

AGENDA
1114th MEETING OF THE BOARD OF TRUSTEES
OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT
JUNE 14TH, 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/85149817481>
see below for additional details.

TRUSTEES: Victor Aguilar, 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. Introduction of new Board Member, George Syrop representing the City of Hayward (Information only)
5. Approval of the minutes of the 1113th Regular Meeting held May 10th, 2023 (**Board action required**).
6. Public Hearing on the proposed tax rate. (Information only).
7. 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. (**Board action required**)
8. Closed session to discuss the General Manager's twelve-month evaluation pursuant to Government Code Section 54957.6. (Information only)
9. Compensation recommendation of General Manager Ryan Clausnitzer based on a recommendation from the Manager Evaluation Committee and according to the employee contract. (**Board action required**)

10. Presentation by Lab Director, Eric Haas-Stapleton, PhD and Regulatory & Public Affairs Director, Erika Castillo: *Aedes aegypti & albopictus; knock knock knocking on Alameda County's door* (Information only):
11. Financial Reports as of May 31st, 2023: (Information only).
 - a. Check Register
 - b. Income Statement
 - c. Investment, reserves, and cash report
 - d. Balance Sheet
12. Presentation of the Monthly Staff Report (Information only).
13. Presentation of the Manager's Report (Information only).
 - a. Employee Anniversary Recognition
 - b. CSDA Annual Conference: Monday, August 28th – Thursday, August 31st in Monterey
 - c. National Special District Coalition
 - d. Update on aquaculture project
 - e. Training due: Ethics Education (AB 1234): Young
14. Board President asks for reports on conferences and seminars attended by Trustees.
15. Board President asks for announcements from members of the Board.
16. Board President asks trustees for items to be added to the agenda for the next Board meeting.
17. 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 acmad@mosquitoes.org.

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# 851 4981 7481** followed by the pound (#) key.

Computer: Watch the live streaming of the meeting from a computer by navigating to <https://us02web.zoom.us/j/85149817481>

Mobile: Log in through the Zoom mobile app on a smartphone and enter **Meeting ID# 851 4981 7481**

HOW TO SUBMIT PUBLIC COMMENTS:

Before the Meeting: Please email your comments to acmad@mosquitoes.org, 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 12:00 PM the day of the meeting 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 <https://www.mosquitoes.org/board-of-trustees-regular-meetings> as the place for making those public records available for inspection. The documents may also be obtained by emailing acmad@mosquitoes.org.

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

1113th MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT

May 10th, 2023

TIME: 5:00 P.M.
PLACE: Hybrid Meeting of the Board of Trustees
Physically held at the Office of the District
23187 Connecticut Street, Hayward, CA 94545 and
Teleconferencing at: <https://us02web.zoom.us/j/83799532529>
TRUSTEES: 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: from 2315 Lincoln Ave, Alameda, CA
Robin López, City of Albany: from 435 Gooding Way #456 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
City of Hayward, vacant
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, Beatty, Qaadri, Young, Hentschke, and Bhat were present in-person at the district. Trustees Savage, López, Welch, Salzer, and Arkin attended remotely from the publicly posted locations noted above. Trustees Cox and Washburn were absent.
3. President Aguilar invited members of the public to speak on any issue relevant to the district. Melanie Guillory-Lee was present for Item 6. Trustee Qaadri's son Ilyas was present as a guest. Information & Technology Director, Robert Ferdan, was present for technical support. Vector Biologist, Sarah Lawton, was present to record the minutes. No public comments were submitted.
4. Approval of the minutes of the 1112th meeting held April 12th, 2023.
Motion: Trustee Arkin moved to approve the minutes
Second: Trustee Qaadri
Vote: motion carries: unanimous.
5. Approval of the final budget for the fiscal year 2023-24
Discussion: Trustee Qaadri asked if inflation and cost-of-living increases were considered with current economic situation (yes). Trustee Qaadri followed up asking if the same consideration

was taken for salaries? (Yes, this budget covers the in second year of a three-year employee contract).

Motion: Trustee Hentschke moved to approve the budget

Second: Trustee Beatty

Vote: motion carries: unanimous

6. Presentation of the preliminary Engineers Report for fiscal year 2023-24 by Melanie Guillory-Lee from SCI Consulting Group.

Discussion: Melanie Guillory-Lee presented report. No questions from the Board.

7. Resolution 1113-1 intending to continue assessments for fiscal year 2023-24, preliminarily approving the engineer's report, and providing for notice of hearing.

Discussion: None.

Motion: Trustee Beatty moved to approve the resolution.

Second: Trustee Salzer

Vote: motion carries: unanimous

8. Proposal to switch change transfer bank from Bank of the West to Five Star Bank

Discussion: After the General Manager explained the reasons for proposing to switch banks, the Finance Committee weighed in on their discussion from their last meeting specifically Trustee Bhat who added that this change will save money and not lose anything, and Trustee Roache who added that there were no negatives, perhaps only that there is not a local branch, but a branch is not really needed anyway. Trustee Qaadri asked if there are administration costs (no). Trustee Arkin asked if the district reached out to Bank of the West to ask if they would match the alternate bank's proposal. No, as The General Manager did not expect them to change based on prior conversations.

Motion: Trustee Beatty moves to accept proposal

Second: Trustee Arkin

Vote: motion carries: unanimous

9. Financial Reports as of April 30th, 2023.

Discussion: The General Manager summarized the Financial Reports.

Discussion: Trustee Bhat asked about WEX Bank (fleet services to purchase fuel and GPS).

Trustee Qaadri asked about Voya Institutional Trust Company (the deferred compensation program for a grandfathered-in employee). Trustee Savage asked the General Manager to explain why the budgets for Community Education and Operations were so much lower than budgeted at this point in the year (expenses in these categories are higher in summer with advertising and treatments).

Trustee Salzer asked if helicopters can be replaced by drones (helicopters are rarely used, and drones (UAS) are an effective alternative where allowed).

Trustee Salzer followed up and asked about the treatment accuracy of drones vs truck-mounted sprayers. Sarah Lawton explained that the truck mounted treatments on a levee can only spray in the direction of the wind and the remaining standing water must get treated by hand, whereas the drone would be able to fly directly over the whole site.

Trustee Qaadri asked about our funded status with CalPERS. The General Manager mentioned that the next actuarial report comes out in August, and will be discussed in September or October, but the district uses a Pension Stabilization fund to plan for future liabilities that affect operations.

Trustee Qaadri asked about our funded status with CalPERS. The General Manager mentioned that the next actuarial report comes out in August, and will be discussed in September or October, but the district uses a Pension Stabilization fund to plan for future liabilities that affect operations.

10. Presentation of the Monthly Staff Report.

Discussion: Trustee Arkin asked how people can tell the difference between swarms of midges and crane flies vs mosquitoes? The General Manager described that the other insects of

concern do not bite, and that we educate using photos or descriptions, especially people new to the area. Trustee Arkin asked if there are notices given to the owner of unmaintained swimming pools by the county or city. The General Manager explained the district has evolved our program and we now mail notices that are generated with county parcel data and images of unmaintained swimming pools typically after Memorial Day. Trustee Hentschke added to the midge discussion mentioning that the ACMAD website (mosquitoes.org) has information and pictures of mosquito-like insects. Trustee Salzer said she was going to ask if there is a better way to triage the midge phone calls, perhaps on the website, but once she realized it is already on the website, she added that perhaps the midge information can be in a more prominent place on the website. The General Manager liked the idea and added that we can look into adding a banner during high-midge season.

