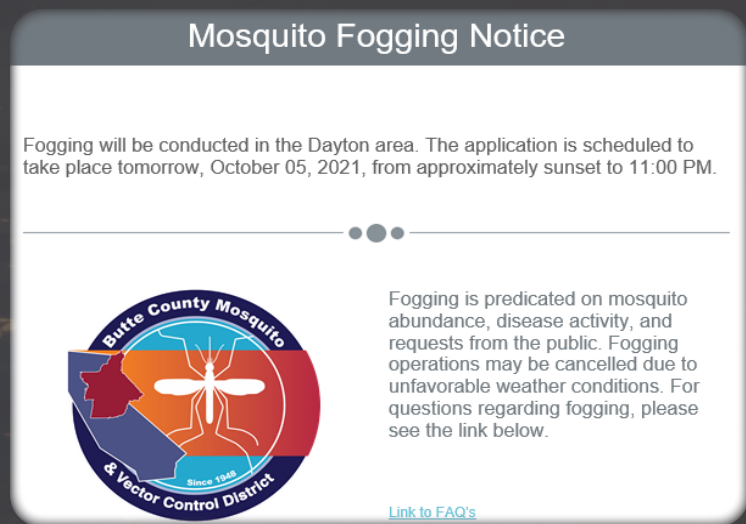
Search...

Home About Us Services Vector & Diseases Resources Fogging Notice Join our mailing list



## E-mail Notifications

Since 2011, the District has been using a mosquito fogging email notification system. The email notification system was created to meet public concerns and expectations, to enhance media coverage, and to help inform other agencies that need to know when and where the District is mosquito fogging. The Chico Enterprise Record uses these fogging notifications in their newspaper to inform their readers of the planned fogging operations. To meet these needs, the District used Constant Contact software modeled after the award-winning Contra Costa Mosquito and Vector Control District's email notification system, to compose and send out the fogging notifications via email. These email notifications are sent out, in most cases, 24 hours before a fogging operation takes place. The notifications include maps of the areas to be fogged, links to the labels and material safety data sheets of the public health pesticides used, the dates and times of the scheduled fogging operations, and a link to the District website. The public can sign up for email notifications on the District website, [www.buttemosquito.com](http://www.buttemosquito.com). The District website also has the links to the public health pesticides. The District also makes phone calls to notify residents and agencies that do not use email or have access to a computer.



## WWW.BUTTEMOSQUITO.COM

On the website, the user can make a service request, sign up for email notification of upcoming fogging operations, view vector-borne disease activity in the District, and view maps of where the District will be fogging and where the District has fogged in the past. The user can also view Board of Trustee agendas and minutes, read the latest news that affects the District and their constituents, and view information on viruses and other diseases that are transmitted by mosquitoes and other vectors such as ticks. Visitors to the website may also be interested in the mosquitofish page and the services page which lists the locations in Butte County and Hamilton City where residents can pick up free mosquitofish. The services page also includes yellowjacket and wasp nest removal, tick and insect identification, and a public education section where interested parties can find out how to request the District come to their school or service group for a presentation. The website also has links to the pesticide labels and SDS sheets for the public health pesticides that it uses as well as a frequently asked questions page and a "Contact Us" page.

## VECTOR AND VECTORBORNE DISEASE SURVEILLANCE

The definition of a vector is any animal capable of producing discomfort or injury, including, but not limited to, mosquitoes, flies, other insects, ticks, mites, and rats but not including domestic animals according to the California State Health and Safety Code, Section 2002(K). Surveillance of vectors is a vital component of the District's Integrated Vector Management Program, and a considerable amount of time and effort is devoted to conducting vector surveillance. The District's surveillance program consists of a scientific approach in locating vector populations by focusing on mosquito-breeding sources, monitoring mosquito populations, and mosquito-borne disease. Data collected from the surveillance program is analyzed to determine maximum and minimum risk periods of public exposure to mosquito-borne disease, evaluates control efforts, and seasonal changes in relative abundance of mosquito species. Surveillance data is gathered in the District's database which provides historical information on mosquito dynamics and mosquito-borne disease within the District.



The District has an entomology department (Lab) that is staffed with an Entomologist, Vector Ecologist, and a Lab Assistant. The District's entomology department is responsible for the identification of the trapped mosquito collections and reporting the population numbers to the California Department of Public Health. The Lab conducts virus testing on live mosquitoes, dead birds, and sentinel chicken flocks. These tests are the District's eyes to monitor and detect mosquito-borne viruses in and around the county. The Lab also conducts scientific pesticide trials to monitor the chemicals effectiveness on targeted mosquitoes and to assess the possible effects on non-targets and trials on new chemical methodology and/or new chemicals. The Lab is also at your service to identify ticks, arachnids, and other insects/arthropods of public health significance.

*The District utilizes an extensive surveillance program for both adult and larval mosquitoes. Throughout Butte County and the Hamilton City area of Glenn County, the District uses 28 New Jersey light traps, 31 gravid traps, 48 CO2 traps, and 7 sentinel chicken flocks to monitor adult mosquito populations and virus activity. District Mosquito and Vector Control Specialists (MVCS) monitor larval mosquito populations utilizing a standard one-pint dipper. District MVCS spend the majority of their day inspecting standing water such as rice, wetlands, storm drains, ponds, ditches, swimming pools, bird baths, fountains, seasonal and/or other man-made containers for larvae.*

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## VIRUS SURVEILLANCE ·

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### 2023 VIRUS SURVEILLANCE REPORT

The District monitors for Western equine encephalitis (WEEV), St. Louis encephalitis (SLEV), and West Nile virus (WNV) activity by collecting blood samples from sentinel chicken flocks, collecting live mosquitoes, and collecting dead wild birds Districtwide.

### SENTINEL CHICKEN FLOCKS

Annually, the District maintains 7 sentinel chicken flocks of 6 birds each. Chickens are replaced if they are found dead. The flocks are located in Palermo, Honcut, Gridley, Biggs, South Chico, West Chico, and Hamilton City. Bi-weekly blood samples are taken from the sentinel chickens by the entomology staff and sent to CDPH for testing. The blood sample is tested for SLEV, WEEV, and WNV. **In 2023, 33 of the 44 sentinel chickens from all 7 District flocks tested positive for WNV.** Seropositive chickens are always delayed at least two weeks from positive mosquito pools in the same location. Therefore, in the upcoming year, future research efforts will be needed to investigate the costs and surveillance efficiency of this program.

### DEAD BIRD SURVEILLANCE

The District has participated in the California Department of Public Health's (CDPH) WNV dead bird testing program. County residents participate in the program by calling CDPH's dead bird hotline (1-877-WNV-BIRD) or by submitting an online form at [www.westnile.ca.gov](http://www.westnile.ca.gov) or [www.ButteMosquito.com](http://www.ButteMosquito.com). After a dead bird has been reported, CDPH notifies the District and District staff retrieves the bird and submits it for WNV testing. **In 2023, the District identified 2 WNV positive dead birds.**



*Sentinel Chickens*



*Chicken Coop  
Palermo, CA*

### MOSQUITO POOLS

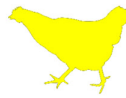
Each week the District's entomology staff strategically places traps known as encephalitis virus surveillance (EVS) traps around the District. The entomology staff will identify and sort the trapped mosquitoes and pool the collections for virus testing. A pool consists of 1 to 50 adult female mosquitoes of the same species. Pooled mosquitoes are transferred to numbered vials and sent to the Center for Vector-Borne Disease Research (CVBDR) at the University of California, Davis and are tested for WEEV, SLEV, and WNV. **In 2023, the District sent 505 mosquito pool samples with 70 returning positive for WNV.**



