



## **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  
FEBRUARY 10, 2021, 4:00 PM  
LOCATION: TELECONFERENCE - SEE BELOW

#### IMPORANT NOTICE REGARDING COVID-19 AND TELECONFERENCED MEETINGS:

Based on the mandates by the Governor in Executive Order 33-20 to shelter in place and the guidance from the CDC, to minimize the spread of the coronavirus, please note the following changes to the District's ordinary meeting procedures:

- The District offices are not open to the public at this time.
- The meeting will be conducted via teleconference using Zoom in accordance with the Governor's EO N-29-20
- All members of the public seeking to observe and/or to address the local legislative body may participate in the meeting telephonically or otherwise electronically in the manner described below.

#### HOW TO OBSERVE THE MEETING:

Telephone: Listen to the meeting live by calling Zoom at 1-669-900-9128 enter the Meeting ID# 641 417 3404 followed by the pound (#) key. More phone numbers can be found on Zoom's website at <https://us02web.zoom.us/j/6414173404>

Computer: Watch the live streaming of the meeting from a computer by navigating to the Zoom link <https://us02web.zoom.us/j/6414173404> using a computer with internet access that meets Zoom's system requirements (see <https://support.zoom.us/hc/en-us/articles/201362023-System-Requirements-for-PC-Mac-and-Linux>)

Mobile: Log in through the Zoom mobile app on a smartphone and enter Meeting ID# 641 417 3404.

#### HOW TO SUBMIT PUBLIC COMMENTS:

Written / Read Aloud: Please email your comments to [matthewcball@att.net](mailto:matthewcball@att.net), write "Public Comment" in the subject line. In the body of the email, include the agenda item number and title, as well as your comments. If you would like your comment to be read aloud at the meeting (not to exceed three minutes at staff's cadence), prominently write "Read Aloud at Meeting" at the top of the email. All comments received before 3:00 PM the day of the meeting will be included in the minutes and provided to the Trustees at the meeting. Comments received after this time will be treated as telephonic/electronic comments.

Telephonic / Electronic Comments: During the meeting, the Board President or designee will announce the opportunity to make public comments and identify the cut off time for submission. A short recess (generally less than 3 minutes) will take place during the time public comment is open to allow the comments to be collected. Please email your comments to [matthewcball@att.net](mailto:matthewcball@att.net), write "Public Comment" in the subject line. In the body of the email, include the agenda item number and title, as well as your comments. Once the public comment period is closed, all comments timely received will be read aloud. Comments received after the close of the public comment period will be added to the record after the meeting.

## ACCESSIBILITY INFORMATION:

Board Meetings are accessible to people with disabilities and others who need assistance. Individuals who need special assistance or a disability-related modification or accommodation (including auxiliary aids or services) to observe and/or participate in this meeting and access meeting-related materials should contact Matt Ball, District Manager, at least 48 hours before the meeting at (530) 533-6038. Advanced notification will enable the District to swiftly resolve such requests to ensure accessibility. All requests for special accommodations and/or alternative format documents must be made 48 hours prior to the meeting.

## PUBLIC RECORDS:

Public records that relate to any item on the open session agenda for a meeting are available for public inspection. Those records that are distributed after the agenda posting deadline for the meeting are available for public inspection at the same time they are distributed to all or a majority of the members of the Board. The Board has designated the District's website located at <https://www.ButteMosquito.com> as the place for making those public records available for inspection. The documents may also be obtained by calling the District Manager.

1. *Regular Board of Trustees Meeting Time: 4:00 PM Date: February 10, 2021*
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 13, 2021*
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) 2020 Annual Report*

The Office Manager will review the 2020 BCMVCD Annual Report. Additionally, the District Manager will provide a brief report on the findings of the report.

8. *Policy Matters: (8.1 – 8.2)*
  - 8.1 *Consider Declaring 4 Vehicle Surplus to Need, Establish a Minimum Bid, and Authorize the Sale*

The Board will be asked to declare four vehicles surplus to need, establish the minimum bid amount for each truck, authorize the sale to the highest bidder, and to approve the notice for publication.

*Continued...*

8.2 *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

11. *Topic of the Month:*

Overwintering *Anopheles freeborni*.

12. *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.

13. *Personnel:*

The District received retirement notices from Mosquito and Vector Control Specialist Phillip Henry and Don Lasik. The District is currently receiving applications for open positions.

14. *Correspondence:*

The Board will review a letter from Phillip Henry, Don Lasik, and Matthew Ball.

15. *Other Business:*

The Board will be given instructions on how to complete the state mandated sexual harassment prevention training.

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

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

18. *Adjournment: (Next Regular Meeting of the BCMVCD Board of Trustees is March 10, 2021)*

***Regular Minutes of the Board of Trustees of the Butte County Mosquito and Vector Control District Meeting held January 13, 2021***

**Members Present:** President Dr. Albert Beck, Michael Barth, Bruce Johnson, Vice President Dr. Larry Kirk, Philip LaRocca, Steve Ostling, Assistant Secretary Melissa Schuster, and Secretary Bo Sheppard, and Carl Starkey.

**Members Excused:** Gordon Andoe.

**Members Absent:** None.

**Also Present:** District Manager Matt Ball, Assistant Manager Doug Weseman, Office 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 13, 2021, was live streamed via Zoom at: <https://us02web.zoom.us/j/6414173404>.
2. The January 13, 2021, Butte County Mosquito and Vector Control District regular meeting of the Board of Trustees was called to order at 4:00 PM by President Beck.
3. The District Manager informed the Board of Trustees, on January 11, 2021, he had received a call from Member Andoe to inform the District that he was resigning for personal reasons as a Trustee effective immediately and that a formal letter would follow. Member Andoe informed the District Manager that he had spoken with the City of Oroville to also inform the City of his resignation. Seeing and hearing no other persons wishing to address the Board, President Beck proceeded to request approval of the minutes.
4. After review it was then moved by Member Schuster, seconded by Member Kirk, and passed unanimously to approve the minutes of the Board of Trustees meeting held December 9, 2020, as written.
5. No persons wishing to address the Board on closed session matters.
6. No closed session matters.
7. No newly appointed Board Members to report, but the District Manager reported that Member Schuster had been reappointed to a two-year term and Member Starkey had been reappointed to a four-year term.
8. Under election of officers, President Beck opened nominations; after further discussion, it was moved by Member Shuster, seconded by Member Sheppard and passed unanimously to reelect Dr. Beck as President; it was moved by Member Sheppard, seconded by Member Barth and passed unanimously to reelect Member Kirk as Vice President; it was moved by Member Johnson, seconded by Member Kirk and passed unanimously to reelect Member Sheppard as Secretary; it was moved by Member Sheppard, seconded by Member Kirk and passed unanimously to reelect Member Schuster as Assistant Secretary.
9. Reports (9.1 – 9.2)
  - 9.1 Under item 9.1 of reports, District Manager's Report, the District Manager reported on December 10, 2020, the District completed the monthly staff meeting and all vehicle inspections. The District's Safety Committee also met on this date.

On December 15, 2020, District's management conducted employee oral evaluations. All Mosquito and Vector Control Specialists were completed except for one.

On December 16, 2020, District management commenced and completed all oral evaluations of the administrative, management, and laboratory staff.

On December 21, 2020, the District annual underground storage tank test and CUPA was inspected. The District passed both inspections. BL Griffin Company, Butte County Environmental Health, and Butte County Air quality were all present for testing and inspections.

On January 5, 2021, the District Manager met with Don Galloway of Russel, Galloway, and Associates Inc. to walk the proposed building expansion.

On January 6, 2021, all District employees received state mandated underground storage tank training. Also, on this date, District management completed the last employee evaluation.

The District was closed the week of December 21 and December 28, as well as January 4, 2021.

Currently, the District is still following all the procedures, protocols, and worker protection policies reported to the Board in April. The District offices are still closed to the public, but have 2 locations to pick up mosquitofish, answering any and all service requests, and providing all services as normal. District continues to be on good supply of personal protective equipment and sanitization products.

The District Manager continues to follow the Butte County Public Health Department's Public Health Officer's guidance and recommendations and is monitoring the Governor's press conferences. The District received updated Cal/OSHA requirements for employers regarding COVID-19. The District's current COVID-19 Prevention Program (CPP) has been updated to comply with Cal/OSHA's new requirements.

The District has experienced employees missing work due to isolation/quarantine orders, experiencing COVID-19 like symptoms, as well as COVID-19 positive case(s). Due to the District's proper practices such as masks, sanitization efforts, and social distancing, no other employees have missed work due to workplace exposures.

The Board discussed COVID-19 moving forward, considerations such as the February's Board meeting, District office closure, and employee worker protection policies. The consensus of the Board was to keep the District offices closed to the public, to continue to operate under the procedures and policies that have been followed the past ten months, and to continue to host the Board meetings remotely. The District will reassess these procedures next month.

- 9.2 Under item 9.2 of reports, the 2020/2021 Fiscal Budgets Reports, the District Manager reported on the 2020/2021 2<sup>nd</sup> quarter fiscal budgets. The District Manager reported that the District had expended 56.1% of Salaries and Wages, 65.4% of Services and Supplies, 14.2% of Capital Outlay, for an overall expended percentage of 56.7%. The District Manager then reviewed the revenues and the Hamilton City fiscal report and explained some expenditures.

After this final item of reports, President Beck asked the District Manager to proceed to policy matters.

10. Policy matters (10.1 – 10.4)

- 10.1 Under item 10.1 of policy matters, the Board was asked to consider allowing retired employees of the District to continue medical coverage on the District's medical insurance plan. The District's current plan allows the option and it would be of no cost to the District. It was then moved by Member Sheppard, seconded by Member Kirk and approved unanimously to approve changes to the District's Medical Insurance Plan to allow retired employees of the District to continue medical coverage on the District's medical insurance.
- 10.2 Under item 10.2 of policy matters, the Board was asked to consider approving and adopting Resolution No. 21-01, A Resolution for Retired Employee Medical Insurance. It was then moved by Member Johnson, seconded by Member Ostling and passed unanimously to approve Resolution No. 21-01, A Resolution for Retired Employee Medical Insurance.
- 10.3 Under item 10.3 of policy matters, the Board was asked to consider approving additions to Personnel Policy, Policy 7085, Health Benefit Plan, section 7085.8. It was then moved by Member Sheppard, seconded by Member Johnson and passed unanimously to approve additions to Personnel Policy 7085, Health Benefit Plan, Section 7085.8.
- 10.4 Under item 10.4 of policy matters, the Board was asked if the District can forgo updating and maintaining physical District Policy Manuals. The District's current Policy Manual has been uploaded to the District's website and a digital copy has been stored on the District's server available to all employees at all hours of the business day. After further discussion it was approved by the Board to forgo updating and maintaining physical District Policy Manuals.
11. Under topic of the month, Entomologist, Amanda Bradford provided a report on tick-borne diseases.
12. After reviewing the demands made upon the District for the past month, it was then moved by Member Sheppard, seconded by Member Schuster, and passed unanimously to authorize checks numbered 48704 through 48864 be signed and distributed. Expenditures for the month totaled \$259,539.95.
13. No personnel to report.
14. Under correspondence, the Board reviewed a letter from the Town of Paradise and from CalPERS.

15. No other business to report.
16. No persons wishing to address the Board pertaining to closed session matters.
17. No closed session items.
18. President Beck announced adjournment at 5:08 PM and concluded by stating that the next regular meeting of the BCMVCD Board of Trustees would meet at 4:00 PM on February 10, 2021, via Zoom.

Respectfully submitted,

James "Bo" Sheppard,  
Secretary

On January 11, 2021, the District completed the monthly staff meeting and all vehicle inspections. The District's Safety Committee also met on this date. Additionally, all staff attended virtual CPR, first aid, and AED training, annual pesticide safety and awareness training, forklift training, and respirator training.

The District was closed on January 18, 2021, in observance of Dr. Martin Luther King Jr. Day.

On January 19, 2021, the District Manager met with David Roberts of NMR Architects to walk the proposed building project, outline the project, and solicit interest to submit a proposal. The District Manager has successfully met with two architect / engineering firms. Due to COVID-19, finding a third firm has been difficult to date. It was the hope of the District Manager to have the Board review proposals at this month's Board meeting. Also, on this date the Office Manager posted, published, and uploaded the annual public mosquito spraying notice which satisfies the requirements of the District's NPDES permit.

On January 20, 2021, the District Manager and Office Manager attended CalPERS informational webinar that reviewed CalPERS unfunded accrued liabilities, payoff strategies, and 115 trust. The webinar and information provided was extremely valuable. During the meeting, the District Manager and Office Manager will provide a more detailed report of what was learned and options that are available.

On January 22, 2021, the District Manager attended the biweekly MVCAC Legislative and Regulatory conference call. The meeting discussed pending and drafted legislative bills, the state budget, COVID-19 issues, and reviewed a few regulatory issues.

On January 26, 2021, all District present attended a free defensive driver training class virtually. Those employees that missed the training will attend in June when the training is repeated for new hires and seasonal employees.

On January 28, 2021, the District's management team commenced with interviews for the open positions of Mosquito and Vector Control Specialist.

All staff and several Members of the Board attended the MVCAC Annual Conference virtually on February 1, 2, and 3, 2021.

On February 4, 2021, the District's management team continued interviewing applicants for the open Mosquito and Vector Control Specialist positions.

## **COVID-19 UPDATE**

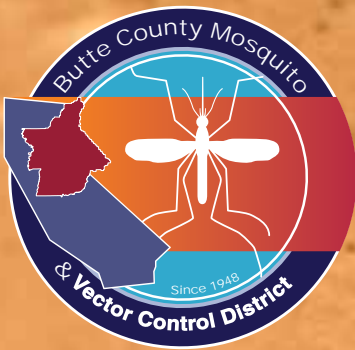
Currently, the District is still following all the procedures, protocols, and worker protection policies reported to the Board in April. The District offices are still closed to the public, but have 2 locations to pick up mosquitofish, answering any and all service requests, and providing all services as normal. District continues to be on good supply of personal protective equipment and sanitization products.

The District Manager continues to follow the Butte County Public Health Department's Public Health Officer's guidance and recommendations and is monitoring the Governor's daily press conferences. The District received detailed guidance for employers regarding COVID-19 infections and exposures. The District's current procedures and policies are in place to minimize the loss of the District's workforce.

The District has experienced employees missing work due to isolation/quarantine orders as well as COVID positive case(s). Due to the District's proper practices such as masks, sanitization efforts, and social distancing, no other employees have missed work due to workplace exposures as of today.

The Board will discuss COVID-19 moving forward, considerations such as the March Board Meeting, District office closure, and employee worker protection policies.

**BUTTE COUNTY MOSQUITO  
AND  
VECTOR CONTROL DISTRICT**



**2020 ANNUAL REPORT**



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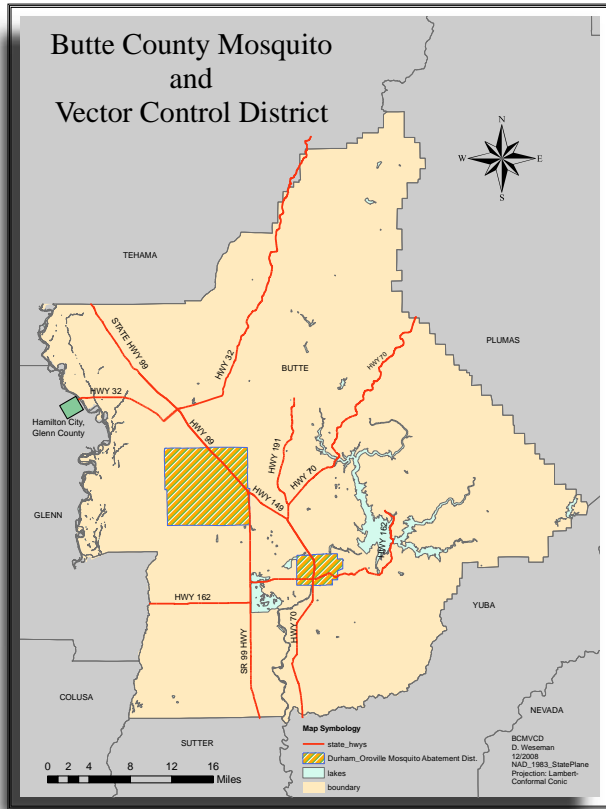
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\*On the cover, a 55 million year old mosquito fossil, found by the late District Entomologist, Eric Gohre.

## **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)

# BCMVCD JURISDICTION



# HISTORY

The Butte County Mosquito Abatement District was formed in June of 1948. The District covers 1600 square miles, and includes all of Butte County, except the small areas served by the Durham and Oroville Mosquito Abatement Districts, which were formed earlier. The District also includes the Hamilton City area of Glenn County. In April of 1994, "Vector Control" was added to the District name to reflect the additional disease surveillance and information now provided.



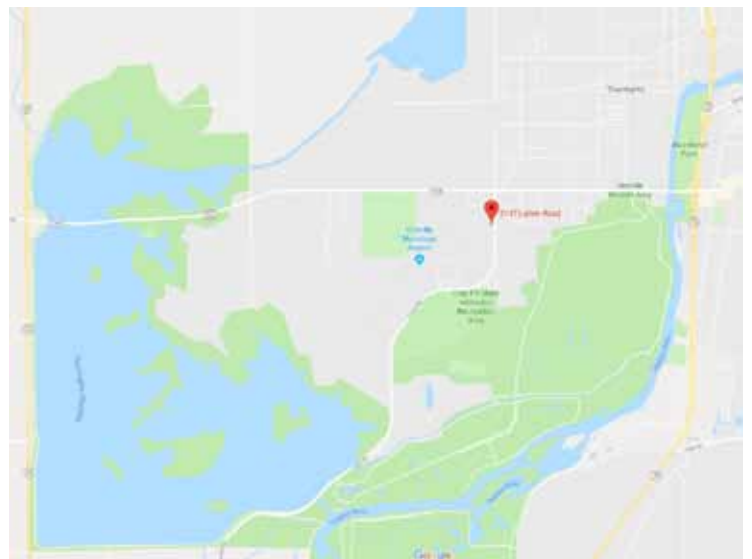
# MISSION

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



## **FOREWORD**

It is a privilege and my honor to submit the 2020 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 it's 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.

As most of you know, 2020 was not a normal year. COVID-19 and massive and seemingly endless wildfires plagued the state for most of the year. The District was deemed an essential service and continued to operate with minimal modifications as COVID shutdown most business and commerce. Wildfires hit close to home as District employees at times had to evacuate their homes, smoke impaired treatment operations, and hazardous air quality challenged the District's ability to continue to provide service. 2020 also delivered an unwelcome new species of mosquito to Butte County. For the first time in history, *Aedes aegypti*, a major public health concern, was collected and identified in Chico and Oroville. Through the challenges and pitfalls of 2020, the District was still able to perform the essential services the public we serve have come to rely on and responded to 1618 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. 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 surveillance and control of yellow jackets.

“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 for the future 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 [www.ButteMosquito.com](http://www.ButteMosquito.com) or call us at 530-533-6038 or 530-342-7350.