11. Presentation of the Manager's Report.

Discussion: None

12. Board President asks for reports on conferences and seminars attended by Trustees.

Discussion: None

13. Board President asks trustees for items to be added to the agenda for the next Board meeting.

Discussion: No items from the Board, but the General Manager will not be in-person at the next meeting as he will be in Florida at their state special district conference. Eric Haas-Stapleton and Erika Castillo will be giving a presentation regarding invasive *Aedes aegypti*.

14. Adjournment at 6:11 pm.

Respectfully submitted,

Approved as written and/or
corrected at the 1114th meeting of
the Board of Trustees held June
14th, 2023

Victor Aguilar, President
BOARD OF TRUSTEES

Steven Cox, Secretary
BOARD OF TRUSTEES

RESOLUTION NO. 1114-1

**A RESOLUTION APPROVING THE ENGINEERING'S REPORT, AND ORDERING THE LEVY OF
CONTINUED ASSESSMENTS FOR FISCAL YEAR 2023-24
FOR THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT
MOSQUITO AND DISEASE CONTROL ASSESSMENT**

WHEREAS, the Alameda County Mosquito Abatement District ("District") is authorized, pursuant to the authority provided in Health and Safety Code Section 2082 and Article XIID of the California Constitution, to levy assessments for mosquito and disease control projects and services; and

WHEREAS, such mosquito surveillance and control projects and services provide tangible public health benefits, reduced nuisance benefits and other special benefits to the public and properties with the areas of service; and

WHEREAS, an assessment for mosquito and disease control projects and services has been given the distinctive designation of the "Mosquito and Disease Control Assessment" ("Assessment"), and is primarily described as encompassing the boundaries of Alameda County; and

WHEREAS, the Assessment was authorized by an assessment ballot proceeding conducted in 2008 and approved by 70.19% of the weighted ballots returned by property owners, and such Assessments were levied by the Board of Trustees of the Alameda County Mosquito Abatement District by Resolution No. 937-1 passed on May 14, 2008;

NOW, THEREFORE, BE IT RESOLVED by the Board of Trustees of the Alameda County Mosquito Abatement District that:

SECTION 1. SCI Consulting Group, the Engineer of Work, prepared an engineer's report in accordance with Article XIID of the California Constitution and Section 2082, et. seq., of the Health and Safety Code for the Assessment (the "Report"). The Report have been made, filed with the District and duly considered by the Board and is hereby deemed sufficient and approved. The Report shall stand as the Engineer's Report for all subsequent proceedings under and pursuant to the foregoing resolution.

SECTION 2. On May 10, 2023, this Board adopted Resolution No. 1113-1 to continue to levy and collect the assessments for fiscal year 2023-24, preliminarily approving the Engineer's Report, and providing for notice of hearing on June 14, 2023, at the hour of 5 o'clock p.m. To improve access to public information, residents may access meetings remotely, by telephone, computer, or mobile through Zoom.

SECTION 3. At the appointed time and place the hearing was duly and regularly held, and all persons interested and desiring to be heard were given an opportunity to be heard, and all matters and things pertaining to the levy of Assessment were fully heard and considered by this Board, an all oral statements and all written protests or communications were duly heard, considered and

overruled, and this Board there by acquired jurisdiction to order the levy of Assessment prepared by and made a part of the Engineer's Report to pay the costs and expenses thereof.

NOW, THEREFORE, IT IS FOUND, DETERMINED, RESOLVED AND ORDERED, that:

SECTION 4. The above recitals are true and correct.

SECTION 5. The public interest, convenience and necessity require that the levy be made.

SECTION 6. The assessment is levied without regard to property valuation.

SECTION 7. The Engineer's Report for the Assessment together with the proposed assessment roll for fiscal year 2023-24 is hereby confirmed and approved.

SECTION 8. That based on the oral and documentary evidence, including the Engineer's Report offered and received at the public hearing, the Board expressly finds and determines that: (a) each of the several lots and parcels of land subject to the Assessment will be specially benefited by the services to be financed by the Assessment proceeds in at least the amount of the Assessment apportioned against such lots and parcels of land, respectively; and (b) that there is substantial evidence to support , and the weight of the evidence preponderates in favor of, said finding and determination as to special benefit to property from the mosquito and disease control services to be financed with Assessment proceeds.

SECTION 9. That Assessments for fiscal year 2023-24 shall be levied at the rate of two dollars and fifty cents (\$2.50) per single family equivalent benefit unit as specified in the Engineer's Report with estimated total annual Assessment revenues as set forth in the Engineer's Report; and

SECTION 10. That the mosquito and disease control project and services to be financed with Assessment proceeds described in the Engineer's Report are hereby ordered.

SECTION 11. No later than August 10th following such adoption, the Board shall file a certified copy of this resolution with the Auditor of the County of Alameda ("County Auditor"). Upon such filing, the County Auditor shall enter on the County assessment roll opposite each lot or parcel of land the amount of Assessment. The Assessments shall be collected at the same time and in the same manner as County taxes are collected and all the laws providing for collection and enforcement shall apply to the collection and enforcement of the Assessments. After collection by the County, the net amount of the Assessments, after deduction of any compensation due the County for collection, shall be paid to the Mosquito and Disease Control Assessment.

SECTION 12. All revenues from Assessments shall be deposited in a separate fund established under the distinctive designation of the Alameda County Mosquito Abatement District Mosquito, and Disease Control Assessment.

SECTION 13. The Assessment, as it applies to any parcel, may be corrected, cancelled or a refund granted as appropriate, by order of the Board of Trustees of the District. Any such corrections, cancellations or refunds shall be limited to the current fiscal year.

SECTION 14. The Board of Directors of the Alameda County Mosquito Abatement District hereby certifies that the assessments to be placed on the fiscal year 2023-24 property tax bills meet the requirements of Proposition 218 that added Articles XIIC and XIID to the California Constitution.

PASSED and ADOPTED by the Alameda County Board of Trustees for the Alameda County Mosquito Abatement Program at a regular meeting thereof held on June 14, 2023, at 23187 Connecticut Street, Hayward, California, by the following vote:

AYES:

NOES:

ABSTAINED:

ABSENT:

President, Board of Trustees, Alameda County Mosquito
Abatement District

ATTEST:

Secretary of the Board of Trustees, Alameda County
Mosquito Abatement District

Aedes aegypti & albopictus

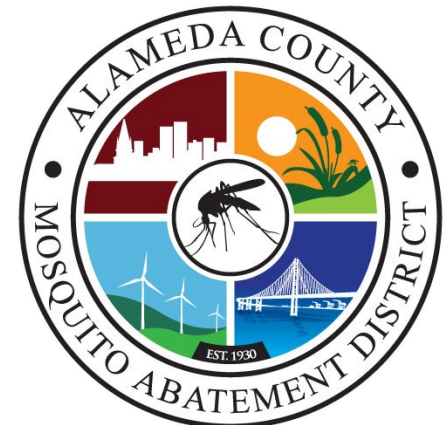
knock knock knocking on Alameda County's door

Eric Haas-Stapleton, PhD
Laboratory Director

Erika B. Castillo
Regulatory & Public Affairs Director

Alameda County MAD Board of Trustees

June 14, 2023



Overview

- Native and new mosquitoes of California
- Differences between native and new mosquitoes
 - Habitat, biting, diseases, and control approaches
- How we are preparing
- Future impacts



Mosquitoes of California

53

Native species
in CA

Aedes aegypti & *albopictus*
+2

what's the
BIG DEAL?

