# AGENDA

# 1115<sup>th</sup> MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT JULY 12TH, 2023

- TIME: 5:00 P.M. PLACE: Join in person at the Office of the District 23187 Connecticut Street, Hayward, CA 94545 or Join remotely via teleconference: https://us02web.zoom.us/j/87507712016 see below for additional details. TRUSTEES: Victor Aquilar, President, City of San Leandro Cathy Roache, Vice-President, County-at-Large Steven Cox, Secretary, City of Livermore Tyler Savage, City of Alameda: from 2315 Lincoln Ave, Alameda, CA Robin López, City of Albany: from 1000 San Pablo Ave, Albany, CA P. Robert Beatty, City of Berkeley Kashef Qaadri, City of Dublin Courtney Welch, City of Emeryville: from 6301 Shellmound St, Emeryville CA George Young, City of Fremont George Syrop, City of Hayward Eric Hentschke, City of Newark Jan O. Washburn, City of Oakland Hope Salzer, City of Piedmont: from 76 Cambrian Ave, Piedmont, CA Valerie Arkin, City of Pleasanton: from 3740 Newton Way, Pleasanton, CA Subru Bhat, City of Union City
- 1. Call to order.
- 2. Roll call.
- 3. President Aguilar invites any member of the public to speak at this time on any issue relevant to the district (each individual is limited to three minutes).
- 4. Approval of the minutes of the 1114<sup>th</sup> Regular Meeting held June 14<sup>th</sup>, 2023 (**Board action required**).
- 5. Presentation by the General Manager and Field Operations Supervisor, Joseph Huston: *Malaria & Alameda County* (Information only):
- 6. ACMAD Manager Evaluation Committee Annual Evaluation Process (Information only)
  - a. October 11<sup>th</sup>, 2017, 1049<sup>th</sup> meeting minutes
- 7. Financial Reports as of June 30<sup>th</sup>, 2023: (Information only).
  - a. Check Register
  - b. Income Statement
  - c. Investment, reserves, and cash report
  - d. Balance Sheet
- 8. Presentation of the Monthly Staff Report (Information only).
- 9. Presentation of the Manager's Report (Information only).
  - a. Staff Anniversary Recognitions

- CSDA Annual Conference: Monday, August 28<sup>th</sup> Thursday, August 31<sup>st</sup> in Monterey
- c. Special District Leadership Academy: October 22-25, Santa Rosa, CA
- d. Training due: AB 1825: Young
- 10. Board President asks for reports on conferences and seminars attended by Trustees.
- 11. Board President asks for announcements from members of the Board.
- 12. Board President asks trustees for items to be added to the agenda for the next Board meeting.
- 13. Adjournment.

ANYONE ATTENDING THE MEETING MAY SPEAK ON ANY AGENDA ITEM AT THEIR REQUEST.

Please Note: 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 Ryan Clausnitzer at least 48 hours before the meeting at 510-783-7744 or <a href="mailto:accmad@mosquitoes.org">accmad@mosquitoes.org</a>.

#### IMPORANT NOTICE REGARDING MEETING PARTICIPATION:

All members of the public seeking to observe and/or to address the local legislative body may participate in the meeting by attending in person at the address listed above, telephonically, or otherwise electronically in the manner described below.

#### HOW TO OBSERVE THE MEETING:

**In Person:** Attend in person at the Office of the District located at 23187 Connecticut Street, Hayward, CA 94545. **Telephone**: Listen to the meeting live by calling Zoom at **(669) 900-6833** Enter the **Meeting ID#** 875 0771 2016 followed by the pound (#) key.

**Computer**: Watch the live streaming of the meeting from a computer by navigating to <u>https://us02web.zoom.us/j/87507712016</u>

Mobile: Log in through the Zoom mobile app on a smartphone and enter Meeting ID# 875 0771 2016 HOW TO SUBMIT PUBLIC COMMENTS:

**Before the Meeting:** Please email your comments to <u>acmad@mosquitoes.org</u>, write "Public Comment" in the subject line. In the body of the email, include the agenda item number <u>and</u> 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 <u>before 12:00 PM the day of the meeting</u> will be included as an agenda supplement on the District's website under the relevant meeting date and provided to the Trustees at the meeting. Comments received after this time will not be read aloud but will be added to the record after the meeting.

**During the Meeting**: The Board President or designee will announce the opportunity to make public comments. Speakers will be asked to provide their name and city of residence, although providing this is not required for participation. Each speaker will be afforded up to 3 minutes to speak unless another time is specified. Speakers should remain silent and/or will be muted until their opportunity to provide public comment.

In Person: Members of the public may raise their hand and wait to be recognized by the Board President or designee. Telephone: Press star (\*)9, which will alert staff that you have a comment to provide.

Computer or Mobile: Use the "raise hand" feature to alert staff that you have a comment to provide.

#### 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 <a href="https://www.mosquitoes.org/board-of-trustees-regular-meetings">https://www.mosquitoes.org/board-of-trustees-regular-meetings</a> as the place for making those public records available for inspection. The documents may also be obtained by emailing <a href="https://www.goaguitoes.org">acmad@mosquitoes.org</a>.

#### CEQA NOTICE:

Unless expressly stated otherwise on the agenda (that an MND or EIR is being considered), discretionary actions taken on agenda items will include a finding by the Board that the action is exempt under CEQA. More information about the CEQA determination can be found in the corresponding staff report.

# MINUTES

# 1114<sup>th</sup> MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT

June 14<sup>th</sup>, 2023

TIME: PLACE:	5:00 P.M. Hybrid Meeting of the Board of Trustees Physically held at the Office of the District 23187 Connecticut Street, Hayward, CA 94545 and Talaganfarancing at https://www.acam.ug/i/85140817481
TRUSTEES:	Teleconferencing at: https://us02web.zoom.us/j/85149817481 Victor Aguilar, President, City of San Leandro Cathy Roache, Vice-President, County-at-Large Steve Cox, Secretary, City of Livermore Tyler Savage, City of Alameda Robin López, City of Albany: from 1000 San Pablo Ave, Albany, CA P. Robert Beatty, City of Berkeley Kashef Qaadri, City of Dublin Courtney Welch, City of Emeryville: from 6301 Shellmound St, Emeryville, CA George Young, City of Fremont George Syrop, City of Hayward Eric Hentschke, City of Newark Jan O. Washburn, City of Oakland Hope Salzer, City of Piedmont: from 76 Cambrian Ave, Piedmont, CA Valerie Arkin, City of Pleasanton: from 3740 Newton Way, Pleasanton, CA Subru Bhat, City of Union City

1. Board President Aguilar called the regularly scheduled board meeting to order at 5:00 P.M.

2. Trustees Aguilar, Roache, Cox, Beatty, Qaadri, Young, Syrop, Hentschke, Washburn, and Bhat were present in-person at the district. Trustees Lopez, Welch, Salzer, and Arkin attended remotely from the publicly posted locations noted above. Trustees Cox, Savage, and Beatty were absent.

3. President Aguilar invited members of the public to speak on any issue relevant to the district. Lab Director, Eric Haas-Stapleton and Regulatory and Public Affairs Director, Erika Castillo were present for item number 10. Vector Biologist, Sarah Lawton, was present to record the minutes. General Manager, Ryan Clausnitzer, attended remotely. Information & Technology Director, Robert Ferdan, attended remotely for technical support. No public comments were submitted.

4. Introduction of new Board Member, George Syrop representing the City of Hayward. **Discussion:** Trustee Syrop introduced himself by stating that he became a Hayward Councilmember in November and has lived here in Hayward for most of his life. He is excited to work with everyone.

5. Approval of the minutes of the 1113<sup>th</sup> meeting held May 10<sup>th</sup>, 2023.

**Motion:** Trustee Washburn moved to approve the minutes **Second:** Trustee Qaadri **Vote:** motion carries: Trustee Syrop abstains.

## 6. Public Hearing on the proposed tax rate.

**Discussion:** Trustee Qaadri asked for an explanation of the difference in what was originally approved versus what is collected. The General Manager explained the while the public approved a \$5.00 assessment in 2008, the Board has only accepted \$2.50 since. Trustee Salzer noted that the vote is structured as a yes/no vote, and she is opposed to the structure of the tax which bases a single-family equivalent rate at 1 acre which is much larger than the average property in Alameda County. Trustee Welch asked since the tax has increased to \$7.75, could we collect the full amount? The General Manager explained that while the Board could make that decision, the staff recommendation is to keep it at \$2.50. Trustee Bhat added that district work is managed very well with just the \$2.50, so he does not feel it is justified to ask for more.

 Resolution 1114-1, a resolution ordering the levy of assessments for fiscal year 2023-24 for the Alameda County Mosquito Abatement District Mosquito and Disease Control Assessment.

Discussion: None

Motion: Trustee Hentschke moves to approve the resolution

Second: Trustee Roache

Vote: motion carries: Trustee Salzer abstains.

- 8. Closed session to discuss the General Manager's twelve-month evaluation pursuant to Government Code Section 54957.6. The Board came out of closed session with nothing to report.
- 9. Compensation recommendation of General Manager Ryan Clausnitzer based on a recommendation from the Manager Evaluation Committee and according to the employee contract.

**Discussion:** A 5% increase and 1% performance bonus are recommended based on his already-approved 3-year contract.

Motion: Trustee Washburn moves to accept the recommendation

Second: Trustee Bhat

Vote: motion carries: unanimous

10. Presentation by Lab Director, Eric Haas-Stapleton, PhD and Regulatory and Public Affairs Director, Erika Castillo: *Aedes aegypti & albopictus; knock knock knocking on Alameda County's door.* 

**Discussion:** The General Manager explained that with many new Board members, it is a good time to discuss the importance of these mosquitoes. **Questions for Eric Haas-Stapleton's section:** Trustee Salzer asked if the 22 species in Alameda County are native (yes), if it is known how the mosquitoes have spread so quickly (yes since eggs are laid on plants, eggs can spread when plants are shipped throughout the state; adults are also easy to travel in vehicles), and about the abnormal altitudes they are inhabiting (researchers did not anticipate that they could live in underground vault/pipe systems, that is one reason they are successful in unusual areas), and if all current disease cases are travel related (yes the Alameda County Public Health Department conducts an investigation asking about prior travel, and no local transmission has been found). Trustee Bhat asked if we change our focus on these new

mosquitoes, will it affect our workload (yes, staff are at their workload limit so we would likely hire dedicated staff for these invasives species. Trustee Roache mentioned that to control the Mediterranean fruit fly, sterile male releases were done in the past as well. Trustee Salzer asked if there is any comparative information about how much water is required for our native mosquitoes, compared to the teaspoon amount for Ae. Aegypti (WNV species require much more water to grow). Questions for Erika Castillo's section: Trustee Salzer asked if we know how well the "service gaps" have been closed (the General Manager added that since Judith Pierce was hired in 2020, she has spent much of her focus on targeting those areas), what is the scale of new expenses spent on invasive Aedes related to the budget of districts (that information was not in the refenced survey, but comparing our mid-range budget to other districts, one can assume that the average increased costs would be similar). Trustee Syrop asked if we need more staff, will the current taxation (discussed in item 6 & 7) be enough (yes, up-staffing would be immediate and short-term increases would be covered by a dedicated reserve fund). Trustee Syrop followed up by saying the City of Hayward has small community groups, are those part of public outreach (yes, similar to other districts that have created community liaisons connected with these organizations) and stressed how language barriers are an important part of this outreach. Trustee Salzer asked if we have any information now about how the public reacts if they are bothered by mosquitoes, for example, if they are using pesticides themselves? (ACMAD has not done an Alameda County specific survey, but California did a survey with those questions, and they broke down responses by region along with Contra Costa County, which asked these questions which the General Manager would be happy to share). Trustee Arkin asked about bird baths and what can people do to prevent mosquitoes (typically, bird baths dry up relatively quickly, and when refilled it is best to spray and scrub the bath to rinse it, in case there are any eggs present and asked about the recent WNV positive cases (to be discussed later in this meeting during the lab's staff report).