Respectfully,



## **STAFF**

Left to right: Eric Dillard, MVCS; Glen Williams, MVCS; Shane Robertson, MVCS; Don Lasik, MVCS; Beth Vice, MVCS; Aaron Goff, MVCS; Phillip Henry, MVCS; Shane Cassity, MVCS. Not pictured: Del Boyd, Pilot 2; Charlie Favilla, MVCS. (MVCS: Mosquito and Vector Control Specialist, licensed by the California Department of Public Health).



## **ADMINISTRATIVE STAFF**

Left to right: Maritza Sandoval, Office Manager; Doug Weseman, Assistant Manager; Matt Ball, District Manager; Aaron Lumsden, Regional Supervisor; Ryan Rothenwander, Fish Biologist/Vector Ecologist. Not Pictured: Amanda Bradford, Entomologist; Edith Del Rio, Office Assistant.

## MOSQUITO BIOLOGY

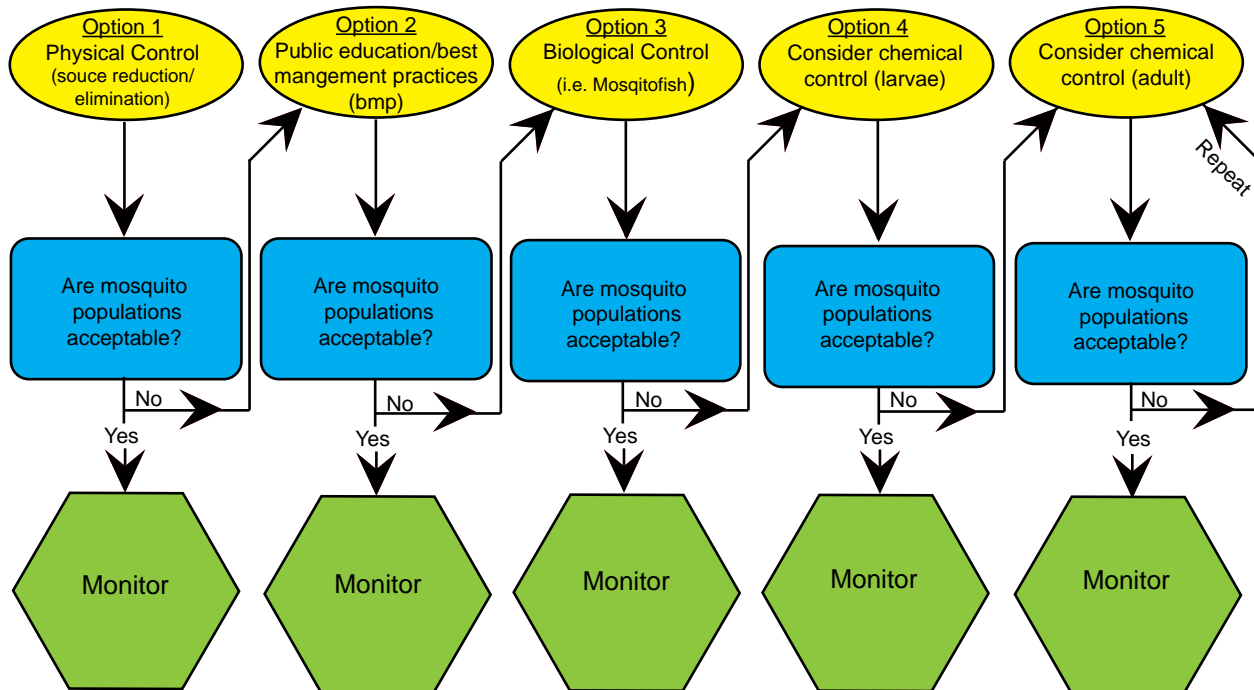
There are approximately 3,500 species of mosquitoes distributed worldwide. In California there are 53 species of mosquitoes and 25 of these are commonly found in Butte County. Mosquitoes, like other animals, must have water, food and some protection from the elements to survive. Mosquitoes undergo complete metamorphosis with four different life stages, egg, larva, pupa, and adult. Mosquito eggs and pupa are unable to feed. Larvae and adults however must feed to survive. Adult female mosquitoes need a blood meal to produce eggs, while adult male mosquitoes feed on plant nectar and juices. The time it takes for a mosquito to develop from an egg to an adult varies with different species and environments. Generally, it takes 3-5 days under optimal conditions for a mosquito to complete it's life cycle. The adult then lives between three weeks and one year. Some egg species have been known to survive for over fifty years. Female mosquitoes can have up to three or four broods of eggs in their lifetime.



# INTEGRATED VECTOR MANAGEMENT (IVM) PROGRAM

Integrated Vector Management (IVM) is an effective and environmentally sensitive approach to vector management that relies on a combination of common sense practices. The District's IVM program uses current, comprehensive information on the life cycles of vectors and their interaction with the environment. This information, in combination with available vector control methods, is used to manage vector 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 IVM program includes public education/best management practices, physical control (source reduction and/or elimination), biological control, chemical control, and monitoring.

Each time one of the District's state certified Mosquito and Vector Control Specialists locates a mosquito breeding source the site is accessed and the flow chart below is followed. If the mosquito breeding source can be eliminated then the flow chart stops and the source is monitored.



Sorting Mosquitoes



Identifying Ticks

## **PHYSICAL CONTROL / SOURCE REDUCTION AND/OR ELIMINATION**

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.



*Using Agrosoke to fill a tree hole*

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

The District's mission is to protect residents from mosquitoes and other vectors that transmit disease. Public education and information is an important part in 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 public education and outreach 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 (BMP) to Reduce Mosquitoes 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's contained in the manual are 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 [www.ButteMosquito.com](http://www.ButteMosquito.com). The manual has successfully been used to reduce mosquito populations/public health threats without the need of additional pesticides.

## 2020 PUBLIC EDUCATION HIGHLIGHTS

2020 proved to be a difficult year for the public education department. Every fair and special day event, that the District has historically attended, were cancelled. All classroom presentations ended up being cancelled too.

The District was able to continue its billboard campaign and once again partnered with Stott Advertising. The 2020 slogan was “Fight The Bite!” The eight billboards rotated throughout the county and ran from May through September.

With the detection of *Aedes aegypti* mosquitoes in Chico and Oroville in 2020, the District created new 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 5,297 mailers in Chico and 2,953 in 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 in Chico and ran a new television public service announcement (PSA). The PSA ran from June through the end of September.

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

Newsprint advertising with the Chico Enterprise Record and the Chico News and Review ran from July through September.

The District believes that through public education, people learn the importance of avoiding/preventing mosquito bites. If a person can avoid getting bit by a mosquito, they can avoid getting a mosquito-borne illness. Some of the ways the District suggests that residents prevent mosquito bites is by staying inside at dusk and dawn when mosquitoes are most active, wearing repellent and/or 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 possible mosquito breeding sources, and drain any unnecessary standing water.

**COMMON INVASIVE MOSQUITO BREEDING SOURCES**

Invasive mosquitoes are commonly found in urban, suburban, and rural areas, as well as edges of forested areas.

Backyards are the #1 source for mosquito production. Anything that can hold water for more than a few days has the ability to produce mosquitoes. Common sources include:

- Flower Pots
- Tree Holes
- Discarded Tires
- Water Bowls for Pets
- Plant Saucers
- Hollow Bamboo Stumps
- Buckets
- Ponds
- Tin Cans
- Plants' Leaf Axils
- Bird Baths
- Rain Barrels
- Clogged Rain Gutters
- Ornamental Fountains

**MAINTAIN, MANAGE or ELIMINATE** all types of standing water on a regular basis. Keep in mind that mosquitoes need very little water to complete their life cycle; therefore some areas may not be as obvious as others. For example, discarded bottle caps, empty cans, bottles, sprinkler heads, etc.

Plant saucers      Buckets

Rain barrels      Septic tanks

Toys      Pet bowls

Cemetery vases      Treeholes

Bird baths      Wheelbarrows

Tires

Plant axils are where leaf meets stem

**Butte County Mosquito & Vector Control District**  
Since 1948

The District covers over 1600 square miles, and includes all of Butte County, except the small areas served by the Durham and Oroville Mosquito Abatement Districts, which were formed earlier. The District also includes the Hamilton City area of Glenn County. In April of 1994, "Vector Control" was added to the District name to reflect the additional disease surveillance and information now provided.

**OUR MISSION**

The mission of BCMVCD 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.

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(530) 533-6038  
www.buttemosquito.com

**INVASIVE MOSQUITO SPECIES OF CALIFORNIA**

New Invasive Mosquito Species Brochure.



# 2020 PUBLIC EDUCATION HIGHLIGHTS

- Billboard Advertising (Throughout the County)
- Chico News and Review, Chico Enterprise Record, Print Advertising
- Television Public Service Announcement (Action News Now)
- Print, Radio, and Television Interviews
- Radio Advertising with Deer Creek Broadcasting and Radio Chico
- New Invasive Aedes Brochures
- New Invasive Aedes Door Hangers

**Butte County Mosquito & Vector Control District**  
5117 Larkin Road  
Oroville, CA 95965  
(530) 533-6038  
Monday-Thursday  
6:00am to 4:30pm

**PUBLIC HEALTH WARNING**

**REPORT DAY-BITING MOSQUITOES!**  
Please call the District at (530) 533-6038  
**AEDES AEGYPTI** (Yellow Fever mosquito)

**Actual Size: About 1/4 inch long**

**WHY THE CONCERN?**  
*Aedes aegypti* is an invasive mosquito in California. It can be a major annoyance and a public health threat, potentially capable of transmitting several diseases including Zika, dengue, and chikungunya.

**FACTS: Invasive Aedes 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. The eggs are resistant to drying out and can survive for many months until water covers them.

**REPORT DAY-BITING MOSQUITOES**  
call the District at (530) 533-6038  
*There is no charge for District services.*

[www.buttemosquito.com](http://www.buttemosquito.com)

*New Aedes Aegypti Door Hanger*

**Butte County Mosquito & Vector Control District**  
5117 Larkin Road  
Oroville, CA 95965  
(530) 533-6038  
Monday-Thursday  
6:00am to 4:30pm

**MOSQUITO INSPECTION REPORT**

Date/Time \_\_\_\_\_ Technician \_\_\_\_\_  
Site # \_\_\_\_\_

PLEASE CALL THE DISTRICT TO SCHEDULE AN INSPECTION  
 We were unable to inspect your property.  
 We inspected your property.

Comments: \_\_\_\_\_

**MOSQUITO BREEDING SOURCES THAT NEED YOUR ATTENTION:**

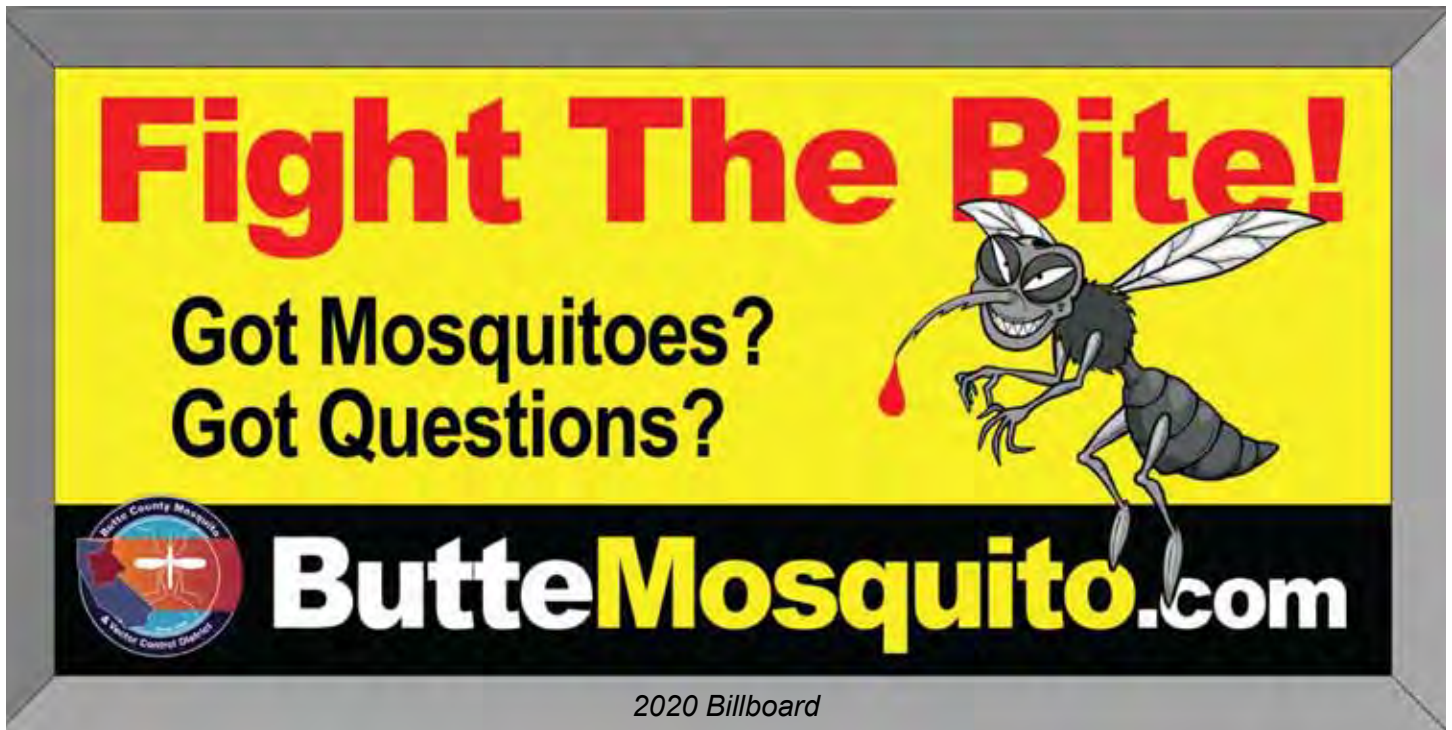
- Remove saucers under plants
- Cover bins, buckets, and tubs with fitted lids
- Remove old tires and miscellaneous containers from yard
- Fill rims of pots with sand
- Re-direct sprinklers so containers are not filled
- Keep recyclables in covered container(s) that drain
- Properly modify (screen) or remove rain barrels
- Empty birdbaths/fountains (every 3 days)
- Empty/refill pet drinking water (every 3 days)
- Clean outdoor rain gutters and drains in yard
- Remove plants that hold water in yard
- Keep potential sources dry when not in use

Plant saucers	Buckets	Bird baths
Rain barrels	Septic tanks	Tires
Toys left outside	Pet bowls outside	Wheelbarrow
Plant axils where leaf meets stem	Treeholes	Ceremonial vases

**PREVENT MOSQUITO BITES**  
Use an effective repellent containing DEET, picaridin, IR3535, or oil of lemon eucalyptus when outdoors. Please follow label instructions.

[www.buttemosquito.com](http://www.buttemosquito.com)

## PUBLIC EDUCATION



**Fight The Bite!**

Got Mosquitoes?  
Got Questions?

**ButteMosquito.com**

2020 Billboard

### 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



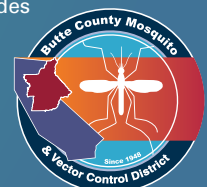
Actual Size: About ¼ inch long

#### 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.



[www.buttemosquito.com](http://www.buttemosquito.com)

## GIS/GPS SYSTEM

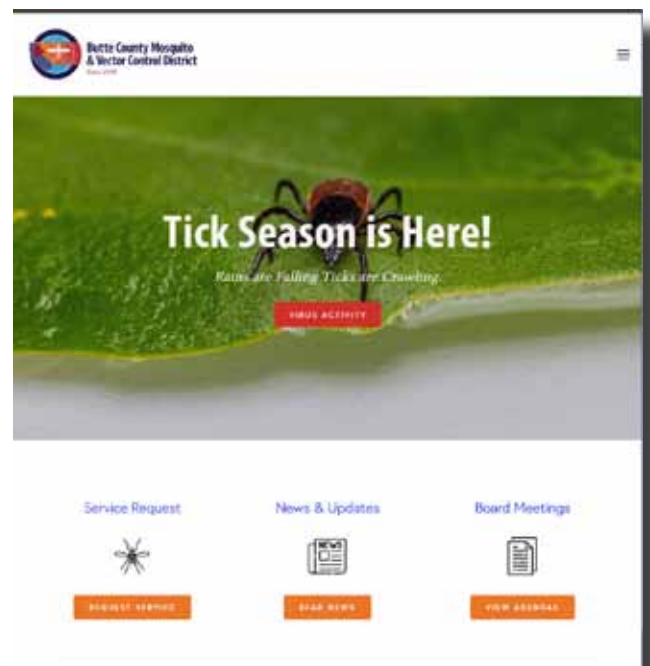
The District continues to use the new Geographical Information System (GIS) that first went live in 2018. The new system, MapVision®, is a geospatial web-based data management system. Every workflow associated with each department within a vector control agency is automated, streamlined and results in 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 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.

### ***WWW.BUTTEMOSQUITO.COM***

2020 marked the year of the new website for the District. The old website lasted 12 years, but with ever-changing technology and new regulations, this dictated the need for the new website. On the new 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, as well as, 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 MSDS sheets for the public health pesticides that it uses, as well as, a frequently asked questions page and a “contact us” page.



*Mapvision Screen Shot*



*New District Website Home Page*

# EMAIL NOTIFICATION SYSTEM

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, 30 plus 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 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 fogging notifications, as well as 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.



## MOSQUITO FOGGING NOTIFICATION

Mosquito Fogging will take place on 09/24/2020 in the Nelson, Richvale and Thermalito areas. Please see the attached map(s) for detailed information. If you are unable to open or view the map(s) because of browser, memory space, or software problems please see the same map(s) at our website at [www.buttemosquito.com](http://www.buttemosquito.com). The fogging will take place from approximately Sunset to 11:00 PM. Fogging operations may be cancelled due to unfavorable weather conditions.

Product(s) used in these areas will be Duet and/or Perm-X UL 4-4

Links To Duet:

[Label](#)

[SDS](#)

Additional information can be obtained by viewing the manufacturers website at:

[Clarke Mosquito Control](#)

For more information please call the Butte County Mosquito and Vector Control District at (530) 533-6038 (from Oroville, Richvale, Biggs, Gridley, Berry Creek) or (530) 342-7350 (from Chico, Paradise, Cohasset, Forest Ranch) or visit [www.BCMVCD.com](http://www.BCMVCD.com)

As a reminder, the District has a FREE Mosquitofish program. FREE Mosquitofish are available for pick up in the following communities; (1) Concow, (3) Paradise, (1) Magalia, (1) Hamilton City, (1) Gridley, (3) Chico. Additionally FREE Mosquitofish can be picked up by appointment at the District's Chico substation at 444 Otterson Drive or any time during business hours at the District's main office located at 5117 Larkin Road in Oroville. Also, Mosquitofish can be delivered to you just by visiting the District's website or by calling the District office. For more information, locations of the FREE mosquitofish pickup locations, and/or delivery of FREE Mosquitofish, please contact us at 530-533-6038 or 530-342-7350 visit the District website at [www.BCMVCD.com](http://www.BCMVCD.com)

MOSQUITOFISH ARE ONLY TO BE USED ON PRIVATE PROPERTY and ARE NOT TO BE PLANTED IN CREEKS, STREAMS, RIVERS, and LAKES.