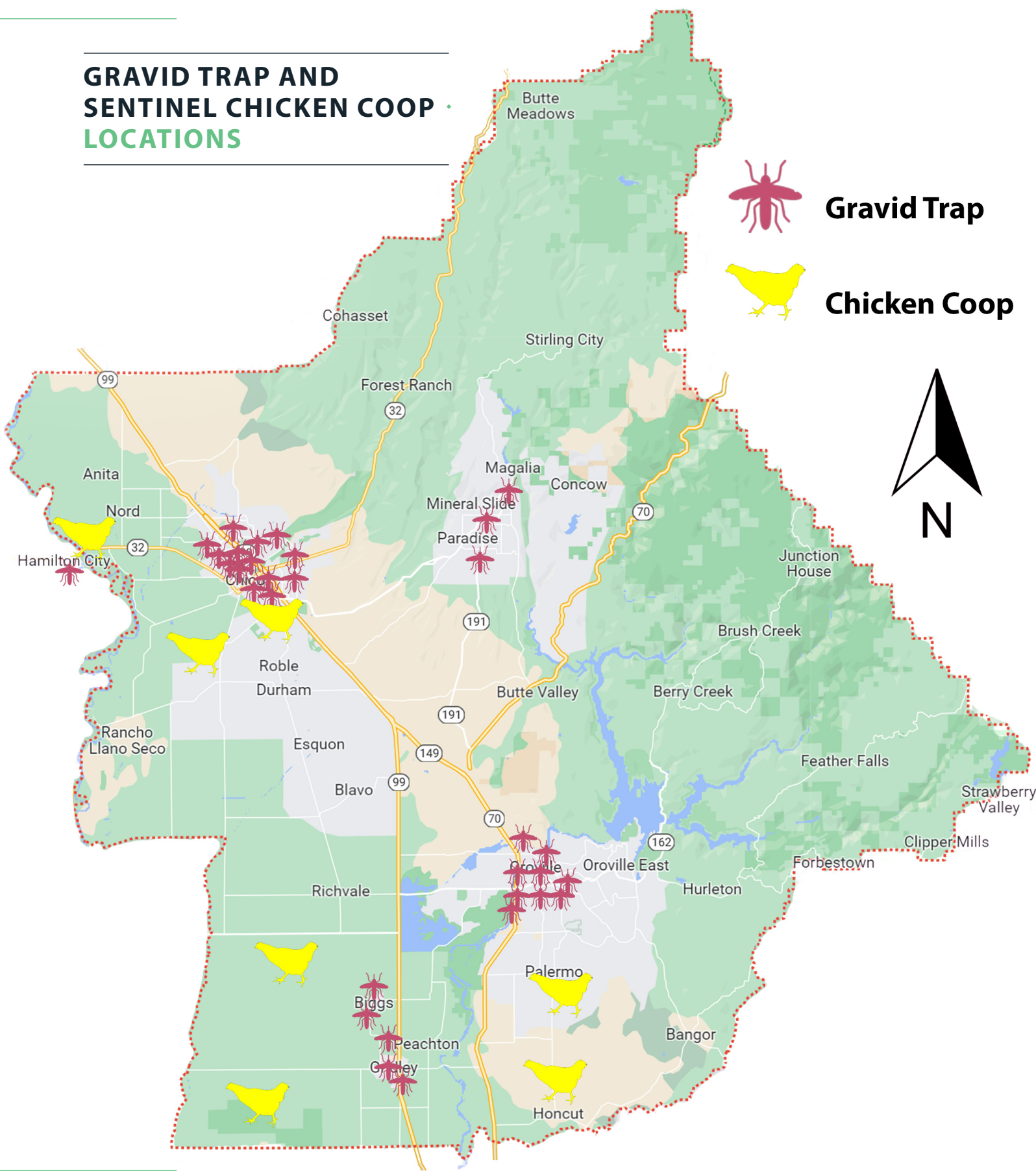
# GRAVID TRAP AND SENTINEL CHICKEN COOP LOCATIONS



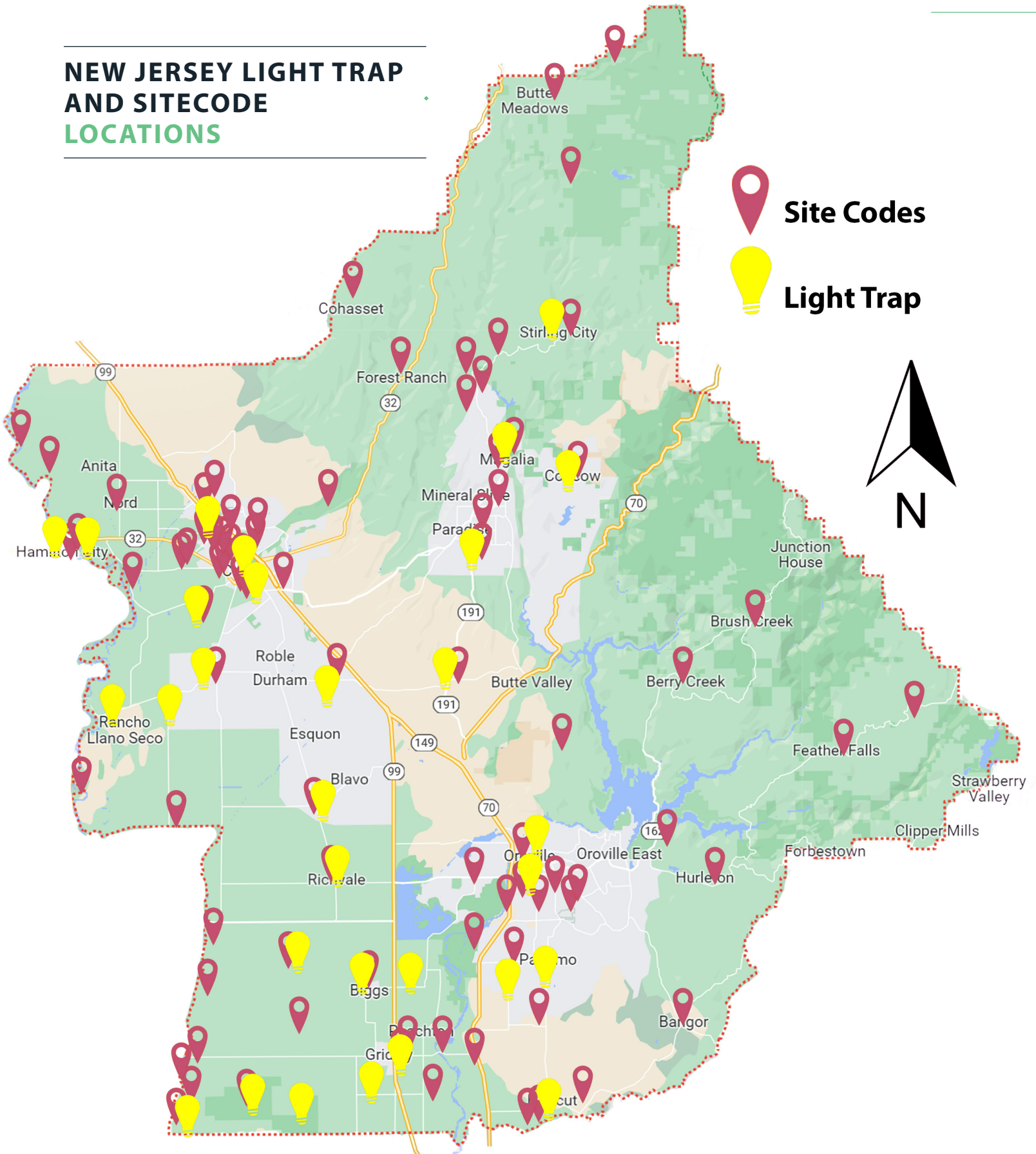
**Gravid Trap**



**Chicken Coop**



# NEW JERSEY LIGHT TRAP AND SITECODE LOCATIONS



## 2023 NEW JERSEY LIGHT TRAP COLLECTIONS

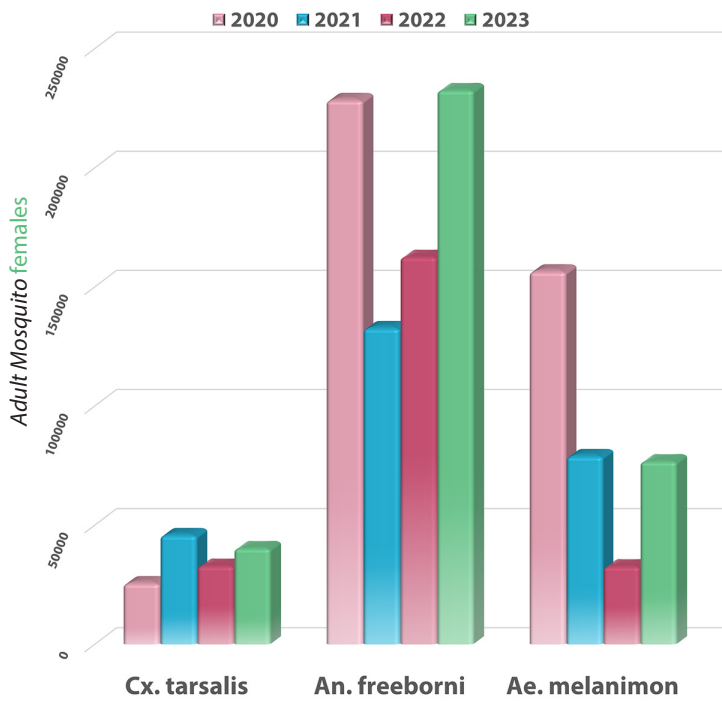
Mosquito Species	Number Collected	% of Total
<i>Anopheles freeborni</i>	232806	64.96%
<i>Aedes melanimon</i>	77015	21.49%
<i>Culex tarsalis</i>	40575	11.32%
<i>Aedes nigromaculis</i>	2937	0.82%
<i>Culiseta inornata</i>	2644	0.74%
<i>Culex pipiens</i>	1573	0.44%
Other species	545	0.15%
<i>Culiseta incidens</i>	280	0.08%



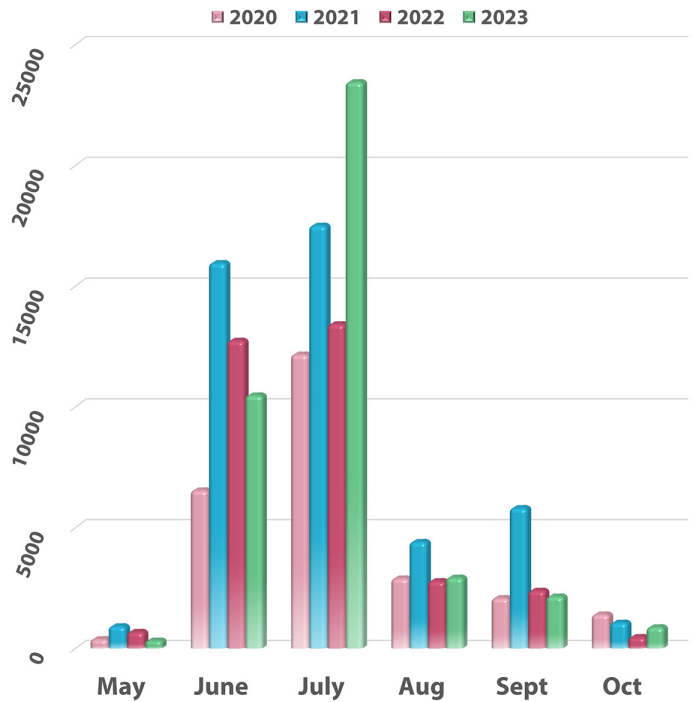
Jeremy Edwards  
Hanging Light Trap

# NEW JERSEY LIGHT TRAP FLUCTUATIONS OF DISEASE VECTORS

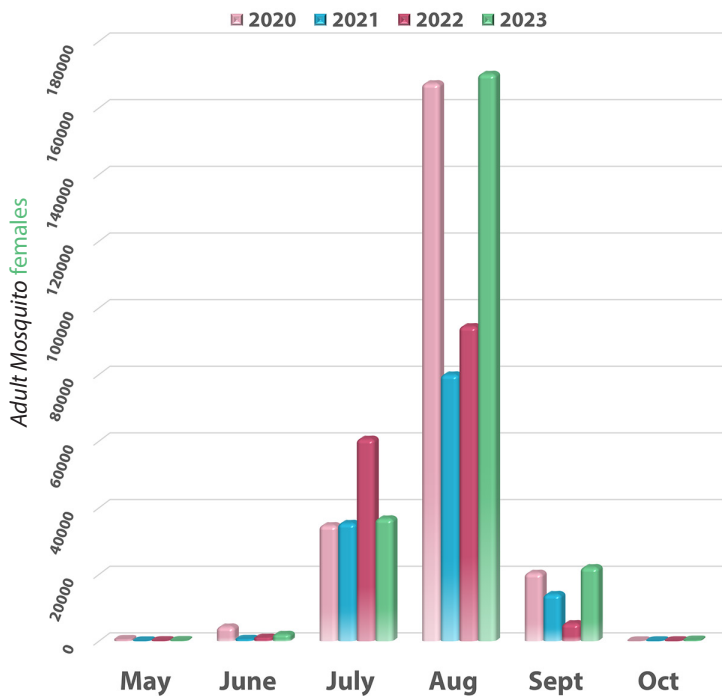
## Annual Total Female Mosquitoes



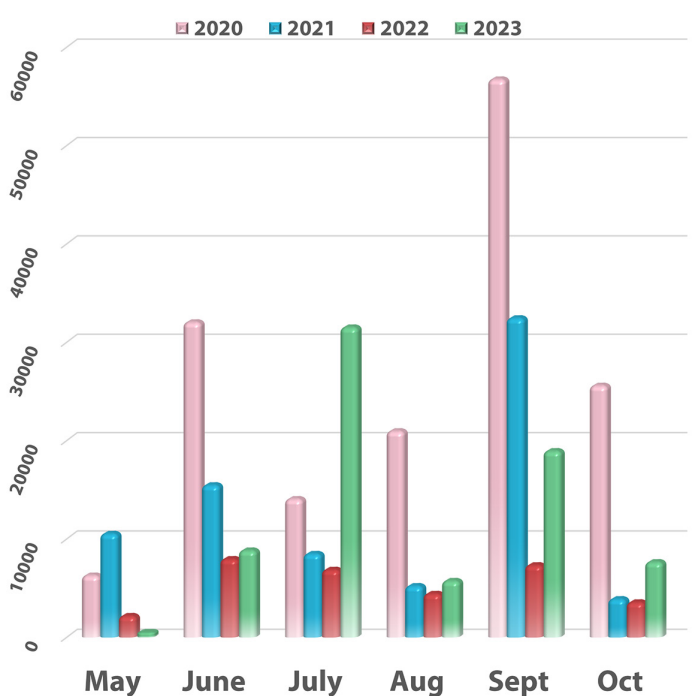
## *Culex tarsalis*



## *Anopheles freeborni*

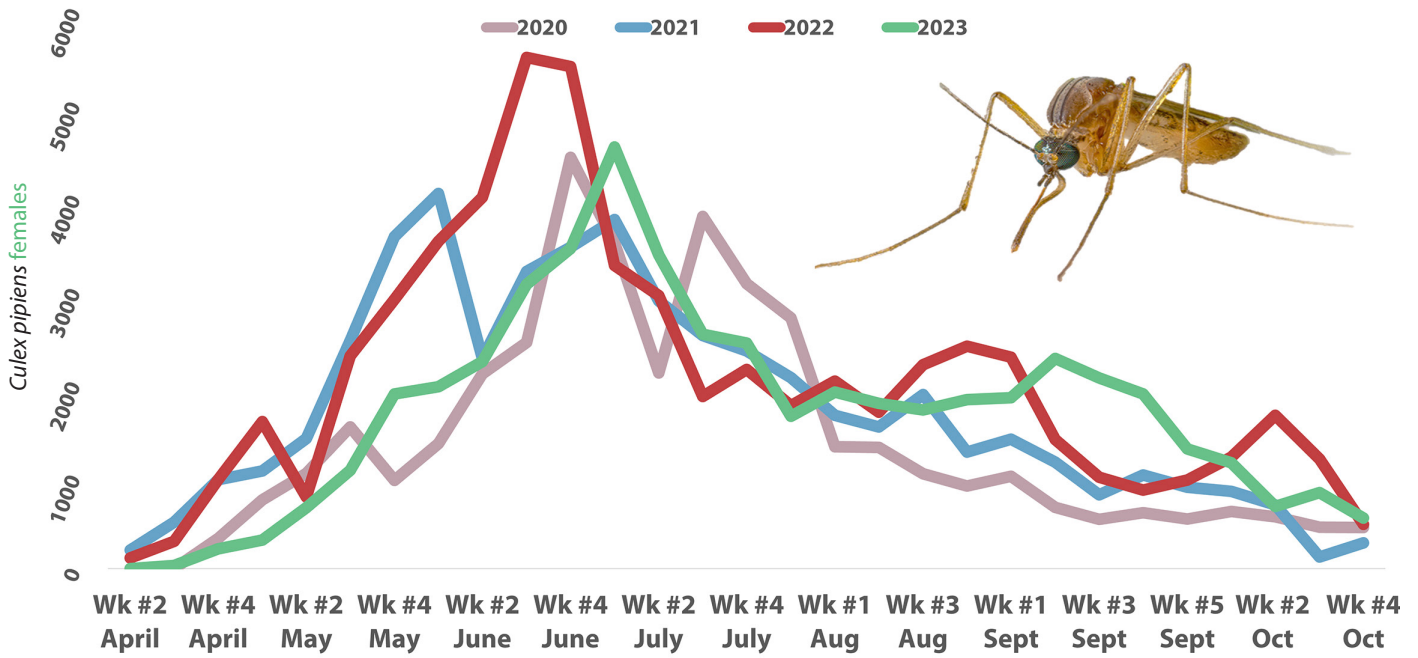


## *Aedes melanimon*

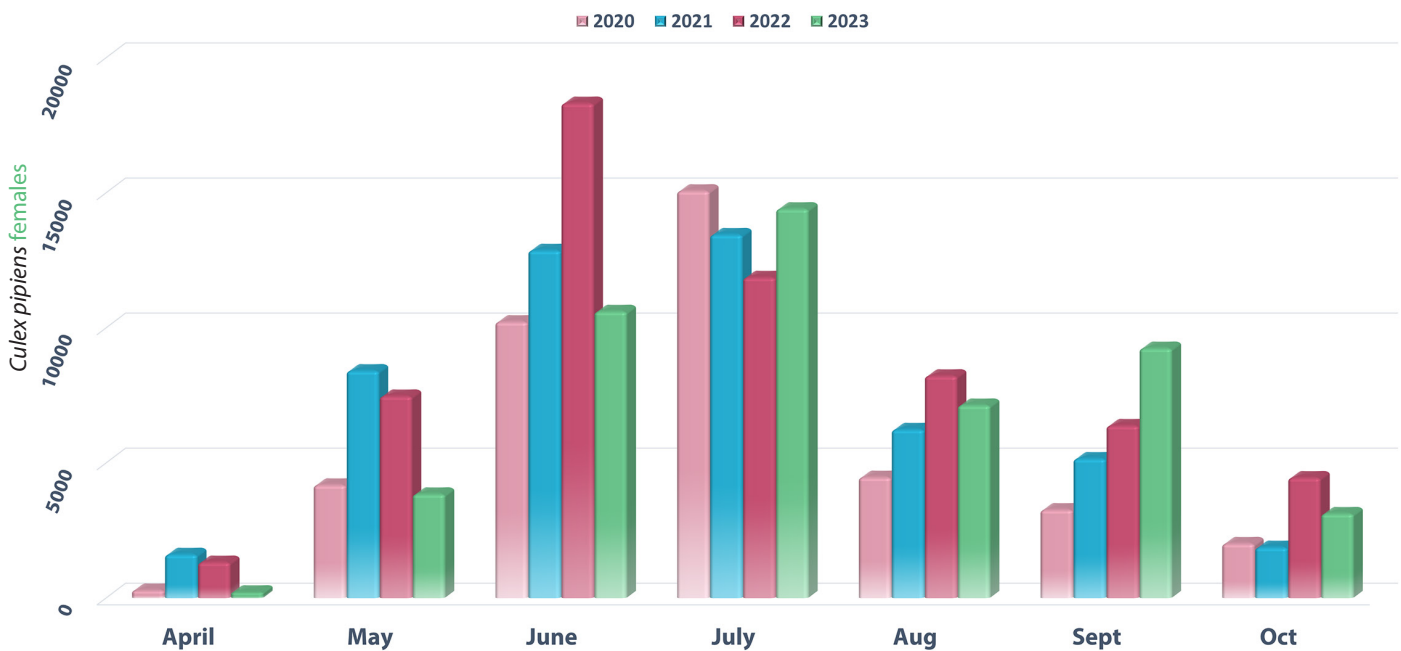


# 2023 GRAVID TRAP FLUCTUATIONS

## Gravid Trap Fluctuation by Week



## Gravid Trap Fluctuation by Month



## 2023 WEST NILE VIRUS ACTIVITY

### West Nile Virus Symptoms

#### SERIOUS SYMPTOMS IN A FEW PEOPLE

About one in 150 people infected with West Nile virus (WNV) will develop severe illness. The severe symptoms can include high fever, neck stiffness, stupor, disorientation, coma, tremors, convulsions, muscle weakness, vision loss, numbness, and paralysis. These symptoms may last several weeks, and neurological effects may be permanent. WNV infection can be fatal.