## 11. Financial Reports as of May 31<sup>st</sup>, 2023:

**Discussion:** The General Manager pointed out items of interest and summarized report.

#### 12. Presentation of the Monthly Staff Report.

**Discussion:** Eric Haas-Stapleton summarized the Lab's report. Trustee Salzer asked about the three diseases (WNV, WEE, SLE) and since they are carried by our three local *Culex* species; can invasive *Aedes* spread these as well (invasive *Aedes* have shown no documented transmission of these diseases, and likewise, the local *Culex* species cannot transmit Zika, Dengue, Yellow Fever, and Chikungunya). Trustee Syrop asked if there is an interactive version of the lab's report so that Trustees can look at it more closely. Not currently and the General Manager added that hopefully there will be a statewide website (Vectosurv) that would include input from all districts. Erika Castillo summarized the Public Outreach report. Trustee Arkin asked about the WNV found in Pleasanton--where were the two birds found (in someone's front yard near Stoneridge Mall). Trustee Arkin followed up asking what kind of notification is given to residents after a positive case (reported on our website with a press release for the first detection of each year, and as needed). Trustee Arkin requested that we perhaps have a booth at a Pleasanton farmer's market (the General Manager will work with the outreach team on this). Trustee Roache asked if we will be at the County Fair and that it will be in Pleasanton (Yes, we will have a booth up for the entire duration of the County Fair).

13. Presentation of the Manager's Report.

Discussion: Trustee Bhat added that CSDA meetings are beneficial to attend.

14. Board President asks for reports on conferences and seminars attended by Trustees. **Discussion:** None

15. Board President asks for announcements from members of the Board. **Discussion:** Trustee Syrop added that he is thankful to be here and contribute to combatting our common enemy: mosquitoes.

16. Board President asks Trustees for items to be added to the agenda for the next Board meeting.

**Discussion:** Trustee Syrop requested more discussion regarding what Trustee Salzer brought up related to our taxation structure--not immediately but when it is appropriate (yes). Trustee Syrop also asked if climate complications are built into our strategic (action) plan (yes, warming temperatures and rising sea levels have been discussed and will affect mosquitoes). Trustee Arkin asked if there is any modification for meetings during the summer months (no, still on the 2<sup>nd</sup> Wednesday.) Trustee Salzer requested more inclusion on the Manager Evaluation committee (the ad hoc committee is formed in January, but the General Manager will work with the existing committee to address any concerns.

17. Adjournment at 7:28 pm.

# Respectfully submitted,

Approved as written and/or corrected at the 1115<sup>th</sup> meeting of the Board of Trustees held July 12<sup>th</sup>, 2023.

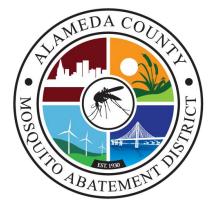
Victor Aguilar, President BOARD OF TRUSTEES Steven Cox, Secretary BOARD OF TRUSTEES

# Malaria and Alameda County

**Ryan Clausnitzer** General Manager & **Joseph Huston** Field Operations Supervisor

Alameda County Mosquito Abatement District Board of Trustees

July 12, 2023





# Malaria in the news...

# 5 people contract malaria within U.S. borders — first such cases in two decades

The last confirmed instance of local transmission happened in 2003, when eight people became infected in Palm Beach County, Fla., the CDC said.

By Brittany Shammas

https://www.washingtonpost.com/health/2023/06/26/cdc-malaria-cases-sarasota-county-florida-texas/

Download <u>The Washington Post app</u>. https://www.washingtonpost.com/health/2023/06/26/cdc-malaria-cases-sarasota-county-florida-texas/

# In the U.S., the world's deadliest animal is on the move

Mosquitoes' ranges are spreading in the United States and across the globe as the planet warms, sparking concern that they will exact an even deadlier toll. By Shannon Osaka

https://www.washingtonpost.com/climate-environment/2023/07/01/mosquito-days-malaria-texas-florida/

Download <u>The Washington Post app</u>. https://www.washingtonpost.com/climate-environment/2023/07/01/mosquito-days-malaria-texas-florida/



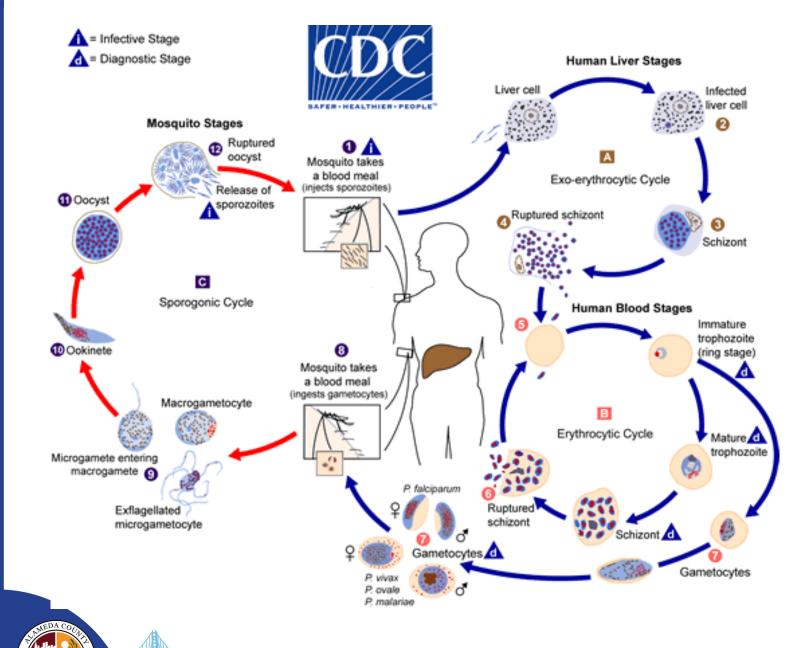
# Overview

- Life cycle of the malaria pathogen
- Historical significance and malaria causal discovery
- Malaria in California
- Competent vectors in Alameda and where to find them
- Future concerns



Anopheles mosquito

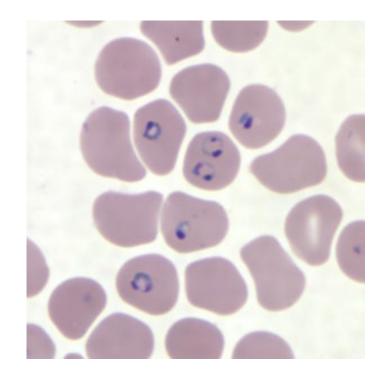




# Causal agent:

Plasmodium spp:

P. falciparum, P. vivax, P. ovale and P. malariae.



Rings of P. falciparum in a thick blood smear (courtesy of CDC)

# Mal'aria "bad air"

Claimed 150-200 million lives, or, 2-5% of all lives in 20<sup>th</sup> century<sup>1.</sup> According to the World Health Organization, 619,000 deaths in 2021 from 247 million infections.

Antigens found in Egyptian remains dating from 3200-1400BC, also mentioned in ancient India, Chinese, Greek, and Roman writings (which may have contributed to the fall of Rome)<sup>2,3</sup>

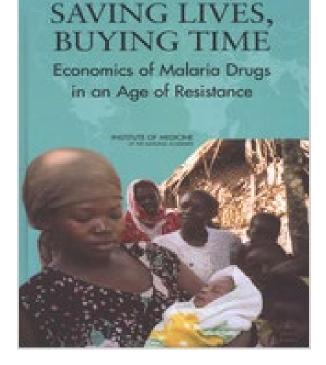
Imported to the New World by explorers and enslaved Africans—who were initially protected by genetic defenses (sickle cell anemia)<sup>3</sup>

While a plague to the United States until the early 20<sup>th</sup> century, Africa has always been the most affected population (currently, >95% of cases). Children under 5 account for 80% of deaths.

<sup>1</sup>Carter R, Mendis KN. 2002. Evolutionary and historical aspects of the burden of malaria. *Clinical Microbiology Reviews* 15(4):564-594.

<sup>2</sup>Miller RL, Ikram S, Armelagos GJ, Walker R, Harer WB, Shiff CJ, Baggett D, Carrigan M, Maret SM. 1994. Diagnosis of *Plasmodium falciparum* infections in mummies using the rapid manual ParaSight-F test. *Transactions of the Royal Society of Tropical Medicine and Hygiene* 88(1):31-32.

<sup>3</sup>Sherman IW. 1998. A brief history of malaria and discovery of the parasite's life cycle. In: Sherman IW, editor., ed. *Malaria: Parasite Biology, Pathogenesis and Protection*. Washington, DC: ASM



# Excerpts from:

Saving Lives, Buying Time: Economics of Malaria Drugs in an Age of Resistance.

Institute of Medicine (US) Committee on the Economics of Antimalarial Drugs; Arrow KJ, Panosian C, Gelband H, editors.

Washington (DC): National Academies Press (US); 2004.

# Miasma gives way to mosquito-malaria theory

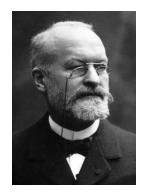
The Nobel Prize in Physiology or Medicine 1902 was awarded to **Ronald Ross** "for his work on malaria, by which he has shown how it enters the organism and thereby has laid the foundation for successful research on this disease and methods of combating it" <sup>1</sup>





An 1831 color lithograph by Robert Seymour depicts cholera as a robed, skeletal creature emanating a deadly black cloud.

The Nobel Prize in Physiology or Medicine 1907 was awarded to **Charles Louis Alphonse Laveran** "in recognition of his work on the role played by protozoa in causing diseases"<sup>1</sup>





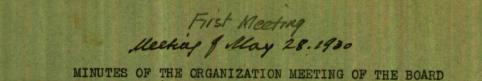
<sup>1</sup>The Nobel Prize in Physiology or Medicine 1902, 1907. NobelPrize.org. Nobel Prize Outreach AB 2023. Wed. 5 Jul 2023. <a href="https://www.nobelprize.org/prizes/medicine/1907/summary/">https://www.nobelprize.org/prizes/medicine/1907/summary/</a>

# Eight years after the Nobel prizes related to malaria-

1915: Mosquito Abatement Act of California

# Sucramento, Cal.

# 1930: ACMAD Founded



MINUTES OF THE ORGANIZATION MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT (Meeting Adjourned from April 14, 1930)

The Certificate of Incorporation of the Alameda County Mosquito Abatement District was filed by the County Clerk of the County of Alameda, by registered mail, return receipt requested, with the Secretary of State of the State of California, at Sacramento, California, on March 14, 1930.