## SUSPECTED MOQUITO-BREEDING

Should you observe and/or see a water source that you believe or could produce mosquitoes, please call us at 530-533-6038 or 530-342-7350 or visit [www.BCMVCD.com](http://www.BCMVCD.com). Reporters of suspected mosquito-breeding sources have the option to remain anonymous.

Butte County Mosquito and Vector Control District  
(530) 533-6038, (530) 342-7350 | [www.BCMVCD.com](http://www.BCMVCD.com)

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

SafeUnsubscribe™ [deweseman@att.net](mailto:deweseman@att.net)

Forward this email | Update Profile | About our service provider

Sent by [bcmvcd\\_notify@att.net](mailto:bcmvcd_notify@att.net) in collaboration with

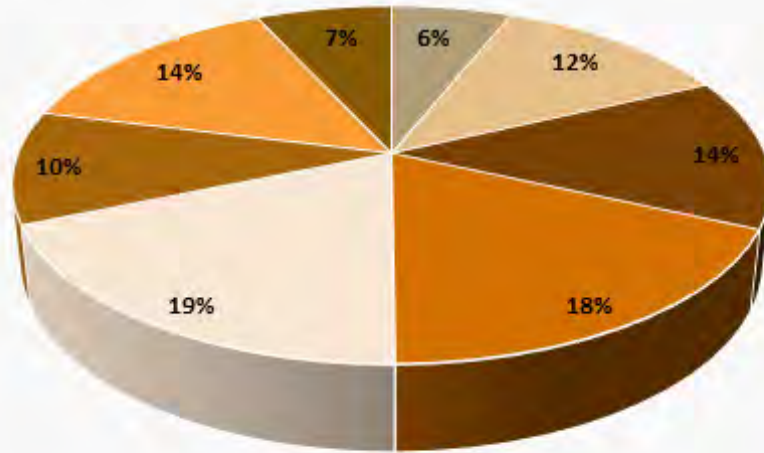
Constant Contact

Try it free today

Example of Constant Contact Email Notification

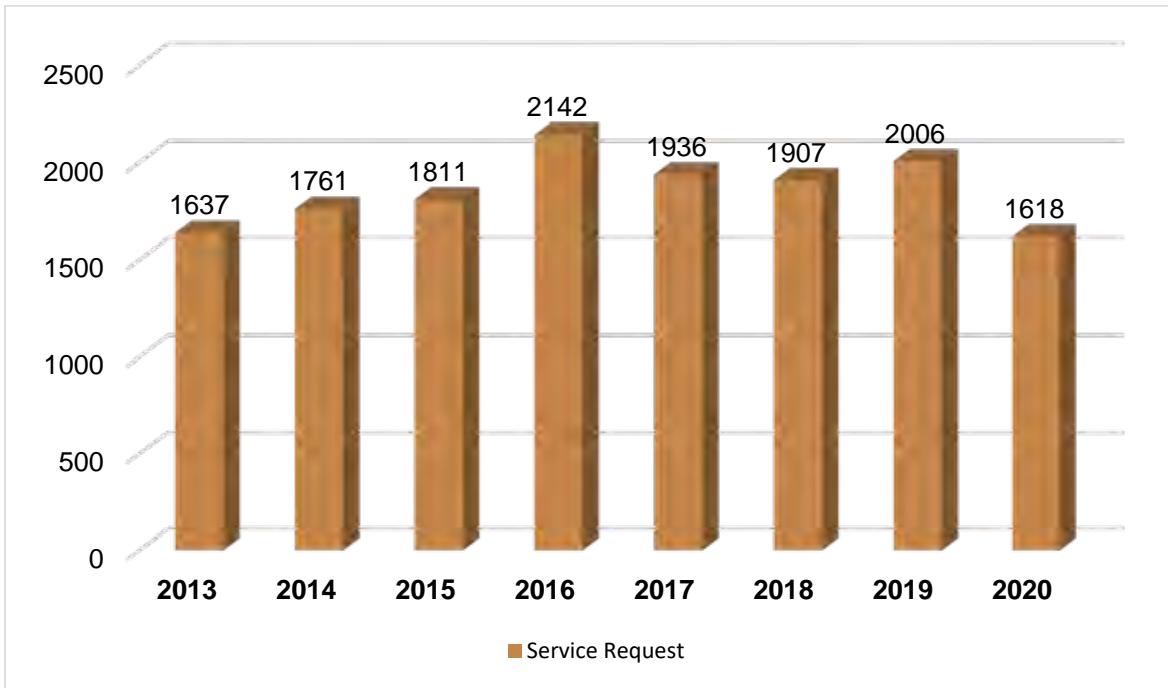
## 2020 SERVICE REQUEST PERCENTAGES

- Berry Creek
- Biggs
- Chico
- Gridley
- Magalia
- Oroville
- Paradise
- Other

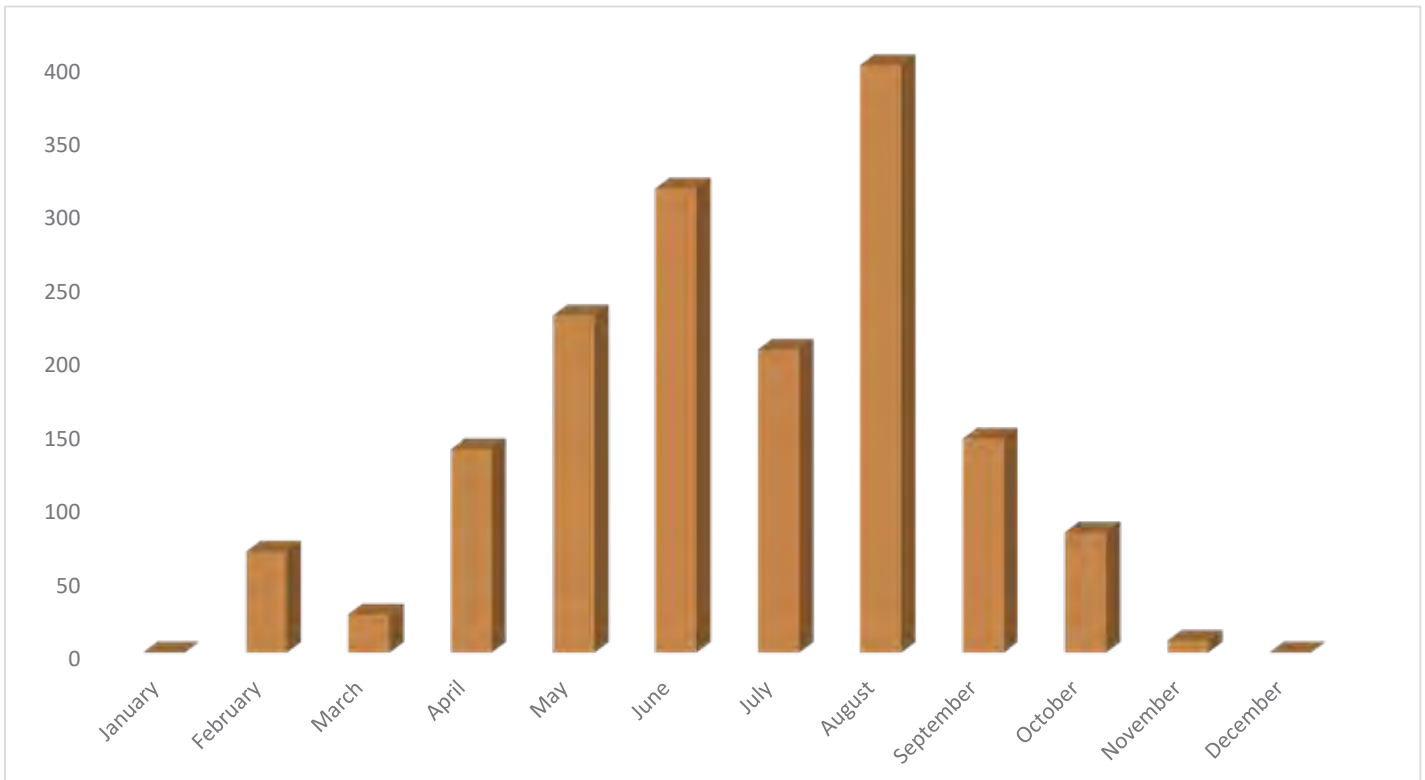


Area	Number of Service Requests	Percentages
Bangor	2	0.12%
Berry Creek	98	6.06%
Biggs	194	11.99%
Brush Creek	2	0.12%
Butte Valley	3	0.19%
Chico	221	13.66%
Clipper Mills	1	0.06%
Cohasset	6	0.37%
Concow	1	0.06%
Dayton	1	0.06%
Durham	6	0.37%
East Biggs	12	0.74%
Forbestown	22	1.36%
Forest Ranch	19	1.17%
Gridley	294	18.17%
Hamilton City	1	0.06%
Magalia	304	18.79%
Marysville (zone 10 & 14 )	7	0.43%
Oroville	165	10.20%
Palermo	1	0.06%
Paradise	231	14.28%
Richvale	23	1.42%
Stirling City	4	0.25%
<b>Totals</b>	<b>1,618</b>	<b>100%</b>

## 2020 ANNUAL SERVICE REQUESTS



## 2020 SERVICE REQUESTS BY MONTH



## **VECTOR AND VECTOR-BORNE 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 (IVM) 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 for locating vector populations usually 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 collaborated in the District's database which provides historical information on mosquito dynamics and mosquito-borne disease within the District.

The District utilizes an extensive surveillance program for both adult and immature (larval) mosquitoes. Throughout Butte County and the Hamilton City area of Glenn County, the District uses 28 New Jersey light traps, 31 gravid traps, over 40 CO<sub>2</sub> traps, and 7 sentinel chicken flocks to monitor adult mosquito populations and virus activity. District Mosquito and Vector Control Specialists monitor larval mosquito populations throughout the entire District on a daily basis utilizing a standard one-pint dipper. District Mosquito and Vector Control Specialists 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.

The District utilizes 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 wild 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.



*Gravid Trap*



*Entomologist Eric Gohre Checking a CO<sub>2</sub> Trap*

# VIRUS SURVEILLANCE

## 2020 VIRUS SURVEILLANCE REPORT

The District monitors for Western equine encephalitis (WEE), St. Louis encephalitis (SLE), California encephalitis (CE), and West Nile virus (WNV) activity by collecting blood samples from sentinel chicken flocks strategically placed throughout the District, collecting live mosquitoes trapped throughout the District, and collecting dead wild birds District wide.

### SENTINEL CHICKEN FLOCKS

Annually the District maintains seven sentinel chicken flocks of six birds each. 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 U.C. Davis for testing. The blood sample is tested for SLE, WEE, CE and WNV. In 2020, 23 of the 42 sentinel chickens from all 7 District flocks tested positive for WNV.



Sentinel Chickens



Building a New Chicken Coop

### MOSQUITO POOLS

Each week the District's entomology staff strategically places traps known as encephalitis virus surveillance (EVS) or carbon dioxide traps (CO2) around the District. Traps are posted overnight and retrieved the next morning and the collections are returned to the Lab for identification. 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 specie. Pooled mosquitoes are transferred to numbered vials and sent to the Center for Vector-Borne Disease Research (CVBDR) at the University of California, Davis. At the CVBDR lab the pools are tested for WEE, SLE, CE, and WNV. In 2020 the District sent a record setting 481 mosquito pool samples with 31 returning positive for WNV.

### DEAD BIRD SURVEILLANCE AND TESTING

For more than ten years 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) each time they find a dead bird in the District or by submitting an online form at one of these two websites, [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.

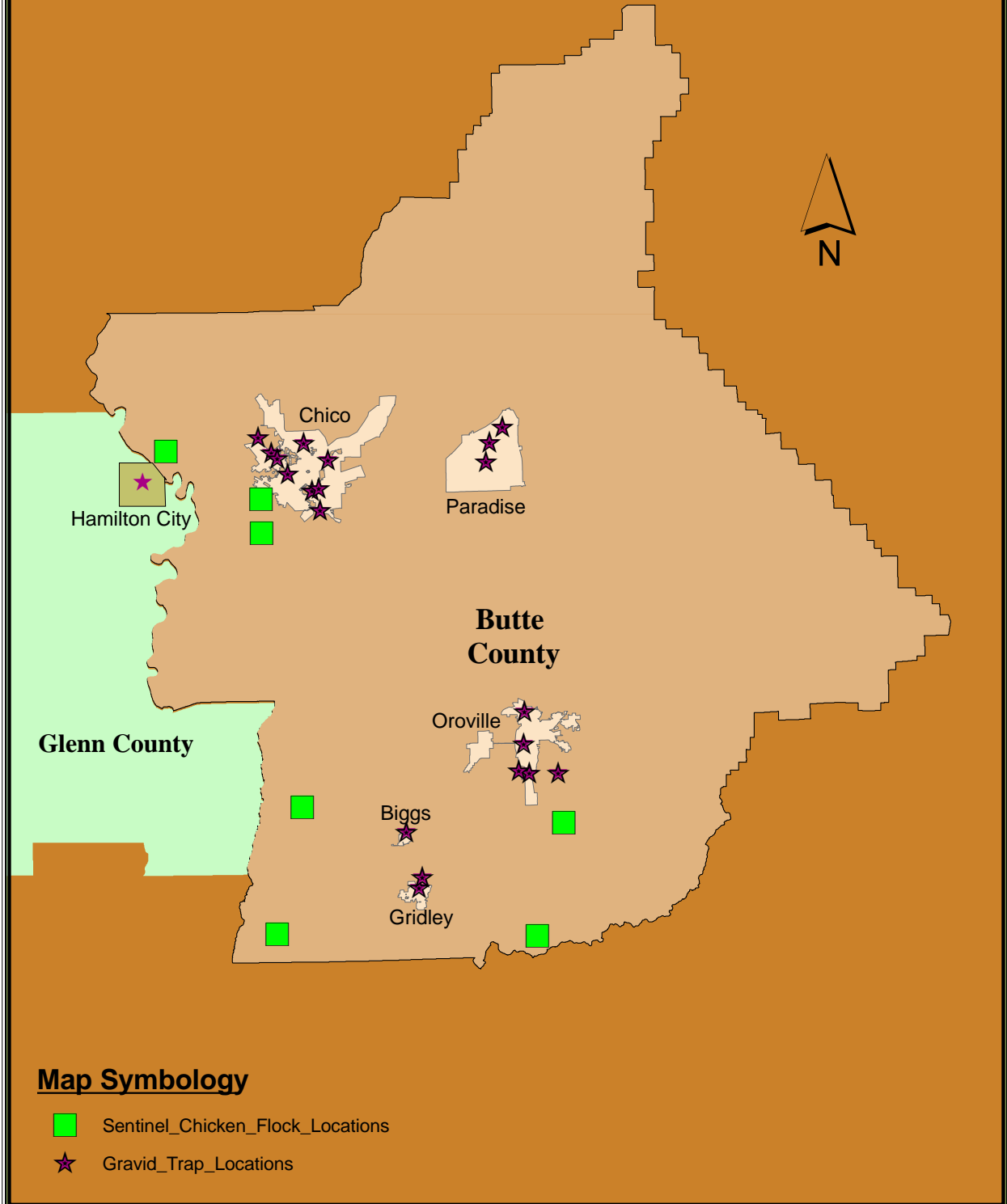


	Humans	Horses	Dead Birds	Dead Squirrels	Mosquito Pools	Sentinel Chickens
2004	7	18	118	0	1	50
2005	25	7	79	0	4	15
2006	34	0	40	1	1	49
2007	16	0	27	0	5	32
2008	6	0	38	0	5	31
2009	2	0	13	0	5	36
2010	1	1	6	1	7	7
2011	3	0	0	0	1	20
2012	10	2	53	2	27	43
2013	24	0	42	1	38	57
2014	25	0	22	0	43	37
2015	55	0	38	0	101	37
2016	21	0	22	0	48	38
2017	3	0	5	0	49	31
2018	12	0	4	0	49	37
2019	5	0	1	0	45	34
2020	4	1	4	0	31	23
<b>Totals</b>	<b>253</b>	<b>29</b>	<b>512</b>	<b>5</b>	<b>460</b>	<b>577</b>