Alameda County
22

Species in
Alameda County



The non-native *Aedes* of importance in CA

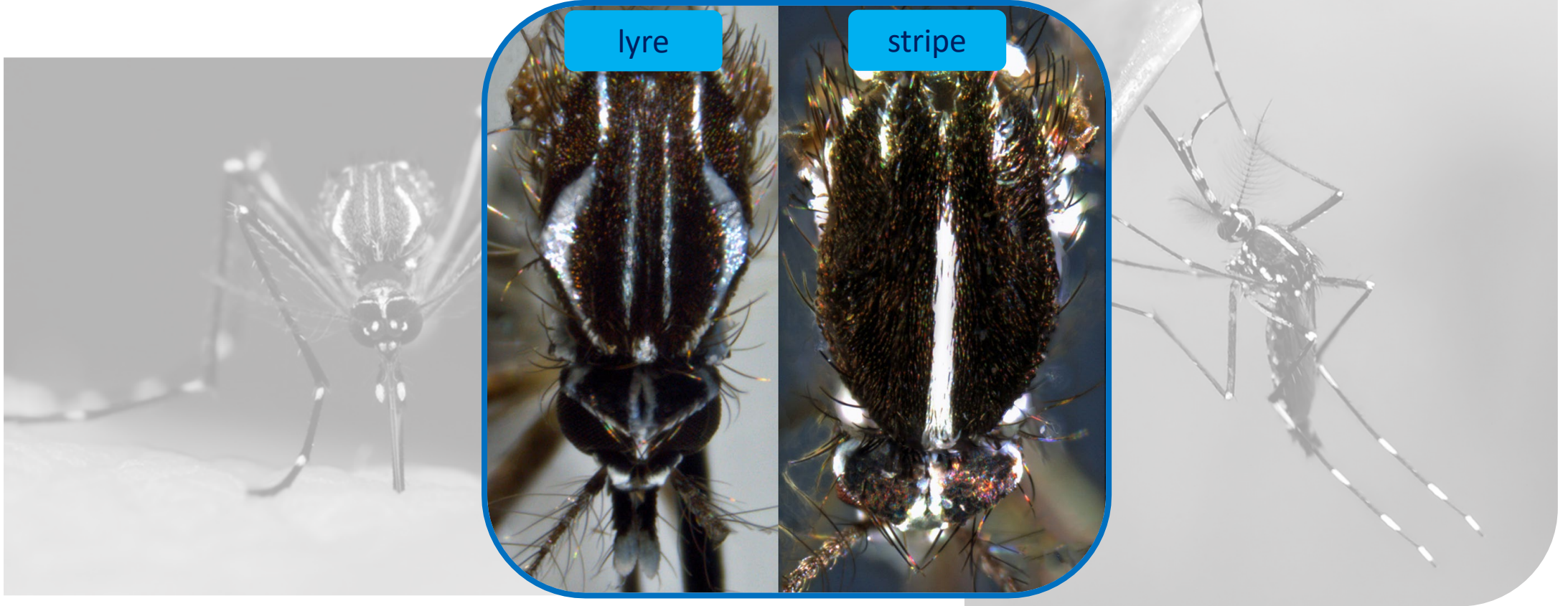


Aedes aegypti
(yellow fever mosquito)



Aedes albopictus
(tiger mosquito)

The non-native *Aedes* of importance in CA



Aedes aegypti
(yellow fever mosquito)

Aedes albopictus
(tiger mosquito)