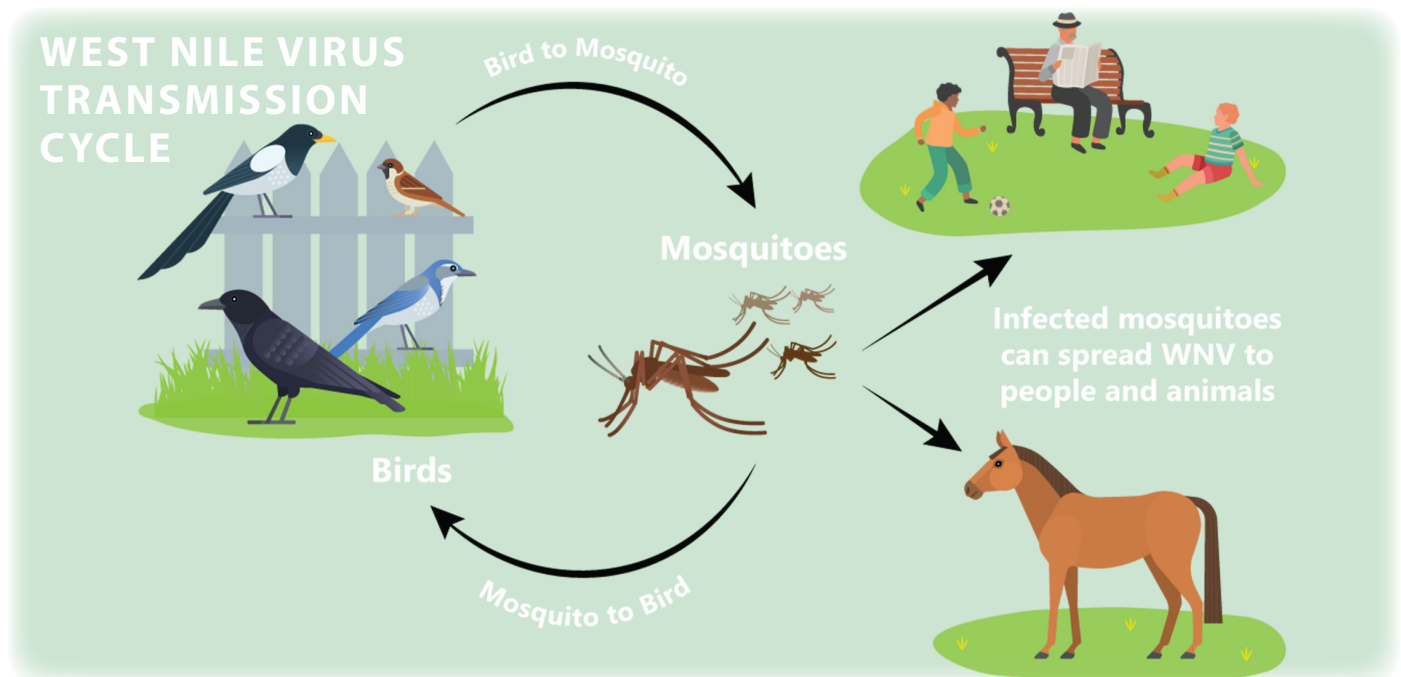
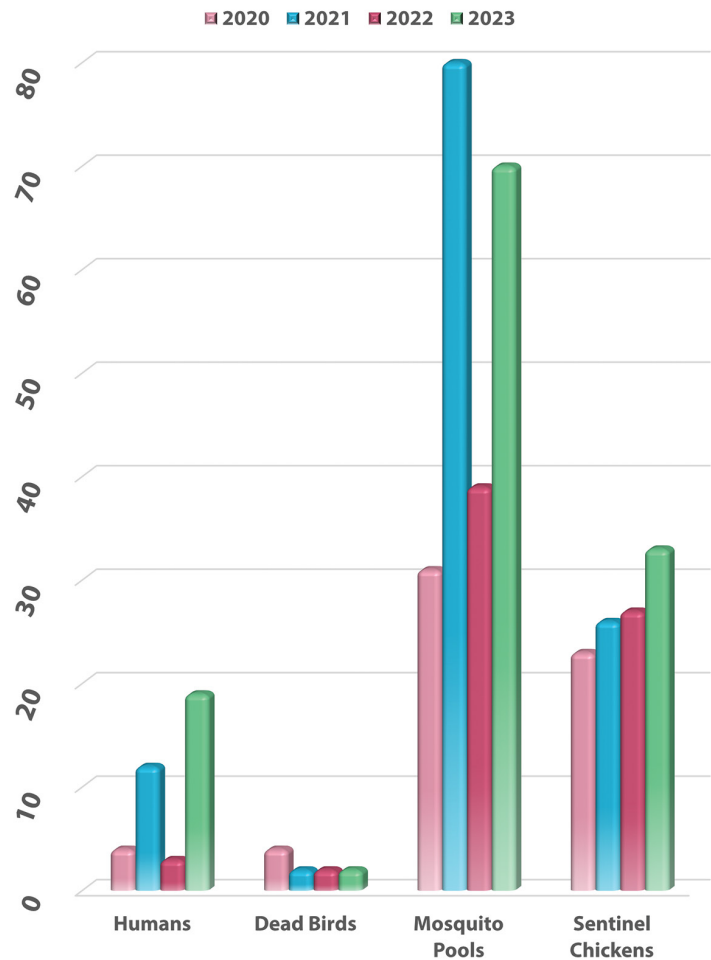
#### MILDER SYMPTOMS IN SOME PEOPLE

Up to 20 percent of the people who become infected will display symptoms including fever, headache and/or body aches, nausea, vomiting, and sometimes swollen lymph glands or a rash on the chest, stomach, and back. Symptoms can last as little as a few days to several weeks.

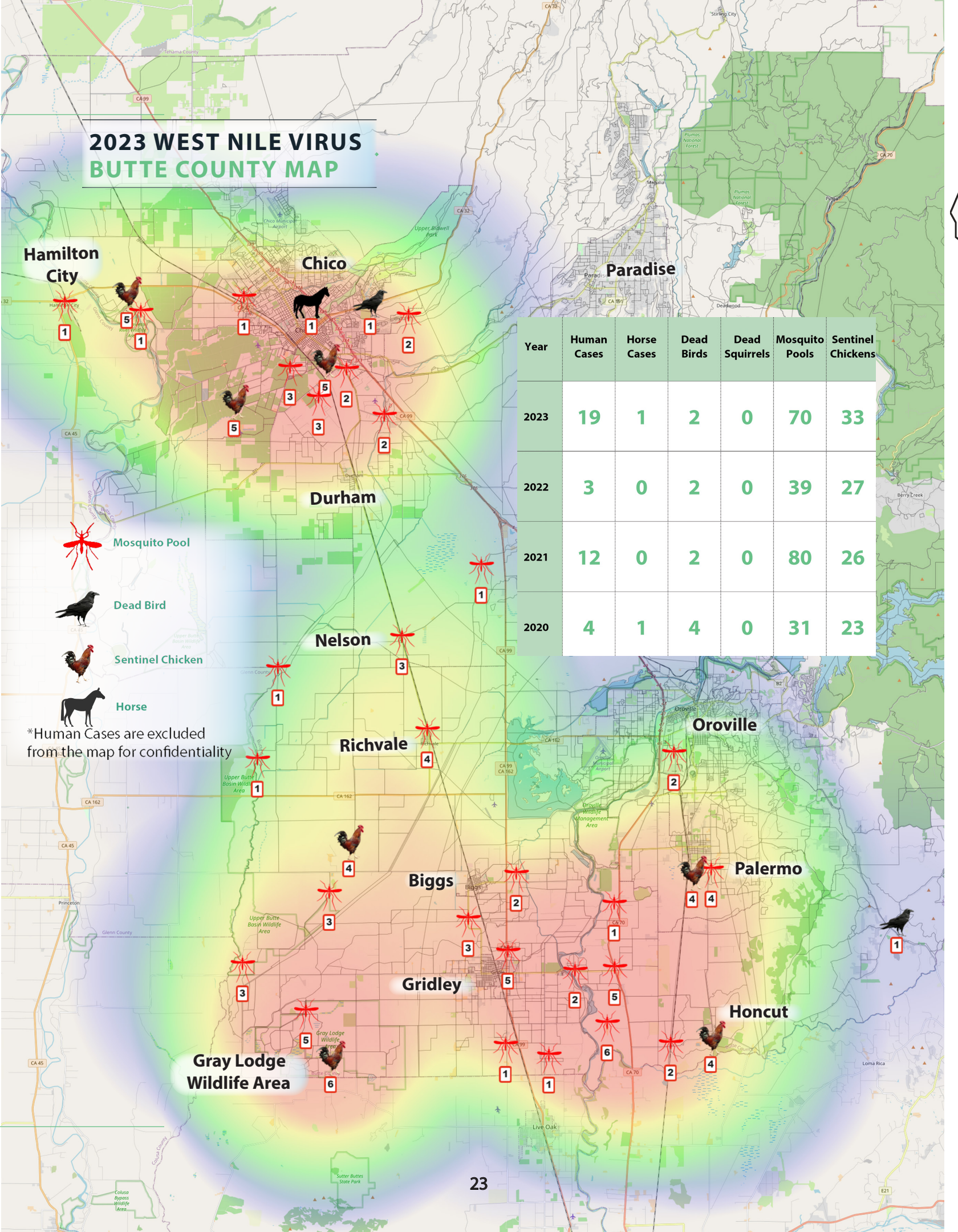
#### NO SYMPTOMS IN MOST PEOPLE

Approximately 80 percent of people (about 4 out of 5) who are infected with WNV will not have any symptoms at all.

### West Nile Virus Positives



# 2023 WEST NILE VIRUS BUTTE COUNTY MAP



**Hamilton City**

**Chico**

**Paradise**

**Durham**

**Nelson**

**Richvale**

**Oroville**

**Palermo**

**Biggs**

**Gridley**

**Honcut**

**Gray Lodge Wildlife Area**

\*Human Cases are excluded from the map for confidentiality

Year	Human Cases	Horse Cases	Dead Birds	Dead Squirrels	Mosquito Pools	Sentinel Chickens
2023	19	1	2	0	70	33
2022	3	0	2	0	39	27
2021	12	0	2	0	80	26
2020	4	1	4	0	31	23



Mosquito Pool



Dead Bird



Sentinel Chicken



Horse

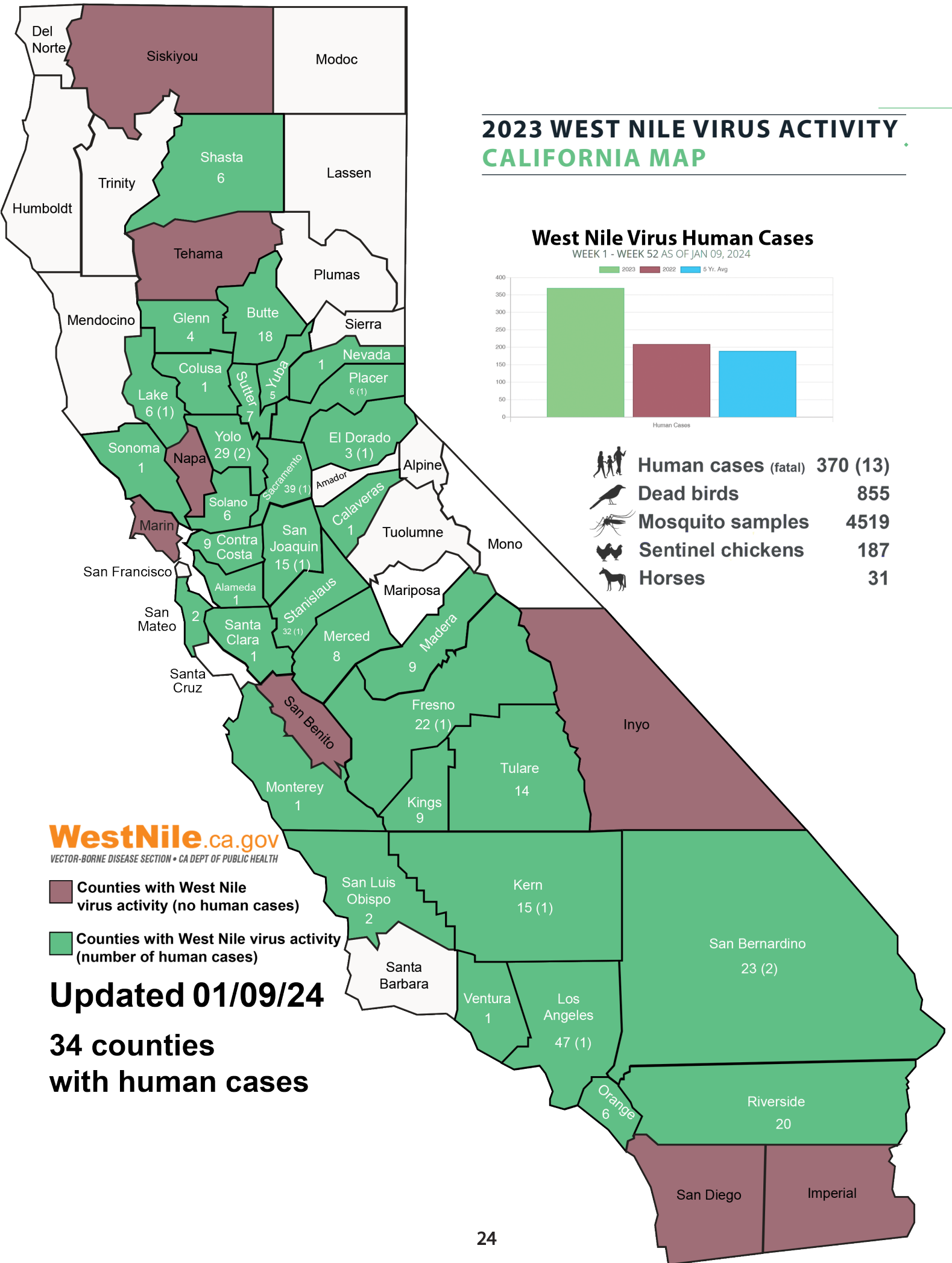
# 2023 WEST NILE VIRUS ACTIVITY CALIFORNIA MAP

## West Nile Virus Human Cases

WEEK 1 - WEEK 52 AS OF JAN 09, 2024



	<b>Human cases (fatal)</b>	<b>370 (13)</b>
	<b>Dead birds</b>	<b>855</b>
	<b>Mosquito samples</b>	<b>4519</b>
	<b>Sentinel chickens</b>	<b>187</b>
	<b>Horses</b>	<b>31</b>



**WestNile.ca.gov**

VECTOR-BORNE DISEASE SECTION • CA DEPT OF PUBLIC HEALTH

**Counties with West Nile virus activity (no human cases)**

**Counties with West Nile virus activity (number of human cases)**

**Updated 01/09/24**

**34 counties with human cases**



## TICK SURVEILLANCE

Tick surveillance in Butte County is done primarily because of the diseases that ticks can transmit. The two diseases that infect humans most often are Lyme disease and Tick-borne relapsing fever (TBRF).