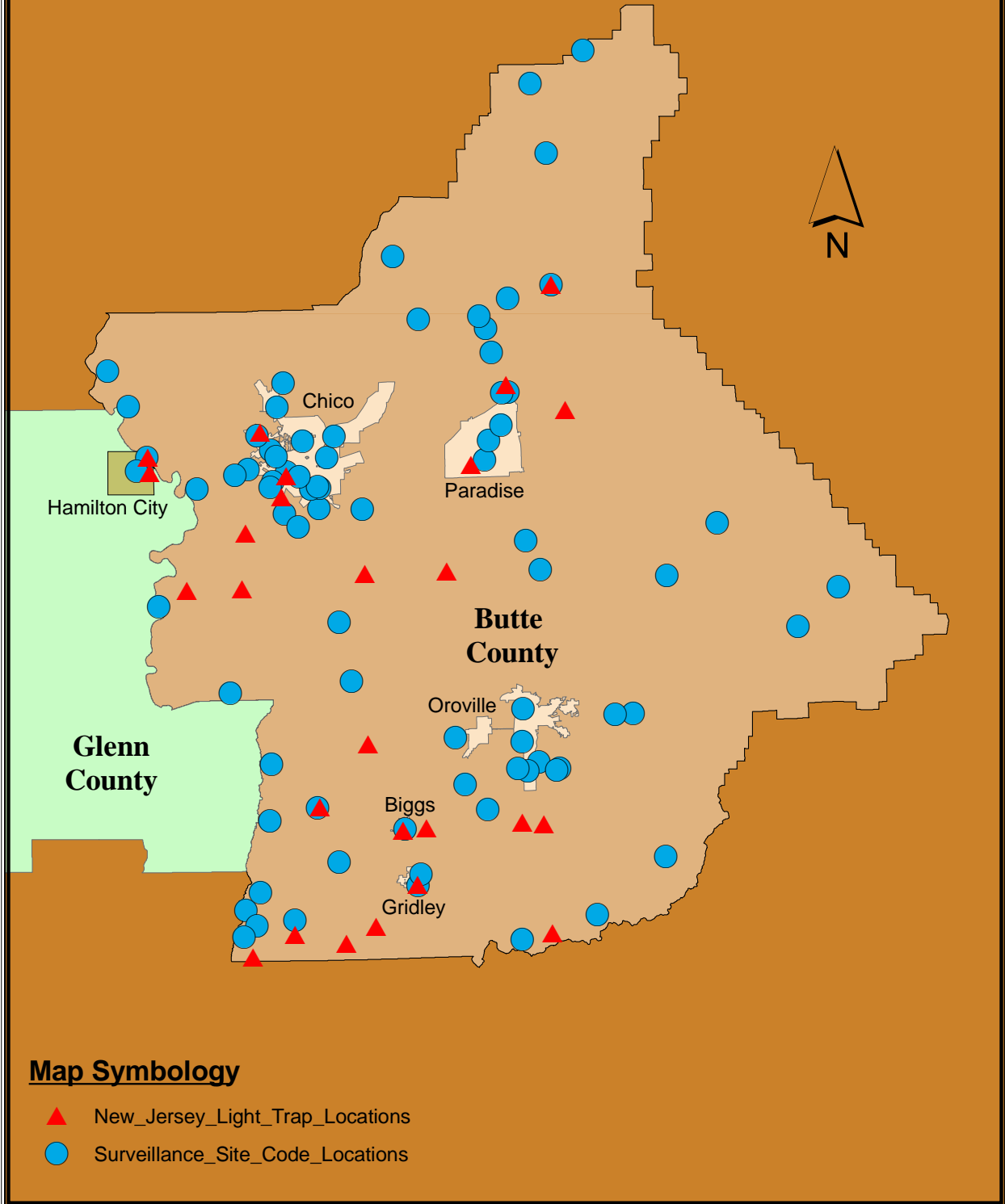
\*See detection maps on pages 24 & 25



# BCMVC D Sentinel Chicken Flock Locations and Gravid Trap Locations

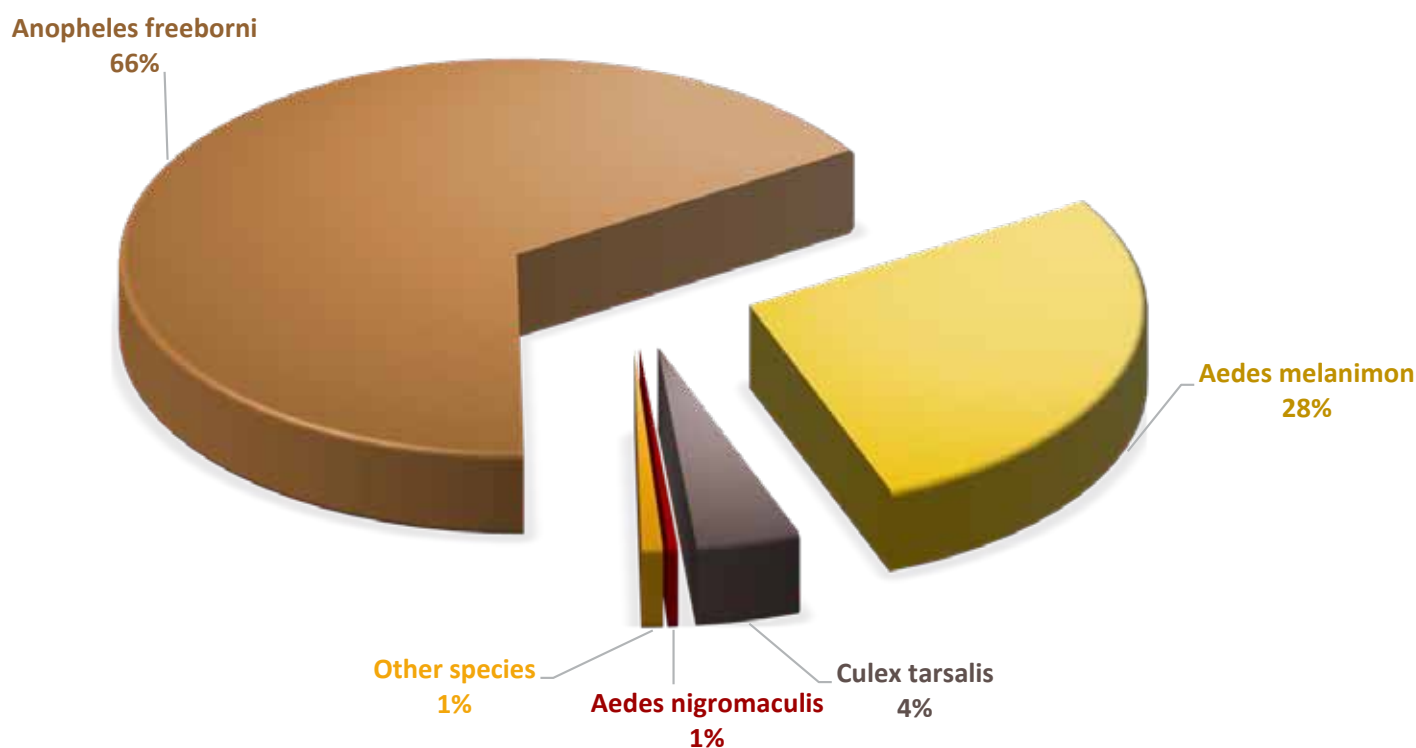


# BCMVC D New Jersey Light Trap Locations and Surveillance Site Code Locations



## 2020 NEW JERSEY LIGHT TRAP COLLECTIONS (FEMALES ONLY) MARCH 2020 - NOVEMBER 2020

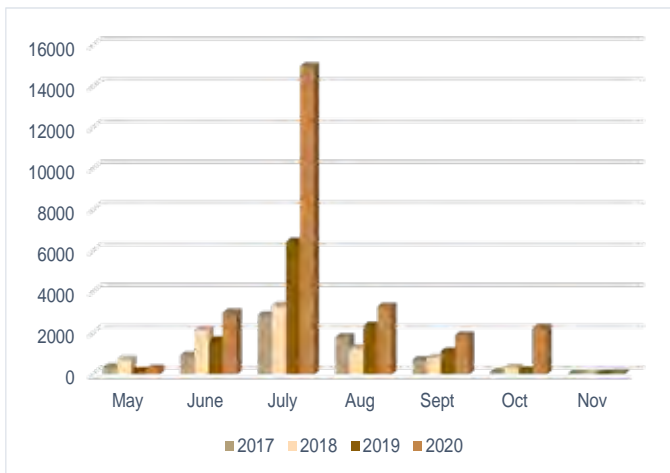
Ranking	Mosquito Species	Number Collected	% (Rounded)
1	<i>Anopheles freeborni</i>	484,908	66%
2	<i>Aedes melanimon</i>	205,378	28%
3	<i>Culex tarsalis</i>	31,080	4%
4	<i>Aedes nigromaculis</i>	2,888	<1%
5	<i>Culex pipiens</i>	2,097	<1%
6	<i>Culiseta inornata</i>	1,974	<1%
7	<i>Aedes vexans</i>	1,909	<1%
8	<i>Culiseta incidens</i>	198	<1%
9	<i>Aedes sierrensis</i>	74	<1%
10	<i>Culex stigmatosoma</i>	62	<1%
11	<i>Anopheles franciscanus</i>	4	<1%
	<b>Total Identified</b>	<b>730,572</b>	<b>100.00%</b>



# NEW JERSEY LIGHT TRAP SEASONAL FLUCTUATION OF VECTOR-BORNE DISEASE VECTORS

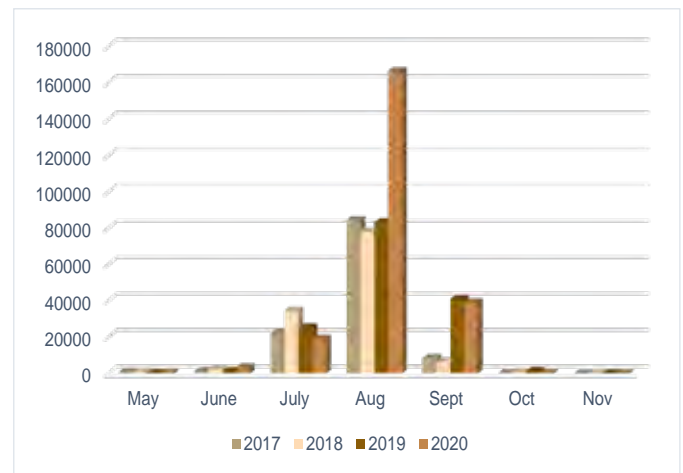
## CULEX TARSALIS

Culex tarsalis



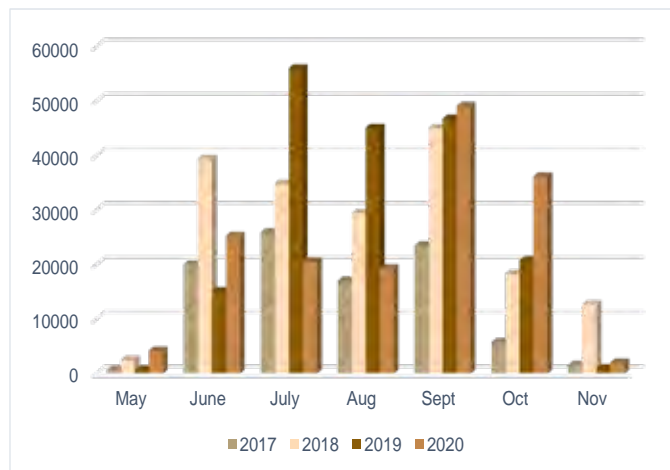
## ANOPHELES FREEBORNI

Anopheles freeborni



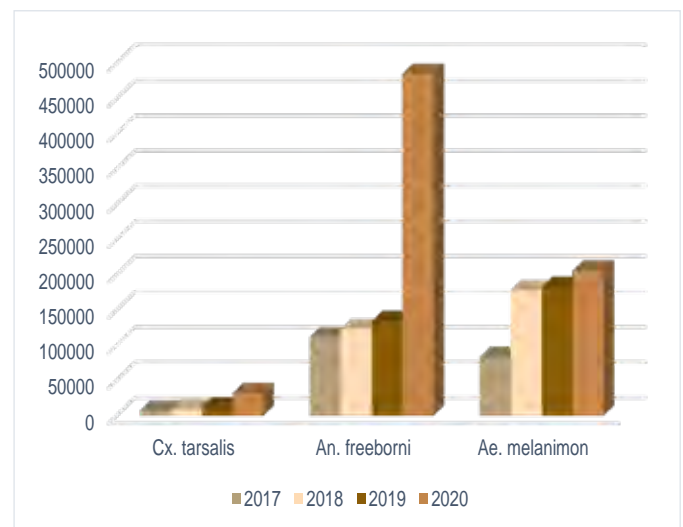
## AEDES MELANIMON

Aedes melanimon

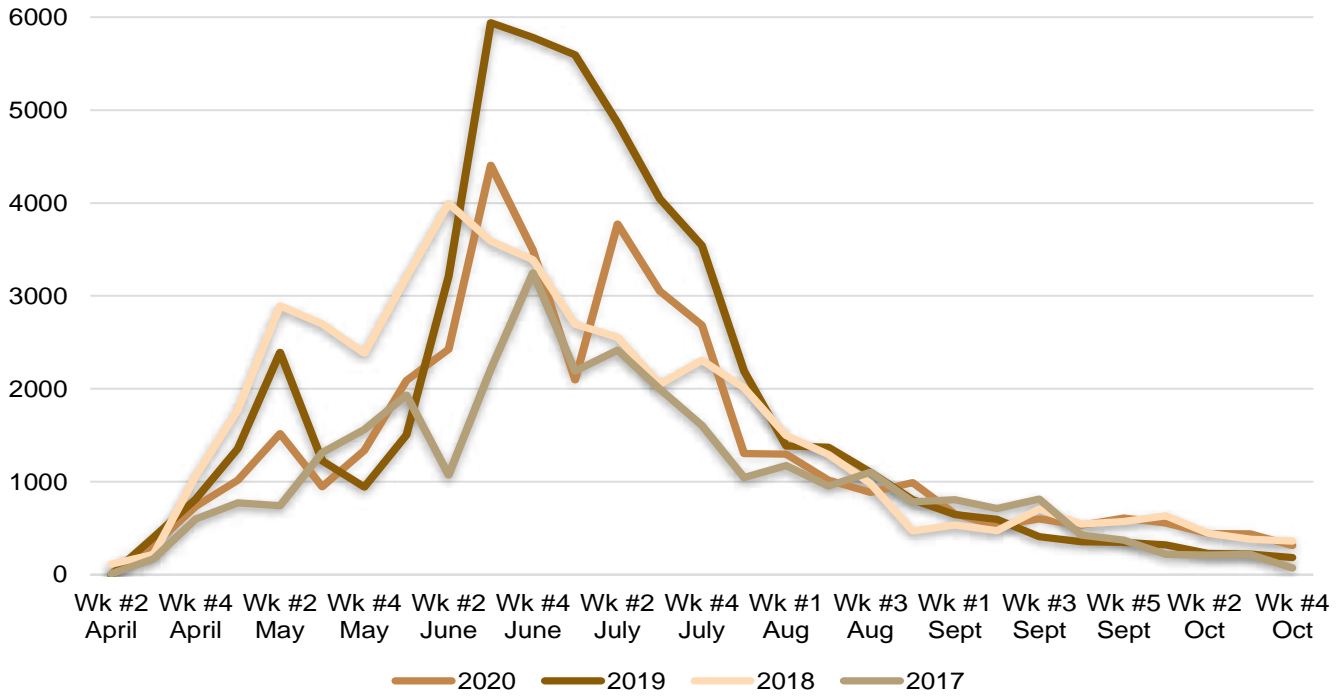


## ANNUAL TOTAL FEMALE MOSQUITOES

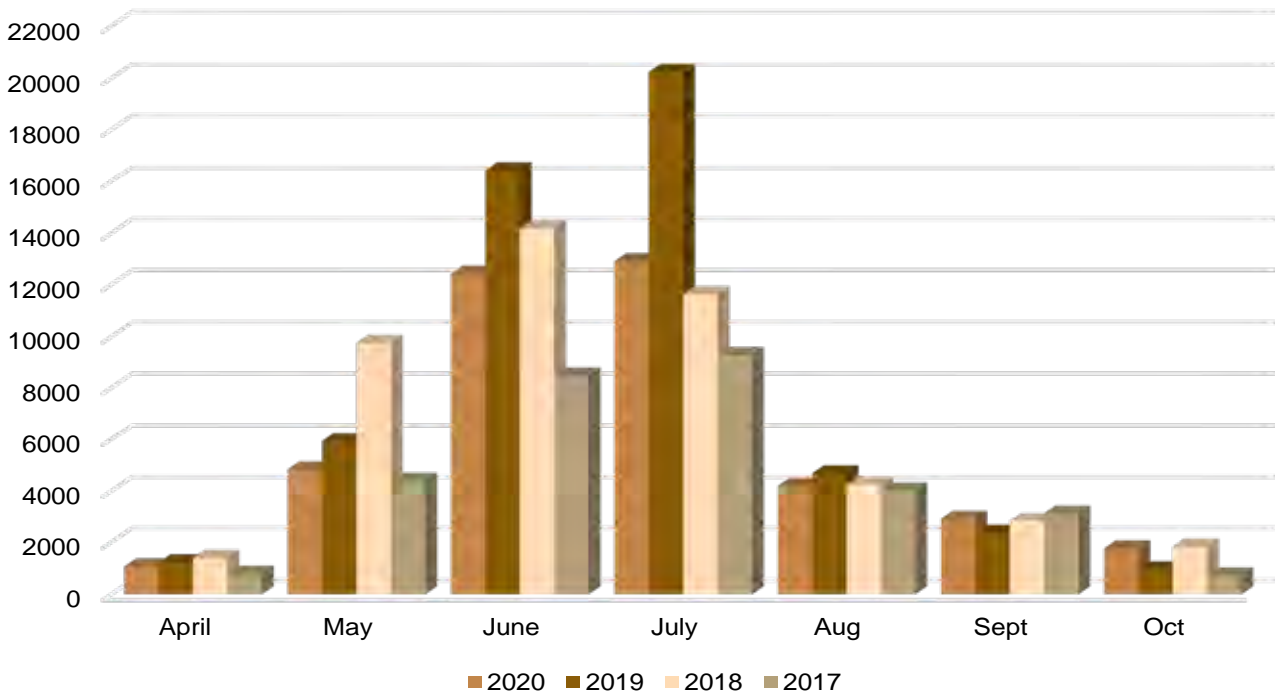
Annual Total Female Mosquitoes



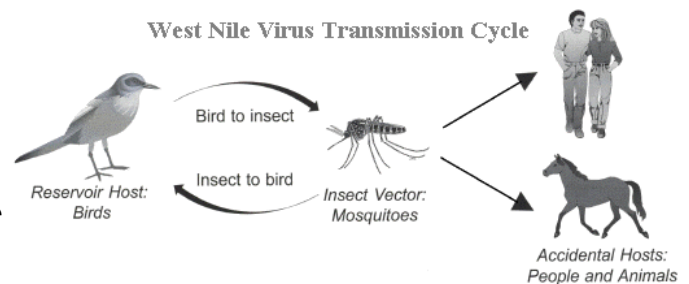
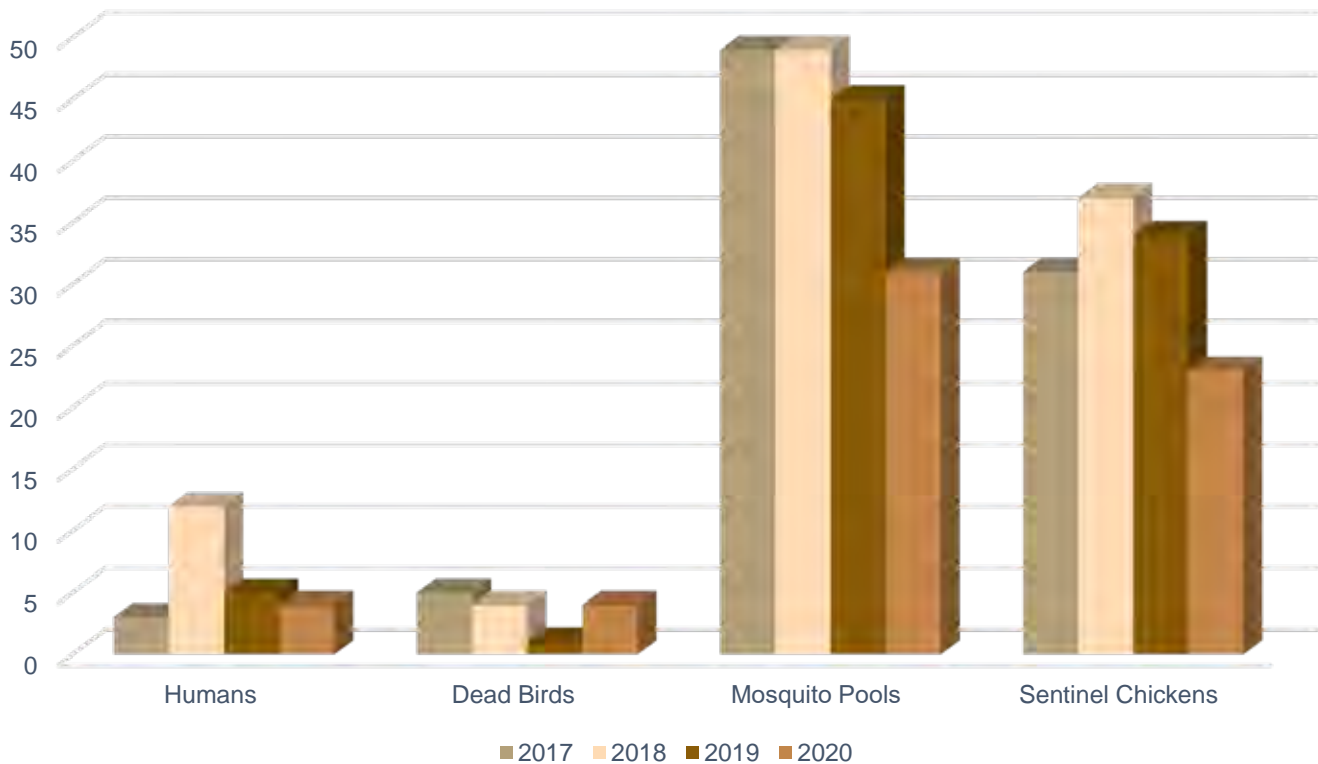
## GRAVID TRAP FLUCTUATION BY WEEK