Aggressive daytime and evening biters



California

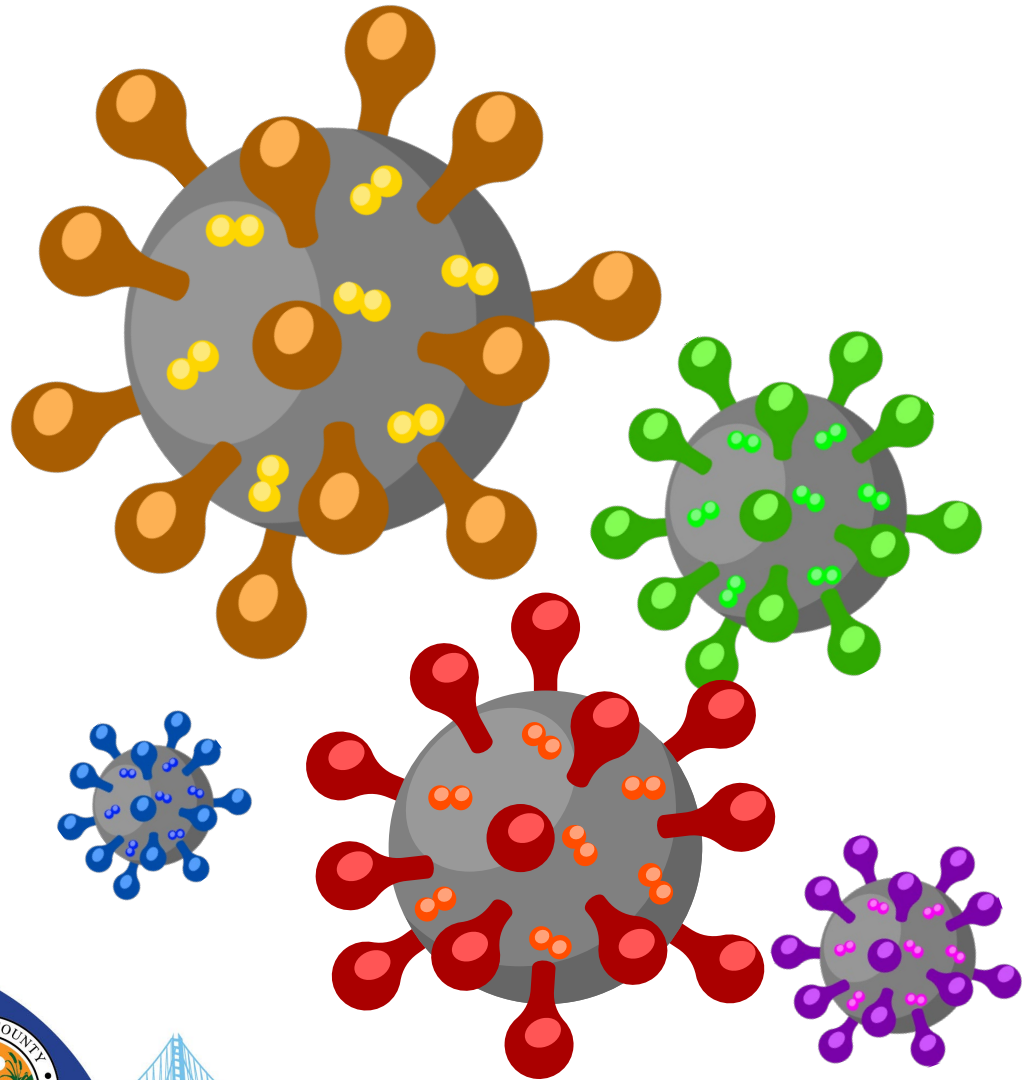
Florida rooms more common



ankle biters



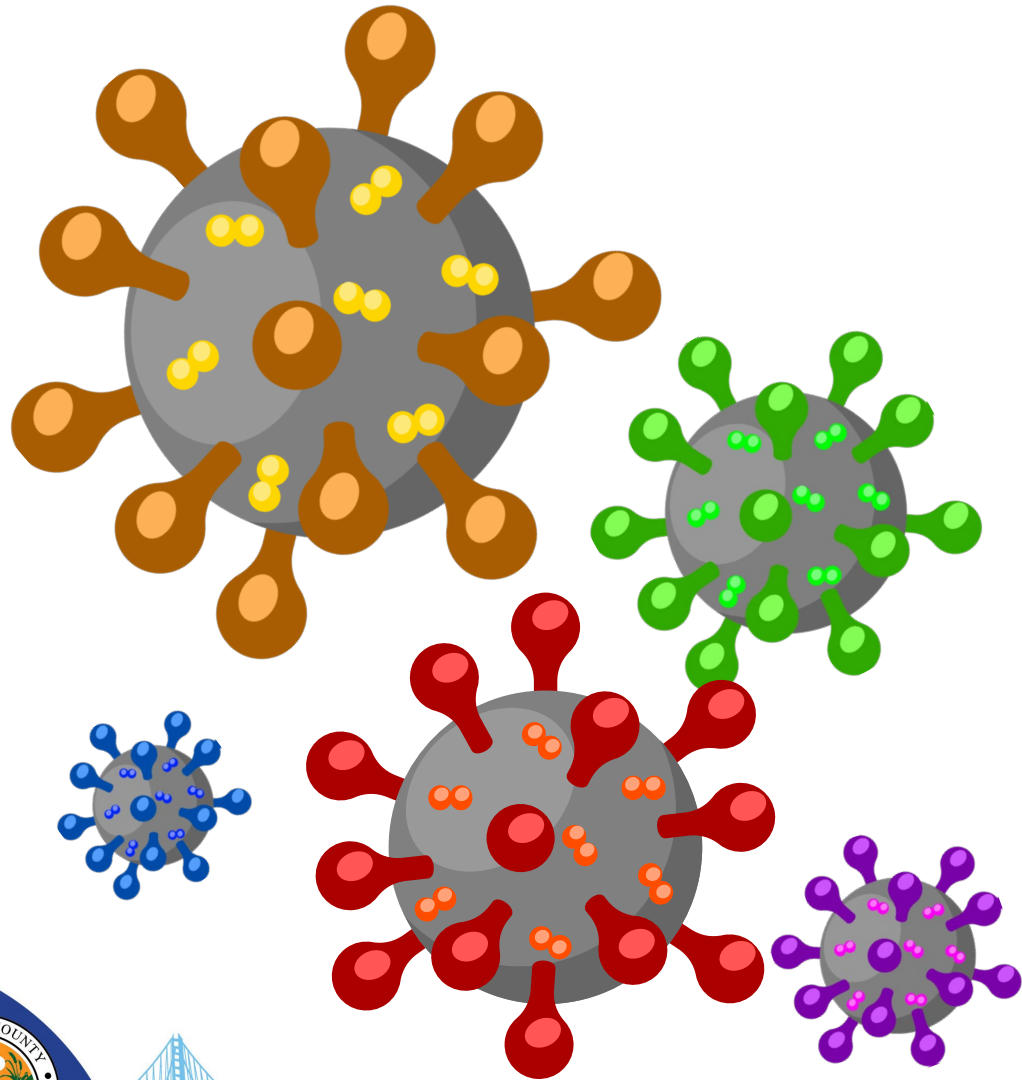
Spreading tropical diseases not in CA



1. Dengue
2. Zika
3. Chikungunya
4. Yellow fever



Spreading tropical diseases not in CA

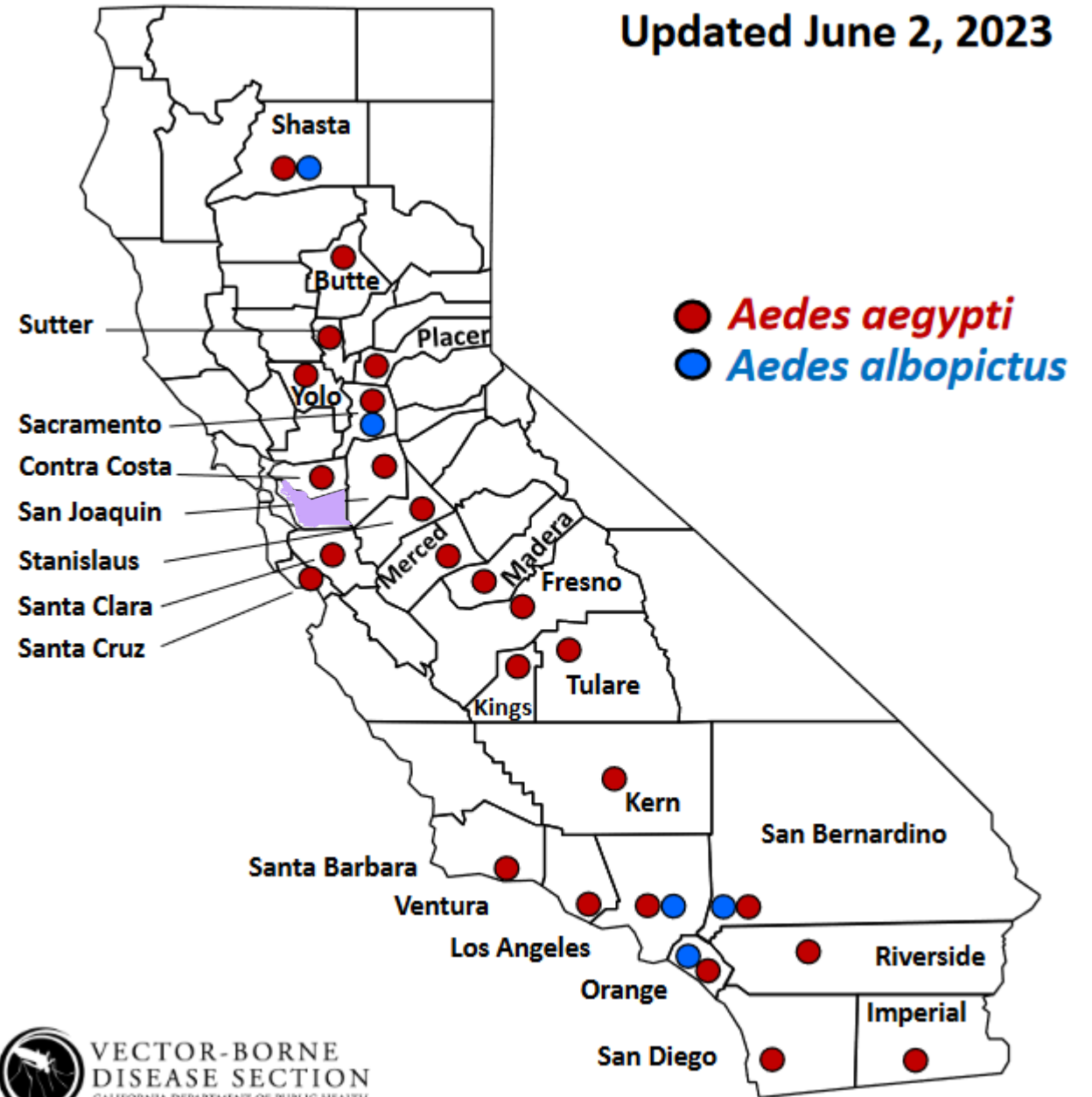


1. Dengue
2. Zika
3. Chikungunya
4. Yellow fever



Alameda County is surrounded by *Aedes aegypti*

Updated June 2, 2023



Aedes diseases are here in Alameda County

Travelers routinely return to Alameda County with serious diseases that are spread by *Aedes aegypti*

Dengue human cases

County	2016	2017	2018	2019	2020	2021	2022
Alameda Total (City of Berkeley)	16 (4)	19 (1)	7 (0)	23 (0)	5 (1)	2 (0)	12 (4)

Chikungunya human cases

County	2016	2017	2018	2019	2020	2021	2022
Alameda Total (City of Berkeley)	10 (0)	3 (0)	2 (0)	5 (0)	0 (0)	0 (0)	4 (0)