Lyme disease is an infectious disease caused by a bacterium, *Borrelia burgdorferi*. TBRF is an infectious disease caused by a bacterium, *Borrelia miyamotoi*. Transmission of Lyme disease and TBRF bacteria is primarily from the Western Black-Legged Tick, *Ixodes pacificus*. Both of these disease causative agents and the tick vector can be readily found in Butte County.

District tick surveillance consists of “flagging”, where a 3' x 2' piece of thick, fibrous cloth, is dragged along the edge of a trail or dirt road. The ticks attach themselves to the cloth while they are “questing” for a blood meal. Like a mosquito, the female tick needs a blood meal to lay her eggs. Once the ticks are attached to the cloth they are identified, counted, recorded, and then sent off for testing.

In 2023, 74 tick pools were sent off for testing. Results include 9 pools positive for Lyme disease and 2 pools positive for TBRF. This information can lead to risk assessment warnings to residents in areas that have high tick activity.



Western Black Legged Tick



A rectangular warning sign with a red border and a white background. At the top, the words "WARNING" and "TICK HABITAT" are written in large, bold, yellow and red letters. Below the text is a small image of a tick on a green leaf. Underneath the image, there is a paragraph of text: "Ticks found in this area MAY cause Lyme disease. Follow these tips to prevent tick bites." Below this text is a list of five bullet points: "Walk on the center of trails, avoid brush along trail edges", "Use EPA-registered insect repellent", "Check your body and clothing for ticks after being outdoors", "Carefully remove attached ticks with tweezers", and "Visit www.ButteMosquito.com for more information on prevention strategies and Lyme disease." To the right of the list is a QR code with a "SCAN ME" button below it. The sign is mounted on a wooden post.

Amanda Bradford  
Tick Flagging

## YELLOWJACKET SURVEILLANCE

Yellowjackets are medium sized black and yellow wasps (sometimes black and creme) that are often confused with honey bees, paper wasps, mud daubers, and other wasps. Yellowjackets are social insects that are considered beneficial. They can feed on garden pests and pollinate crops through daily foraging. Yellowjackets can become a public health concern because of their territorial behavior and their affinity for human food and drinks. Yellowjackets can restrict or prevent outdoor activities in areas such as campgrounds, picnic spots, and backyards.

The District will respond to reports of high yellowjacket activity. Mosquito and Vector Control Specialists will then inspect the area and decide if control is appropriate. Control measures may include placing traps or bait, treating nests with an approved insecticide, or physically removing the nest. All pesticide applications are made by state-certified technicians using materials that are registered for use by the Environmental Protection Agency.

### Yellowjacket Service Requests

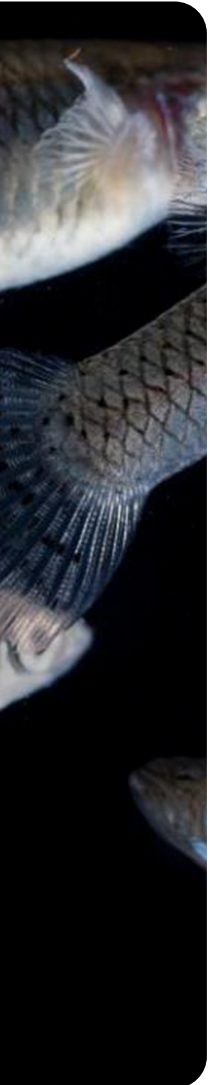
Magalia	13
Oroville	13
Chico	12
Paradise	9
Cohasset	6
Biggs	1
Forest Ranch	1
<b>Total</b>	<b>55</b>





## BIOLOGICAL CONTROL ·

Biological control is the intentional use of pathogens, parasites or predators to reduce the size of target mosquito populations. The most popular and successful biological tool is the mosquitofish, *Gambusia affinis*. Butte County Mosquito and Vector Control District maintains five fish ponds at the Oroville headquarters. These ponds produce hundreds of pounds of mosquitofish each year. The mosquitofish are routinely stocked and planted by District personnel to control mosquito populations in sources such as irrigation ditches, industrial, ornamental and artificial ponds, un-maintained swimming pools, semi-permanent and permanent urban sources, rice fields, and wetlands. Mosquitofish are omnivorous and have a voracious appetite for mosquito larvae. The flattened head and protruding mouth enable the fish to readily prey on surface feeding mosquito larvae and pupae. A large female can consume up to 300 larvae per day! All ages, sexes, and sizes of these fish eat mosquito larvae, along with other small aquatic invertebrates and algae. The fish are visual predators and feed during daylight hours. Due to insecticide resistance and environmental concerns associated with chemical control methods, biological control methods are expanding as an effective tool used in the control of mosquito populations.



The Aquaculture Center holds 3 tanks stocked with about 6000 breeding adult fish each. The fry, born live, will instinctively swim upward and through the small holes of the breeding boxes. The holes are far too small for the adults, which is important in keeping the adults from eating their young. The fry are moved to a 4th tank to mature before being used throughout the county.

Fish Plant 2023	Amount	Acres	Applications
<b>Zone 1</b>	<b>52.01 lbs</b>	<b>102.04</b>	<b>106</b>
Zone 3	27.41 lbs	54.82	62
<b>Zone 4</b>	<b>0.87 lbs</b>	<b>1.74</b>	<b>3</b>
Zone 6	5.84 lbs	11.68	23
<b>Zone 8</b>	<b>29.07 lbs</b>	<b>59.66</b>	<b>109</b>
Zone 9	0.75 lbs	1.50	3
<b>Zone 10</b>	<b>9.86 lbs</b>	<b>19.72</b>	<b>55</b>
Zone 11	10.57 lbs	23.30	32
<b>Zone 12</b>	<b>40.34 lbs</b>	<b>80.68</b>	<b>88</b>
Zone 14	7.25 lbs	14.50	17
<b>Totals</b>	<b>183.97 lbs</b>	<b>369.64</b>	<b>498</b>

Female mosquitofish produce eggs that hatch within their bodies, releasing well-developed and very active young or “fry” into the water. Gambusia are prolific, producing three or four broods each summer, depending on the food supply and climate. A brood averages between 30 and 100 fry that reach maturity in three or four months

## AQUACULTURE CENTER ·

Mosquito and Vector Control Districts across the nation are very familiar with mosquitofish, but most Districts are not as familiar with indoor aquaculture systems. BCMVCD has five ponds on site and a new indoor aquaculture program. The indoor program gives the District the ability to have fish year-round for the public as well as the ability to implement an intensive fish breeding program to replace fish populations in District ponds. The District’s aquaculture center has four tanks. Two tanks are for fry production, one for the fry that’s collected each day to mature, and the last is used as a holding/quarantine tank that is also used for fry production. The aquaculture center incorporates automatic vibratory feeders, in-line heaters, and dimmable ballast lighting. Studies have shown that consumption of feed, metabolism, and mating behaviors can be changed with light cycles and water temperatures. Temperature, pH, salinity, ammonia, nitrate, nitrite, alkalinity, and dissolved oxygen are tested daily. The District also practices a sustainable yield technique by selecting the correct seine size. This allows small fish to pass through and only large adults will be taken for District needs. These fish can then reach maturity, spawn, and help replenish fish stocks for the following year.

## CHEMICAL CONTROL

Chemical control is the use of target specific insecticides to reduce immature and adult mosquito populations. These chemicals are only applied when physical control, public education, and biological control methods are unable to keep mosquito populations tolerable or when emergency control measures dictate the use of chemicals to rapidly terminate or disrupt the transmission of disease to humans.

There are two categories of chemicals used by the District, larvicides and adulticides. Larvicides target mosquito larvae and pupae. Adulticides target adult mosquitoes. The chemicals used by the District are registered with the United States Environmental Protection Agency (EPA), as well as the California Environmental Protection Agency (CAL EPA).

The District relies mainly on larviciding as the primary means of chemical mosquito control. However, there are limitations to larviciding as a main control strategy. In Butte County where mosquito breeding occurs over large areas, the practical application of larvicides is not feasible and periodic adulticiding is necessary to protect nearby communities from the attack of adult mosquitoes. Also, there are areas that are environmentally sensitive and limit the use of larvicides. In these areas peripheral adulticiding is the only available option.



Jeremy Edwards  
Treating Drain



Shane Cassity  
Calibrating



Mike Mattia  
Residual Spraying



N714Y-Horse  
Dispensing Granules

## 2023 MATERIALS USED

Larvicides	Amount	Acres	Applications
Abate 4E	0.30 gals	25.00	23
Altosid SBG II	38,044.72 lbs	5,209.12	134
Altosid XR Extended Residual Briquets	690.00 each	1.61	57
Aquabac 200 G	3,010.34 lbs	379.16	9
Cocobear Mosquito Larvicide Oil	601.99 gals	194.19	1043
Duplex-G	40.00 lbs	8.00	2
MetaLarv S-PT	1,674.58 lbs	669.83	117
Natular DT	8,862.00 each	0.80	111
Natular XRT	4,132.00 each	9.51	327
VectoBac -12AS	4,743.91 gals	55,896.18	971
VectoBac WDG	525.00 lbs	1,106.73	22
VectoBac-G	88,901.62 lbs	9,276.26	197
VectoBac GR	13,251.24 lbs	1,577.70	59
VectoMax WSP	3,933.00 each	4.52	244
VectoPrime	1,570.34 lbs	196.20	33
Adulticides	Amount	Acres	Applications
Duet	1,088.07 gals	216,438.50	893
Perm-X UL 4-4	871.15 gals	69,883.79	468
Pyronyl 525 Oil	480.00 gals	61,454.28	9
Trumpet	960.00 gals	122,908.40	17
Barrier Sprays	Amount	Acres	Applications
Suspend SC	6.49 gals	19.07	200
Yellow Jacket Control	Amount	Acres	Applications
Drione Insecticide	0.22 gals	4.35	31
Knox Out 2 FM Insecticide	37.20 tsp	45.60	3
Herbicides	Amount	Acres	Applications
Dimension 2EW Herbicide	0.74 gals	3.10	3
Cheetah Pro	2.44 gals	5.57	7
Finale Herbicide	2.92 gals	9.72	4
Garlon 4 Ultra	3.70 gals	7.41	9
Round Up Concentrate Plus	1.58 gals	0.35	6
Roundup Weed & Grass Killer RTU	12.50 gals	0.09	2
Aircraft Application	Amount	Acres	Applications
Rice Acres Treated	57,720		
Managed Wetlands Treated	14,612		
ULV Acres Treated	184,320		24 Flights
<b>Total Acres Treated Via Aircraft</b>	<b>256,652</b>		

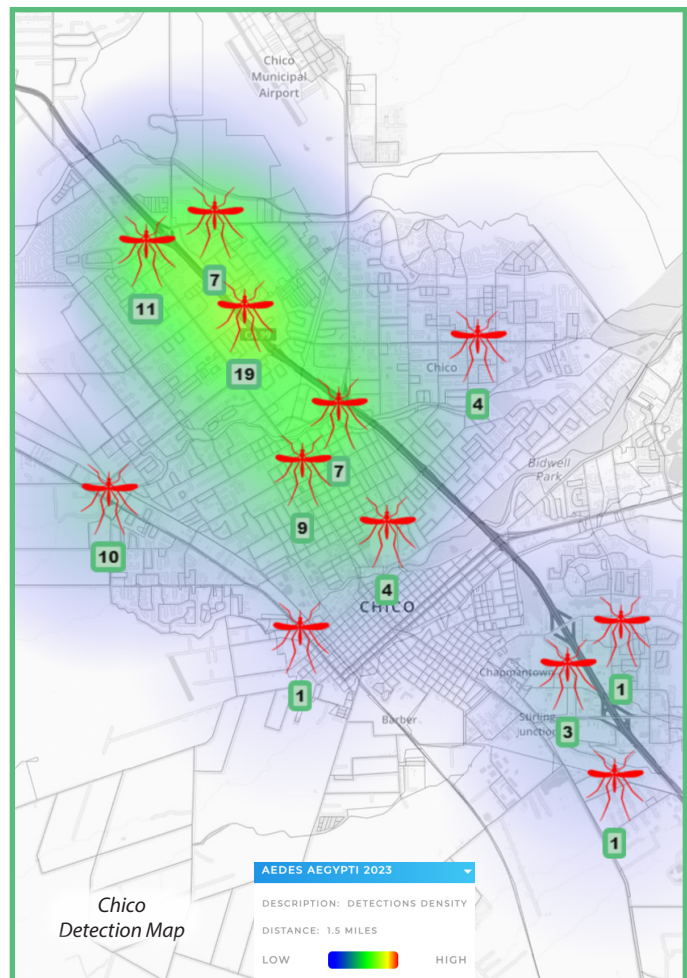
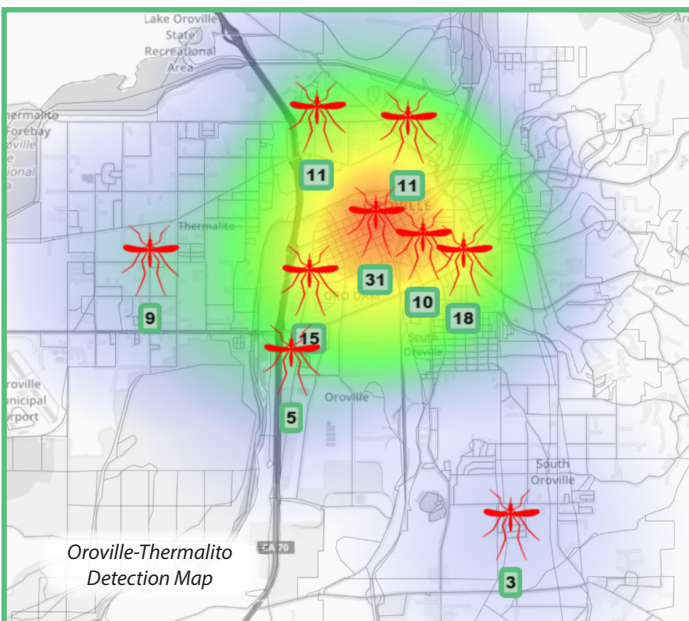
Eric Dillard  
Power spraying a  
wetland field

## CALIFORNIA INVASIVE SPECIES

Two invasive (non-native) mosquito species have recently been found in several California cities (see map below). They are named *Aedes aegypti* (the yellow fever mosquito) and *Aedes albopictus* (the Asian tiger mosquito).