## GRAVID TRAP FLUCTUATION BY MONTH



## 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

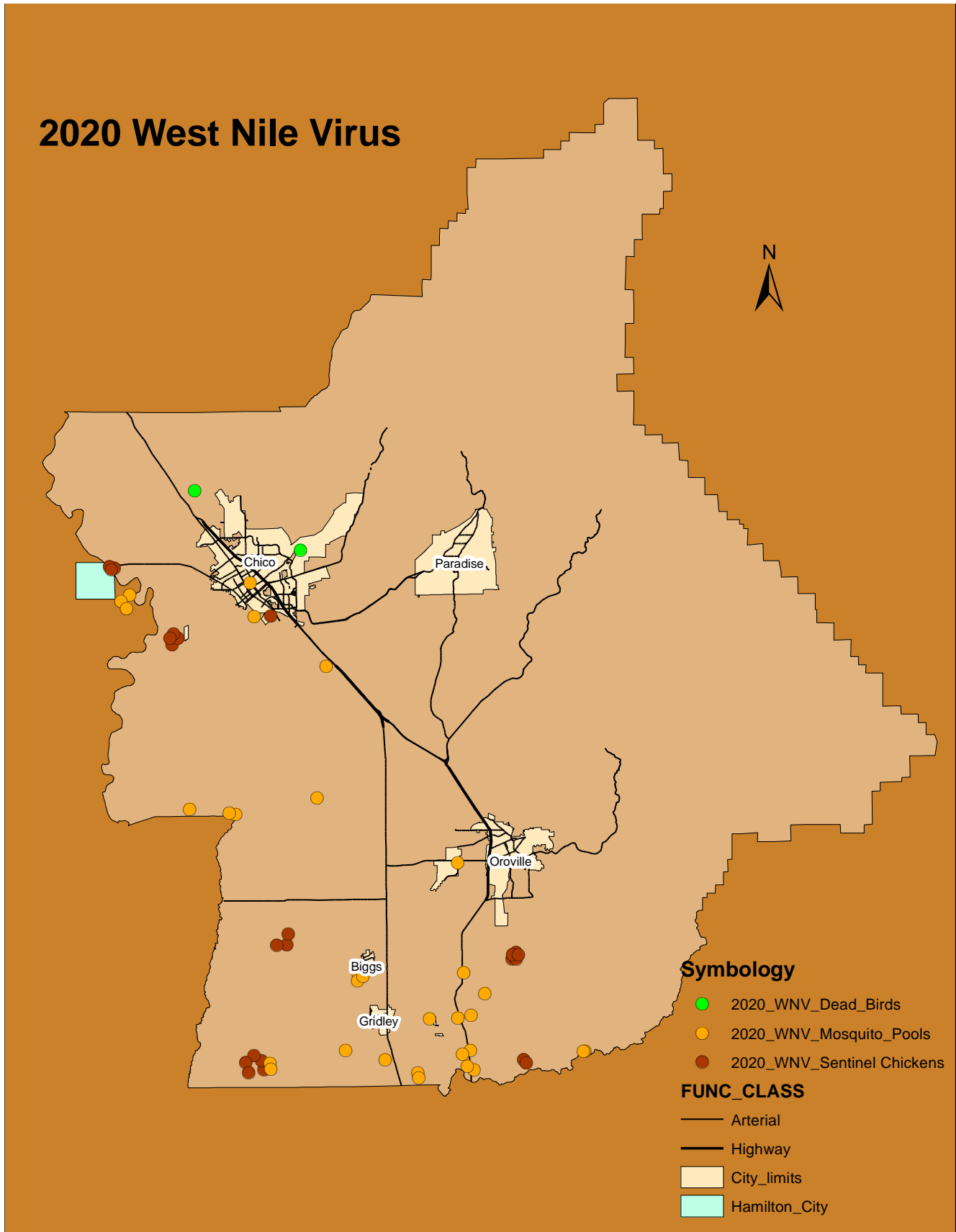
Up to 20 percent of the people who become infected will display symptoms including fever, headache and/or body aches, nausea, vomiting, and sometimes swollen lymph glands or a rash on the chest, stomach, and back. Symptoms can last as little as a few days to several weeks.

### NO SYMPTOMS IN MOST PEOPLE

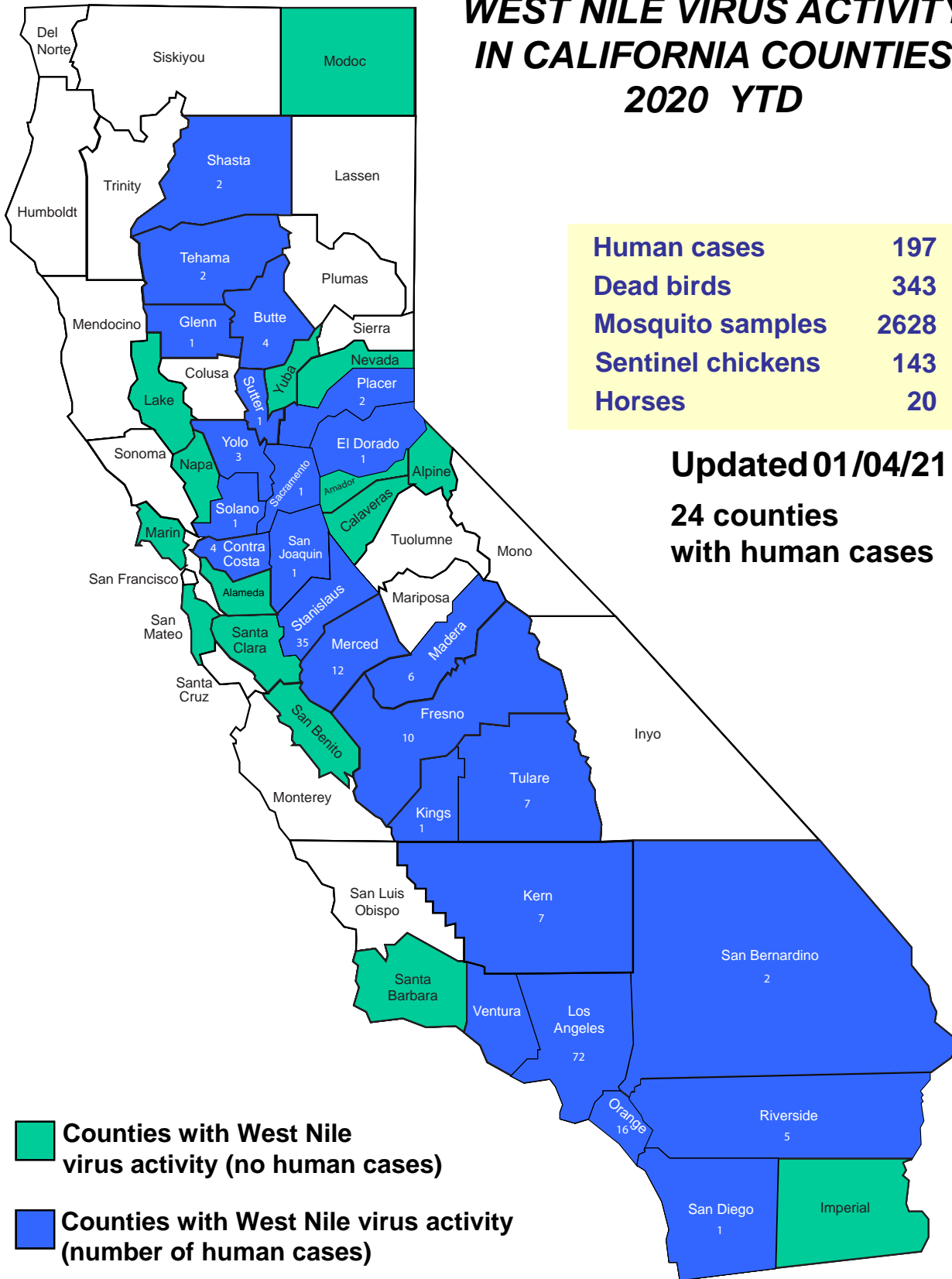
Approximately 80 percent of people (about 4 out of 5) who are infected with WNV will not have any symptoms at all.

# 2020 BUTTE COUNTY WEST NILE VIRUS MAP

## 2020 West Nile Virus



# WEST NILE VIRUS ACTIVITY IN CALIFORNIA COUNTIES 2020 YTD





## **BIOLOGICAL CONTROL**

Biological control is the intentional use of mosquito pathogens, parasites or predators to reduce the size of target mosquito populations to tolerable levels. The most popular and successful biological tool that is used by the District is the mosquitofish, *Gambusia affinis*. The District has tried other biological control methods and will continue to fully explore any new options that come along, but the most effective biological tool the District currently uses is the mosquitofish. Butte County Mosquito and Vector Control District maintains five fishponds at the Oroville Headquarters. These ponds produce hundreds of pounds of mosquitofish each year. The mosquitofish are routinely stocked and planted by District Mosquito and Vector Control Specialists 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, and at times in 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, 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.

### **FISH PLANTS 2020**

<b>Zone</b>	<b>Amount</b>	<b>Acres</b>	<b>Applications</b>
Zone 1	27.377	54.754	278
Zone 3	8.481	16.962	69
Zone 4	1.1	2.2	5
Zone 6	18.49	36.98	47
Zone 8	29.05	58.7667	140
Zone 9	0.1	0.2	1
Zone 10	12.5718	25.1436	45
Zone 11	11.84	23.68	47
Zone 12	13.13	26.26	101
<b>ALL ZONES</b>	<b>122.14</b>	<b>244.946</b>	<b>733</b>



*Mosquitofish*

**Did You Know?** Female Mosquito Fish 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 District's 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.



*AquaCulture Center*



*Fish Biologist Ryan Rothenwander*



*Auto-Feeder*



*Breeding Boxes*

## ***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.



*Ag-Cat treating a wetland for mosquito larvae*



*Residual treatment*



*Fogging*



*Fogger Maintenance*

**Materials**                      **Amount of Material**                      **Acres Treated**                      **Number of Applications**

**Larvicides**

Abate 4E	0.047	gals	4	4
Agnique	0.6500	gals	0.7261	21
Altosid SBG II	17,449.53	lbs	2433.0000	65
Altosid XR Briquets	3.64	lbs	0.0747	4
Aquabac 200 G	9240	lbs	997.6197	26
Cocobear Oil	551.2690	gals	177.8388	891
FourStar Briquets	102.3910	lbs	2.8026	191
MetaLarv	475	lbs	150.0000	91
Natular DT	16.96	lbs	0.4879	168
Natular XRT	499.62	lbs	13.03971	508
Vectobac 12AS	3753.899	gals	43010.1417	695
Vectobac G	52675.1508	lbs	5626.9295	134
Vectobac GR	7911.105413	lbs	923.7553	14
VectoMax WSP	36.23	lbs	1.8941	206

**Adulticides**

Duet	1120.25	gals	222840.898	736
Perm X ULV	532.19	gals	41281.0012	360
Trumpet	720	gals	92176.15	13

**Barrier Sprays**

Suspend	3.234	gals	9.8408	94
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**Yellow Jacket Control**

Drione	0.191	lb	0.40085	5
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**Herbicides**

Dimension	0.428	gals	1.8009	5
Finale	0.656	gals	2.1855	2
Round Up Pro Max	0.203	gals	0.325	1
Round Up Ready to Use 365	57.5	gals	0.3968	8
Roundup Weed and Grass Killer	17.5	gals	0.1207	6

**Aircraft Spraying**

Total Acres Treated	145,218
Total Acres Rice	43,062
Managed Wetlands	9,980
Total Acres ULV	92,176

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## **TICK SURVEILLANCE**

Tick surveillance in Butte County is done primarily because of the diseases that ticks can transmit. In the United States ticks are known to transmit 14 human illnesses. The two that infect humans most often are Lyme disease and Rocky Mountain Spotted Fever (RMSF). Lyme disease is an infectious disease caused by a bacterium known as a *Borrelia burgdorferi*. People get Lyme disease when a tick infected with the Lyme disease bacterium attaches and feeds on them. The tick that is responsible for spreading Lyme disease in Northern California is the Western Black-legged tick. RMSF is a bacterial disease caused by the bacterium, *Rickettsia*. Transmission of the RMSF bacteria is primarily from the Pacific Coast tick. Both of these ticks can be readily found in Butte County.

District tick surveillance consists of “flagging”, identifying, and testing. “Flagging” is 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, put into pools of five, and then sent off for testing. In 2020, 126 tick pools were sent off for testing with approximately 5% coming back positive for Lyme disease. This information can lead to risk assessment warnings to residents in areas that have high tick activity.



*Entomologist Amanda Bradford Tick “flagging”*



*Collecting the Tick*



*Tick on the Flag*



*Western Black Legged tick*

## ***YELLOW JACKET 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 areas, 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.



*Locating the nest entrance*



*"Dusting" the nest*



*Yellowjacket*



*Hornet*

## ***DISTRICT SHOP***

The District's shop provides the maintenance and repairs for 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, small engines such as chain saws, 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.



## ***DISTRICT AIR OPERATIONS***

At the Oroville facility, 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 such as new instruments and instrument panels, installation of new technology (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 Mosquito and Vector Control Specialists. In 2020 the District, with the help of District Pilot Del Boyd, had a new tank truck built. The new truck will be used for all liquid larvacide applications.



## ***DISTRICT ADMINISTRATION***

Greeted by a nice smile and a pleasant tone, professional and courteous customer service is the number one priority for the District's administration staff. The District employs one full time Office Manager and one Office Assistant. The tasks of the administrative personnel involve serving the residents of Butte County and Hamilton City, as well as, the employees of the District. Accounting, budgeting, responding to telephone inquiries, maintaining public records, coordinating policies, and reporting to the Board of Trustees are just a few of the many duties the department performs.

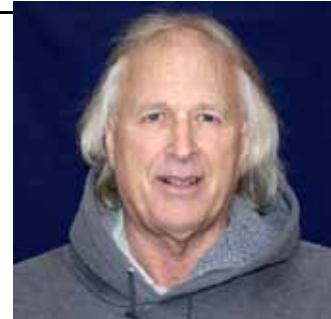


## **2020 BUTTE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT BOARD OF TRUSTEES**

<b>Name</b>	<b>Title</b>	<b>Area Represented</b>	<b>Term Expires</b>
Albert Beck	Board President	County at Large	December 31, 2021
Carl Starkey	Board Trustee	County at Large	December 31, 2020
Phillip LaRocca	Board Trustee	County at Large	December 31, 2022
Steve Ostling	Board Trustee	County at Large	December 31, 2021
Michael Barth	Board Trustee	County at Large	December 31, 2023
James Bo Sheppard	Board Secretary	City of Biggs	December 31, 2022
Larry Kirk	Board Vice President	City of Chico	December 31, 2021
Bruce Johnson	Board Trustee	City of Gridley	December 31, 2023
Melissa Schuster	Board Assistant Secretary	Town of Paradise	December 31, 2020
Vacant	Board Trustee	Hamilton City	
Gordon Andoe	Board Trustee	City of Oroville	December 31, 2021

## **2020 BUTTE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT EMPLOYEES**

<b>Name</b>	<b>Title</b>
Matt Ball	Manager
Doug Weseman	Assistant Manager
Del Boyd	Pilot II
Maritza Sandoval	Office Manager
Edith Del Rio Carriedo	Office Assistant
Eric Gohre	Entomologist II
Amanda Bradford	Entomologist II
Bill Kunde (Retired)	Regional Supervisor
Aaron Lumsden	Regional Supervisor
Ryan Rothenwander	Vector Ecologist/Fish Biologist
Beth Vice	MVCS
Aaron Goff	MVCS
Don Lasik	MVCS
Eric Dillard	MVCS
Glen Williams	MVCS
Phillip Henry	MVCS
Shane Cassity	MVCS
Shane Robertson	MVCS
Charlie Favilla	MVCS
Kenny Armstrong	Yard/Tank Truck Asst
Shawn Cassity	MVC Assistant Seasonal
Jeremy Edwards	MVC Assistant Seasonal
Brian Ence	MVC Assistant Seasonal
Austin Howard	MVC Assistant Seasonal
Michael Mattia	MVC Assistant Seasonal
Colton Scheer	MVC Assistant Seasonal
Cody Scheer	MVC Assistant Seasonal
Rachelle Scribner	Lab Assistant Seasonal
Bennett Soloman	MVC Assistant Seasonal
Jason St.Clair	MVC Assistant Seasonal
Stan McClymont	MVC Assistant Seasonal



**Eric Gohre**

The District is still mourning the untimely death of its Entomologist, Eric Gohre. Eric served the District for over 19 years. Eric was our friend and part of the District family. He will be missed.



**Bill Kunde**

Congratulations to Bill, who retired from the District in May, 2020. Bill worked for the District as Regional Supervisor since 2009. Thank you Bill for your years of service to the District.



## ***SPECIAL BENEFIT ASSESSMENT***

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 the 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 number of traps used, increase the amount of mosquitoes tested, commence with the surveillance of invasive species surveillance such as the Asian Tiger Mosquito and Yellow Fever Mosquito (both of which have been introduced into California in the past 3 years) 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 on 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.

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 controls importance will only continue to grow.

***Did You Know?*** All mosquitoes require water to breed. Some species can breed in puddles left after a rainstorm. Just a tablespoon of water is all it takes for a female to deposit her eggs. Tiny mosquito larva develop quickly in bird baths, roof gutters, and old tires dumped in vacant lots. If you want to keep mosquitoes under control around your home, you need to be vigilant about dumping any standing water every few days.

# TRANSPARENCY CERTIFICATE OF EXCELLENCE AWARD

For the 8th year in a row, 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.

"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."

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.