# Malaria in California<sup>1,2</sup>

Likely brought to California in the 1830s by fur trappers from the Hudson Bay Company.

Contributing factor to the loss of many native American tribes.

By the 1950s, malaria is endemic with periodic epidemics of locally acquired malaria due to travel and returned soldiers.

In 1955, the 8th World Health Assembly launched the Global Malaria Eradication Program.

Implementing control strategies from this campaign, CA went from a high of 2,707 cases of malaria in 1953 to 108 in 1957, to 40 in 1960, and zero by 1978.

A COLOR

<sup>1</sup>A Short History of Malaria in California, San Mateo Mosquito & Vector Control District website <u>https://www.smcmvcd.org/a-short-history-of-malaria-in-california</u>

<sup>2</sup>Humphreys, Margaret. Malaria: Poverty, Race, and Public Health in the United States. United States, Johns Hopkins University Press, 2001.





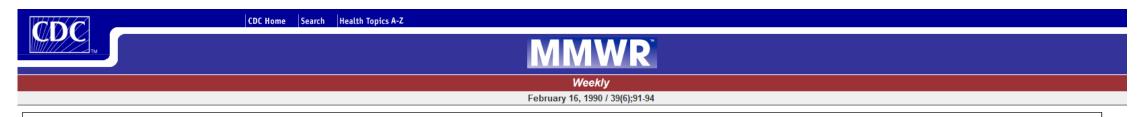
A report of the Strategic Advisory Group on Malaria Eradication



World Health Organization. (2020). Malaria eradication: benefits, future scenarios and feasibility: a report of the Strategic Advisory Group on Malaria Eradication. World Health Organization.

https://apps.who.int/iris/handle/10665/331795. License: CC BY-NC-SA 3.0 IGO

# Last case of local transmission of malaria in California: 1989



Persons using assistive technology might not be able to fully access information in this file. For assistance, please send e-mail to: <u>mmwrq@cdc.gov</u>. Type 508 Accommodation and the title of the report in the subject line of e-mail.

# Transmission of Plasmodium vivax Malaria -- San Diego County, California, 1988 and 1989

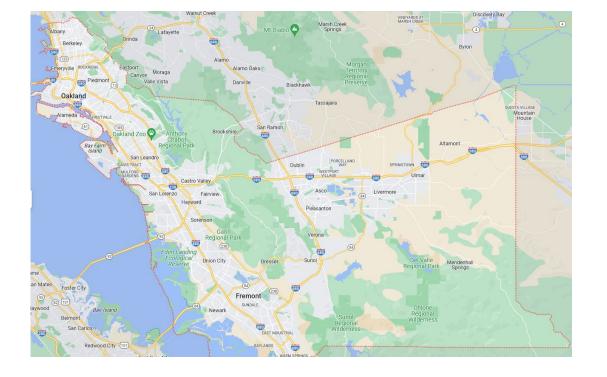
Malaria transmission in the United States occurs infrequently; since 1950, 21 outbreaks of introduced malaria, all caused by Plasmodium vivax, have been identified. However, 14 of these occurred in California (seven during 1986 (1), 1988, and 1989). Four outbreaks--one each in 1986 (1) and 1988 and two in 1989--occurred in San Diego County. This report describes the outbreaks in San Diego County in 1988 and 1989. August 1988

On August 2, 1988, a migrant worker who lived in a canyon near the Lake Hodges reservoir (25 miles north of San Diego) (Figure

1. was diagnosed with P. vivax infection. Twelve other workers who lived in the same area and had symptoms sug gestive of malaria were referred by a public health nurse for diagnosis; on August 3, P. vivax parasitemia was confirmed in all 12 workers.



# Several travel-related cases in Alameda County investigated annually by ACMAD staff.





#### ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY PUBLIC HEALTH DEPARTMENT

Division of Communicable Disease Control and Prevention 1100 San Leandro Blvd, 3<sup>rd</sup> Floor San Leandro, CA 94577 Tel (510) 267-3250 Fax (510) 273-3744 Colleen Chawla, Agency Director Kimi Watkins-Tartt, Department Director

Nicholas Moss, MD, MPH, Director & Health Officer and Communicable Disease Controller

# **FAX COVER SHEET**

Urger	nt, please hand deliver 🛛 Confidential	Reply Requested
Date:	/ /2022	
То:	pathogens@mosquitoes.org Fa	х:
From:	ACD [Sender is exempt from requiring	g authorization per HIPAA [citation 164.512 (b)]
Phone:	Fax:	
Number of	f pages (including cover sheet):1	
	gue Fever 🔲 Encephalitis 🔀 Malaria 🔲 V ungunya 🔲 Zika	WNV 🗌 Yellow Fever
City: Oakla Street: Block:	and	
Travel to a	a foreign country within incubation period?	/es, where:
Any mosq	Ith interview conducted? 🗌 No 🛛 Yes uito bite since return from travel? 🖾 No 🔲 Yes, city: tion to speak to Mosquito Abatement District? 🗌 No 💈	Yes (if yes fill below)

# **Anopheles species in Alameda County**

# Anopheles punctipennis

"Woodland malaria mosquito". Coastal and foothill regions of CA north of the Tehachapi mountains. Overwinter as adult females. Shaded areas in creeks, heavily vegetated margins of slow-moving streams/creeks, and pools with abundant algae. Tend to bite at night, prefer large mammals. Will feed on humans but tend to not enter dwellings. Primary potential malaria vector in woodland/foothill situations in CA.

# Anopheles freeborni

"Western malaria mosquito". Found in most of CA. Clear water, sunlit algae-laden pools/ponds. Very abundant in rice fields. Overwinter as adult females. Active mainly at dusk, will fly long distances. Feed on most mammals, readily enter dwellings and feed on humans. Primary vector of malaria in the Sacramento valley region.

# Anopheles franciscanus

Widespread in CA. Larvae in shallow sunlit pools, margins of receding streams amongst algae. Overwintering as adult females . Active at dusk, reluctant to enter dwellings, prefer small or large mammals tend to not bite humans.

Considered to have low potential to vector malaria to humans.

# Anopholes occidentalis

Coastal regions, Santa Barbra County northward in CA. Active primarily May-July . Small pools, slow moving streams, ponds and lakes can tolerate fairly brackish water. Overwinter as adult females. Very reluctant to enter dwellings, feed on large mammals but usually not humans. Considered to have a low potential to vector malaria.









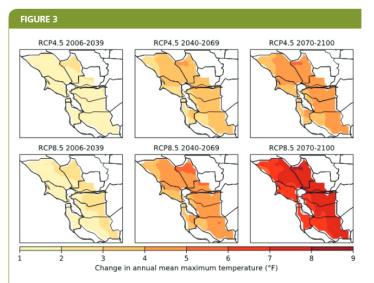


# **Future threats**

Human-made algae sources (water storage)

Temperature, rainfall, & humidity fluctuations

Loss of mosquito control options: resistance, regulations, small market

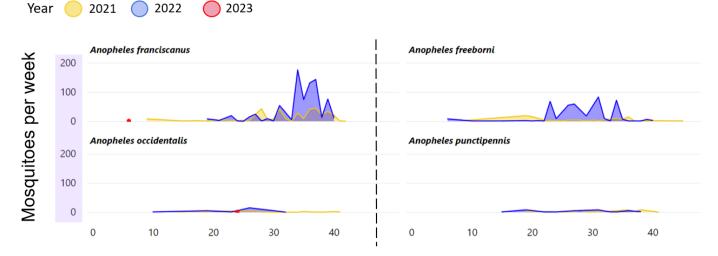


Spatial patterns of projected model-average change in annual mean maximum temperature (unit: °F) under RCP4.5 and RCP8.5 for three time periods: 2006-2039 (early-21st century), 2040-2069 (mid-21st century), and 2070-2100 (late 21st-century). Unit is °F.

Ackerly, David, Andrew Jones, Mark Stacey, Bruce Riordan. (University of California, Berkeley). 2018. San Francisco Bay Area Summary Report. California's Fourth Climate Change Assessment. Publication number: CCCA4-SUM-2018-005



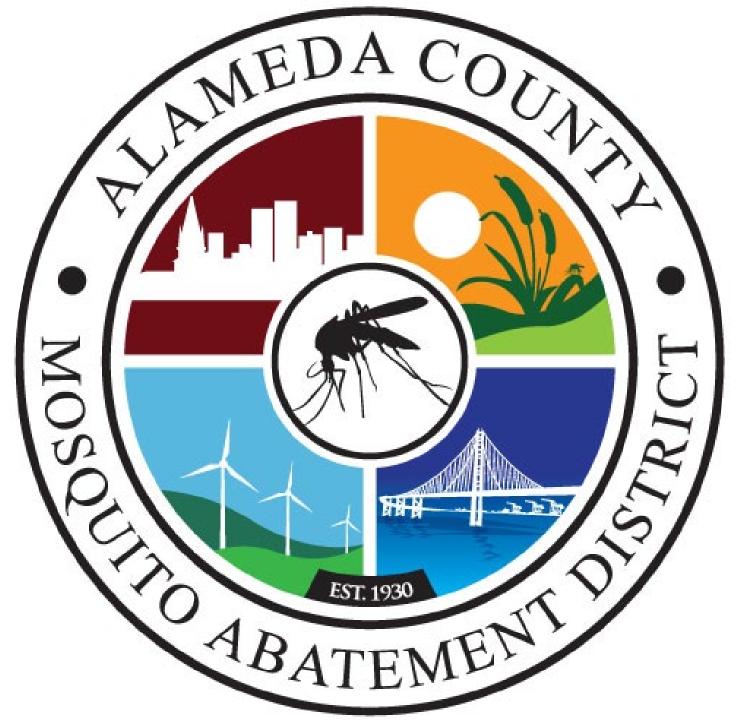
# Anopheles mosquito abundance in Alameda County



Week number mosquito traps were collected

# Thank you.

- <u>Ryan@mosquitoes.org</u>
- Joseph@mosquitoes.org





T: (510) 783-7744 F: (510) 783-3903

acmad@mosquitoes.org

#### **Board of Trustees**

President Victor Aguilar San Leandro Vice-President Cathy Roache County-at-Large Secretary Steven Cox Livermore

Tyler Savage Alameda Robin López Albany P. Robert Beatty Berkeley Kashef Qaadri Dublin Courtney Welch Emeryville George Young Fremont vacant Hayward Jan O. Washburn Oakland Eric Hentschke Newark Hope Salzer Piedmont Valerie Arkin Pleasanton Subru Bhat **Union City** 

**Ryan Clausnitzer** 

General Manager

## ACMAD Manager Evaluation Committee Annual Evaluation Process

Annually in June, the General Manager (GM) is evaluated by the Manager Evaluation Committee (the "committee") which consists of the current Board President, the past Board President, and the future Board President. Additional Trustees may be asked to assist in the process so long as a quorum of the Board is not met. The following timeline will attempt to assist those Trustees assigned to this task:

1. April regular Board meeting (2<sup>nd</sup> Wednesday of April)

An information item in the Manager's report will remind the committee that the evaluation will be due by the June's meeting.