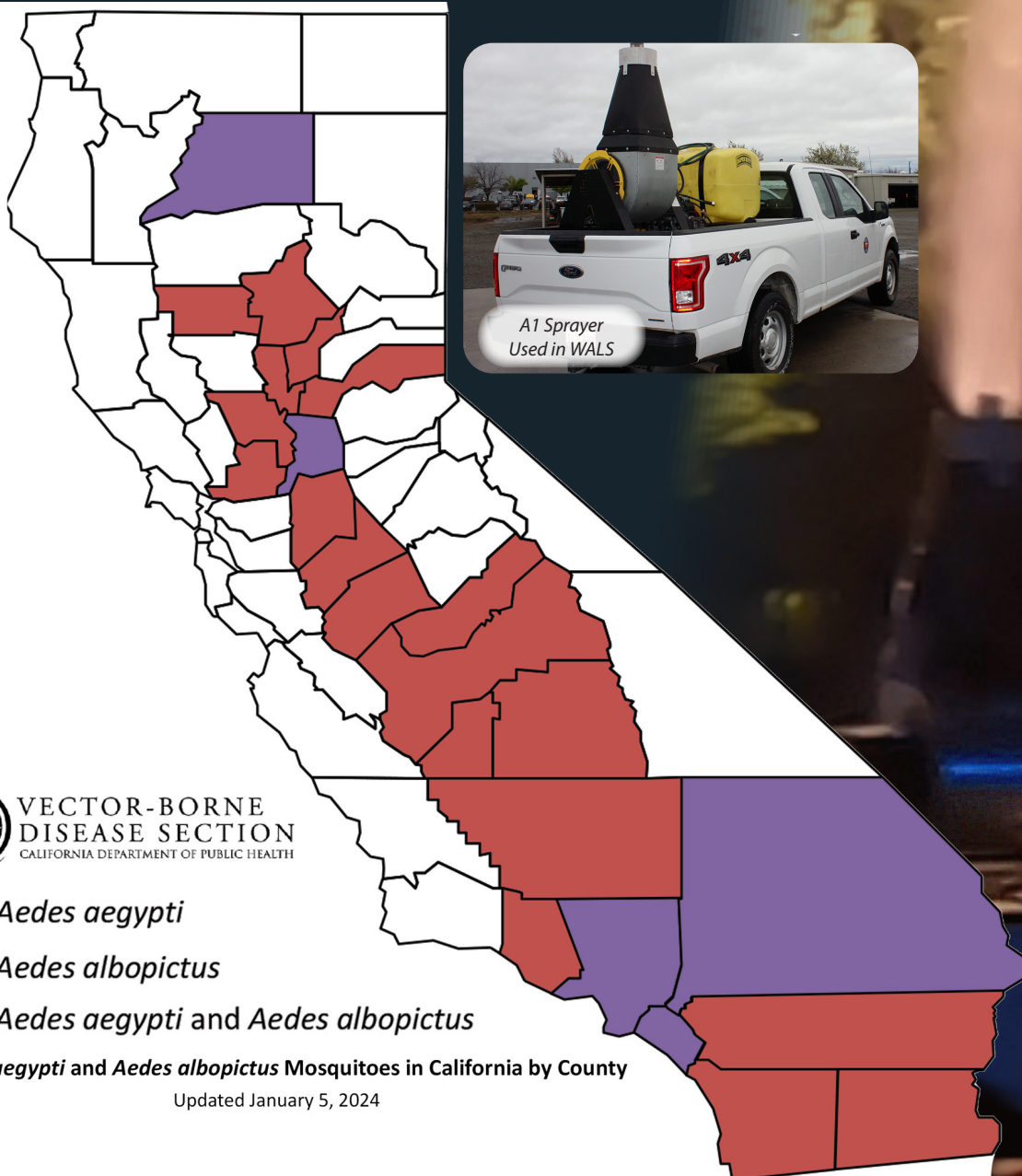
In 2023, The District had 213 detections of *Aedes aegypti* at 25 different locations in the cities of Chico, Oroville, Gridley, Biggs, Thermalito and Hamilton City. There have been no detections of *Aedes albopictus* in Butte County.

Unlike most native mosquito species, *Aedes aegypti* and *Aedes albopictus* bite during the day. Both species are small black mosquitoes with white stripes on their back and on their legs. They can lay eggs in any small artificial or natural container that holds water. *Aedes aegypti* and *Aedes albopictus* have the potential to transmit several viruses, including dengue, chikungunya, Zika, and yellow fever.



## WIDE AREA LARVICIDE SPRAY WALS

Wide Area Larvicide Spray (WALS) is an approach to controlling mosquito larvae, such as invasive *Aedes* larvae, that uses a naturally occurring bacterium (BTi) to kill mosquito larvae in the water before they emerge into biting adults. This is done with a powerful truck-mounted sprayer that sends out a plume of small water droplets containing BTi with the hope that they will drift their way into the small containers around residences that *Aedes aegypti* and *Aedes albopictus* prefer to lay eggs. The WALS method is another tool that the District utilizes to combat the invasive *Aedes* in Butte County.



VECTOR-BORNE  
DISEASE SECTION  
CALIFORNIA DEPARTMENT OF PUBLIC HEALTH

- Aedes aegypti*
- Aedes albopictus*
- Aedes aegypti* and *Aedes albopictus*

*Aedes aegypti* and *Aedes albopictus* Mosquitoes in California by County

Updated January 5, 2024





*Kenneth J. Armstrong  
Tree Trimming*

*Shane Robertson  
Building Fire Line*

*Glen Williams  
Metal Fabrication*

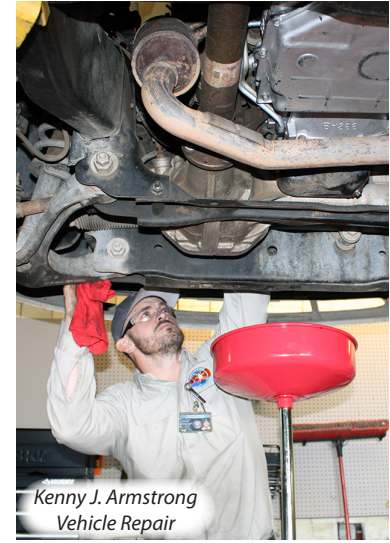
*Eric Dillard  
Fogger Maintenance*

## DISTRICT SHOP

The District's shop provides the maintenance and repairs for over 30 vehicles, 3 forklifts, 1 backhoe, 3 ATV's, 2 amphibious Tritons, 2 loader trucks and 4 utility trailers. Additionally, the shop is responsible for the maintenance and repairs to the District's electric ULV foggers, gas ULV foggers, back cans, power sprayers, chainsaws, weed eaters, lawn mowers, etc. and other mechanical items. The shop is also responsible for repairing and installing improvements to the District facilities and grounds when and where necessary. Often the shop will repair the District's security system, lighting fixtures, plumbing fixtures, and other items as needed.

## AERIAL OPERATIONS

The District employs one full-time Pilot II. On average the planes make applications to over 150,000 acres each year. During down time, the 3 planes receive repairs and technological improvements and upgrades to instruments and panels, altimeter, Satloc, Ag-Nav, repainting, replacing engine parts, and routine annual maintenance. The Pilot II also is responsible for renting a passenger plane and providing aerial surveillance flights over seasonally flooded wetlands and duck clubs for the District's MVCS. In 2020 the District, with the help of District Pilot Del Boyd, had a new tank truck built.



*Kenny J. Armstrong  
Vehicle Repair*

## FRONT OFFICE

Professional and courteous customer service is the number one priority for the District's administrative staff. The tasks of the administrative personnel involve serving the residents of Butte County and Hamilton City, the employees of the District, accounting, budgeting, responding to telephone inquiries, maintaining public records, coordinating policies, and reporting to the Board of Trustees.



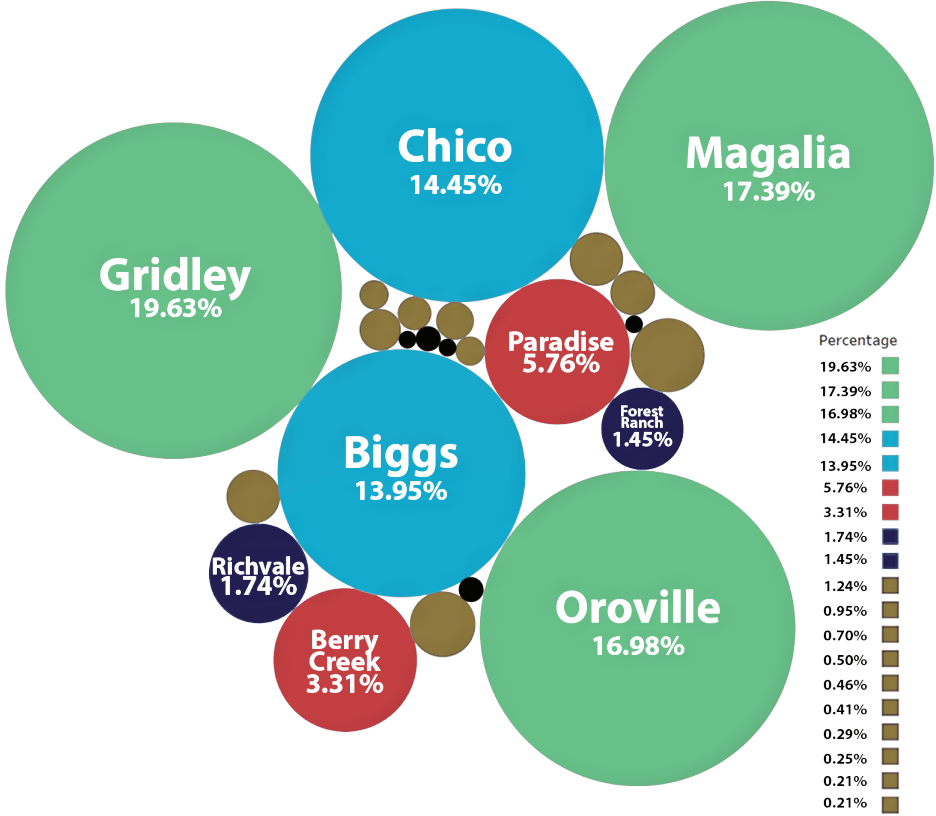
*'Jaws' En Route to  
Treatment*



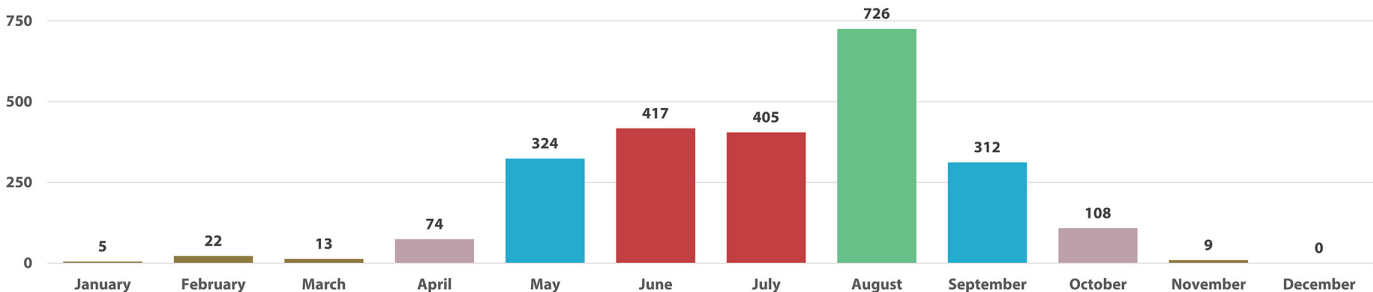
*Office Assistant  
Sara MacKenzie*

## SERVICE REQUESTS

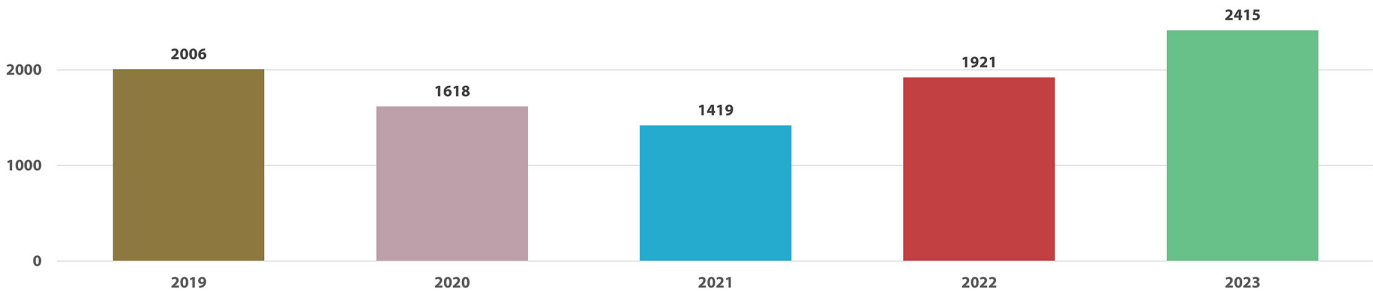
<b>Gridley</b>	<b>474</b>	<b>19.63%</b>
<b>Magalia</b>	<b>420</b>	<b>17.39%</b>
<b>Oroville</b>	<b>410</b>	<b>16.98%</b>
<b>Chico</b>	<b>349</b>	<b>14.45%</b>
<b>Biggs</b>	<b>337</b>	<b>13.95%</b>
<b>Paradise</b>	<b>139</b>	<b>5.76%</b>
<b>Berry Creek</b>	<b>80</b>	<b>3.31%</b>
<b>Richvale</b>	<b>42</b>	<b>1.74%</b>
<b>Forest Ranch</b>	<b>35</b>	<b>1.45%</b>
<b>Stirling City</b>	<b>30</b>	<b>1.24%</b>
<b>Forbestown</b>	<b>23</b>	<b>0.95%</b>
<b>Palermo</b>	<b>17</b>	<b>0.70%</b>
<b>Durham</b>	<b>12</b>	<b>0.50%</b>
<b>Dayton</b>	<b>11</b>	<b>0.46%</b>
<b>Cohasset</b>	<b>10</b>	<b>0.41%</b>
<b>Butte Valley</b>	<b>7</b>	<b>0.29%</b>
<b>East Biggs</b>	<b>6</b>	<b>0.25%</b>
<b>Bangor</b>	<b>5</b>	<b>0.21%</b>
<b>Hamilton City</b>	<b>5</b>	<b>0.21%</b>
<b>Brush Creek</b>	<b>1</b>	<b>0.04%</b>
<b>Clipper Mills</b>	<b>1</b>	<b>0.04%</b>
<b>Other</b>	<b>1</b>	<b>0.04%</b>
<b>Concow</b>	<b>0</b>	<b>0.00%</b>
<b>Feather Falls</b>	<b>0</b>	<b>0.00%</b>
<b>Totals</b>	<b>2415</b>	<b>100.00%</b>



### Service Requests Per Month 2023



### Service Requests Per Year



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## SPECIAL BENEFIT ASSESSMENT

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To address the growing needs placed upon the district and to expand and enhance existing services, the District attempted and passed a Special Benefit Assessment on all properties within the District's Service Area. With these additional revenues the District has the ability to enhance/improve all services provided by the District. Below is a non-exhaustive list of services that have been and continue to be enhanced:

- Increase seasonal staff and possibly permanent staff to better the services the District provides (e.g. surveillance, control, education, etc.)
- Expand the District's public education and outreach program to better educate those that the District serves to services provided, the elimination of mosquito and other vector habitat, and how to protect oneself from mosquito and vector-borne disease.
- Expand the District's mosquito surveillance program to better identify mosquitoes of medical importance, increase the amount of traps used, increase the amount of mosquitoes tested, commence with the surveillance of invasive species such as Asian Tiger Mosquito and Yellow Fever Mosquito (both of which have been introduced into California) and also to expand mosquito testing of newly introduced mosquito-borne disease such as chikungunya virus, Rift Valley fever, dengue fever, and others.
- Expand the District's tick surveillance to monitor more public use lands, test collected ticks for the presence of tick-borne disease, and conduct tick control trials.
- Expand and improve the District's mosquitofish program. Purchase mosquitofish rearing tanks to provide an environment in which mosquitofish propagate year-round rather than seasonally allowing the District to keep up with the requests of the public and to have more fish available to District staff to stock in mosquito-breeding areas to lower larval mosquito populations.
- Increase the amount of public health pesticide applications should surveillance data indicate a need based on treatment thresholds and/or resident service requests. Possibly lower the treatment thresholds for larvae and adult mosquitoes.
- Purchase new capital such as spray equipment and vehicles to lower maintenance costs, increase fuel mileage, and increase the reliability of service.
- Continue to and enhance investing in mosquito control research and new technology to identify better ways of protecting the public's health.