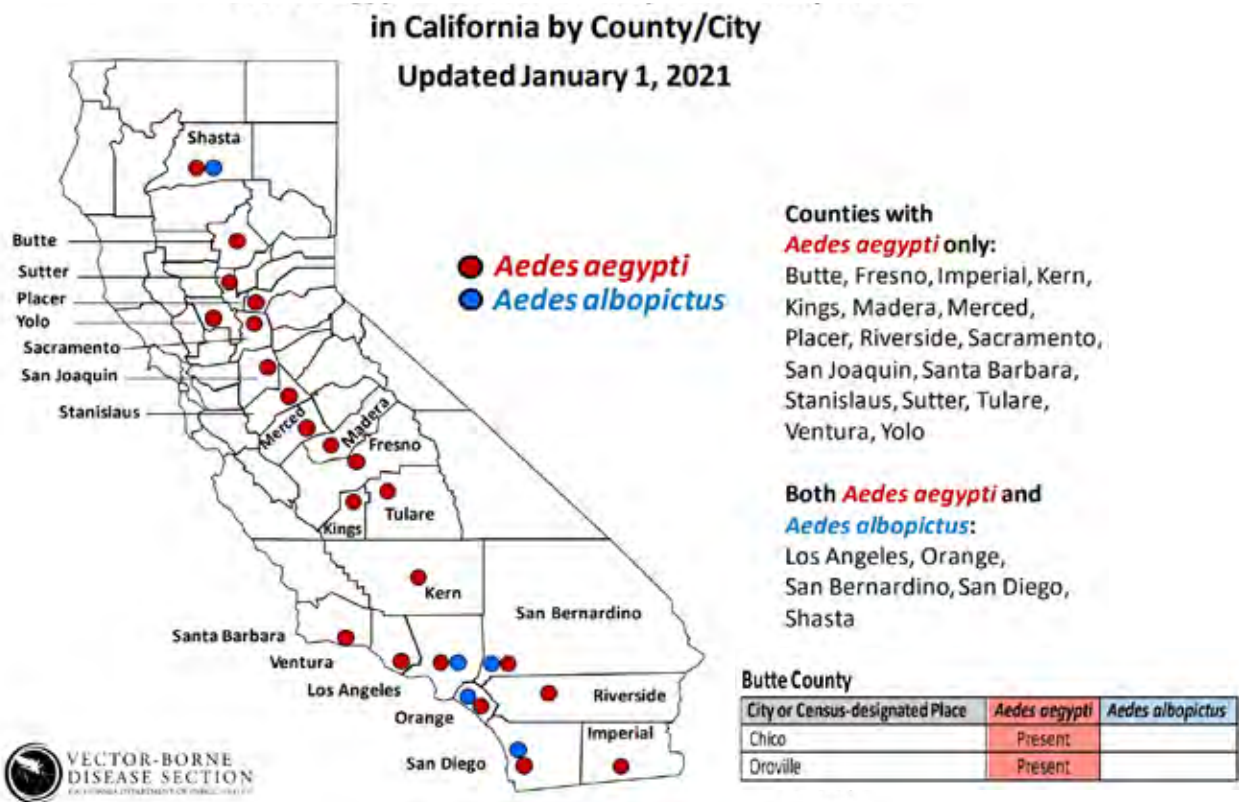


# CALIFORNIA INVASIVE SPECIES

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). The first detection of invasive Aedes mosquitoes in Butte County were detected on September 17th, 2020. The *Aedes aegypti*, commonly known as the yellow fever mosquito, was found in northeast Chico, in the area of East Avenue and Mariposa Avenue.

BCMVC identified their second detection of *Aedes aegypti* in Butte County on October 28th, 2020 in west Oroville, in the area of Oroville Dam Boulevard and Feather River Boulevard.

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.



*Aedes albopictus*



*Aedes aegypti*

**Butte County Mosquito and Vector Control District  
For the Year Ended June 30, 2020**

	Budgeted	Actual	Variance Favorable (Unfavorable)
<b><u>REVENUE</u></b>	\$ 3,810,347	\$ 5,099,192	\$ 1,288,845
<b><u>SALARIES &amp; BENEFITS</u></b>			
Salaries	\$ 1,468,000	\$ 1,420,984	\$ 47,016
FICA & U I	\$ 124,000	\$ 121,758	\$ 2,242
Workers Compensation	\$ 70,000	\$ 58,146	\$ 11,854
Health Insurance	\$ 339,000	\$ 316,833	\$ 22,167
PERS	\$ 374,000	\$ 354,862	\$ 19,138
<b>TOTAL</b>	\$ 2,375,000	\$ 2,272,584	\$ 102,416
<b><u>SERVICES &amp; SUPPLIES</u></b>			
Gas & Oil	\$ 71,000	\$ 81,568	\$ (10,568)
Repairs & Parts-Airplane	\$ 25,000	\$ 19,874	\$ 5,126
Repairs & Parts	\$ 35,000	\$ 33,236	\$ 1,764
Office Supplies	\$ 20,000	\$ 17,854	\$ 2,146
Education & Publicity	\$ 50,000	\$ 45,589	\$ 4,411
Insecticides	\$ 721,000	\$ 692,672	\$ 28,328
Expendable Equipment	\$ 20,000	\$ 19,068	\$ 932
Communications	\$ 30,000	\$ 24,012	\$ 5,988
Travel	\$ 10,000	\$ 37	\$ 9,963
Utilities	\$ 25,000	\$ 17,003	\$ 7,997
Rent	\$ 5,000	\$ 4,650	\$ 350
Special Services	\$ 137,000	\$ 135,924	\$ 1,076
Trustee Allowance	\$ 13,200	\$ 11,000	\$ 2,200
General Insurance	\$ 97,000	\$ 96,378	\$ 622
Employee Trng & Dues	\$ 10,000	\$ 9,117	\$ 883
District Fees & Permits	\$ 33,000	\$ 25,701	\$ 7,299
Miscellaneous	\$ 12,500	\$ 10,076	\$ 2,424
Research Supplies	\$ 40,000	\$ 33,477	\$ 6,523
Alternate Technology	\$ -	\$ -	\$ -
Special Discretionary	\$ 8,500	\$ 6,833	\$ 1,667
Gambusia	\$ 10,000	\$ 6,830	\$ 3,170
<b>TOTAL</b>	\$ 1,373,200	\$ 1,290,898	\$ 82,302
<b><u>CAPITAL OUTLAY</u></b>			
Bldg & Improvements	\$ 45,000	\$ 34,694	\$ 10,306
Vehicles	\$ 312,000	\$ 306,135	\$ 5,865
Spray Equipment	\$ 36,000	\$ 35,584	\$ 416
Aircraft	\$ 5,000	\$ -	\$ 5,000
Office Equipment	\$ 1,000	\$ -	\$ 1,000
Laboratory Equipment	\$ 1,000	\$ -	\$ 1,000
Shop Equipment	\$ 3,000	\$ 2,769	\$ 231
Education & Publicity	\$ 1,000	\$ -	\$ 1,000
Miscellaneous	\$ 1,000	\$ -	\$ 1,000
Communications	\$ 1,000	\$ -	\$ 1,000
<b>TOTAL</b>	\$ 406,000	\$ 379,182	\$ 26,818
Appropriation for contingencies	\$ 912,550	\$ -	\$ 912,550
<b>Grand Total</b>	\$ 5,066,750	\$ 3,942,664	\$ 1,124,086
Excess (Deficiency) of Revenue over Expenditures	\$ (1,256,403)	\$ 1,156,528	
<b>Fund Balance 2019</b>	\$ 4,648,817		
<b>Fund Balance 2020</b>	\$ 5,763,073		

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**Butte County Mosquito and Vector Control District  
Balance Sheet Audit Information  
June 30, 2020**

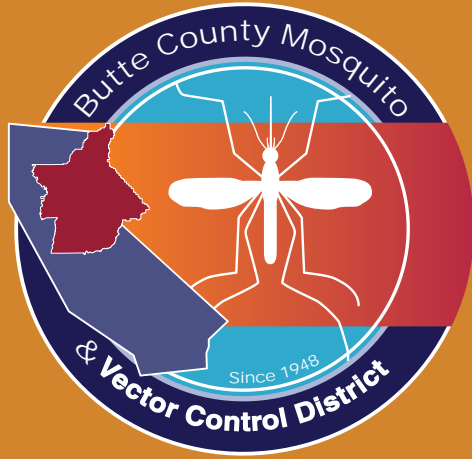
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	<u>General Fund</u>	<u>Reclassifications &amp; Eliminations</u>	<u>Statements of Net Position</u>
<b>Current assets:</b>			
Cash and cash equivalents (note 2)	\$ 5,872,997	-	5,872,997
Accrued interest receivable	20,959	-	20,959
Accounts receivable – charge for services	33,518	-	33,518
Materials and supplies inventory	478,043	-	478,043
Prepaid expenses	24,543	-	24,543
<b>Total current assets</b>	<u>6,430,060</u>	<u>-</u>	<u>6,430,060</u>
<b>Non-current assets:</b>			
Capital assets, not being depreciated (note 3)	-	615,403	615,403
Capital assets, being depreciated (note 3)	-	2,594,529	2,594,529
<b>Total non-current assets</b>	<u>-</u>	<u>3,209,932</u>	<u>3,209,932</u>
<b>Total assets</b>	<u>6,430,060</u>	<u>3,209,932</u>	<u>9,639,992</u>
<b>Deferred outflows of resources:</b>			
Deferred pension outflows (note 7)	-	688,767	688,767
<b>Total deferred outflows of resources</b>	<u>-</u>	<u>688,767</u>	<u>688,767</u>
<b>Current liabilities:</b>			
Accrued salaries and benefits	87,211	-	87,211
Long-term liabilities – due within one year:			
Compensated absences (note 4)	-	117,803	117,803
<b>Total current liabilities</b>	<u>87,211</u>	<u>117,803</u>	<u>205,014</u>
<b>Non-current liabilities:</b>			
Long-term liabilities – due in more than one year:			
Compensated absences (note 4)	-	471,212	471,212
Net pension liability (note 7)	-	3,616,550	3,616,550
<b>Total non-current liabilities</b>	<u>-</u>	<u>4,087,762</u>	<u>4,087,762</u>
<b>Total liabilities</b>	<u>87,211</u>	<u>4,205,565</u>	<u>4,292,776</u>
<b>Deferred inflows of resources:</b>			
Deferred pension inflows (note 7)	-	174,274	174,274
<b>Total deferred inflows of resources</b>	<u>-</u>	<u>174,274</u>	<u>174,274</u>
<b>Fund balance: (note 8)</b>			
Non-spendable	502,586	(502,586)	-
Assigned	589,015	(589,015)	-
Unassigned	5,251,248	(5,251,248)	-
<b>Total fund balance</b>	<u>6,342,849</u>	<u>(6,342,849)</u>	<u>-</u>
<b>Total liabilities and fund balance</b>	<u>\$ 6,430,060</u>		
<b>Net position:</b>			
Net investment in capital assets		3,209,932	3,209,932
Unrestricted		2,651,777	2,651,777
<b>Total net position</b>		<u>5,861,709</u>	<u>5,861,709</u>

### Non-Discrimination Statement

“This institution is an equal opportunity provider and employer.”

If you wish to file a Civil Rights program complaint of discrimination, complete the USDA Program Discrimination Complaint Form, found online at [http://www.ascr.usda.gov/complaint\\_filing\\_cust.html](http://www.ascr.usda.gov/complaint_filing_cust.html), or at any USDA office, or call (866) 632-9992 to request the form. You may also write a letter containing all of the information requested in the form. Send your completed complaint form or letter to us by mail at U.S. Department of Agriculture, Director, Office of Adjudication, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, by fax (202) 690-7442 or email at [program.intake@usda.gov](mailto:program.intake@usda.gov).





#151

## 2004 Chevrolet Silverado 1500 Regular Cab Pricing Report

Style: Pickup 2D 8 ft

Mileage: 109,560

KBB.com Consumer Rating: 4.6/5

### Vehicle Highlights

Fuel Economy: City 14/Hwy 18/Comb 16 MPG

Engine: V8, 5.3 Liter

Drivetrain: 2WD

Transmission: Automatic, 4-Spd w/Overdrive

Country of Assembly: United States

Country of Origin: United States

EPA Class: Standard Pickup Trucks

Max Seating: 3

Doors: 2

Body Style: Pickup

## Sell to Private Party

Private Party Range  
**\$4,896 - \$7,003**

Private Party Value  
**\$5,950**



Valid for ZIP code 95926 through 02/01/2021



## Your Configured Options

Our pre-selected options, based on typical equipment for this car.

✓ Options that you added while configuring this car.

### Exterior Color

✓ Red

### Engine

✓ V8, 5.3 Liter

### Drivetrain

2WD

### Comfort and Convenience

Air Conditioning

### Steering

Power Steering

Tilt Wheel

### Entertainment and Instrumentation

AM/FM Stereo

### Safety and Security

Dual Air Bags

### Braking and Traction

ABS (4-Wheel)

### Wheels and Tires

Premium Wheels

### Transmission

Automatic, 4-Spd  
w/Overdrive



# 159

## 2007 Ford F150 Super Cab Pricing Report

Style: XL Pickup 4D 6 1/2 ft

Mileage: 92,968

KBB.com Consumer Rating: 4.6/5

### Vehicle Highlights

Fuel Economy: City 13/Hwy 18/Comb 15 MPG

Engine: V8, 4.6 Liter

Transmission: Automatic

Drivetrain: 2WD

Country of Assembly: United States

Country of Origin: United States

EPA Class: Standard Pickup Trucks

Max Seating: 6

Doors: 4

Body Style: Styleside Pickup

## Sell to Private Party



Valid for ZIP code 95926 through 02/01/2021

## Your Configured Options

Our pre-selected options, based on typical equipment for this car.

✓ Options that you added while configuring this car.

### Exterior Color

✓ Red

### Engine

✓ V8, 4.6 Liter

### Transmission

Automatic

### Drivetrain

2WD

### Comfort and Convenience

Air Conditioning

### Steering

Power Steering

Tilt Wheel

### Entertainment and Instrumentation

AM/FM Stereo

Cassette

### Safety and Security

Dual Air Bags

### Braking and Traction

ABS (4-Wheel)

### Wheels and Tires

Premium Wheels



#164

# 2009 Dodge Dakota Extended Cab Pricing Report

Style: ST Pickup 4D 6 1/2 ft

Mileage: 96,140

KBB.com Consumer Rating: 4.2/5

*This truck  
doesn't run,  
so price will be  
lower.*

## Sell to Private Party

Private Party Range <b>\$6,662 - \$8,003</b>
Private Party Value <b>\$7,333</b>

## Vehicle Highlights

Fuel Economy: N/A

Engine: V6, 3.7 Liter

Transmission: Automatic, 5-Spd w/Overdrive

Drivetrain: 4WD

Country of Assembly: United States

Country of Origin: United States

EPA Class: Small Pickup Trucks

Max Seating: 4

Doors: 4

Body Style: Pickup



Valid for ZIP code 95926 through 02/01/2021

## Your Configured Options

Our pre-selected options, based on typical equipment for this car.

✓ Options that you added while configuring this car.

### Exterior Color

✓ White

### Engine

✓ V6, 3.7 Liter

### Transmission

Automatic, 5-Spd  
w/Overdrive

### Drivetrain

✓ 4WD

### Comfort and Convenience

Air Conditioning

Power Door Locks

Cruise Control

### Steering

Power Steering

Tilt Wheel

### Entertainment and Instrumentation

AM/FM Stereo

CD/MP3 (Single Disc)

### Safety and Security

Dual Air Bags

### Braking and Traction

ABS (4-Wheel)

### Wheels and Tires

Steel Wheels



#169

## 2010 Dodge Dakota Extended Cab Pricing Report

Style: ST Pickup 4D 6 1/2 ft

Mileage: 83,200

KBB.com Consumer Rating: 4.2/5

### Vehicle Highlights

Fuel Economy: N/A

Engine: V6, 3.7 Liter

Transmission: Automatic, 5-Spd w/Overdrive

Drivetrain: 4WD

Country of Assembly: United States

Country of Origin: United States

EPA Class: Small Pickup Trucks

Max Seating: 4

Doors: 4

Body Style: Pickup

## Sell to Private Party



Valid for ZIP code 95926 through 02/01/2021

## Your Configured Options

Our pre-selected options, based on typical equipment for this car.

✓ Options that you added while configuring this car.

### Exterior Color

✓ White

### Engine

✓ V6, 3.7 Liter

### Transmission

Automatic, 5-Spd  
w/Overdrive

### Drivetrain

✓ 4WD

### Comfort and Convenience

Air Conditioning

### Steering

Power Steering

Tilt Wheel

### Entertainment and Instrumentation

AM/FM Stereo

CD/MP3 (Single Disc)

### Safety and Security

Dual Air Bags

### Braking and Traction

ABS (4-Wheel)

### Wheels and Tires

Steel Wheels

### Exterior

Fog Lights

## CONTROL CONSTRAINTS

The overwintering *Anopheles freeborni* females are not easily controlled during the cool weather months. The District usually cannot fog for mosquitoes in the winter and early spring months due to its ineffectiveness compared to the warmer spring and summer months.

Certain conditions have to be met in order to effectively control adult mosquitoes. During the warmer months the District sprays for mosquitoes before the sun rises in the mornings and after it has set in the evenings. This is not usually possible in January, February, or March since the temperature is not warm enough to spray during those times.

The overwintering mosquitoes are usually most active during sunlight hours. The District does not spray during sunlight hours due to improper weather conditions such as the lack of an inversion layer, UV rays reducing the pesticides effectiveness, and the risks to non-target beneficial insects.

## THE ANOPHELES FREEBORNI LIFE CYCLE

### Egg stage

An adult female mosquito can lay approximately 100-400 eggs which float on the surface of the water, or eggs may be laid singly on the surface of the water. Within 2-3 days the eggs hatch into larvae.



### Larval stage

Larvae can be found close to the surface of the water where they breathe and feed. Larvae are found in a wide variety of standing water sources including rice fields, ditches, ponds, and horse troughs. Larvae shed their skin four times during the next several days or weeks, finally changing into a pupa.



### Pupal stage

In the pupal stage, the mosquito grows inside of a cocoon-like shell. Once fully developed, the pupal skin splits and the mosquito emerges as an adult.



### Adult stage

The newly emerged adult mosquito rests on the surface of the water until it is strong enough to fly. Female mosquitoes require a blood meal to lay eggs. Male mosquitoes do not feed on blood. Female mosquitoes are attracted by heat and carbon dioxide to hosts such as humans, mammals, and birds. Diseases are transmitted when female mosquitoes feed on an infected host and then feed on an uninfected host.



## Butte County Mosquito & Vector Control District

Since 1948

The District covers over 1600 square miles, and includes all of Butte County, except the small areas served by the Durham and Oroville Mosquito Abatement Districts, which were formed earlier. The District also includes the Hamilton City area of Glenn County. In April of 1994, "Vector Control" was added to the District name to reflect the additional disease surveillance and information now provided.

### OUR MISSION

The mission of BCMVCD 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.



5117 Larkin Road  
Oroville, CA 95965

(530) 533-6038

or

(530) 342-7350

[www.BCMVCD.com](http://www.BCMVCD.com)

# ANOPHELES FREEBORNI





## MOSQUITOES BUGGING YOU?

The later parts of summer and early fall bring extremely high populations of the Western Malaria mosquito (*Anopheles freeborni*) to most of Butte County and Hamilton City. The majority of these mosquitoes are bred in agricultural lands throughout the west and south areas of the county.

This mosquito is medium sized, brown to tan in color, with long legs, and dark spots on the wings. It is a very aggressive mosquito and is readily found in and amongst homes, barns, yards, and vegetative areas. This pest also has the ability to fly long distances in one night, allowing it to fly from its rural breeding site to urban areas. This mosquito is commonly found throughout most of California and is a severe pest in rice growing areas.

### HOW CAN YOU PROTECT YOURSELF FROM MOSQUITOES?

- Minimize outdoor activities at dawn and dusk when mosquitoes are most active.
- Drain any standing water around your house.
- Wear long sleeves and pants at dusk and dawn.
- Use an insect repellent approved by the EPA and recommended by the CDC.

## ABOUT *ANOPHELES FREEBORNI*

While cold winter weather kills most species of adult mosquitoes, the adult female *Anopheles freeborni* hibernates during these months.

In the fall these mosquitoes disperse several miles from their breeding sources to seek shelter in protected places, such as houses and outbuildings. They are often a nuisance at this time.