2. Post-April regular board meeting

The GM will contact the committee members with copies of a blank evaluation form, a self-evaluation, the signed evaluation and employment contract from the *prior year*, and contact information for the District's HR consulting services if needed.

The committee, led by the current Board President, will coordinate a meeting time with the other committee members to discuss and complete the evaluation.

3. At least one week before June regular board meeting

The Board President will contact the GM to set up a meeting to discuss the completed evaluation, giving her/him time to review before the June Board meeting. The GM and the committee have the option to meet prior to the June meeting to sign off on the evaluation, and discuss any updates related to compensation which could include a salary survey based on the San Mateo, Contra Costa, Napa, and Marin/Sonoma mosquito districts.

4. Prior to the June regular Board meeting

The Board President, and/or the committee, will meet with the GM prior to the regular board meeting to agree on the evaluation and compensation agreement.

5. June regular Board meeting

After the GM leaves the board room, the committee will provide printed copies of the evaluation to the Board in a closed session for discussion, collecting them after. The committee will also recommend compensation for the upcoming fiscal year.

The Board will come out of closed session, rejoined by the GM, where the Board President will report out the compensation request and ask for a motion to approve this action.

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## Agenda item: 1049.4

## MINUTES

# 1049<sup>th</sup> MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT

OCTOBER 11<sup>TH</sup>, 2017

TIME: PLACE: TRUSTEES:	5:00 P.M. Office of the District, 23187 Connecticut Street, Hayward Kathy Narum, President, City of Pleasanton Elisa Marquez, Vice-President, City of Hayward Wendi Poulson, Secretary, City of Alameda Humberto Izquierdo, County-at-Large P. Robert Beatty, City of Berkeley Richard Guarienti, City of Berkeley Richard Guarienti, City of Dublin Betsy Cooley, City of Emeryville George Young, City of Fremont James N. Doggett, City of Livermore Eric Hentschke, City of Newark Jan O. Washburn, City of Oakland Robert Dickinson, City of Piedmont Ed Hernandez, City of San Leandro
	Robert Dickinson, City of Piedmont Ed Hernandez, City of San Leandro Ronald Quinn, City of Union City

Board President Narum called the regularly scheduled Board meeting to order at 5:03 P.M.

Trustees Narum, Marquez, Poulson, Izquierdo, Beatty, Guarienti, Cooley, Young, Doggett, Hentschke, Hernandez and Quinn were present; Trustees Washburn and Dickinson were absent.

Board President Narum invited members of the public to speak on any issue relevant to the District. Mosquito Control Technician Jeremy Sette was present to record the minutes.

The Board approved the minutes of the 1048<sup>th</sup> meeting held September 13<sup>th</sup>, 2017. Trustee Hernandez requested that the minutes add the specific "PACE" organization to the discussion on east bay solar options. (Quinn, Marquez)– unanimous.

Board President Narum reported on behalf of the Personnel Committee and discussed the approval of an updated District (General) Manager job description and performance evaluation form. The Personnel Committee contracted with an HR consultant to write an updated General Manager job description and performance evaluation form. The job description was re-written to more accurately reflect roles of the General Manager. Vice President Marquez noted that there were 3-4 meetings with consultant during this process. Trustee Guarienti noted that it was beneficial working with the consultant. General Manager Clausnitzer remarked that the titles were already interchangeable, and while it has been tradition at ACMAD to describe the General Manager as District Manager, General Manager more accurately reflects his role to outside agencies. Trustee Cooley asked why the job announcement still says District Manager (this is an old announcement, a newer

one will be adjusted when needed). Vice President Marquez requested new logo be applied (yes). Trustee Beatty asked if the District needed to advertise in this process (no, the Board has that authority to approve). Vice President Marquez asked if trustees could email questions to the General Manager that address the updated General Manager description and evaluation forms (yes, the contract updating agenda item will be at the next meeting which will allow for performance bonuses). Trustee Hentschke asked if the new form will allow for more comment space (yes, answered by Trustee Guarienti). Trustee Hernandez commented that he noticed the section on ethics was removed (ethics is inherent in most categories; performance must be quantifiable).

The General Manager reported on ACMAD's compliance with the Little Hoover Commission's 2017 Special District Report. Vice President Marquez asked how often LAFCO performed a Municipal Service Review (every 3 years or so). Trustee Beatty asked about the Commission's relation to LAFCO (answered by Board President Narum: LAFCO evaluates and enforces governmental boundaries).

The Board reviewed warrants dated September 15, 2017 numbering 013118 through 015418 amounting to \$262,029.37 and warrants dated September 30, 2017 numbering 015518 through 019018 amounting to \$172,892.07 Trustee Beatty asked if the 90% payment for salary and benefits was pre-paid (yes, lump sum payments in July). Vice President Marquez asked about the dental expenses for certain retirees (ACMAD employees retired before 1986 are reimbursed for a set amount per year) and then asked if the board could add a category to track these expenses (yes).

The District Manager presented the Staff report for September 2017. Trustee Hernandez asked for more information about the Bio-Hub project (explained by Trustee Beatty).

The District Manager presented the Manager's report for September 2017. Trustee Beatty asked about how other districts were using drones in the state (others are working mostly with vendors to apply pesticides via drones or using for surveillance only, ACMAD is one of the leaders in drone mosquito control development). Trustee Guarienti asked about the size of a prospective drone used by ACMAD (large, and would most likely carry and disperse liquid larvicide products to save time, work effort, and greatly diminish environmental impact). Trustee Beatty asked about the difference between quarterly and annual conferences (annual conference are for prepared talks; quarterly meetings are informal). Trustee Beatty asked if Board members were CSDA members (yes). Trustee Young commented on his educational, enjoyable, and beneficial experience at the CSDA conference and asked if he should contact his mayor about his reappointment (yes). Board President Narum commented that she was finished with the ethics training, and will send over the certificate. Vice President Marquez suggested that the recent collaboration and educational sessions with CSUEB class be highlighted via social media (yes).

Board President Narum asked for reports on conferences and seminars attended by Trustees. Trustee Young already gave his report on the CSDA conference.

Board President Narum asked for announcements from the Board. None.

Board President Narum asked trustees for items to be added to the agenda for the next Board meeting. Vice President Marquez asked if the General Manager could send an email to those serving on the Sustainability Committee regarding a future brainstorming meeting (yes).

The meeting adjourned at 5:55 P.M.

# Respectfully submitted,

Approved as written and/or corrected at the 1049<sup>th</sup> meeting of the Board of Trustees held October 11th, 2017 Wendi Poulson, Secretary BOARD OF TRUSTEES

Kathy Narum, President BOARD OF TRUSTEES

# Alameda County Mosquito Abatement Dist. Check Register For the Period From Jun 1, 2023 to Jun 15, 2023

Filter Criteria includes: Report order is by Date.

Check #		Payee	Amount
4015	6/14/23	Airgas	1,221.59
4016	6/14/23	AT&T	84.10
4017	6/14/23	Bay Alarm	964.70
4018	6/14/23	Beck's Shoes	190.00
4019	6/14/23	Branan, Thomas	270.00
4020	6/14/23	CarQuest	346.37
4021	6/14/23	CCCMA Occupational Clinic	135.00
4022	6/14/23	Cintas	561.51
4023	6/14/23	Clarke	7,758.60
4024	6/14/23	Coverall North America, Inc.	495.00
4025	6/14/23	Delta Dental	4,424.70
4026	6/14/23	Grainger	183.62
4027	6/14/23	Leading Edge Associate, Inc.	5,100.00
4028	6/14/23	PC Professional	640.00
4029	6/14/23	PFM Asset Management LLC	1,676.26
4030	6/14/23	PG&E	117.97
4031	6/14/23	Techniclean	131.22
4032	6/14/23	Testa, Julie	100.00
4033	6/14/23	UMPQUA Bank Commerical Card OPS	10,201.97
4034	6/14/23	U.S Bank Corporate Payment System	10,217.17
4035	6/14/23	Visalia Times Delta	2,675.00
4036	6/14/23	Voya Institutional Trust Company	181.43
ACH	6/14/23	Alameda County Mosquito Abatement Dist (Payroll)	85,567.76
ACH	6/14/23	CalPERS Retirement	15,730.75
ACH	6/14/23	CalPERS 457	3,782.60
ACH	6/14/23	Washburn, Jan	730.05
		Total Expenditures - June 15, 2023	153,487.37

# Alameda County Mosquito Abatement Dist. Check Register For the Period From Jun 16, 2023 to Jun 30, 2023

Filter Criteria includes: Report order is by Date.

Check #	Date	Payee	Amount
4038	6/28/23	Adapco	328.78
4039	6/28/23	Airgas	555.52
4040	6/28/23	Beck's Shoes	189.29
4041	6/28/23	Cintas	452.18
4042	6/28/23	Grainger	19.41
4043	6/28/23	Hentschke, Eric Armin	100.00
4045	6/28/23	Leading Edge Associate, Inc.	4,000.00
4046	6/28/23	Long, Rick	40.88
4047	6/28/23	Lowe, Carol	40.88
4048	6/28/23	MAZE & ASSOCIATES	2,850.00
4049	6/28/23	Namakan West Fisheries	550.00
4050	6/28/23	NBC Supply Corp	398.70
4051	6/28/23	NRAAA Janitorial Services	1,354.00
4052	6/28/23	PG&E	24.64
4053	6/28/23	Pierce, Judith	75.00
4054	6/28/23	Verizon	341.89
4055	6/28/23	Voya Institutional Trust Company	181.43
4056	6/28/23	WEX Bank	1,897.65
4057	6/28/23	Young, George	100.00
ACH	6/28/23	Alameda County Mosquito Abatement Dist (Payroll)	86,157.99
ACH	6/28/23	Aguilar, Victor	100.00
ACH	6/28/23	Arkin, Valerie	100.00
ACH	6/28/23	Bhat, Subrahmanya Y	100.00
ACH	6/28/23	CalPERS Health	41,242.59
ACH	6/28/23	CalPERS Retirement	15,704.40
ACH	6/28/23	CalPERS 457	3,781.73
ACH	6/28/23	Qaadri, Kashef	100.00
ACH	6/28/23	Roache, Cathy J Pinkerton.	100.00
ACH	6/28/23	Salzer, Hope	100.00
ACH	6/28/23	Syrop, George	100.00
ACH	6/28/23	Washburn, Jan	100.00
ACH	6/28/23	Welch, Courtney	100.00
4058	6/28/23	Jarvis Fay LLP	360.00
		Total Expenditures - June 30, 2023	161,646.96

Voided check: 4044

#### Alameda County Mosquito Abatement District Income Statement June 30, 2023. (12 of 12 mth, 100%)

							•	Year to Date			Actual vs
REVENUES	Α	ctual 2020/21	Α	ctual 2021/22	Curre	ent Month		2022/23	B	udget 2022/23	Budget
Total Revenue	\$	5,150,753.15	\$	5,386,808.18	\$	7,440.35	\$	5,584,751.51	\$	4,900,658.00	114%