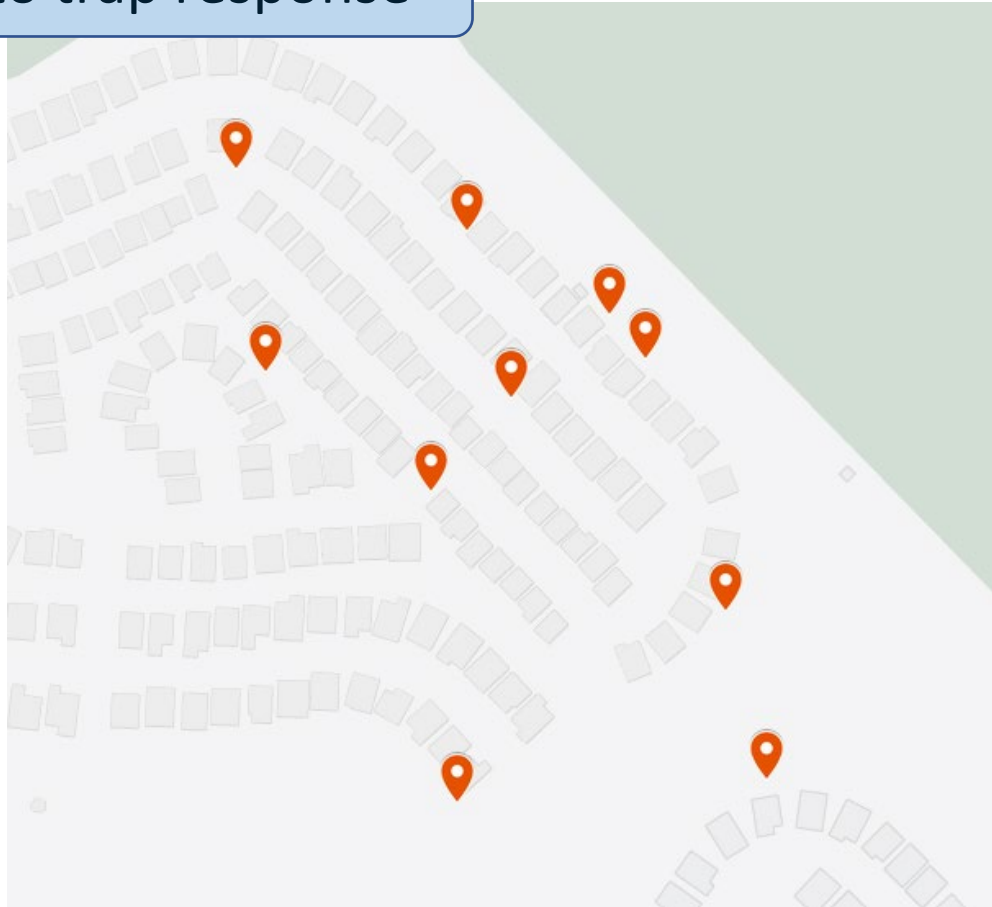
Zika human cases

County	2015-2016	2017	2018	2019	2020	2021	2022
Alameda Total (City of Berkeley)	35 (3)	10 (3)	7 (2)	2 (0)	1 (0)	0 (0)	1 (0)



We investigate each case reported by AC Public Health

Mosquito trap response



ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
PUBLIC HEALTH DEPARTMENT

Division of Communicable Disease Control and Prevention
1100 San Leandro Blvd, 5th 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

Urgent, please hand deliver Confidential Reply Requested

Date: _____

To: _____ Fax: _____

From: ACD [Sender is exempt from requiring authorization per HIPAA [citation 164.512 (b)]]

Phone: _____ Fax: _____

Number of pages (including cover sheet): 1

Dengue Fever Encephalitis Malaria WNV Yellow Fever
 Chikungunya Zika

City: _____
Street: _____
Block: _____

Travel to a foreign country within incubation period? No Yes, where: _____

Public health interview conducted? No Yes

Any mosquito bite since return from travel? No Yes, city: _____

Authorization to speak to Mosquito Abatement District? No Yes (if yes fill below)