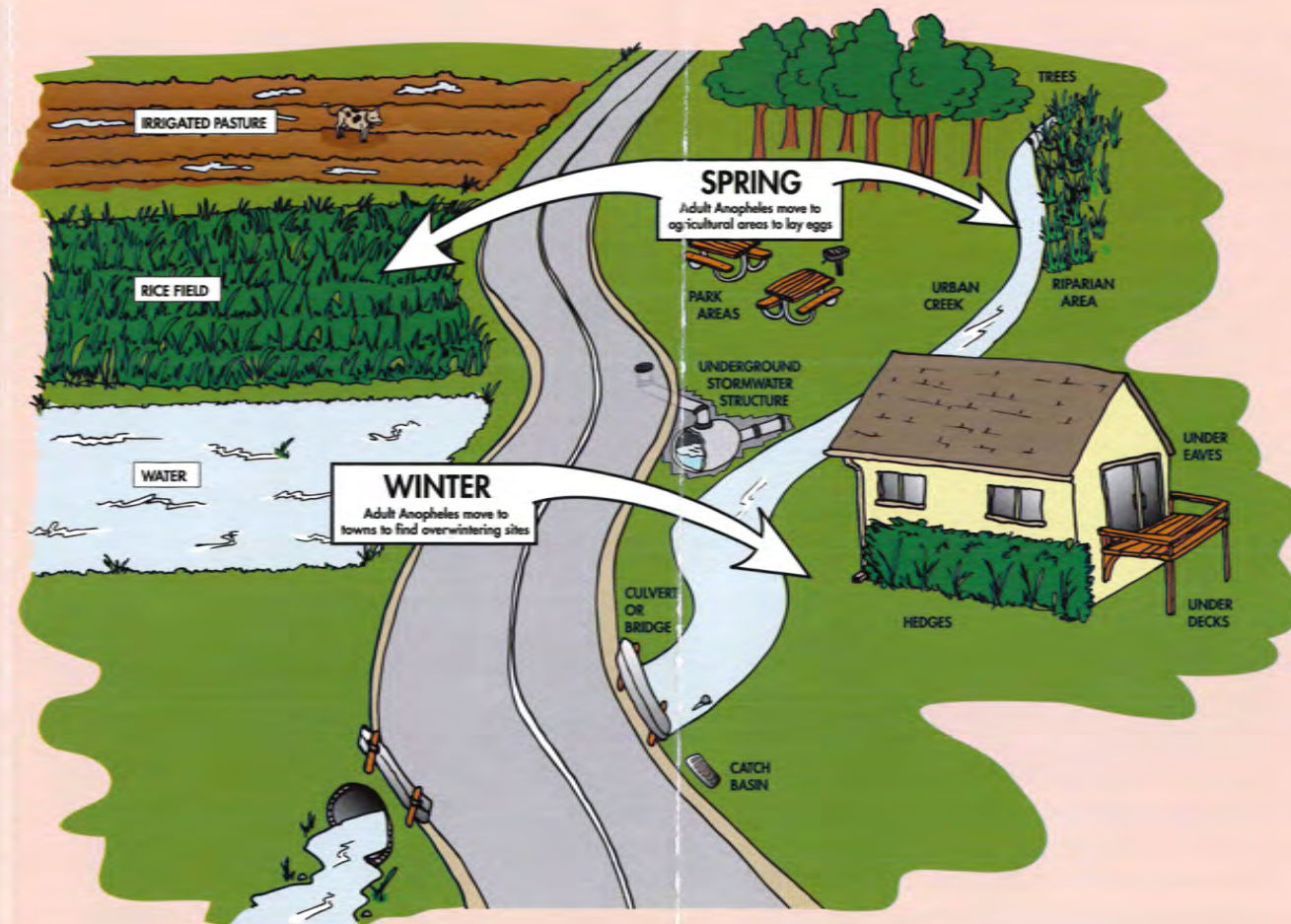
On warm, sunny days, only screened windows and doors should be opened. Keep screens in good repair. If mosquitoes do get inside your house, they may be found resting on walls, under sinks, in closets, etc.

A warming trend in January, February or March sounds a wakeup call to these mosquitoes. They are extremely hungry and are looking for a blood meal that will nourish their developing eggs.

Biting females are most bothersome during the afternoons and early evenings. Fortunately, the problem usually lasts only as long as the warm days persist.

### Adult behavior

The adult population reaches its peak in August. Females hibernate during the winter months and disperse from their hibernating sites in February or March. Females will readily enter houses during peak activity time. Males do not bite but feed on nectar and plant juices.



### Where they breed

Their breeding patterns and life cycle are slightly different from other mosquitoes. *Anopheles freeborni* prefer standing water that is open and sunlit with vegetation and algae present. Such sources include rice fields, creek isolations, ponds, swampy areas, stream edges, and drains.

### Can these mosquitoes transmit disease?

The Western Malaria Mosquito is considered unlikely to transmit West Nile virus. These mosquitoes historically transmitted malaria and were involved in the malaria epidemics during the late 1800's and early 1900's in northern California.

Although malaria is not currently a concern in California, the potential for disease transmission exists if malaria is reintroduced through an imported human case. The District works closely with state and local health departments to monitor new and reemerging vector-borne diseases.

# Butte County Mosquito and Vector Control District

Recap for the month ending: January 2021

	Fund 2270 General Fund	Fund 2272 Hamilton City	
<b>Beginning Cash Balance</b>	\$ 6,098,683.87	\$ 16,650.53	\$ 6,115,334.40
Current Year Revenue Received	\$ 228,101.97	\$ 5,691.30	
Cash balance	\$ 6,326,785.84	22,341.83	
Prior Month Payables paid	\$ -		
Salaries & Benefits	\$ 198,194.82	\$ -	
Services & Supplies	\$ 27,976.27	\$ -	
Capital Outlay	\$ 115,146.80	\$ -	
Expenses chargeable to month	\$ 341,317.89	\$ -	\$ 341,317.89
Payables	\$ 5,570.74		
<b>Cash Balance</b>	\$ 5,991,038.69	\$ 22,341.83	\$ 6,013,380.52
Revolving Fund			\$ 2,500.00
			<u>\$ 2,500.00</u>
			 <b>End of Month Combined Cash Balance \$6,015,880.52</b>
<b>Less:</b>			
Restricted - UST Trust Fund F-2279	\$ 5,000.00	\$ -	
Committed - Accumulated Capital Outlay	\$ 2,000,000.00	\$ -	
Committed - Aircraft Engine Reserve	\$ 580,000.00	\$ -	
Assigned - Research Reserve	\$ 100,000.00	\$ -	
Assigned - Vector Borne Disease Reserved	\$ 342,500.00	\$ 7,500.00	
Committed - General Reserve	\$ 200,000.00	\$ -	
	\$ 3,227,500.00	\$ 7,500.00	

Voided Fund 2270 Check Numbers: 48285, 48865, 48866, 48867, 48911

Voided Revolving Fund Check Numbers:

The before mentioned list of claims is a true and correct listing of bills which have been allowed by the Board of Trustees.

\_\_\_\_\_  
Signature of Board President or Secretary

\_\_\_\_\_  
Signature of District Manager

8:03 AM

**Butte County Mosquito and Vector Control District**  
**Income by Customer Detail**  
**January 2021**

02/03/21

Cash Basis

Type	Date	Num	Memo	Account	Original Amount	Paid Amount
<b>Butte County Auditor-Treasurer</b>						
Deposit	01/14/21		TX 37-M 20-21B Chico...	4116 · RDA - Re...	215,864.37	215,864.37
Deposit	01/14/21		TX 38-M 20-21B ROP...	4116 · RDA - Re...	2,084.85	2,084.85
Deposit	01/14/21		TX 40-M 20-21B Para...	4116 · RDA - Re...	313.04	313.04
Total Butte County Auditor-Treasurer						218,262.26
<b>Glenn County</b>						
Deposit	01/11/21	723323	Dec 2020 Household ...	4620 · Special H...	4,051.31	4,051.31
Deposit	01/11/21	723323	Dec 2020 Benefit Asse...	4621 · Benefit A...	1,639.99	1,639.99
Total Glenn County						5,691.30
<b>No name</b>						
General Jo...	01/15/21	JE#2...	Q2 12/31/2020 interest...	4410 · Interest In...	9,801.72	9,801.72
General Jo...	01/15/21	JE#2...	Q2 12/31/2020 interest...	4410 · Interest In...	37.99	37.99
Total no name						9,839.71
<b>TOTAL</b>						<b>233,793.27</b>

## Butte County Mosquito and Vector Control District

02/03/21

## End of Month Check Register

As of January 31, 2021

Type	Date	Num	Name	Memo	Amount
<b>1010 - Cash in County Treasury</b>					
General Jour...	01/15/21	JE#20-06		Q2/2020 interest posted	9,801.72
General Jour...	01/15/21	JE#20-06		Q2/2020 interest posted	37.99
Check	01/01/21	48865	PRECISION PUMP COMPANY	VOID: Printed incorrectly	0.00
Check	01/01/21	48866	PRECISION PUMP COMPANY	VOID: Printed incorrectly	0.00
Check	01/01/21	48867	PRECISION PUMP COMPANY	VOID: Printed in error	0.00
Bill Pmt -Check	01/01/21	48868	PRECISION PUMP COMPANY	Replaces check # 48630	-150.00
Paycheck	01/13/21	48869	BALL, MATTHEW C		-3,302.95
Paycheck	01/13/21	48870	BOYD, DELBERT L		-2,336.27
Paycheck	01/13/21	48871	BRADFORD, AMANDA M		-2,222.17
Paycheck	01/13/21	48872	CASSITY, SHANE M		-1,517.94
Paycheck	01/13/21	48873	DELRIO CARRIEDO, EDITH		-1,577.26
Paycheck	01/13/21	48874	DILLARD, ERIC L		-1,635.48
Paycheck	01/13/21	48875	FAVILLA, CHARLES L		-1,387.52
Paycheck	01/13/21	48876	GOFF, AARON P		-1,382.64
Paycheck	01/13/21	48877	HENRY, PHILLIP D		-1,904.74
Paycheck	01/13/21	48878	LASIK, DONALD A		-1,480.10
Paycheck	01/13/21	48879	LUMSDEN, AARON L		-1,902.70
Paycheck	01/13/21	48880	ROBERTSON, SHANE E		-20.37
Paycheck	01/13/21	48881	ROTHENWANDER, RYAN R		-1,880.73
Paycheck	01/13/21	48882	SANDOVAL-SORIA, MARITZA L		-1,900.93
Paycheck	01/13/21	48883	VICE, ELIZABETH L		-1,764.70
Paycheck	01/13/21	48884	WESEMAN, DOUGLAS E		-2,006.78
Paycheck	01/13/21	48885	WILLIAMS, GLEN L		-1,892.17
Paycheck	01/13/21	48886	DELRIO CARRIEDO, EDITH		-1,276.10
Paycheck	01/13/21	48887	DILLARD, ERIC L		-2,352.56
Paycheck	01/13/21	48888	WILLIAMS, GLEN L		-1,160.75
Liability Check	01/13/21	48889	ICMA RETIREMENT CORPORATI...	304296	-2,347.94
Liability Check	01/13/21	48890	VALIC	53871	-1,050.00
Liability Check	01/13/21	48891	MECHANICS BANK		-594.23
Liability Check	01/13/21	48892	MECHANICS BANK		-35,000.00
Bill Pmt -Check	01/14/21	48893	ALBERT BECK	Meeting allowance January ...	-100.00
Bill Pmt -Check	01/14/21	48894	BRUCE JOHNSON	Meeting allowance January ...	-100.00
Bill Pmt -Check	01/14/21	48895	CARL STARKEY	Meeting allowance January ...	-100.00
Bill Pmt -Check	01/14/21	48896	JAMES BO SHEPPARD	Meeting allowance January ...	-100.00
Bill Pmt -Check	01/14/21	48897	LARRY KIRK	Meeting allowance January ...	-100.00
Bill Pmt -Check	01/14/21	48898	MELISSA SCHUSTER	Meeting allowance January ...	-100.00
Bill Pmt -Check	01/14/21	48899	MICHAEL BARTH	Meeting allowance January ...	-100.00
Bill Pmt -Check	01/14/21	48900	PHILIP LAROCCA	Meeting allowance January ...	-100.00
Bill Pmt -Check	01/14/21	48901	STEVE OSTLING	Meeting allowance January ...	-100.00
Bill Pmt -Check	01/21/21	48902	ADVANCED DOCUMENT CONCE...		-116.57
Bill Pmt -Check	01/21/21	48903	ALHAMBRA & SIERRA SPRINGS	12/15/20 water delivery and ...	-471.34
Bill Pmt -Check	01/21/21	48904	ALL METALS SUPPLY INC	Steel piece for old tank truck	-11.49
Bill Pmt -Check	01/21/21	48905	AN HONEST SMOG	Vehicle #159 Smog	-36.75
Bill Pmt -Check	01/21/21	48906	BETTER DEAL EXCHANGE		-42.87
Bill Pmt -Check	01/21/21	48907	BL GRIFFIN COMPANY		-830.44
Bill Pmt -Check	01/21/21	48908	CARROT TOP INDUSTRIES INC	2 American flags and 6 Distr...	-490.80
Bill Pmt -Check	01/21/21	48909	CLARKE MOSQUITO CONTROL P...	solenoid assy replacement f...	-178.64
Bill Pmt -Check	01/21/21	48910	COMCAST BUSINESS	8155600281514342 1/6-2/5/...	-148.10
Check	01/21/21	48911	ESPLANADE OFFICE	VOID: reissued with check #...	0.00
Bill Pmt -Check	01/21/21	48912	GOLDEN STATE RISK MANAGEM...	February 2021 Health Insura...	-31,445.00
Bill Pmt -Check	01/21/21	48913	GRIDLEY COUNTRY FORD		-115,146.80
Bill Pmt -Check	01/21/21	48914	HARBOR FREIGHT TOOLS	Vehicle cleaning supplies	-93.28
Bill Pmt -Check	01/21/21	48915	HOME DEPOT	6035 322 0 0746 7677	-293.29
Bill Pmt -Check	01/21/21	48916	JOHNSTON AIRCRAFT SERVICE ...	Jaws- fittings and hose	-262.90
Bill Pmt -Check	01/21/21	48917	KIMBALL MIDWEST	Washers, screws, rings, etc.	-328.77
Bill Pmt -Check	01/21/21	48918	LES SCHWAB TIRE CENTER		-870.57
Bill Pmt -Check	01/21/21	48919	MAC TOOLS	Battery tool kit and metal loc...	-258.47
Bill Pmt -Check	01/21/21	48920	MATSON & ISOM TECHNOLOGY ...	00BUTTCO9	-1,676.50
Bill Pmt -Check	01/21/21	48921	MEDICAL EYE SERVICES	February 2021	-299.48
Bill Pmt -Check	01/21/21	48922	MINASIAN MEITH SOARES SEXT...	December 2020 Camp Fire ...	-320.00
Bill Pmt -Check	01/21/21	48923	MODERN CARPET CLEANING	12/29/20 Carpet cleaning in ...	-152.50
Bill Pmt -Check	01/21/21	48924	NEAL ROAD LANDFILL	11790	-22.74
Bill Pmt -Check	01/21/21	48925	NORTHGATE PETROLEUM CO	21080	-4,456.95
Bill Pmt -Check	01/21/21	48926	OREILLY	Hose	-49.44
Bill Pmt -Check	01/21/21	48927	PACIFIC GAS AND ELECTRIC		-1,604.76
Bill Pmt -Check	01/21/21	48928	PBM SUPPLY & MFG INC		-279.15
Bill Pmt -Check	01/21/21	48929	PRINTWORX	Business cards for R Rothen...	-51.16
Bill Pmt -Check	01/21/21	48930	QUILL CORPORATION		-709.52

**Butte County Mosquito and Vector Control District**  
**End of Month Check Register**  
**As of January 31, 2021**

02/03/21

Type	Date	Num	Name	Memo	Amount
Bill Pmt -Check	01/21/21	48931	RABCO PAYROLL SERVICES INC	January 2021 timekeeping ...	-135.00
Bill Pmt -Check	01/21/21	48932	RECOLOGY BUTTTE COLUSA C...	020039727 December 2020 ...	-115.95
Bill Pmt -Check	01/21/21	48933	RIEBES AUTO PARTS		-512.38
Bill Pmt -Check	01/21/21	48934	SCHAEFFER MFG CO	55 gals Oil and Recycle Fee...	-1,445.22
Bill Pmt -Check	01/21/21	48935	SUN LIFE FINANCIAL	February 2021	-2,452.13
Bill Pmt -Check	01/21/21	48936	UNIFIRST CORPORATION		-668.80
Bill Pmt -Check	01/21/21	48937	UPS	1/11/2021 shippment	-44.25
Bill Pmt -Check	01/21/21	48938	US BANK CORP PAYMENT SYST...	12/21-1/20/2021 various cre...	-1,460.81
Bill Pmt -Check	01/21/21	48939	WALMART COMMUNITY	6032 2020 0092 1859	-17.28
Bill Pmt -Check	01/21/21	48940	WASTE MANAGEMENT	12/1-12/31/20 Chico services	-28.62
Bill Pmt -Check	01/21/21	48941	WAXIE SANITARY SUPPLY	TP, Papertowels, gloves, an...	-388.04
Bill Pmt -Check	01/21/21	48942	ESPLANADE OFFICE		-4,057.21
Paycheck	01/27/21	48943	BALL, MATTHEW C		-3,302.93
Paycheck	01/27/21	48944	BOYD, DELBERT L		-2,336.27
Paycheck	01/27/21	48945	BRADFORD, AMANDA M		-2,222.18
Paycheck	01/27/21	48946	CASSITY, SHANE M		-1,564.35
Paycheck	01/27/21	48947	DELRIO CARRIEDO, EDITH		-1,577.23
Paycheck	01/27/21	48948	DILLARD, ERIC L		-1,635.48
Paycheck	01/27/21	48949	FAVILLA, CHARLES L		-1,387.52
Paycheck	01/27/21	48950	GOFF, AARON P		-1,382.63
Paycheck	01/27/21	48951	HENRY, PHILLIP D		-1,904.74
Paycheck	01/27/21	48952	LASIK, DONALD A		-1,480.10
Paycheck	01/27/21	48953	LUMSDEN, AARON L		-1,902.70
Paycheck	01/27/21	48954	ROBERTSON, SHANE E		-20.37
Paycheck	01/27/21	48955	ROTHENWANDER, RYAN R		-1,880.74
Paycheck	01/27/21	48956	SANDOVAL-SORIA, MARITZA L		-1,900.95
Paycheck	01/27/21	48957	VICE, ELIZABETH L		-1,764.68
Paycheck	01/27/21	48958	WESEMAN, DOUGLAS E		-2,006.77
Paycheck	01/27/21	48959	WILLIAMS, GLEN L		-1,892.19
Liability Check	01/27/21	48960	ICMA RETIREMENT CORPORATI...	304296	-2,347.94
Liability Check	01/27/21	48961	VALIC	53871	-1,050.00
Liability Check	01/27/21	48962	MECHANICS BANK		-594.23
Liability Check	01/13/21	2270-900882	BUTTE COUNTY TREASURER FO...	94-6000141	-13,563.44
Liability Check	01/13/21	2270-900883	EMPLOYMENT DEVELOPMENT D...	499-0413-9	-6,249.36
Liability Check	01/13/21	2270-900884	PUBLIC EMPLOYEES RETIREME...	0665	-9,202.65
Liability Check	01/27/21	2270-900885	BUTTE COUNTY TREASURER FO...		-12,474.68
Liability Check	01/27/21	2270-900886	EMPLOYMENT DEVELOPMENT D...	499-0413-9	-5,294.76
Liability Check	01/27/21	2270-900887	PUBLIC EMPLOYEES RETIREME...	0665	-9,215.17
Total 1010 · Cash in County Treasury					-327,235.35
<b>TOTAL</b>					<b>-327,235.35</b>