	1						,	Year to Date		Actual vs
EXPENDITURES	Α	ctual 2020/21	Ac	tual 2021/22 <sup>1</sup>	Cu	rrent Month <sup>2</sup>		2022/23	Budget 2022/23	Budget
Salaries	\$	2,029,103.97	\$	2,129,077.24	\$	190,090.39	\$	2,309,118.48	\$2,371,703	97%
CalPERS Retirement	\$	423,110.21	\$	471,085.19	\$	18,282.98	\$	525,486.67	\$534,559	98%
Medicare & Social Security	\$	27,866.82	\$	30,025.60	\$	2,714.72	\$	33,691.96	\$38,763	87%
Fringe Benefits	\$	502,898.39	\$	484,487.10	\$	45,937.29	\$	604,257.75	\$564,969	107%
Total Salaries, Retirement, & Benefits	\$	2,982,979.39	\$	3,114,675.13		\$257,025		\$3,472,555	\$3,509,994	99%
Clothing and personal supplies (purchased)	\$	4,859.20	\$	7,881.80	\$	1,539.96	\$	7,347.57	\$9,000	82%
Laundry service and supplies (rented)	\$	9,124.98	\$	10,417.41	\$	902.94	\$	12,625.77	\$13,000	97%
Utilities	\$	15,421.56	\$	18,134.35	\$	1,056.20	\$	19,337.86	\$21,700	89%
Communications-IT	\$	71,771.02	\$	74,950.03	\$	9,653.56	\$	79,877.27	\$107,400	74%
Maintenance: structures & improvements	\$	20,261.51	\$	26,671.36	\$	1,023.41	\$	15,934.94	\$30,000	53%
Maintenance of equipment	\$	22,290.34	\$	25,354.56	\$	346.37	\$	36,118.44	\$30,000	120%
Transportation, travel, training, & board	\$	74,653.03	\$	120,418.29	\$	8,052.64	\$	125,418.19	\$119,840	105%
Professional services	\$	91,622.03	\$	97,726.00	\$	5,021.26	\$	88,997.88	\$127,200	70%
Memberships, dues, & subscriptions	\$	22,906.45	\$	25,103.23	\$	330.00	\$	21,285.00	\$37,000	58%
Insurance - (VCJPA, UAS)	\$	141,650.37	\$	160,932.64	\$	-	\$	177,717.48	\$179,436	99%
Community education	\$	26,317.23	\$	26,225.45	\$	3,054.96	\$	24,306.62	\$55,000	44%
Operations	\$	223,362.22	\$	182,575.57	\$	6,893.00	\$	114,748.20	\$252,500	45%
Household expenses	\$	15,882.05	\$	25,388.02	\$	2,991.32	\$	18,397.33	\$19,950	92%
Office expenses	\$	9,747.67	\$	7,002.84	\$	1,191.35	\$	6,083.94	\$12,000	51%
Laboratory supplies	\$	64,135.55	\$	82,354.03	\$	14,861.33	\$	99,478.94	\$132,500	75%
Small tools and instruments	\$	2,189.34	\$	1,963.31	\$	239.38	\$	1,969.24	\$3,000	66%
Total Staff Budget	\$	816,194.55	\$	893,098.89	\$	57,157.68	\$	849,644.67	\$1,149,526	74%
Total Operating Expenditures	\$	3,799,173.94	\$	4,007,774.02	\$	314,183.06	\$	4,322,199.53	\$4,659,520	93%

1 - As of June 30, 2022.

2 - Total Operating Expenditures in current month may not match the check register due to accounts receivable and petty cash transactions.

#### Alameda County Mosquito Abatement District Investment, Reserves, and Cash Balance Report June 30, 2023. (12 of 12 mth, 100%)

Account # Investment Accounts	Beginning Balance	Deposits	Withdrawls	Earnings <sup>1</sup>	Ending Balance
1004 LAIF	\$ 106,513.88	\$ -	\$ -	\$ -	\$ 106,513.88
1005 OPEB Fund	\$ 4,504,808.21	\$ -	\$ -	\$ 130,599.37	\$ 4,635,407.58
1006 VCJPA Member Contingency <sup>2</sup>	\$ 353,832.00	\$ -	\$ -	\$ -	\$ 353,832.00
1011 CAMP: Capital Reserve Fund	\$ 366,299.42	\$ -	\$ -	\$ 1,578.65	\$ 367,878.07
1012 PARS: Pension Stabilization <sup>3</sup>	\$ 2,116,320.66	\$ -	\$ -	\$ (17,217.19)	\$ 2,099,103.47
1013 California CLASS: Public Health Emergency Fund	\$ 545,686.55	\$ -	\$ -	\$ 2,344.27	\$ 548,030.82
1014 California CLASS: Operational Fund <sup>4</sup>	\$ 2,369,843.85	\$ 2,013,283.18	\$ (162,304.46)	\$ 12,403.79	\$ 4,233,226.36
1015 California CLASS: Repair and Replace Fund	\$ 2,711,752.40	\$ -	\$ -	\$ 11,649.71	\$ 2,723,402.11
1016 California CLASS: Operating Reserve Fund	\$ 2,011,997.81	\$ -	\$ -	\$ 8,643.56	\$ 2,020,641.37
Total	\$ 15,087,054.78	\$ 2,013,283.18	\$ (162,304.46)	\$ 150,002.16	\$ 17,088,035.66
Cash Accounts	Beginning Balance		Withdrawls	Activity	Ending Balance
1001 Bank of America (Payroll Account) *	\$ 65,885.21		-	-	\$ 150,405.82
1002 Bank of The West (Transfer Account) $^{5}$	\$ 349,304.78		-	-	\$ -
1003 County Account <sup>4</sup>	\$ 2,606,743.03		\$ (2,166,770.55)	\$ 6,440.35	\$ 446,412.83
1017 Five Star Bank (Transfer Account) *	\$ 1,680.31				\$ 209,783.54
1018 Petty Cash	\$ 453.00		\$ -	\$ (48.73)	\$ 404.27
Total	\$ 3,024,066.33		\$ (2,166,770.55)	\$ 6,391.62	\$ 807,006.46

1 - Earnings are booked as unrealized gains/losses. These earnings would not be recognized as "realized" gains/losses until the accounts are liquidated.

VCJPA Member Contingency balance is as of March 31, 2023.
 PARS - Pension Stabilization balance is as of May 31, 2023.

4 - Funds transferred from the County Fund to CA CLASS: Operational Fund.

5 - Bank of The West account was closed on June 29, 2023.

\* - Ending balance differs from beginning balance due to checks clearing the account.

#### Alameda County Mosquito Abatement Balance Sheet Comparison June

ASSETS			
	6/30/2023	6/30/2022	6/30/2021
Current Assets			
Bank of America payroll	\$ 149,163.34	\$ 157,965.11	\$ 103,223.95
Bank of the West <sup>1</sup>	-	448,182.58	330,296.82
County	446,412.83	397,580.31	374,744.30
Cash with LAIF	106,513.88	4,986,678.92	4,128,033.93
VCJPA- Member Contingency	353,832.00	351,141.00	373,610.00
CAMP - Repair and Replace <sup>2</sup>	-	1,327,549.12	1,040,985.20
CAMP - Public Health Emergency <sup>3</sup>	-	527,592.74	526,220.70
CAMP - Operating Reserve <sup>4</sup>	-	1,949,399.81	1,944,330.24
CAMP - Capital Reserve Fund	367,878.07	30,075.40	19,992.53
PARS	2,099,103.47	1,628,403.30	1,849,337.44
Five Star Bank	190,623.29	-	-
California CLASS: Public Health Emergency Fund	548,030.82	-	-
California CLASS: Operational Fund	4,233,226.36	-	-
California CLASS: Repair and Replace Fund	2,723,402.11	-	-
California CLASS: Operating Reserve Fund	2,020,641.37	-	-
Accounts Receivable	-	-	8,546.00
Petty cash	404.27	387.16	388.18
Total Current Assets	13,239,231.81	11,804,955.45	10,699,709.29
Description of the second			
Property and Equipment	(1 700 282 00)	(1 700 282 00)	(1 504 225 00)
Acc Dep - equipment Acc Dep - stru & improv	(1,709,382.00) (2,723,007,00)	(1,709,382.00) (2,723,997.00)	(1,594,225.00)
Construction in progress	(2,723,997.00) 26,010.43	(2,723,997.00)	(2,604,632.00)
Equipment	1,830,175.69	1,806,769.00	1,769,859.00
Structure/improvement	4,760,618.00	4,760,618.00	4,799,729.70
Land	61,406.00	61,406.00	61,406.00
Total Property and Equipment	2,244,831.12	2,195,414.00	2,432,137.70
Other Assets			
Net OPEB Asset	1,225,311.00	1,225,311.00	2,522,763.00
Total Other Assets	1,225,311.00	1,225,311.00	2,522,763.00
Total Assets	<u>\$ 16,709,373.93</u>	<u>\$ 15,225,680.45</u>	\$ 15,654,609.99
LIABILITIES AND CAPITAL			
Current Liabilities			
Accounts payable	\$ 4,620.13	\$ 136,640.78	\$ 186,764.89
Acc payroll/vacation	201,023.94	201,023.94	208,228.89
Def inflow - 75	1,046,869.00	1,046,869.00	1,254,695.00
Def inflow pen defer GASB 68	1,941,395.00	1,941,395.00	208,602.00
Defer outflow pen cont GASB 68	(822,206.00)	(822,206.00)	(936,411.00)
Net pension liability GASB 68	2,034,280.00	2,034,280.00	3,603,091.00
Total Current Liabilities	\$ 4,405,982.07	\$ 4,538,002.72	\$ 4,524,970.78
Total Liabilities	4,405,982.07	4,538,002.72	4,524,970.78
Capital			
Designated fund balances	3,044,832.55	3,044,832.55	4,451,757.25
Investment in general fixed as	7,642,845.18	6,677,881.96	5,296,151.61
Net Income	1,615,714.13	964,963.22	1,381,730.35
	<u> </u>		
Total Capital	12,303,391.86	10,687,677.73	11,129,639.21
Total Liabilities & Capital	<u>\$ 16,709,373.93</u>	<u>\$ 15,225,680.45</u>	\$ 15,654,609.99

1 - Bank of the West account was closed June 2023.

2 - CAMP: Repair and Replace Fund was closed February 2023.

3 - CAMP: Public Health Emergency Fund was closed September 2022.

4 - CAMP: Operating Reserve Fund was closed February 2023.