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This funding measure has strengthened, enhanced, and improved the District's baseline services provided. With newly introduced invasive species as well as new and reemerging vector-borne disease, mosquito and vector control's importance will only continue to grow.

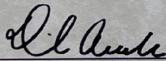
**District Transparency  
Certificate of Excellence**

July 2021– September 2024

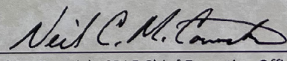
The Special District Leadership Foundation is proud to present this  
District Transparency Certificate of Excellence to

**Butte County Mosquito & Vector Control District**

In recognition of the district's completion of all transparency program requirements  
designed to promote transparency in their operations and governance  
to the public and other stakeholders.



David Aranda, SDLF Board President



Neil McCormick, SDLF Chief Executive Officer

Since 2014, the Butte County Mosquito and Vector Control District (District) received the Transparency Certificate of Excellence by the Special District Leadership Foundation (SDLF) in recognition of the District's outstanding efforts to promote transparency and good governance. In order to receive the award, a special district must demonstrate the completion of eight essential governance

transparency requirements, including conducting ethics training for all board members, properly conducting open and public meetings, and filing financial transactions and compensation reports to the State Controller in a timely manner. The Butte County Mosquito and Vector Control District also fulfilled fifteen website requirements, including providing readily available

information to the public, such as board agendas, past minutes, current district budgets, and the most recent financial audit. Finally, the District must have demonstrated outreach to its constituents that engages the public in its governance, through regular district newsletters and community engagement projects.

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"This award is a testament to the Butte County Mosquito and Vector Control District's commitment to open government," said Matthew Ball, District Manager. "The District's entire Board of Trustees and staff are to be commended for their contributions that empower the public with information and facilitate engagement and oversight."

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# FISCAL YEAR 2022/2023 FINANCIALS

	Actual	Budget	\$ Over Budget
<b>Income</b>			
Current Secured Property Taxes	2,448,134.08	2,358,801.00	89,333.08
Current Unsecured	172,415.91	155,932.00	16,483.91
Prior Secured	0.00	0.00	0.00
Prior Unsecured	13,311.54	3,500.00	9,811.54
Supplemental Current Secured	100,393.21	25,000.00	75,393.21
RDA - Residual	493,371.43	375,000.00	118,371.43
RDA - Pass-Thru	819,753.20	675,000.00	144,753.20
Miscellaneous Taxes	5,087.98	6,832.00	-1,744.02
Interest Income	131,605.73	38,000.00	93,605.73
ST- Tax Backfill Secured	0.00	0.00	0.00
ST- Tax Backfill Unsecured	0.00	0.00	0.00
ST - Other Revenue	0.00	0.00	0.00
HOPTR - Homeowner's Exemption	30,827.26	35,000.00	-4,172.74
Chico - RDA	0.00	0.00	0.00
Benefit Assessment	860,746.28	879,000.00	-18,253.72
Special Household Assessments	2,976.64	2,500.00	476.64
Benefit Assessment Hamilton City	7,027.19	6,500.00	527.19
Charges for Current Services	239,470.03	240,000.00	-529.97
Service Charges	0.00	0.00	0.00
Miscellaneous Revenues	95,853.57	20,000.00	75,853.57
Grants-Other Agencies	0.00	0.00	0.00
Transfers In	0.00	0.00	0.00
<b>Total Income</b>	<b>5,420,974.05</b>	<b>4,821,065.00</b>	<b>599,909.05</b>
<b>Expense</b>			
<b>Salaries &amp; Benefits</b>			
Salaries & Wages	1,513,438.55	1,547,531.00	-34,092.45
Payroll Expenses	127,934.22	134,111.00	-6,176.78
Worker's Compensation	65,819.00	70,000.00	-4,181.00
Health Insurance	430,650.44	443,819.00	-13,168.56
Health Insurance Reimbursement	0.00	0.00	0.00
Public Employees Retirement PER	456,447.51	487,522.00	-31,074.49
PERS- ADP	700,000.00	700,000.00	0.00
PERS- 115 Trust	150,000.00	150,000.00	0.00
<b>Total Salaries &amp; Benefits</b>	<b>3,444,289.72</b>	<b>3,532,983.00</b>	<b>-88,693.28</b>
<b>Services &amp; Supplies</b>			
Gas, Oil & Grease	145,216.15	150,000.00	-4,783.85
Repairs & Parts - Airplanes	22,593.23	45,000.00	-22,406.77
Repairs & Parts	44,517.80	45,000.00	-482.20
Office Supplies	18,125.57	25,000.00	-6,874.43
Shop and PPE Supplies	33,735.36	32,800.00	935.36
Education & Publicity	83,316.21	70,000.00	13,316.21
Insecticides	871,797.46	870,000.00	1,797.46
Tools & Equipment	87,765.22	70,000.00	17,765.22
Communications	20,213.80	34,000.00	-13,786.20
Travel	7,761.64	25,000.00	-17,238.36
Utilities	45,127.19	45,000.00	127.19
Rent	5,179.00	5,200.00	-21.00
Special Services	172,548.14	160,000.00	12,548.14
Trustee Allowance	8,800.00	13,000.00	-4,200.00
General Insurance	164,399.67	165,000.00	-600.33
Employee Training & Dues	12,153.00	15,000.00	-2,847.00
District Fees and Permits	39,932.26	40,000.00	-67.74
Miscellaneous	14,556.29	15,000.00	-443.71
Research Supplies	58,475.45	60,000.00	-1,524.55
Alternate Technology	0.00	1,000.00	-1,000.00
Special Discretionary	44,091.06	30,000.00	14,091.06
Gambusia	10,071.84	15,000.00	-4,928.16
<b>Total Services &amp; Supplies</b>	<b>1,910,376.34</b>	<b>1,931,000.00</b>	<b>-20,623.66</b>
<b>Capital Outlay</b>			
Buildings and Improvements	52,961.51	88,000.00	-35,038.49
Vehicles	59,850.51	50,000.00	9,850.51
Spray Equipment	75,926.55	90,000.00	-14,073.45
Aircraft	80,646.25	110,647.00	-30,000.75
Office Equipment	0.00	2,500.00	-2,500.00
Laboratory Equipment	0.00	2,500.00	-2,500.00
Shop Equipment	0.00	2,500.00	-2,500.00
Education and Publicity	0.00	2,500.00	-2,500.00
Miscellaneous Capital Outlay	0.00	1,000.00	-1,000.00
Communications Capital Outlay	90,000.00	91,000.00	-1,000.00
<b>Total Capital Outlay</b>	<b>359,384.82</b>	<b>440,647.00</b>	<b>-81,262.18</b>
Appropriation for Contingencies	0.00	1,202,746.00	-1,202,746.00
<b>Total Expense</b>	<b>5,714,050.88</b>	<b>5,904,630.00</b>	<b>-190,579.12</b>

# FISCAL YEAR 2022/2023 FINANCIALS

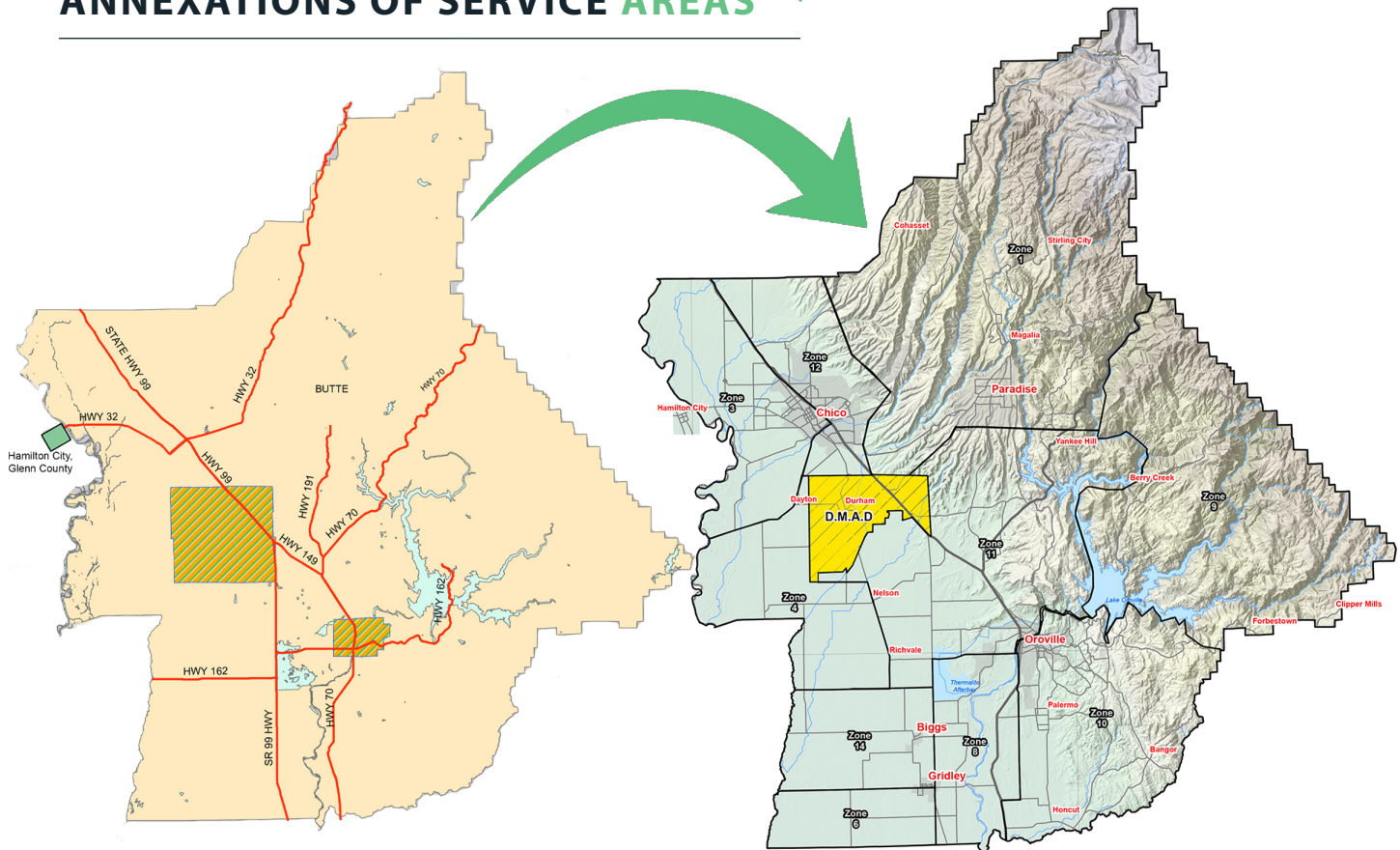
## Butte County Mosquito and Vector Control District

### Balance Sheet June 30, 2023

	General Fund	Reclassifications & Eliminations	Statements of Net Position
<b>Current assets:</b>			
Cash and investments (note 2)	\$ 7,630,546	-	7,630,546
Cash and investments (note 2)	286,310	-	286,310
Accrued interest receivable	39,778	-	39,778
Accounts receivable – charge for services	81,753	-	81,753
Materials and supplies inventory	1,553,942	-	1,553,942
Prepaid expenses	34,688	-	34,688
<b>Total current assets</b>	9,627,017	-	9,627,017
<b>Non-current assets:</b>			
Capital assets, not being depreciated (note 3)	-	615,403	615,403
Capital assets, being depreciated (note 3)	-	2,711,690	2,711,690
<b>Total non-current assets</b>	-	3,327,093	3,327,093
<b>Total assets</b>	9,627,017	3,327,093	12,954,110
<b>Deferred outflows of resources:</b>			
Deferred pension outflows (note 7)	-	2,452,548	2,452,548
<b>Total deferred outflows of resources</b>	-	2,452,548	2,452,548
<b>Current liabilities:</b>			
Accounts payable and accrued expenses	38,622	-	38,622
Accrued salaries and benefits	39,097	-	39,097
Long-term liabilities – due within one year:			
Compensated absences (note 4)	42,677	-	42,677
Termination benefits (note 5)	-	19,800	19,800
Lease obligation (note 6)	-	2,427	2,427
<b>Total current liabilities</b>	120,396	22,227	142,623
<b>Non-current liabilities:</b>			
Long-term liabilities – due in more than one year:			
Compensated absences (note 4)	170,707	-	170,707
Termination benefits (note 5)	-	23,925	23,925
Lease obligation (note 6)	-	66,891	66,891
Net pension liability (note 7)	-	4,446,325	4,446,325
<b>Total non-current liabilities</b>	170,707	4,537,141	4,707,848
<b>Total liabilities</b>	291,103	4,559,368	4,850,471
<b>Deferred inflows of resources:</b>			
Deferred pension inflows (note 7)	-	526,947	526,947
<b>Total deferred inflows of resources</b>	-	526,947	526,947
<b>Fund balance:</b> (note 8)			
Restricted	286,310	(286,310)	-
Non-spendable	1,588,630	(1,588,630)	-
Assigned	213,384	(213,384)	-
Unassigned	7,247,590	(7,247,590)	-
<b>Total fund balance</b>	9,335,914	(9,335,914)	-
<b>Total liabilities and fund balance</b>	\$ 9,627,017		
<b>Net position:</b> (note 9)			
Net investment in capital assets		3,257,775	3,257,775
Restricted		286,310	286,310
Unrestricted		6,485,155	6,485,155
<b>Total net position</b>		10,029,240	10,029,240

\*Insert from Fiscal Year 2022/2023 Annual Fiscal Report

## ANNEXATIONS OF SERVICE AREAS



**PREVIOUS SERVICE AREA MAP**

**NEW SERVICE AREA MAP**

The Butte County Mosquito and Vector Control District (BCMVC) covers nearly 1,800 square miles, and includes all of Butte County, except the small area served by the Durham Mosquito Abatement District (DMAD) which was formed earlier. The District also includes Hamilton City and wetlands along the eastern border of Glenn County.