**Butte County Mosquito and Vector Control District**  
**Month to Date Register**  
As of February 3, 2021

02/03/21

Type	Date	Num	Name	Memo	Amount
<b>1010 · Cash in County Treasury</b>					
Liability Check	02/03/21	48963	AFLAC	J1P16	-745.12
Bill Pmt -Check	02/03/21	48964	ALHAMBRA & SIERRA SPRINGS	1/15/21 water delivery and c...	-13.86
Bill Pmt -Check	02/03/21	48965	BL GRIFFIN COMPANY	Horse and Bat, fuel hose	-956.31
Bill Pmt -Check	02/03/21	48966	CALIFORNIA WATER SERVICE	12/18-1/19/2021 Water servi...	-48.91
Bill Pmt -Check	02/03/21	48967	COMCAST BUSINESS		-776.44
Bill Pmt -Check	02/03/21	48968	FASTENAL INDUSTRIAL & CONS...	Bat- Hose clamps	-16.75
Bill Pmt -Check	02/03/21	48969	FEDAK & BROWN LLP	January 2021 sevices towar...	-500.00
Bill Pmt -Check	02/03/21	48970	HOME DEPOT	6035 322 0 0746 7677	-462.94
Bill Pmt -Check	02/03/21	48971	INDUSTRIAL POWER PRODUCTS	Blades	-19.28
Bill Pmt -Check	02/03/21	48972	INTERSTATE BATTERIES	4 Batteries	-584.02
Bill Pmt -Check	02/03/21	48973	MAC TOOLS	brake press	-71.85
Bill Pmt -Check	02/03/21	48974	MESSENGER PUBLISHING GROUP	1/22/2021 Public Notice	-145.00
Bill Pmt -Check	02/03/21	48975	OREILLY	Hub assembly	-155.66
Bill Pmt -Check	02/03/21	48976	PBM SUPPLY & MFG INC	Poly tubing	-2.85
Bill Pmt -Check	02/03/21	48977	PRINTWORX	2020 Annual Report	-1,363.42
Bill Pmt -Check	02/03/21	48978	RIEBES AUTO PARTS		-191.01
Bill Pmt -Check	02/03/21	48979	UNIFIRST CORPORATION		-178.18
Bill Pmt -Check	02/03/21	48980	VERIZON WIRELESS	12/11-1/28/2020 District cell...	-570.60
Bill Pmt -Check	02/03/21	48981	WALMART COMMUNITY	6032 2020 0092 1859	-134.81
Total 1010 · Cash in County Treasury					-6,937.01
<b>TOTAL</b>					<b>-6,937.01</b>

Butte County Mosquito and Vector Control District  
End of Month Check Register  
As of January 31, 2021

1010 - Cash in County Treasury

Type	Date	Num	Name	Memo	Amount
General Journal	01/15/2021	JE#20-06		Q2/2020 interest posted	9,801.72
General Journal	01/15/2021	JE#20-06		Q2/2020 interest posted	37.99
Check	01/01/2021	48865	PRECISION PUMP COMPANY	VOID: Printed incorrectly	0.00
Check	01/01/2021	48866	PRECISION PUMP COMPANY	VOID: Printed incorrectly	0.00
Check	01/01/2021	48867	PRECISION PUMP COMPANY	VOID: Printed in error	0.00
Bill Pmt -Check	01/01/2021	48868	PRECISION PUMP COMPANY	Replaces check # 48630	-150.00
Paycheck	01/13/2021	48869	BALL, MATTHEW C	Paycheck	-3,302.95
Paycheck	01/13/2021	48870	BOYD, DELBERT L	Paycheck	-2,336.27
Paycheck	01/13/2021	48871	BRADFORD, AMANDA M	Paycheck	-2,222.17
Paycheck	01/13/2021	48872	CASSITY, SHANE M	Paycheck	-1,517.94
Paycheck	01/13/2021	48873	DELRIO CARRIEDO, EDITH	Paycheck	-1,577.26
Paycheck	01/13/2021	48874	DILLARD, ERIC L	Paycheck	-1,635.48
Paycheck	01/13/2021	48875	FAVILLA, CHARLES L	Paycheck	-1,387.52
Paycheck	01/13/2021	48876	GOFF, AARON P	Paycheck	-1,382.64
Paycheck	01/13/2021	48877	HENRY, PHILLIP D	Paycheck	-1,904.74
Paycheck	01/13/2021	48878	LASIK, DONALD A	Paycheck	-1,480.10
Paycheck	01/13/2021	48879	LUMSDEN, AARON L	Paycheck	-1,902.70
Paycheck	01/13/2021	48880	ROBERTSON, SHANE E	Paycheck	-20.37
Paycheck	01/13/2021	48881	ROTHENWANDER, RYAN R	Paycheck	-1,880.73
Paycheck	01/13/2021	48882	SANDOVAL-SORIA, MARITZA L	Paycheck	-1,900.93
Paycheck	01/13/2021	48883	VICE, ELIZABETH L	Paycheck	-1,764.70
Paycheck	01/13/2021	48884	WESEMAN, DOUGLAS E	Paycheck	-2,006.78
Paycheck	01/13/2021	48885	WILLIAMS, GLEN L	Paycheck	-1,892.17
Paycheck	01/13/2021	48886	DELRIO CARRIEDO, EDITH	Paycheck	-1,276.10
Paycheck	01/13/2021	48887	DILLARD, ERIC L	Paycheck	-2,352.56
Paycheck	01/13/2021	48888	WILLIAMS, GLEN L	Paycheck	-1,160.75
Liability Check	01/13/2021	48889	ICMA RETIREMENT CORPORATION	Deferred comp employee contributions	-2,347.94
Liability Check	01/13/2021	48890	VALIC	Deferred comp employee contributions	-1,050.00
Liability Check	01/13/2021	48891	MECHANICS BANK	4 employee HSA contributions	-594.23
Liability Check	01/13/2021	48892	MECHANICS BANK	2021 Health savings account District distribution.	-35,000.00
Bill Pmt -Check	01/14/2021	48893	ALBERT BECK	Meeting allowance January 2021	-100.00
Bill Pmt -Check	01/14/2021	48894	BRUCE JOHNSON	Meeting allowance January 2021	-100.00
Bill Pmt -Check	01/14/2021	48895	CARL STARKEY	Meeting allowance January 2021	-100.00
Bill Pmt -Check	01/14/2021	48896	JAMES BO SHEPPARD	Meeting allowance January 2021	-100.00
Bill Pmt -Check	01/14/2021	48897	LARRY KIRK	Meeting allowance January 2021	-100.00
Bill Pmt -Check	01/14/2021	48898	MELISSA SCHUSTER	Meeting allowance January 2021	-100.00
Bill Pmt -Check	01/14/2021	48899	MICHAEL BARTH	Meeting allowance January 2021	-100.00
Bill Pmt -Check	01/14/2021	48900	PHILIP LAROCCA	Meeting allowance January 2021	-100.00
Bill Pmt -Check	01/14/2021	48901	STEVE OSTLING	Meeting allowance January 2021	-100.00
Bill Pmt -Check	01/21/2021	48902	ADVANCED DOCUMENT CONCEPTS	Dec 2020 Contract services for printers	-116.57
Bill Pmt -Check	01/21/2021	48903	ALHAMBRA & SIERRA SPRINGS	12/15/20 water delivery and cooler rental fees	-471.34
Bill Pmt -Check	01/21/2021	48904	ALL METALS SUPPLY INC	Steel piece for old tank truck	-11.49
Bill Pmt -Check	01/21/2021	48905	AN HONEST SMOG	Vehicle #159 Smog	-36.75
Bill Pmt -Check	01/21/2021	48906	BETTER DEAL EXCHANGE	Adapter, brass shrub, misc parts for Tank Truck	-42.87
Bill Pmt -Check	01/21/2021	48907	BL GRIFFIN COMPANY	First quarter monthly inspections for Jan, Feb and March. Annual employee training and inspection.	-830.44
Bill Pmt -Check	01/21/2021	48908	CARROT TOP INDUSTRIES INC	2 American flags and 6 District logo flags	-490.80
Bill Pmt -Check	01/21/2021	48909	CLARKE MOSQUITO CONTROL PRODUCTS INC	Solenoid assy replacement for fogger	-178.64
Bill Pmt -Check	01/21/2021	48910	COMCAST BUSINESS	8155600281514342 1/6-2/5/21 Chico	-148.10
Check	01/21/2021	48911	ESPLANADE OFFICE	VOID: reissued with check # 48942	0.00
Bill Pmt -Check	01/21/2021	48912	GOLDEN STATE RISK MANAGEMENT AUTHORITY	February 2021 Health Insurance	-31,445.00
Bill Pmt -Check	01/21/2021	48913	GRIDLEY COUNTRY FORD	4 New F-150 Ford pickups	-115,146.80
Bill Pmt -Check	01/21/2021	48914	HARBOR FREIGHT TOOLS	Vehicle cleaning supplies	-93.28
Bill Pmt -Check	01/21/2021	48915	HOME DEPOT	High performance indoor air filters, Vinyl tubing for Tank truck and bimetal hole saw for the shop	-293.29
Bill Pmt -Check	01/21/2021	48916	JOHNSTON AIRCRAFT SERVICE INC	Jaws- fittings and hose	-262.90
Bill Pmt -Check	01/21/2021	48917	KIMBALL MIDWEST	Washers, screws, rings, etc.	-328.77
Bill Pmt -Check	01/21/2021	48918	LES SCHWAB TIRE CENTER	2010 Dodge Dakota tires	-870.57
Bill Pmt -Check	01/21/2021	48919	MAC TOOLS	Battery tool kit and metal locking flex	-258.47
Bill Pmt -Check	01/21/2021	48920	MATSON & ISOM TECHNOLOGY CONSULTING	Monthly Billing for January	-1,676.50
Bill Pmt -Check	01/21/2021	48921	MEDICAL EYE SERVICES	February 2021	-299.48
Bill Pmt -Check	01/21/2021	48922	MINASIAN MEITH SOARES SEXTON & COOPER LP	December 2020 Camp Fire services	-320.00
Bill Pmt -Check	01/21/2021	48923	MODERN CARPET CLEANING	12/29/20 Carpet cleaning in Oroville admin building	-152.50
Bill Pmt -Check	01/21/2021	48924	NEAL ROAD LANDFILL	Dump fee	-22.74
Bill Pmt -Check	01/21/2021	48925	NORTHGATE PETROLEUM CO	1500 Unleaded fuel for Oroville and Chico fuel	-4,456.95
Bill Pmt -Check	01/21/2021	48926	O'REILLY	Hose	-49.44
Bill Pmt -Check	01/21/2021	48927	PACIFIC GAS AND ELECTRIC	Chico/Oroville Monthly Utility bill	-1,604.76
Bill Pmt -Check	01/21/2021	48928	PBM SUPPLY & MFG INC	Pump, pipe, and strainer for Old Tank Truck.	-279.15
Bill Pmt -Check	01/21/2021	48929	PRINTWORX	Business cards for New hired employee	-51.16
Bill Pmt -Check	01/21/2021	48930	QUILL CORPORATION	36 ring binders, tape, colored memo book, markers, misc office supplies	-709.52
Bill Pmt -Check	01/21/2021	48931	RABCO PAYROLL SERVICES INC	January 2021 timekeeping system	-135.00
Bill Pmt -Check	01/21/2021	48932	RECOLOGY BUTTLE COLLUSA COUNTIES	December 2020 waste services	-115.95
Bill Pmt -Check	01/21/2021	48933	RIEBES AUTO PARTS	Oil filter, air filter, cabin air filter, wiper blades, and misc auto brakes.	-512.38
Bill Pmt -Check	01/21/2021	48934	SCHAEFFER MFG CO	55 gals Oil and Recycle Fee for Loader truck	-1,445.22
Bill Pmt -Check	01/21/2021	48935	SUN LIFE FINANCIAL	February 2021	-2,452.13
Bill Pmt -Check	01/21/2021	48936	UNIFIRST CORPORATION	Uniform rentals for staff.	-668.80
Bill Pmt -Check	01/21/2021	48937	UPS	1/11/2021 shipment	-44.25
Bill Pmt -Check	01/21/2021	48938	US BANK CORP PAYMENT SYSTEMS	12/21-1/20/2021 various credit card purchases; Payroll system annual fee, office supplies, and misc.	-1,460.81
Bill Pmt -Check	01/21/2021	48939	WALMART COMMUNITY	Plastic containers used for the lab	-17.28
Bill Pmt -Check	01/21/2021	48940	WASTE MANAGEMENT	12/1-12/31/20 Chico services	-28.62
Bill Pmt -Check	01/21/2021	48941	WAXIE SANITARY SUPPLY	TP, Paper towels, gloves, and urinal mats	-388.04
Bill Pmt -Check	01/21/2021	48942	ESPLANADE OFFICE	New furniture for Regional Superior and Vecto Ecologist/ Fish Biologists office	-4,057.21
Paycheck	01/27/2021	48943	BALL, MATTHEW C	Paycheck	-3,302.93

Butte County Mosquito and Vector Control District  
End of Month Check Register  
As of January 31, 2021

Type	Date	Num	Name	Memo	Amount
Paycheck	01/27/2021	48944	BOYD, DELBERT L	Paycheck	-2,336.27
Paycheck	01/27/2021	48945	BRADFORD, AMANDA M	Paycheck	-2,222.18
Paycheck	01/27/2021	48946	CASSITY, SHANE M	Paycheck	-1,564.35
Paycheck	01/27/2021	48947	DELRIO CARRIEDO, EDITH	Paycheck	-1,577.23
Paycheck	01/27/2021	48948	DILLARD, ERIC L	Paycheck	-1,635.48
Paycheck	01/27/2021	48949	FAVILLA, CHARLES L	Paycheck	-1,387.52
Paycheck	01/27/2021	48950	GOFF, AARON P	Paycheck	-1,382.63
Paycheck	01/27/2021	48951	HENRY, PHILLIP D	Paycheck	-1,904.74
Paycheck	01/27/2021	48952	LASIK, DONALD A	Paycheck	-1,480.10
Paycheck	01/27/2021	48953	LUMSDEN, AARON L	Paycheck	-1,902.70
Paycheck	01/27/2021	48954	ROBERTSON, SHANE E	Paycheck	-20.37
Paycheck	01/27/2021	48955	ROTHENWANDER, RYAN R	Paycheck	-1,880.74
Paycheck	01/27/2021	48956	SANDOVAL-SORIA, MARITZA L	Paycheck	-1,900.95
Paycheck	01/27/2021	48957	VICE, ELIZABETH L	Paycheck	-1,764.68
Paycheck	01/27/2021	48958	WESEMAN, DOUGLAS E	Paycheck	-2,006.77
Paycheck	01/27/2021	48959	WILLIAMS, GLEN L	Paycheck	-1,892.19
Liability Check	01/27/2021	48960	ICMA RETIREMENT CORPORATION	Deferred comp employee contributions	-2,347.94
Liability Check	01/27/2021	48961	VALIC	Deferred comp employee contributions	-1,050.00
Liability Check	01/27/2021	48962	MECHANICS BANK	4 employee HSA contributions	-594.23
Liability Check	01/13/2021	2270-900882	BUTTE COUNTY TREASURER FORM 8109B	Federal Taxes	-13,563.44
Liability Check	01/13/2021	2270-900883	EMPLOYMENT DEVELOPMENT DEPT	State Taxes	-6,249.36
Liability Check	01/13/2021	2270-900884	PUBLIC EMPLOYEES RETIREMENT	PERS	-9,202.65
Liability Check	01/27/2021	2270-900885	BUTTE COUNTY TREASURER FORM 8109B	Federal Taxes	-12,474.68
Liability Check	01/27/2021	2270-900886	EMPLOYMENT DEVELOPMENT DEPT	State Taxes	-5,294.76
Liability Check	01/27/2021	2270-900887	PUBLIC EMPLOYEES RETIREMENT	PERS	-9,215.17
					<u>-327,235.35</u>
Total 1010 - Cash in County Treasury					<u>-327,235.35</u>
TOTAL					<u>-327,235.35</u>



RECEIVED  
JAN 1 1 2021  
BY: .....

Phillip Henry  
Technician  
B.C.M.V.C.D  
Jan 11, 2021

Matt Ball  
Manager  
B.C.M.V.C.D  
5117 Larkin Rd.  
Oroville Ca. 95965

Dear Matt:

Please accept this letter as my formal notice of resignation. I will be retiring at the end of Jan 2021. I feel it is very important to give you time to find my replacement as I will not be here for the 2021 Mosquito season.

I am very grateful for having had the opportunity to work at this District for so many years. I will sincerely miss my coworkers, and this management team.

Sincerely:

Phillip Henry  
B.C.M.V.C.D Technician

Donald Lasik  
55 Melrose Drive Oroville, CA 95966

1/14/20

Matthew Ball  
BCMVCD - District Manager  
5117 Larkin Road  
Oroville, CA 95965

Dear Mr. Ball,

I would like to inform you that I will be retiring effective in the month of May 2021. May 6<sup>th</sup> 2021 should be my last day of employment with this district. I plan on working until February 25<sup>th</sup> 2021; at which time I will begin using my vacation time into the month of May 6<sup>th</sup> 2021. While I look forward to enjoying my retirement, I will miss the many people that have made my job enjoyable at times. I know you want to fill my position so this letter is being written today to give you plenty of time.

Signed Donald Lasik

Donald Lasik  
JAN 14<sup>TH</sup> 2021



# **BUTTE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT**

*From the Desk of  
District Manager Matthew C. Ball*

February 2, 2021

Butte County Mosquito and Vector Control District  
Board of Trustees  
Attention: President Beck  
5117 Larkin Road  
Oroville, CA 95965-9250

***Re: District Manager Contract Extension***

Dear members of the Board of Trustees,

I am writing to request a one-year contract extension to the current employment agreement between the District and District Manager. I am satisfied and feel privileged with the current language and terms of the contract. I do not wish to renegotiate terms at this time.

I have been honored and privileged to serve as your District Manager for the past thirteen years and it is my intention and hope to serve many more. I firmly believe that I have a strong bond and great communication lines with each of you, the District's staff, and the public the District serves. I feel strongly that together, we have completed an abundance of projects and achieved many goals over the past twelve years and I am excited to see what we can accomplish in the future.

Looking forward to progressively leading the District for many years to come.

Respectfully,

A handwritten signature in blue ink, appearing to read 'Matthew C. Ball'.

Matthew C. Ball  
District Manager

mcb