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MONTHLY STAFF REPORT -1115

#### **Board of Trustees**

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**Ryan Clausnitzer** General Manager

## OPERATIONS REPORT

Warmer temperatures in June dried down rainwater sources county-wide, eliminating hundreds of acres that had been producing significant numbers of *Culex tarsalis*. This species will now focus breeding into smaller sources such as concrete lined canals, remaining marshes, and unmaintained swimming pools. Operations will shift focus to these source types to limit the number of emerging adults. Control of larvae of this mosquito is a key component of ACMAD's West Nile virus (WNV) control program. Our annual aerial pool survey is still a work in progress this season, so operations staff began inspecting pools that have a history of being unmaintained. There were also unmaintained pools reported to the district through service requests in June. Unmaintained swimming pools can lead to the production of high numbers of several mosquito species in a season and often require a lot of effort to access and treat. If a pool is in a state of long-term disrepair, operations staff work with the owners to plant mosquito fish into the pool. The fish perform an effective long-term biological control solution in these situations. We have several pools in our county that have mosquito fish performing control for over a decade.

Operations also focused efforts in June on *Culex. pipiens,* another competent WNV vector species. Catch basins are prime habitat for this mosquito and were treated throughout the county. This process will continue in the months to come as there are tens of thousands of catch basins in our county. Inspections and treatments of sanitation treatment facilities are also important in limiting the numbers of adults of this mosquito. *Cx. pipiens* began showing up later than usual this season but are now regularly active.

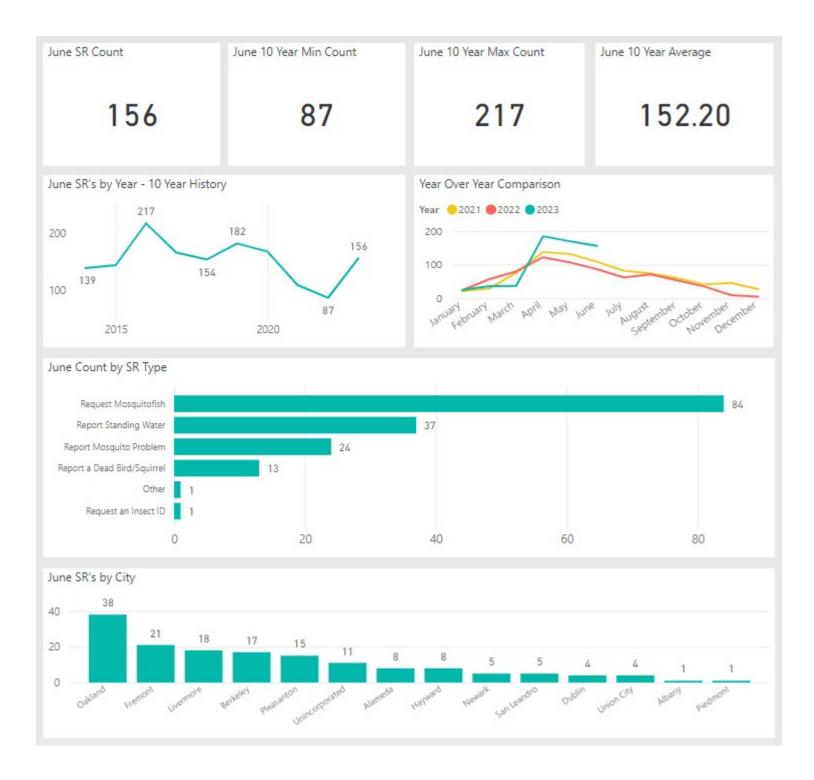
Our final potential WNV vectoring mosquito, *Culex. erythrothorax,* is tied to marsh sources with tule and/or bullrush. They can be found in high numbers in these sources, and larvae are difficult to locate via dipping. Adult trapping data from the ACMAD lab helps assess numbers of this mosquito in these areas. Several treatments for this mosquito were conducted in June and will continue in the coming months.

After assistance from ACMAD IT and Lab, the operations treatment UAS (drone) was back in the air in June. Several missions were flown to treat both *Cx. tarsalis* and *Cx. erythrothorax* larvae in marsh sources which are difficult to access with other district equipment. More UAS operations for July and the months to come are in the planning stages.

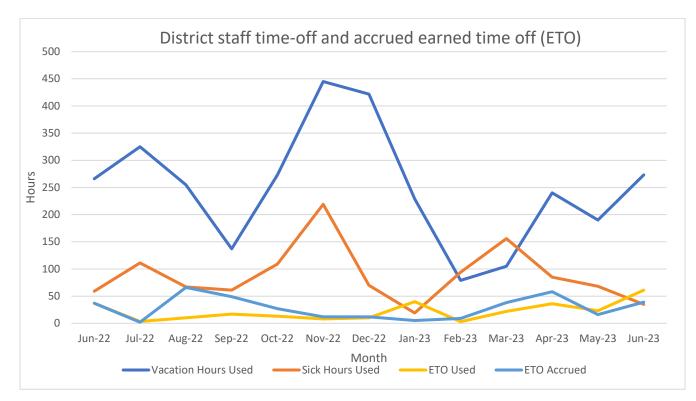
Requests for service received from the public in June totaled 156. Of these, over half were requests for mosquito fish for backyard ponds, unmaintained swimming pools, and livestock watering troughs. We received 37 requests to inspect "standing water". Many of these were to report unmaintained swimming pools and containers holding water along with reports related to overcharged springs and seepages from the heavy rains of earlier this year. Of the 24 requests to "report a mosquito problem" a significant number continued to be attributable to non-biting "mosquito-like" insects. Many requests were attributable to sources on the callers' properties or on properties adjacent to them. While the public "reported a dead bird" 13 times this month, none of the birds recovered tested positive for WNV by the ACMAD lab.

Field Operations Supervisor Joseph Huston

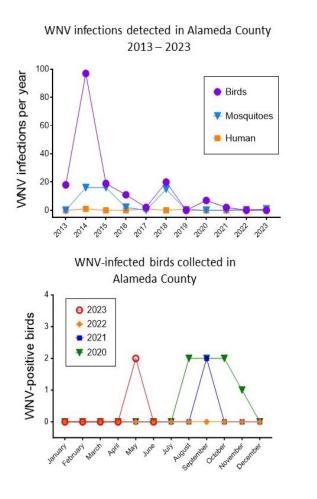
#### Service Requests June 2023



#### **Activity Report**



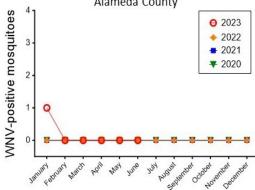
#### WNV Activity



Locations of WNV-infected mosquitoes and birds in Alameda County during 2023



WNV-infected mosquitoes collected in Alameda County



# A. <u>LAB</u>

## **Summary**

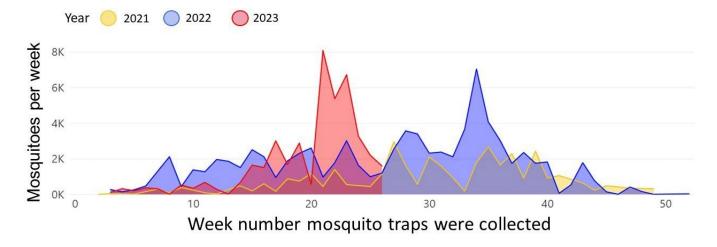
- Arboviruses in mosquitoes. The vector species collected in mosquito traps during June were not infected with West Nile virus (WNV), Saint Louis encephalitis virus (SLEV) or Western equine encephalitis virus (WEEV). For the year, mosquitoes in a single trap from January were found to contain WNV.
- *Arboviruses in birds.* Birds that were collected during June were not infected with WNV, SLEV, or WEEV. For the year, two American crows from Pleasanton were found to be infected with WNV (May 2023). SLEV, and WEEV have not been detected in birds from Alameda County during 2023.
- *Native mosquitoes.* A total of 431 encephalitis virus survey (EVS) traps were placed during June, catching 19,274 adult female mosquitoes (45.0 mosquitos per trap night). Mosquito magnet traps (MMT) collected 405 female *Aedes sierrensis* mosquitoes.
- Sentinel chicken flocks were returned to service during May, and have not seroconverted, suggesting that WNV, SLEV, and WEEV are not present in the region
- Invasive Aedes mosquitoes have not been detected in Alameda County during 2023.

## Arbovirus Monitoring

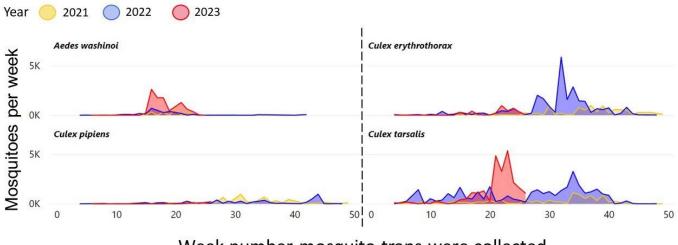
- 137 pools of vector species from EVS traps this month were tested and none were infected with WNV, SLEV, or WEEV. WNV was last detected in mosquitoes during January and in birds during May of this year (WNV Activity figure, above). SLEV and WEEV have not been detected in the County for over a decade.
- No human WNV cases have been reported during 2023. The most recent human case in the county was reported for 2022.
- The second sentinel chicken flock was returned to service in Union City during June. Blood samples collected were collected and sent to CDPH, but results for this flock have yet to be returned. Test results from the blood samples collected from the sentinel flock in Livermore showed they had not been exposed to WNV, SLEV, or WEEV.

## Native Mosquito Abundance

- In California, Culex pipiens (typically in urban settings), Culex tarsalis (associated with marsh and periurban areas), and Culex erythrothorax (occurs exclusively in marsh but adults can disperse into nearby communities) are the main transmitters of WNV, SLEV, and WEEV.
- This month, 431 EVS traps collected 19,274 female mosquitoes (45.0 mosquitoes per trap night), a 10% increase from last month. Adult mosquito abundance for June remained higher than 2021 and 2022 (Figure 1). Higher numbers of *Culex tarsalis* and *Aedes washioni* in marsh habitats drove the higher overall abundance in the county (Figure 2 and Figure 3). However, mosquito abundance declined during the latter part of the month, possibly due to increased control efforts and elevated temperatures that dried sites where larval mosquitoes grow.
- Most mosquitoes in the western part of the county were *Culex tarsalis* and *Culex erythorothorax* (Figure 4A, 4B). Mosquito abundance in the eastern region of the county was low, with most traps collecting *Culiseta incidens* (Figure 4C), a species not responsible for human pathogen transmission. Three EVS traps collected no mosquitoes (Figure 4A, insert).
- The BG-Counter trap near Sea Breeze Park captured 2,581 mosquitoes during the month, most of which were likely *Cx. tarsalis*.
- The Mosquito Magnet Trap in Sunol collected 405 adult female Ae. sierrensis.



**Figure 1. Mosquitoes captured in EVS CO**<sub>2</sub> **traps from 2021 – 2023.** A total of 19,274 adult female mosquitoes were captured in CO<sub>2</sub> -baited traps during the month and identified to species. Week 24 of 2021 was excluded from the graph because the high anomalous abundance that week skewed the y-axis.



Week number mosquito traps were collected

Figure 2. Weekly abundance of important mosquito species during 2021, 2022 and 2023.