- In June 2018, Local Agency Formation Commission of Butte County (LAFCo) adopted resolution No. 13 2017/18 approving the detachment and annexation of a portion of the DMAD territory to the BCMVC, increasing the District's service area by 14,775 acres of mixed agriculture.
- In August 2020, LAFCo adopted Resolution No. 01 2020/2021 approving the reorganization/dissolution of the Oroville Mosquito Abatement District (OMAD) and subsequent annexation of territory to the BCMVC. The annexation was finalized in 2021, adding approximately 7,660 acres of service area and the responsibility for mosquito abatement services in that area to the BCMVC.

Collectively, all these areas served by the BCMVC are known as the "Service Area." The BCMVC is the only agency providing mosquito and vector control and vector-borne disease protection and prevention services in the Service Area and provides its services to properties accommodating approximately 220,000 residents.

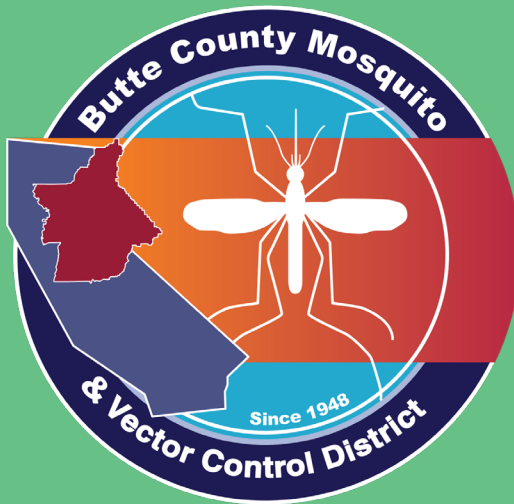


**District Headquarters**  
**5117 Larkin Rd.**  
**Oroville, CA 95965**



**District Substation**  
**444 Otterson Dr.**  
**Chico, CA 95928**







◆ DUSTIN C. COOPER ◆

dcooper@minasianlaw.com

January 11, 2024

Butte County Mosquito and Vector Control District  
Matthew Ball, General Manager  
[MattBall@buttemosquito.com](mailto:MattBall@buttemosquito.com)  
*Via Email*

Re: Execution of “Releases” to Finalize Payments from the Fire Victim Trust

Dear Clients:

As you have likely heard, the Fire Victim Trust sold the remaining shares of PG&E stock and will be winding down affairs in 2024. There will be an additional pro rata payment above the 60% already awarded, although it is still uncertain as to the extent of that increase (e.g., an additional 5% or 10%, etc.). To receive an additional pro rata payment, the Bankruptcy Plan and Trust require execution of two releases. The purpose of this letter is to summarize those releases and present options for your execution of the releases if you wish to receive an additional pro rata payment from the Trust.

#### Summary of the Releases

As a reminder, all legal claims against PG&E were “channeled” to the Trust, so the Bankruptcy Court’s approval of the plan of reorganization and creation of the Trust effectively absolved PG&E of further liability and empowered the Trust to address PG&E’s liability consistent with the Trust’s formation principles. The “Claimant” or “Entity Claimant Release” confirms that you cannot make further claims against the Trust related to the valuation of a fire victim award. In other words, your approved determination is final and you waive and will not pursue any further claims against the Trust. We have reviewed the Claimant Release and have no objections as to its legal form. Consequently, we recommend its execution.

The second release is the “Mutual Made Whole Release”. In California there is a legal concept known as the “made whole doctrine” whereby insurance companies have a right under certain circumstances to reimbursement from their insureds who have been “made whole” from their injury. Also, insurance companies cannot seek reimbursement (also known as subrogation) from third parties like PG&E unless and until the fire victims have first been “made whole”. As applicable here, there was a partial waiver of the doctrine allowing insurance companies to obtain reimbursement from PG&E for claim payments before fire victims (insureds) were made whole.

The Mutual Made Whole Release has two components: (a) insurance companies release (give up) any rights to claim entitlement to monies received by fire victims from the Trust; and (b) fire victims are agreeing to release (give up) any claims against insurance companies because they were paid first with \$11 billion in cash. We confirmed with the Trust that the release cannot

To: Butte County Mosquito and Vector Control District  
Re: Execution of "Releases" to Finalize Payments from the Fire Victim Trust  
Date: January 11, 2024  
Page: 2

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be used by insurance companies as a basis for withholding payment of insurance policy benefits. Thus, to the extent you have any outstanding claims against your carrier, those are not implicated by signing the release. We also confirmed with the Trust that the release indeed bars fire victim claims for reimbursement from their insurance companies from the \$11B cash payment received from PG&E.

While this release is certainly an opportunity to revisit old wounds and complain about how the bankruptcy process seemed designed to benefit institutional parties and not individual fire victims, we see no viable option to challenge or otherwise revisit the basic structure of the bankruptcy plan that was approved in 2020. The \$11B separate fund for insurance companies and the requirement of the made whole release were basic components of the approved bankruptcy plan, and the Trust is required to have the release executed as a precondition to receipt of the final pro rata payment.

With these circumstances in mind, we see no alternative other than to recommend that you execute the made whole release to receive the final pro rata payment. If you decline to execute one or both releases, you are ineligible for the final pro rata payment. Also, if you decline to execute the releases it is unclear to us whether the Trust may pursue (or is required to pursue) reimbursement of the 60% pro rata payment you already received.

#### **Considering Execution of the Releases**

There are two options for execution of the releases. First, we can provide hard copies for your live signature on behalf of the District. Once you return the executed releases, we will upload them to the portal on the District's behalf. Second, we can send an email with a link to sign the releases electronically. Regardless of which option you chose, we recommend that the decision to execute the release be considered and authorized by the Board of Trustees. At your preference, you may agendaize this item as either an open or closed session item. The open session agenda language may be "Consider Authorizing Execution of Fire Victim Trust Releases". If you would prefer to consider this topic in closed session, you may agendaize it as follows: "Closed Session – Pending Litigation (Government Code § 54956.9(d)(1).) *In re Claim Against Fire Victim Trust.*"

Please let us know if you have questions or need further assistance executing the releases.

Very truly yours,

MINASIAN LAW

By:   
DUSTIN C. COOPER

**STATE OF CALIFORNIA  
APPLICATION FOR ELIGIBILITY  
STATE & FEDERAL SURPLUS PROPERTY PROGRAM**

In completing this form, please print or type information.

A. Name of Organization Butte County Mosquito and Vector Control District Telephone 530-533-6038  
Address 5117 Larkin Road City Oroville County Butte Zip 95965  
E-Mail Address mattball@buttemosquito.com Fax Number 530-534-9916

1. Application is being made as a (please check one) (a) Public agency  or (b) qualified nonprofit and tax-exempt organization . Check all spaces that apply and provide all requested data.

B. **PUBLIC AGENCY:** Check either state  or local

Conservation  
 Economic Development  
 Education  
Grade Level \_\_\_\_\_  
(Preschool, K-12, college)  
Enrollment \_\_\_\_\_  
No. of faculty \_\_\_\_\_  
No. of days in school year \_\_\_\_\_  
 Parks & Recreation  
 Public Health  
 Public Safety  
 Two or more of above  
 Other (specify) Mosquito Abatement

**NONPROFIT AGENCY OR ORGANIZATION:**

Education  
 Grade Level \_\_\_\_\_  
(Preschool, K-12, college)  
 School for the mentally or physically handicapped  
Enrollment \_\_\_\_\_  
No. of faculty \_\_\_\_\_  
No. of days in school year \_\_\_\_\_  
No. of school sites \_\_\_\_\_  
 Educational radio or television station  
 Museum  
 Library  
 Medical institution  
 Hospital  
 Health center  
 Clinic  
 VOSB  
 Other (specify) \_\_\_\_\_

1. Are the applicant's services available to the public at large? yes. If only a specified group of people is served, please indicate who comprises this group. \_\_\_\_\_

2. Checklist of signed and completed documents submitted with this application:

SASP Form No. 202 "Resolution," properly signed and approved by the Governing Board designating representatives, including their signatures, authorized to bind the applicant organization to service fees submitted by the State of California.  
 SASP Form No. 203, nondiscrimination compliance assurance.  
 Certification Regarding Debarment, Suspension, Ineligibility, & Voluntary Exclusion as required by the General Services Administration of the U.S. Government.  
 Other statements or documentation required, as may be specified.

Printed Name and Title of Administrator or Director: Matt Ball, District Manager

Date: 02/14/2024 Signature of Administrator or Director: \_\_\_\_\_

**FOR STATE SURPLUS AGENCY USE ONLY**

Application approved \_\_\_\_\_ Application disapproved \_\_\_\_\_

Comments or additional information: \_\_\_\_\_

Date: \_\_\_\_\_ Signed: \_\_\_\_\_

Donee Number: \_\_\_\_\_ Billing Code: \_\_\_\_\_

**RESOLUTION**

"BE IT RESOLVED by the Governing Board, and hereby ordered that the official(s) and/or employee(s) whose name(s), title(s), and signature(s) are listed below shall be and is (are) hereby authorized as our representative(s) to acquire surplus property through the auspices of the California State Agency for Surplus Property and accept responsibility for payment of incidental fees by the surplus property agency under the Terms and Conditions accompanying this form or listed on the reverse side of this form."

NAME (Print or Type)	TITLE	SIGNATURE*	E-MAIL ADDRESS
A. <u>Matt Ball</u>	<u>District Manager</u>	<u></u>	<u>mattball@buttemosquito.com</u>
<u>AAaron Lumsden</u>	<u>Assistant Manager</u>	<u></u>	<u>alumsden@buttemosquito.com</u>
<u>Maritza Sandoval</u>	<u>Administrative Manager</u>	<u></u>	<u>msandoval@buttemosquito.com</u>
<u>Shane Cassity</u>	<u>Regional Supervisor</u>	<u></u>	<u>scassity@buttemosquito.com</u>
<u></u>	<u></u>	<u></u>	<u></u>

**\*Note: All signatures must be in original form. No copied or stamped signatures**

B. The above resolution was PASSED AND ADOPTED this 14 day of February, 2024, by the Governing Board of the:  
Butte County Mosquito and Vector Control District by the following vote: AYES: \_\_\_\_\_; NOES: \_\_\_\_\_; ABSENT: \_\_\_\_\_  
Agency Name

I, Melissa Schuster Clerk of the Governing Board known as Secretary

Does hereby certify that the foregoing is a full, true and correct resolution adopted by the governing board of the below named organization at the meeting thereof held at its regular place of meeting on this date and by the vote above stated, a copy of said resolution is on file in the principal office of the Governing Board.

Signed by: \_\_\_\_\_

Butte County Mosquito and Vector Control District  
Name of Organization  
5117 Larkin Road  
Mailing Address  
Oroville / 95965 / Butte  
City Zip Code County

**NOTE: ALL LOCAL GOVERNMENT & NON-PROFIT INCORPORATED ORGANIZATIONS HAVE A GOVERNING BOARD, THEREFORE COMPLETE ONLY SECTIONS "A" & "B". THE FOLLOWING SECTION "C" IS FOR STATE AGENCIES ONLY**

C. AUTHORIZED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by: \_\_\_\_\_  
Signature of Administrative Officer

Printed Name of Chief Administrative Officer \_\_\_\_\_ Title \_\_\_\_\_

Organization Name \_\_\_\_\_ Street Address \_\_\_\_\_  
City ZIP Code County

STATE OF CALIFORNIA AGENCIES ARE REQUIRED TO PROVIDE THEIR STATE BILLING CODE: \_\_\_\_\_

**ASSURANCE OF COMPLIANCE WITH GSA REGULATIONS UNDER TITLE VI OF  
THE CIVIL RIGHTS ACT OF 1964, SECTION 606 OF TITLE VI OF THE FEDERAL  
PROPERTY AND ADMINISTRATIVE SERVICES ACT OF 1949, AS AMENDED,  
SECTION 504 OF THE REHABILITATION ACT OF 1973, AS AMENDED,  
TITLE IX OF THE EDUCATION AMENDMENTS OF 1972, AS AMENDED  
AND SECTION 303 OF THE AGE DISCRIMINATION ACT OF 1975**

Butte County Mosquito and Vector Control District (hereinafter called the “Donee”),  
(Name of Donee organization)

**HEREBY AGREES THAT the program for or in connection with which any property is donated to the donee will be conducted in compliance with, and the donee will comply with and will require any other person (any legal entity) who through contractual or other arrangements with the donee is authorized to provide services or benefits under said program to comply with, all requirements imposed by or pursuant to the regulations of the General Services Administration (41 CFR 101-6.2) issued under the provisions of Title VI of the Civil Rights Act of 1964, Section 606 of Title VI of the Federal Property and Administrative Services Act of 1949, as amended, Section 504 of the Rehabilitation Act of 1973, as amended, Title IX of the Education Amendments of 1972, as amended, and Section 303 of the Age Discrimination Act of 1975, to the end that no person in the United States shall on the ground of race, color, national origin, sex, or age, or that no otherwise qualified handicapped person shall solely by reason of the handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity for which the donee received Federal assistance from the General Services Administration; and HEREBY GIVES ASSURANCE THAT it will immediately take any measures necessary to effectuate this agreement.**

The donee further agrees that this agreement shall be subject in all respects to the provisions of said regulations; that this agreement shall obligate the donee for the period during which it retains ownership or possession of any such property; that the United States shall have the right to seek judicial enforcement of this agreement; and, this agreement shall be binding upon any successor in interest of the donee and the word “donee” as used herein includes any such successor in interest.