Index name: _____

Contact phone: _____



Mosquito producing habitats in Alameda County

Native mosquitoes



N

Salt marsh



N

A

Unmaintained swimming pools



Aedes aegypti

A

Utility vaults



N

Storm water canals



N

A

Rainwater collection barrels

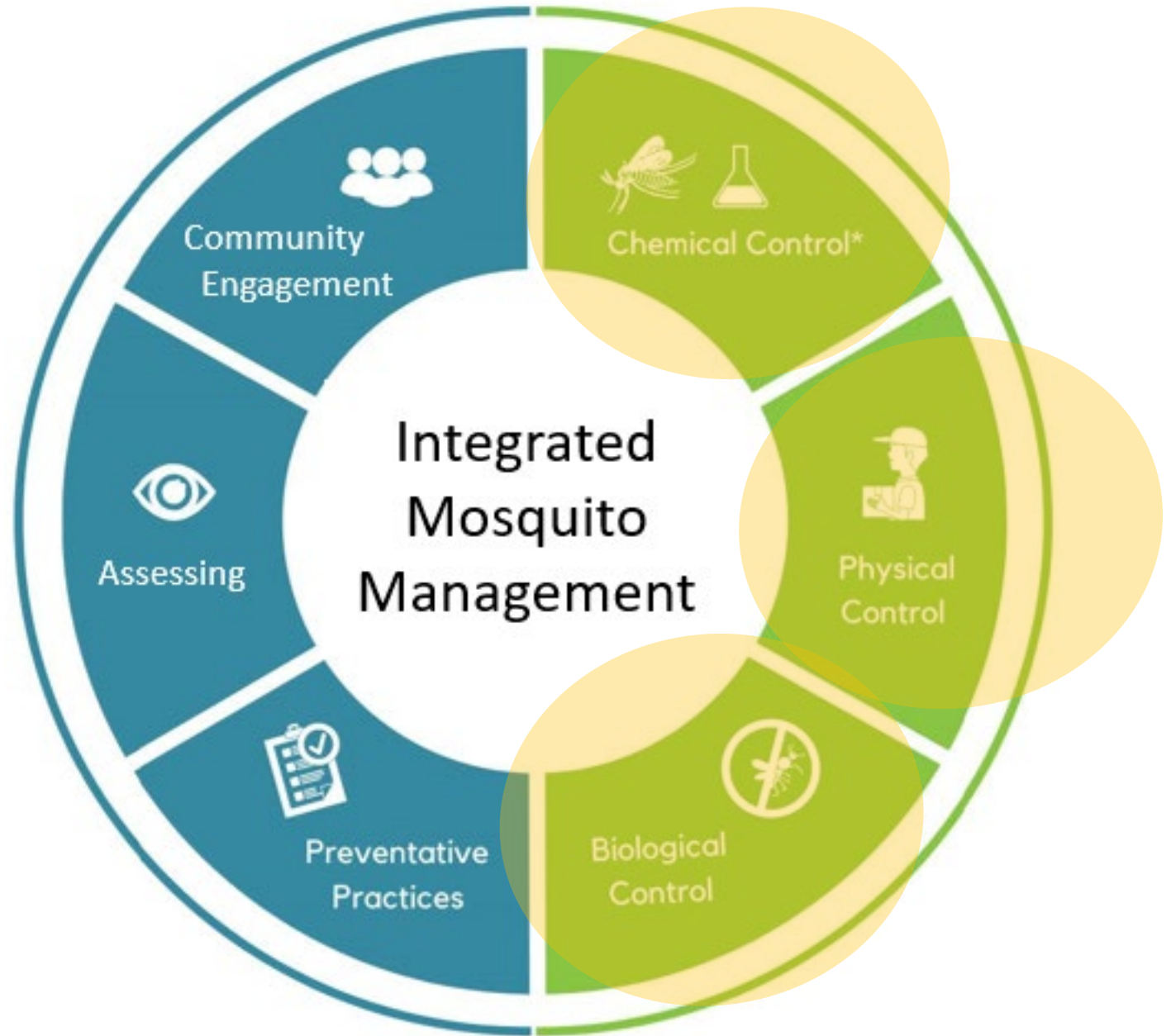


A

Plant saucers



Mosquito control



Native mosquito control



Marsh mosquito control



Urban mosquito control



Residential yards are prime for *Aedes aegypti*

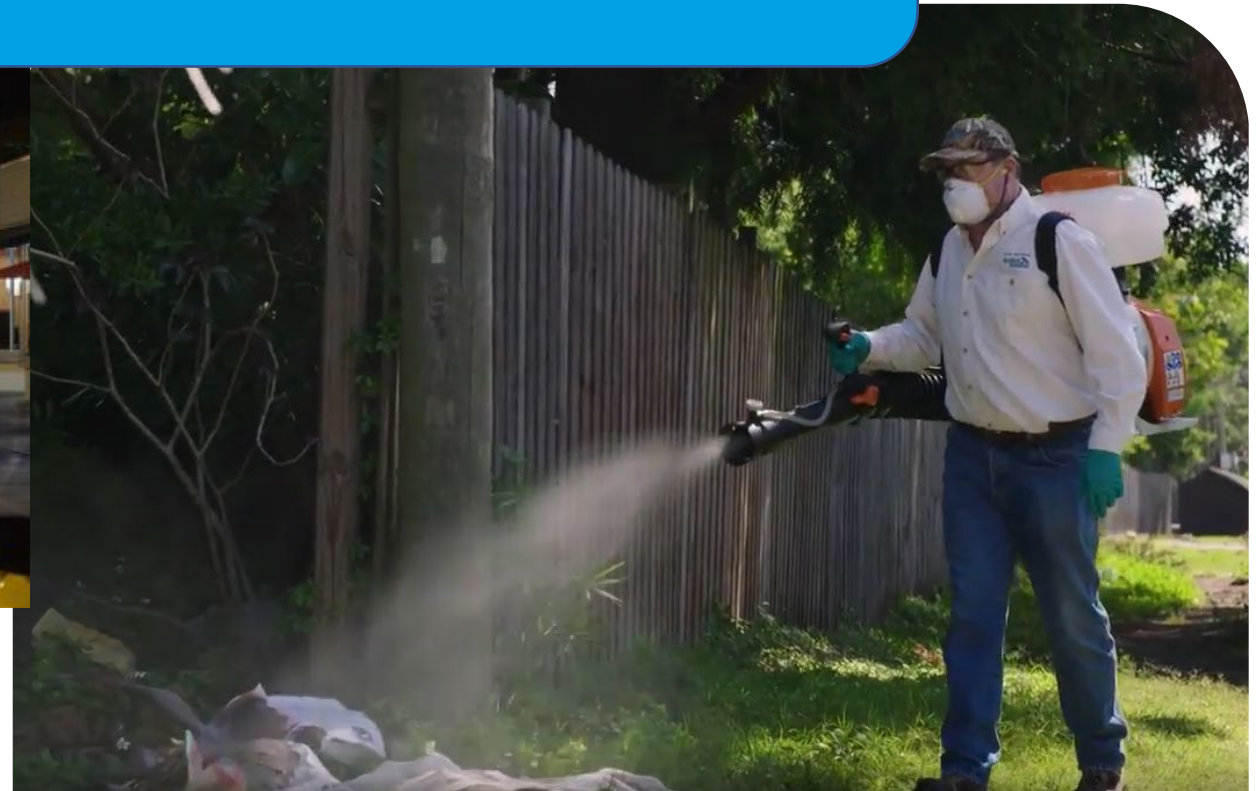


Residential yard *Aedes aegypti*



Invasive *Aedes* mosquito control

Larvicide misters for backyard mosquito control



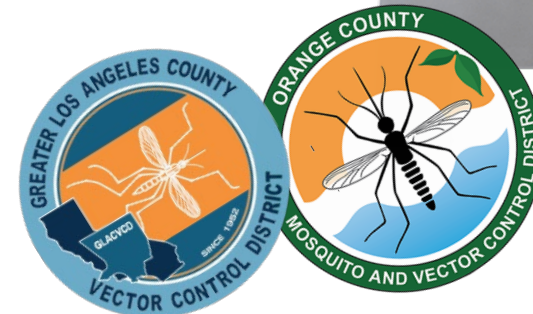
We're preparing to control *Aedes aegypti*



Larvicide mister for marsh mosquito and *Aedes aegypti* control



Irradiated
SIT mosquitoes





Community engagement for *Aedes aegypti* control



Photo credit: Contra Costa Mosquito & Vector Control District



Photo credit: Contra Costa Mosquito & Vector Control District



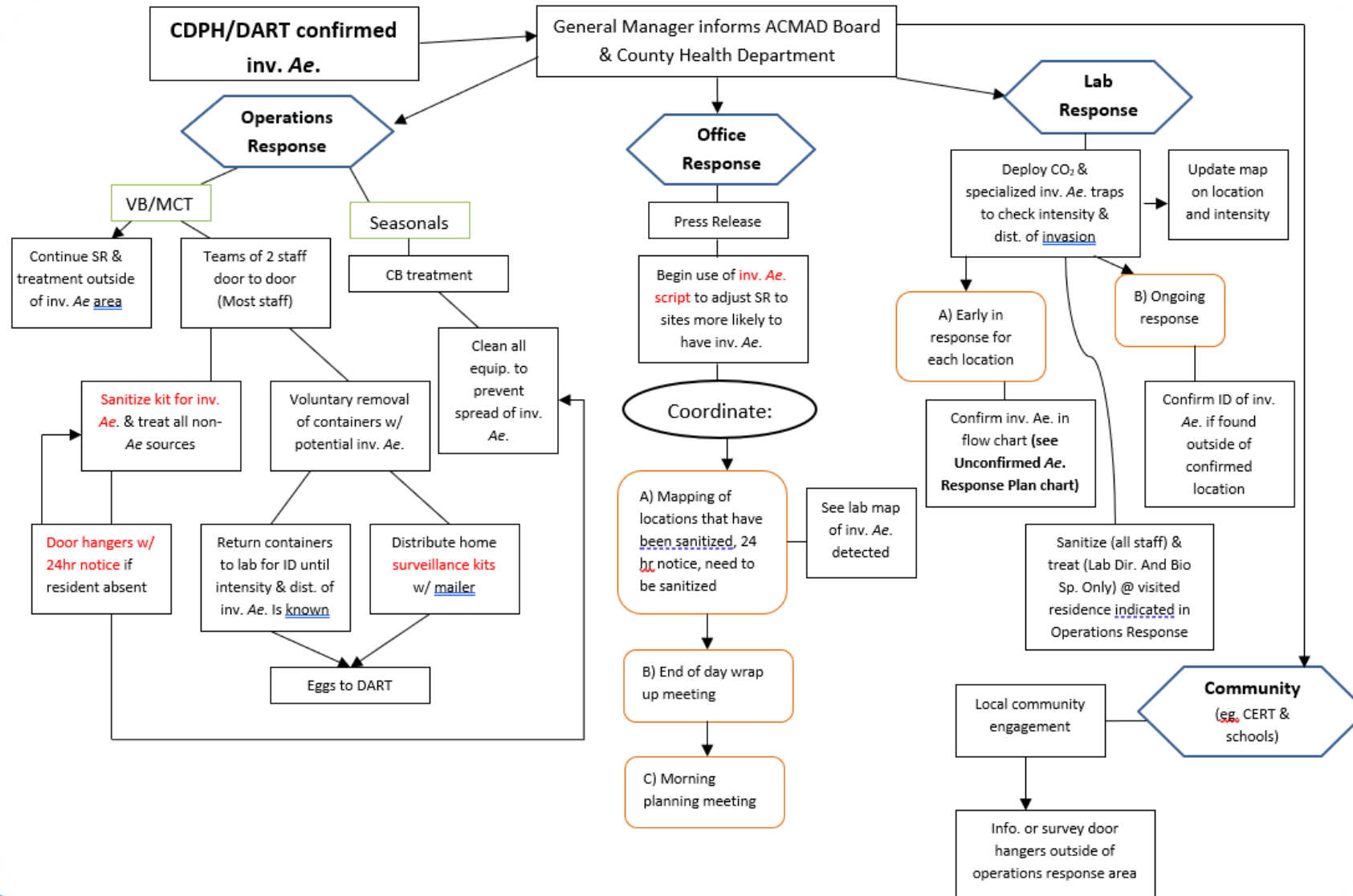
Overview

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- Differences between native and new mosquitoes
 - Habitat, biting, diseases, and control approaches
- How we are preparing
- Future impacts