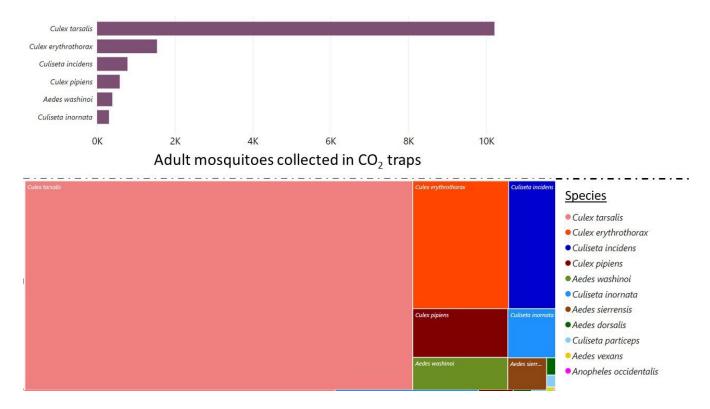
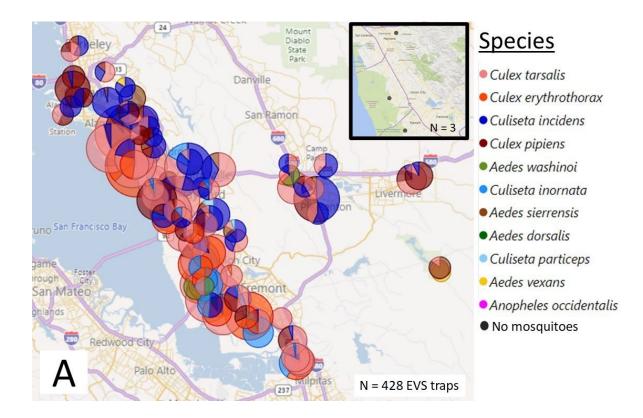
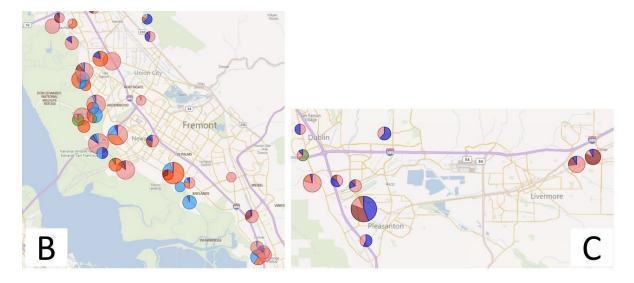


Figure 3. The most abundant species of mosquito captured using EVS CO<sub>2</sub> traps during the month of this report. Larger squares and rectangles indicate higher abundance of that species.





**Figure 4. Mosquito abundance by trap site evaluated using EVS CO**<sub>2</sub> **traps.** Pie charts over trap sites indicate the distribution of mosquito species collected at the trap site. The size of each pie chart indicates the relative number of mosquitoes at each site during the month in (A) Alameda County (the insert shows traps that were placed but did not collect mosquitoes), (B) the central bayside region, and (C) the eastern region of the county.

Analysis and report by Eric Haas-Stapleton, PhD, Laboratory Director

#### A. PUBLIC EDUCATION

#### Events and Education

Cherry Parade San Leandro (6/3) Bay Area Carnivorous Plant Society Showcase (6/3) Alameda Birds and Butterflies Festival (6/4) Fremont Safe Kids Festival (6/24) Oakland





#### **Google Analytics**

**<u>Note</u>**: Google Analytics is changing reports on July 1, 2023, the switchover has changed reporting graphics, and it will be finalized in July.

#### June Data

Last day: 90 hits Last 7 Days: 753 hits Last 30 Days: 2,456 hits (minus the possible bot activity that often hits mosquitoes.org the first and last days of the month.

#### Facebook

June Data: Posts-14 Reach – 530 Followers – 403

Facebook paid side ad campaign: 78,135 impressions

Top June Facebook Post:

Yikes! We found not one but TWO mosquito egg rafts in one pot. Can you spot them? They look like little pieces of bark or dirt, but they each can contain 80-100 eggs. The best way to get rid of them is to get rid of the water. But if you can't do that, treat it or add mosquito fish by calling us, 510-783-7744.



#### <u>Twitter</u>

June Data: Posts – 10 Impressions – 1184 Followers – 807 (1 added)

#### Top June 2023 Twitter Post:



Alameda MAD @AlamedaMosquito · Jun 8 ···· All good points here but eliminating standing water should be one of the FIRST things to do, not the last.



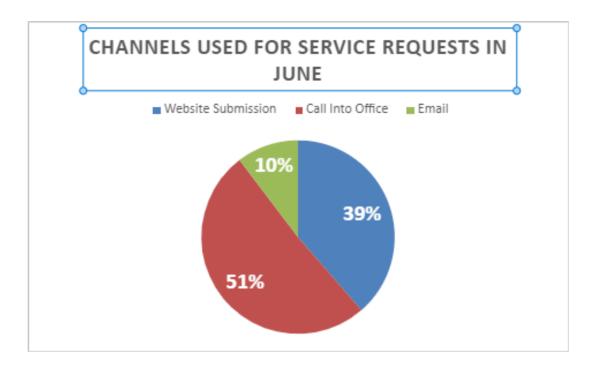
#### youtube.com

Here's how you can keep mosquitoes away this su... Consumer Reports health and science editor Catherine Roberts sits down with Nikki Batiste to ...





#### Channels Used by Residents to Request Service





T: (510) 783-7744 F: (510) 783-3903

acmad@mosquitoes.org

#### **Board of Trustees**

President Victor Aguilar San Leandro Vice-President Cathy Roache County-at-Large Secretary Steven Cox Livermore

Tyler Savage Alameda Robin López Albany P. Robert Beatty Berkeley Kashef Qaadri Dublin Courtney Welch Emeryville George Young Fremont George Syrop Hayward Jan O. Washburn Oakland Eric Hentschke Newark Hope Salzer Piedmont Valerie Arkin Pleasanton Subru Bhat Union City

**Ryan Clausnitzer** General Manager

#### Staff Anniversary Recognitions:

#### Background:

ACMAD is pleased to recognize and thank the following employees on their anniversaries in June.

Employee	Job Title	Years of Service	Anniversary Date
Joseph Huston	Field Operations Supervisor	32	July 1 <sup>st</sup>
Eric Haas-Stapleton	Lab Director	8	July 1 <sup>st</sup>
Ryan Clausnitzer	General Manager	8	July 2 <sup>nd</sup>
Robert Ferdan	IT Director	8	July 16 <sup>th</sup>
Judith Pierce	Public Outreach Coordinator	3	July 20 <sup>th</sup>

## ACHIEVING DISTRICT TOGETHER.



**Two Conferences for Training Throughout the State** February 26 - March 1, 2023 - La Quinta (Palm Springs Area) OR October 22 – 25, 2023 – Sonoma County (Santa Rosa)



SILA CSDA's 2023 Special District Leadership Academy Conference

A Comprehensive Governance Leadership Conference for Elected and Appointed Directors/Trustees



## **BOARD & STAFF LEARN TO WORK AS A TEAM.**

Participate in the **Special District Leadership Academy Conference** and complete all four modules of the Academy during the course of two and a half days.

This conference content is based on CSDA's Special District Leadership Academy (SDLA) groundbreaking, curriculum-based continuing education program, which recognizes the necessity for the board and general manager to work closely toward a common goal. SDLA provides the knowledge base to perform essential governance responsibilities and is designed for both new and experienced special district board members. "This conference was very informative and presented well. Each presenter was very knowledgeable on the subject matter. I feel this training should be mandatory for all special district board members and GM's."

> Scott Frick, Scott Valley Fire Protection District



The Certificate in Special District Governance was designed to acknowledge special district Board Members and Trustees who have taken extra steps to become better educated in core areas of governance.

Complete the Special District Leadership Academy + 10 additional professional development hours and receive this recognition.

1112 I Street, Suite 200, Sacramento, CA 95814 • t: 916.231.2909 • www.sdlf.org



#### Two Locations • Two Options

## **ATTEND CSDA'S** SPECIAL DISTRICT LEADERSHIP ACADEMY **CONFERENCE**



Local boards are the reason why local control is local. Special district boards are the voices of the community. and they are also a large reason why special districts exist.

The truth is that every elected or appointed public official needs to worry about governance; governance is what boards do. It's what they bring to the table.

Governance is taking the wishes, needs, and desires of the community and transforming them into policies that govern the district.

Whether you're new to the board, or someone who has served for many years, this conference provides essential tools and information to effectively govern your district!

#### Attendees will learn:

- Teamwork: The roles of the board and staff in your district.
- Attributes and characteristics of highly effective boards.
- How culture, norms, values, and operating styles influence the district.
- Specific jobs the board must perform.
- How individual values, skills, and knowledge help to shape how effective boards operate.
- The importance of moving from "I" to "we" as the governance team.
- The board's role in setting direction for the district.
- The board's role in finance and fiscal accountability.
- And much more!



#### SDRMA Credit Incentive Points

Special District Risk Management Authority (SDRMA) is committed to establishing a strategic partnership with our members to provide maximum protection, help control losses, and positively impact the overall cost of property/liability and workers' compensation coverage through the Credit Incentive Program. Credit incentive points can be earned based on an agency's attendance at the Special District Leadership Academy Conference, reducing SDRMA member's annual contribution amount. .....



February 26 – March 1, 2023 Embassy Suites La Quinta Hotel & Spa 50-777 Santa Rosa Plaza La Quinta, CA 92253

#### HOTEL ROOM RESERVATIONS

Room reservations are available at the CSDA rate of \$180 plus tax, single or double occupancy. You will receive a link to make your hotel reservation AFTER you have registered for the conference. The room reservation cut-off is January 25, 2023; however, space is limited and may sell out before this date.

CSDA rate includes complimentary full, cooked to order breakfast buffet, complimentary Nightly Managers Reception, complimentary self-parking, and complimentary guest room Wi-Fi.



#### EARLY BIRD DISCOUNT

The early bird discount for this location requires registration on or before Tuesday,

January 25, 2023.

#### Cancellations must be in writing and received by CSDA no later than January 25, 2023 at 5:00 p.m. All cancellations received by this date will be refunded less a \$75 cancellation fee. There will be no refunds for

cancellations made after January 25, 2023. Substitutions are acceptable and must be done in writing no later than February 17, 2023 at 5:00 p.m. Please submit any cancellation notice or substitution requests to meganh@csda. net or fax to 916-520-2465.



October 22 - 25, 2023 Hyatt Regency Sonoma Wine Country 170 Railroad Street Santa Rosa, CA 95401

#### HOTEL ROOM RESERVATIONS

Room reservations are available at the rate of \$157\* plus tax, single or double occupancy plus \$25/night per room discounted destination fee. You will receive a link to make your hotel reservation AFTER you have registered for the conference. The room reservation cut-off is September 22, 2023: however, space is limited and may sell out before this date.

CSDA rate and discounted destination fee includes glass of wine upon check-in, unlimited personal Wi-Fi access, exclusive winery offers from winery partners, electric vehicle charging stations, daily in-room water, and daily wine tasting in lobby.

\*Rate at this location will be the current per-diem rate; \$157 as of 11/22 but subject to change.