Date 02/14/2024

Butte County Mosquito and Vector Control District  
Printed Name of Donee/Business Owner

BY \_\_\_\_\_  
Signature of Donee/Business Owner

5117 Larkin Road

Oroville, CA 95965

\_\_\_\_\_  
Donee’s Business/Organization Mailing Address

**STATE OF CALIFORNIA  
APPLICATION FOR  
ELIGIBILITY  
STATE & FEDERAL SURPLUS PROPERTY PROGRAM**

Pursuant to Federal Regulation 28 C.F.R. §§ 42.401 - 42.415, a recipient is mandated to report to the Federal Government the racial and national origins of all persons within your service area. You are therefore asked to supply the Office of Fleet and Asset Management with the race and national origins of individuals you serve in your service area (it may be helpful to refer to the US Census to determine the racial makeup of your service area at <https://www.census.gov/quickfacts/fact/dashboard/US/PST045222> This form must be completed and returned with the rest of the eligibility packet in order to qualify for the Federal Surplus Property Program. Your answers on this form in no way affect your eligibility; however, not returning the form will delay the processing of your application.

American Indian or Alaskan Native      % <u>2</u>	Persons having origins in any of the tribal people of North America, and who maintain cultural identification through tribal affiliation or community recognition.
Asian / Pacific Islander      % <u>5</u>	Persons having origins in any of the original peoples of the far east, Southeast Asia, Pacific Islands, or the Indian Subcontinent. This includes China, Japan, Korea, The Philippines, and Samoa.
Black      % <u>2</u>	Persons having origins in any of the black racial groups of Africa.
Hispanic      % <u>19</u>	Persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.
White      % <u>68</u>	Person having origins in any of the original people of Europe, North Africa, or the Middle East.
Other      % <u>4</u>	(Specify) <u>Two or more races</u>

Print Name Maritza Sandoval

Title Administrative Manager

Signature \_\_\_\_\_

Date 02/14/2024

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND  
VOLUNTARY EXCLUSION – LOWER TIER COVERED TRANSACTIONS**

**This certification is required by the General Services Administration regulations implementing Executive Order 12549-41 CFR 105-68 – for all lower tier transactions meeting the requirements stated at 41 CFR 105-68.110.**

Instructions for Certification

1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.
2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department of agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
3. The prospective lower tier participant shall provide immediate written notice to the person to whom this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or had become erroneous by reason of changed circumstances.
4. The terms “covered transaction,” “debarred,” “suspended,” “ineligible,” “lower tier covered transaction,” “participant,” “person,” “primary covered transaction,” “principal,” “proposal,” and “voluntarily excluded,” as used in this clause, have the meanings set out in the Definitions and Coverage section of rule implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.
5. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which

this transaction originated. 6. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled “Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – Lower Tier Covered Transaction,” without modification, in all lower tier covered transactions and in all solicitation for lower tier covered transactions.

7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not proposed for debarment under CFR part 9, subpart 9.4, debarred, suspended, ineligible, or voluntarily excluded from covered transactions, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the List of Parties Excluded from Federal Procurement and Nonprocurement Programs.

8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

Certification

- (1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

NAME OF DONEE APPLICANT <b>Butte County Mosquito and Vector Control District</b>	
NAME AND TITLE OF AUTHORIZED REPRESENTATIVE <b>Matt Ball, District Manager</b>	
SIGNATURE	DATE <b>02/14/2024</b>



**Certifications and Agreements including Terms, Conditions, Reservations and Restrictions to be included  
On Agency Issued or Distribution Documents  
The Donee Certifies That:**

- 1) It is a public agency; or an approved non-profit institution or organization, exempt from taxation under Section 501 of the Internal Revenue Code of 1986; within the meaning of Section 203(j) of the Federal Property and Administrative Services Act of 1949, as amended, and the regulations of the General Services Administration (GSA).
- 2) The property is needed and will be used by the recipient for carrying out for the residents of a given political area one or more public purposes, or, if a nonprofit tax-exempt institution or organization or 8(a) business, the property is needed for and will be used by the recipient for educational or public health purposes, or for programs for older individuals, or for business purposes. The property is not acquired for any other use or purpose, or for sale or other distribution; or for permanent use outside the State, except with prior approval of the CSASP.
- 3) Funds are available to pay any and all costs and charges incidental to the receipt of surplus property, and that property is not being acquired for any other use(s) or purpose(s), is not for sale. The fee schedule is available upon request from the CSASP.
- 4) Any transaction shall be subject to the nondiscrimination regulations governing the donation of federal surplus personal property issued under Title VI of the Civil Rights Act of 1964 (41 USC 2000d-2000d-4a), as amended, section 504 of the Rehabilitation Act of 1973, as amended, Title IX of the Education Amendments of 1972, as amended, section 303 of the Age Discrimination Act of 1975, and the Civil Rights Restoration Act of 1987.
- 5) If the Donee is designated by the Federal Small Business Administration 8(a) Program as a socially and economically disadvantaged small business and the SBA and CSASP have both determined the Donee is eligible to receive federal surplus property as a donation, the Donee certifies that the property acquired is needed and will be used solely for the conduct of the Donee's business enterprise: and the Donee certifies to A. (3), (4) and (5),

**The Donee Agrees to the Following Federal Conditions:**

- 6) All items of property, other than items with a unit acquisition cost of \$5000 or more and passenger motor vehicles, regardless of acquisition cost, shall be placed in use for the purpose(s) for which it was acquired within one year or receipt, and shall be placed in continuous use for one year from the date the property was placed in use. In the event the Donee does not place the property in use, or continuous use, the Donee shall immediately notify the CSASP, and, at the Donee's expense, make the property available for transfer or other disposal as directed by the CSASP.
- 7) Special handling or use limitations as are imposed by Federal GSA on any item(s) under which the item(s) are being allocated to the Donee.
- 8) In the event the Donee does not use the property as required by *Sections C (1) and (2)* below, at the option of the GSA, title and right to the possession of such property shall revert to the United States of America and, upon demand, the Donee shall release such property to such person as GSA or its designee shall direct.

**B) The Donee Agrees to the Following Conditions Applicable to Items with a Unit Acquisition Cost of \$5,000 or More and Passenger Motor Vehicles, Regardless of Cost. Except Vessels 50 Feet or More in Length and Aircraft Regardless of Acquisition Cost:**

- 1) The property shall be placed in use within one year of receipt and shall be used only for the purpose(s) for which it was acquired and for no other purpose(s).
- 2) There shall be a period of restriction which will expire after such property has been used for the purpose(s) for which it is acquired for a period of 18 months from the date the property is placed in use, except for such item(s) of major equipment for which the CSASP designates a further period of restriction.
- 3) In the event the property is not so used as required by *Sections C (1) and (2)*, at the option of the CSASP, title and right to the possession of such property shall, at the option of the CSASP, revert to the State of California, and the Donee shall release such property to such person as the CSASP shall direct.

**C) The Donee Agrees to the Following Terms, Reservations and Restrictions:**

- 1) From the date it receives the property and throughout the time period(s) imposed by Sections B and C (as applicable) remain in effect, the Donee shall not sell, trade, lease, lend, bail, cannibalize, encumber, or otherwise dispose of such property, or remove it permanently, for use outside the State of California, without the prior approval of GSA or the CSASP. The proceeds from any sale, trade, lease, loan, bailment, encumbrance or other disposal of the property, when the GSA or the CSASP authorizes such action, shall be remitted promptly by the Donee to GSA or the CSASP, as applicable. If the Donee takes action in ignoring or disregarding the foregoing restrictions after the date the Donee received the property and before expiration of the time periods imposed by Sections C or D as applicable, at the option of the GSA or the CSASP, the Donee shall pay to the GSA or the CSASP any proceeds derived from the disposal, and/or the fair market or rental value of the property at the time of such unauthorized disposal as determined by the GSA or the CSASP as applicable.
- 2) If at any time, from the date the Donee receives the property throughout the time periods by Sections B and C as applicable, the Donee determines that some or all of the property is no longer suitable, usable, or further needed for the purpose(s) for which it was acquired, the Donee shall promptly notify the CSASP and shall, as directed by the CSASP, return the property to the CSASP, or release the property to another Donee or another state agency, or a department or agency of the United States, or sell or otherwise dispose of the property. The Donee shall remit the proceeds from the sale promptly to the CSASP.
- 3) The Donee shall make reports to the CSASP which shall state the use, condition, and location of the property, and shall report on other pertinent matters as may be required from time to time by the CSASP.
- 4) At the option of the CSASP, the Donee may abrogate the conditions set forth in Section B and the terms, reservations and restrictions pertaining in Section D by payment of an amount as determined by the CSASP.

**D) The Donee Agrees to the Following Conditions, Applicable to all Items of Property:**

- 1) The property acquired by the Donee is on an "As Is," "where is" basis, without warranty of any kind.
- 2) If the Donee carries insurance against damages to or loss of property due because of fire or other hazards, and the damage to, loss or destruction to donated property with unexpired terms, conditions, reservations or restrictions, occurs, the CSASP will be entitled to reimbursement from the Donee out of the insurance proceeds, in an amount equal to the unamortized portion of the fair value of the damaged or destroyed donated property.

**E) Terms, conditions, reservations and restrictions set forth in the Conditional Transfer Document executed by the authorized Donee representative are applicable to the donation of Aircraft and Vessels of 50 Feet or more in length having an acquisition cost of \$5,000 or more in length or more, regardless of the purpose for which acquired.**

SIGNATURE: \_\_\_\_\_

DATE: 02/14/2024



FEDERAL SURPLUS PROPERTY PROGRAM NARRATIVE

For Questions, contact us at: [FederalSurplusProperty@dgs.ca.gov](mailto:FederalSurplusProperty@dgs.ca.gov)

Print Name of Business Owner: Butte County Mosquito and Vector Control District

Please indicate what percentage of the business you own: 100%

Print Name of the Business/Organization: Butte County Mosquito and Vector Control District

Print Physical Address of the Business/Organization (No P.O. Boxes): 5117 Larkin Road Oroville, CA 95965

Will the Applicant be physically present at the address above?  Yes  No

If no, what is the Applicant's primary office address? \_\_\_\_\_

1) Detailed description of services provided and/or products sold. Attach additional sheet if necessary:

Mosquito Abatement

2) Detailed description of the type of customers served (ex.: direct to consumer, business to business, government):

Government

3) Provide address of primary business location/headquarters include days and hours of operation:

5117 Larkin Road Oroville, CA 95965

4) Do you have other business locations (including outside of the State of California)?  Yes  No

5) Please list and describe all locations below. Attach additional sheet if necessary.

Name of Business, Description, and Business Start Date	Address of Business and Total Number of Employee's at Each Location
Butte County Mosquito and Vector Control District	444 Otterson Drive
Mosquito Abatement	Chico, CA 95928
1948	4 employees

Butte County Mosquito and Vector Control District	444 Otterson Drive
Mosquito Abatement	Chico, CA 95928
1948	4 employees

Print name of Key staff and job title/role(s), email address, and their phone number for each business location:

a) Matt Bal, District Manager, mattball@buttemosquito.com, 530-533-6038

b) AAaron Lumsden, Asssitant Manager, alumsden@buttemosquito.com, 530-533-6038

c) Shane Cassity, Regional Supervisor, scassity@buttemosquito.com, 530-533-6038

d) Maritza Sandoval, Administrative Manager, msandoval@buttemosquito.com, 530-533-6038

6) Provide your business website and business social media web links:

www.buttemosquito.com

Print Name of Business Owner:

Signature:

Date:

James Bo Sheppard, President

02/14/2024



# City of Oroville

OFFICE OF THE CITY CLERK

1735 Montgomery Street  
Oroville, CA 95965-4897  
(530) 538-2535 FAX (530) 538-2468  
[www.cityoforoville.org](http://www.cityoforoville.org)

RECEIVED  
JAN 23 2024

BY: .....

*Kayla Reaster*  
Assistant City Clerk

**DATE:** January 17, 2024

**TO:** Butte County Mosquito and Vector Control

**FROM:** Kayla Reaster, Assistant City Clerk

**RE:** **2024 City of Oroville Committee and Board Assignments**

Pursuant to Oroville City Council Policy and Resolution #8813, the Mayor, with the approval of the City Council, makes all appointments to boards, commissions, and committees unless otherwise specifically provided by statute or City Charter.

The Mayor, David Pittman, announced his appointments at a properly noticed regular meeting on January 2, 2024. Appointments were approved by a majority of the council present at the meeting. Appointments expire each year unless otherwise announced by the Mayor prior to the appointment. The Butte County Mosquito and Vector Control appointment shall be for two or four years.

Please see the attached sheet containing all 2024 assignments for the City of Oroville Council Members.

# CITY OF OROVILLE COMMITTEE AND BOARD ASSIGNMENTS 2024



	David Pittman	Eric Smith	Krysi Riggs	Janet Goodson	Tracy Johnstone	Shawn Webber	Scott Thomson		
ALUC - Airport Land Use				X				1, Alt	Airport Manager
ARTS COMMISSION			A	X				1, Alt	Community Development Director
BCAG - Butte County Association of Governments	X	A						1, Alt	City Administrator or City Engineer
BCAQCB - Butte County Air Quality Control Board	A	X						1, Alt	City Administrator or Director of Community Develop
CHAMBER OF COMMERCE					X	A		1, Alt	City Administrator
Citizens Oversight Committee	X			A	X			2, Alt	Finance Director
COCC - Butte County Continuum of Care		A		X				1, Alt	Director of Community Development
EXECUTIVE COMMITTEE/ INTERGOVERNMENTAL	X	X	X					3	City Administrator
LEAGUE OF CALIFORNIA CITIES		A	X					1, Alt	City Administrator
LOAN ADVISORY HOUSING and ECONOMIC DEVEL			X	X	X			3	Business Assistance and Housing Director
ODBA - Oroville Downtown Business Association			X		A			1	PIO
ORAC - Oroville Recreation Area Committee				A	X			1, Alt	PIO
SBF - Supplemental Benefit Committee	X		X	A	X	A	A	3, 3 Alt	Program Specialist
SC-OR - Sewerage Commission Oroville Region	X						A	1, Alt	City Engineer
Wyandotte Creek - Groundwater Management		A	X					1, Alt	City Engineer
Butte County Mosquito & Vector Control		X					A	1	Director of Community Development
TOURISM			X					1	PIO
VETERAN MEMORIAL PARK							X	1	City Administrator
Oroville Dam Citizen Advisory Commission	X	X		A				1, 1 alt	City Administrator
Butte Choice Energy Authority (BCEA)		A		A		X	X	2, 2 Alt	Community Development Director
LAFCO									Appointed by BC City Selection Committee

X - Voting Member      A - Alternate Member