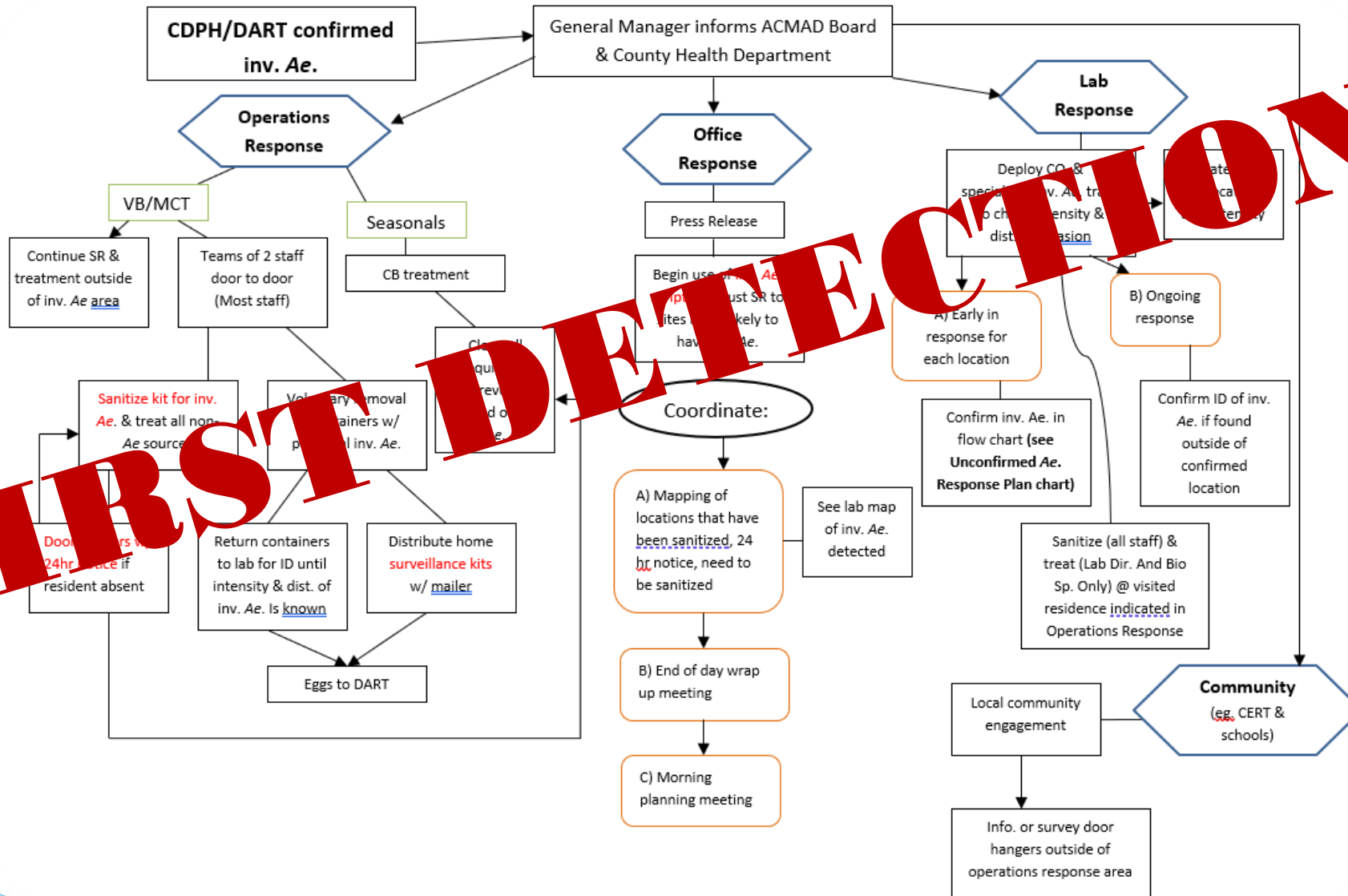
We have a plan

Invasive *Aedes* Response Flowchart



We have a plan

Invasive *Aedes* Response Flowchart



FIRST DETECTION



STRATEGIC PLAN

2021-2023

ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT



**ENSURE ACMAD HAS THE TRAINING, EQUIPMENT, PERSONNEL,
PARTNERSHIPS, AND FINANCIAL SUPPORT TO LIMIT THE
INTRODUCTION OF INVASIVE *Aedes* MOSQUITOES**

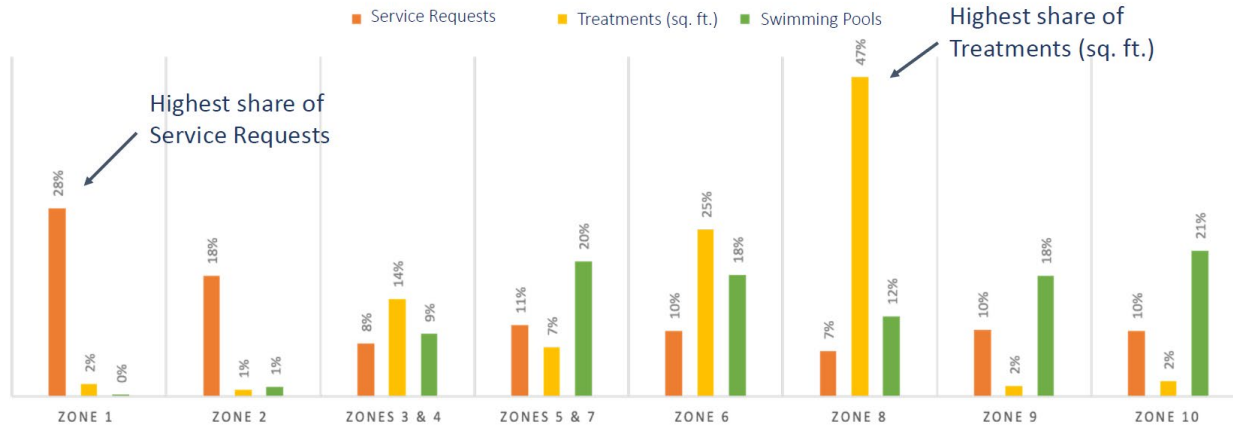
**LEVERAGE ACMAD ASSETS TOWARDS EFFICIENT APPROACHES
TO MOSQUITO CONTROL**

**EMPLOY THE BEST PRACTICES FOR MOSQUITO CONTROL
DISTRICTS AND LOCAL GOVERNMENTS**

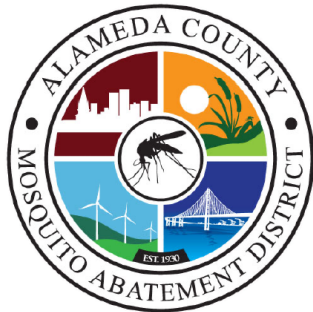


More planning

WORK DISTRIBUTION IN CURRENT ZONES



Measuring and Distributing Workload at Alameda County Mosquito Abatement District