#### EARLY BIRD DISCOUNT The early bird discount for this location requires registration on

or before Thursday, September 22, 2023.

Cancellations must be in writing and received by CSDA no later than September 22, 2023, at 5:00 p.m. All cancellations received by this date will be refunded less a \$75 cancellation fee. There will be no refunds for cancellations made after September 22, 2023. Substitutions are acceptable and must be done in writing no later than October 13, 2023, at 5:00 p.m. Please submit any cancellation notice or substitution requests to meganh@csda.net or fax to 916-520-2465.

## FIRST-TIME ATTENDEE

**SCHEDULE OF EVENTS** 



#### SUNDAY

#### 5:30 – 7:00 p.m. REGISTRATION AND NETWORKING RECEPTION

Take a moment to network with your peers from throughout the state at this informal networking reception. Reception includes light appetizers.

## **MONDAY**

#### 8:30 – 10:00 a.m. BUILDING A FOUNDATION FOR GOOD GOVERNANCE

\* This session covers Module 1 of the Special District Leadership Academy: Governance Foundations.

In this conference session, the instructor will lay the groundwork for good governance in your district.

Attendees will discover:

- Why good governance is so important to the overall well-being of the district.
- The traits of effective board members.
- What good governance means and how to effectively put it into practice.
- How to move your board from "I" to "we," including how to become an effective team, establish team standards, and essential conditions for team building.

#### 10:00 – 10:30 a.m.

BREAK (All Attendees)

#### 10:30 a.m. – 12:30 p.m. BUILDING A FOUNDATION FOR GOOD GOVERNANCE (continued)

#### 12:30 – 1:30 p.m. LUNCH PROVIDED (All Attendees)

#### 1:45 – 3:00 p.m. DEFINING BOARD/STAFF ROLES AND RELATIONSHIPS

\* This session covers Module 4 of the Special District Leadership Academy: Board's Role in Human Resources.

This conference session will teach participants how to determine the human resource (HR) health of their district and what areas to focus on as a board and individual governing official including:

- Identifying the board's role in human resources.
- Recognizing HR red flags and positive indicators.
- Developing and maintaining essential HR policies.
- Covering confidentiality and legal liabilities.
- Evaluating the general manager.

3:00 – 3:30 p.m. BREAK (All Attendees)

#### 3:30 – 4:30 p.m. DEFINING BOARD/STAFF ROLES AND RELATIONSHIPS (continued)

#### 5:30 – 7:00 p.m. SIP AND SAVOR EVENING RECEPTION



#### Sponsored by the Special District Risk Management Authority (SDRMA) Join us for a lively evening of networking and refreshments.

## TUESDAY

#### 8:30 – 10:00 a.m. FULFILLING YOUR DISTRICT'S MISSION: CHARTING THE COURSE

\* This session covers Module 2 of the Special District Leadership Academy: Setting Direction/Community Leadership

This conference session will highlight the importance of setting the direction for your district. Learn the critical components of direction setting for your district along with how to avoid planning pitfalls. Attendees will walk through the steps of establishing and fulfilling your district's mission, vision, values, strategic goals, and how to communicate those objectives to your constituents.

10:00 – 10:30 a.m. BREAK (All Attendees)

10:30 – 12:00 p.m. FULFILLING YOUR DISTRICT'S MISSION: CHARTING THE COURSE (continued)

#### 12:00 – 1:00 p.m. LUNCH PROVIDED (All Attendees)

#### 1:15 – 2:45 p.m. GET THE WORD OUT! BEST PRACTICES FOR COMMUNICATION AND OUTREACH

\* This session covers Module 2 of the Special District Leadership Academy: Setting Direction/Community Leadership.

This conference session looks at common communication breakdowns and potential areas for improvement in public agency communications. It will discuss proper and effective communication methods to be aware of as a governing official including:

- Identifying audiences.
- Responding to public input.
- Media relations.
- Legislative outreach and advocacy.

2:45 – 3:00 p.m. BREAK (All Attendees)

#### 3:00 – 4:00 p.m. GET THE WORD OUT! BEST PRACTICES FOR COMMUNICATION AND OUTREACH (continued)

#### **OPEN EVENING**

#### WEDNESDAY

#### 8:30 – 10:00 a.m. SHOW ME THE MONEY! WHAT DO BOARD MEMBERS NEED TO KNOW ABOUT DISTRICT FINANCES?

\* This session covers Module 3 of the Special District Leadership Academy: Board's Role in Finance and Fiscal Accountability.

This conference session will provide a review and insight of important financial concepts, reports, and policies specific to public agencies including special districts. Attendees will learn:

- · How to ask the right questions.
- How to link the finance process to the district mission and goals.
- Budget process, budget assessment, and communicating budget information to the public.
- How to develop and analyze capital improvement plans and reserve guidelines.

#### 10:00 – 10:15 a.m. BREAK (All Attendees)

BREAR (All Allenuees)

#### 10:15 a.m. – 12:00 p.m. SHOW ME THE MONEY! WHAT DO BOARD MEMBERS NEED TO KNOW ABOUT DISTRICT FINANCES? (continued)

#### 12:00 p.m. GRADUATION CERTIFICATE DISTRIBUTION

First-time attendees must attend all sessions and turn in their completed certificate application in order to receive their certificate at the conclusion of the conference. "I found the programming relevant and timely as a newly elected board member. I liked that staff attended to give different perspectives. The presenters were leaders in their field, very knowledge and generous with their time for further discussion."

Heidi Doyle,

North Tahoe Fire Protection District



We love maximizing the benefits we offer. You love winning prizes! We start with an exploration of membership benefits to make sure your district is taking full advantage of all we provide. Along the way, you'll win prizes!

#### **REASONS TO ATTEND:**

- We mentioned prizes, right?
- Learn how to navigate our website & community portal so you can quickly access resources
- Explore CSDA value-added benefits that may save your district money!
- · BINGO is for everyone! Members & non-members all benefit
- Meet new peers! This activity has a way of bringing people

#### SDLA Graduate? Join us for our Returning Attendee Track with Two Days of Breakout Sessions with topics such as:

- HOW TO LEAD YOUR BOARD MEETINGS AWAY FROM CHAOS
- INTRODUCTION TO LABOR RELATIONS
- FINANCING AND FINANCIAL MANAGEMENT
- BROWN ACT UPDATES
- STRATEGIC PLANNING

Check the SDLA Website for Returning Attendee Track Session details when agenda is confirmed.

## **RETURNING ATTENDEE**

**SCHEDULE OF EVENTS** 



### **SUNDAY**

#### 5:30 – 7:00 p.m. REGISTRATION AND NETWORKING RECEPTION

Take a moment to network with your peers from throughout the state at this informal networking reception. Reception includes light appetizers.

## MONDAY

8:30 a.m. – 12:30 p.m. BREAKOUT SESSIONS

10:00 – 10:30 a.m. BREAK (All Attendees)

12:30 – 1:30 p.m. LUNCH PROVIDED (All Attendees)

1:45 – 4:30 p.m. BREAKOUT SESSIONS

3:00 – 3:30 p.m. BREAK (All Attendees)

#### 5:30 – 7:00 p.m. SIP AND SAVOR EVENING RECEPTION



Sponsored by the Special District Risk Management Authority (SDRMA) Join us for an entertaining evening of networking and refreshments.

## **TUESDAY**

8:30 a.m. – 12:00 p.m. BREAKOUT SESSIONS

10:00 – 10:30 a.m. BREAK (All Attendees)

12:00 – 1:00 p.m. LUNCH PROVIDED (All Attendees)

1:15 – 4:00 p.m. BREAKOUT SESSIONS

2:45 – 3:00 p.m. BREAK (All Attendees)

4:00 p.m. CONFERENCE ENDS FOR RETURNING ATTENDEES "It was a great conference fully loaded with valuable information, resources, tools and materials to review and share."

Crystal Harding, North Highlands Recreation and Park District

"It was interesting and informative. The presentations gave me a foundation of my 'job' as a representative of my community. There are questions I need to ask staff and there are suggestions I need to make to my fellow board members based on the information provided. SDLA is a valuable resource for our Community Services District." De Denten,

Gualala Community Services District



(Use one form per registrant)

#### **Three Ways to Register**

- **Register online** by visiting the SDLA Conference website at sdla.csda.net.
- Fax number: 916-520-2465. All faxed registration forms must include credit card payment.

Special District Leadership Academy Conference

• Mail: CSDA, 1112 | Street, Suite 200, Sacramento, CA 95814. Please include registration form and payment. Checks should be made payable to: California Special Districts Association.

#### Not sure if you are a member?

Contact the CSDA office at 877-924-2732 to find out if your agency or company is already a member. To learn more about the many benefits of CSDA membership, contact Member Services Director Cassandra Strawn at membership@csda.net or call toll-free at the number listed above.

## EARLY BIRD DISCOUNT

Name/Title:							
□ First-time Attendee □ Returning Attendee							
District:							
Address:							
City:	State: Zip:		Zip:				
Phone:		Fax:					
Member     Non-member		Email:					
Emergency Contact - Name & Phone:							
WHICH CONFERENCE WILL YOU BE ATTENDING?							
□ FEBRUARY 26 - MARCH 1, 2023 - LA QUINTA EARLY BIRD DISCOUNT: JANUARY 25, 2023	OCTOBER 22 - 25, 2023 - SANTA ROSA     EARLY BIRD DISCOUNT: SEPTEMBER 22, 2023						
□ CSDA Member \$625 □ Non-member \$950	□ CSDA Member □ Non-member	\$625 \$950					
AFTER JANUARY 25	AFTER SEPTEMBER 22	\$675 \$1,010					
SEND MORE - SAVE MORE! SPECIAL DISCOUNTED PRICING!							
ADDITIONAL ATTENDEE FROM THE SAME DISTRICT BEFORE EARLY BIRD DISCOUNT CSDA Member \$425 Non-member \$650		ADDITIONAL ATTENDEE FROM THE SAME DISTRICT AFTER EARLY BIRD DISCOUNT CSDA Member \$475 Non-member \$715					
Payment							
Check Visa MasterCard Discover American Express							
Acct. Name:		Acct. Number:					
Expiration Date: CVC:		Authorized Signature:					
Special needs							
□ Vegetarian □ Other:							

Consent to Use Photographic Images: Registration and attendance at, or participation in, CSDA meeting and other activities constitutes an agreement by the registrant to CSDA's use and distribution (both now and in the future) of the registrant or attendee's image or voice in photographs, videotapes, electronic reproductions, and audiotapes of such events and activities.

Anti-Discrimination and Harassment Policy: CSDA is dedicated to a harassment-free event experience for everyone. Our Anti-Discrimination and Harassment Policy can be found under "CSDA Transparency" at www.csda.net/about-csda/who-we-are.

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## Steady as you go.

When your team and ours all pull together, you get the sure-footed stability you need to proceed with confidence. As an extension of your staff, we are always at the sidelines delivering service and expertise. For everything from Workers' Compensation and Property/Liability coverages to Health Benefits options available throughout California, we are here to keep you going strong. For more information, visit **sdrma.org**.