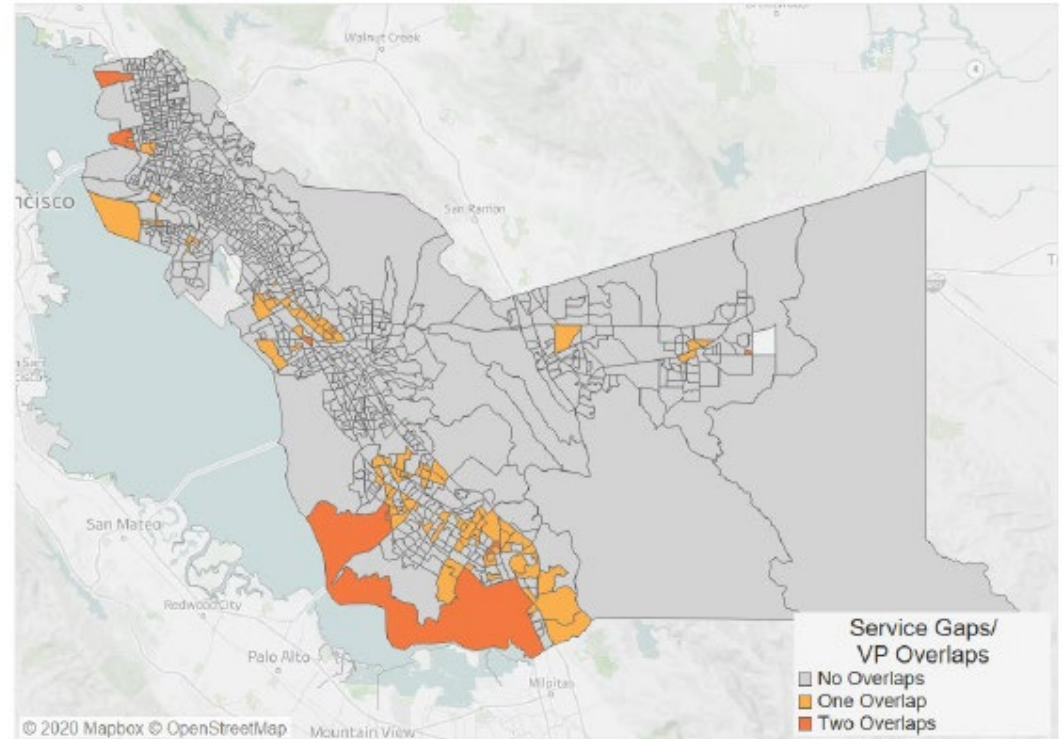
Sky Mihaylo, MPP
 Consultant – UC Berkeley,
 Goldman School of Public Policy

www.mosquitoes.org

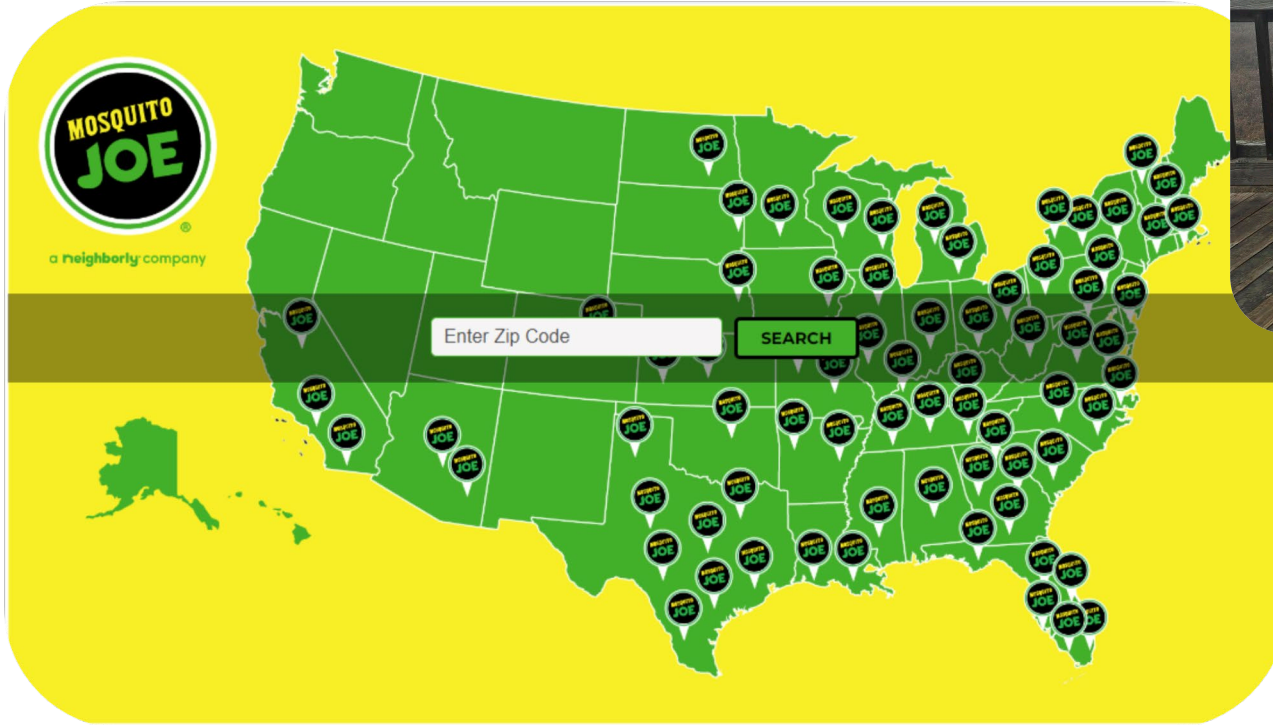
Equitable, Effective Practices for Mosquito Abatement in Alameda County: Challenges and Solutions

Emily Estus, MPP/MPH Candidate 2021
 University of California, Berkeley
 May 2020

Figure 12: Service Gap Overlap with Low-Income Neighborhoods, Recent Immigrant Communities, and Unhoused Individuals



Future Impacts



Private sector considerations



Staffing adjustments



Please contact us for more

Erika@mosquitoes.org

Eric@mosquitoes.org



Alameda County Mosquito Abatement Dist.

Check Register

For the Period From May 1, 2023 to May 15, 2023

Filter Criteria includes: Report order is by Date.

Check #	Date	Payee	Amount
3607	5/15/23	Airgas	982.42
3608	5/15/23	Argo Adventure	1,478.24
3609	5/15/23	AT&T	83.59
3610	5/15/23	Bay Alarm	667.07
3611	5/15/23	Beck's Shoes	380.00
3612	5/15/23	Belden Consulting Engineers	800.00
3613	5/15/23	Cintas	626.27
3614	5/15/23	Clarke	26,801.50
3615	5/15/23	Coverall North America, Inc.	495.00
3616	5/15/23	Grainger	36.72
3617	5/15/23	Guaranteed Auto Service	1,874.66
3618	5/15/23	Hentschke, Eric Armin	100.00
3619	5/15/23	Jarvis Fay LLP	6,516.00
3620	5/15/23	Mar-Len Supply, Inc.	250.00
3621	5/15/23	NBC Supply Corp	887.77
3622	5/15/23	PFM Asset Management LLC	1,718.46
3623	5/15/23	PG&E	309.26
3624	5/15/23	Schaeffer MFG.Co.	1,674.71
3625	5/15/23	The Hartford	119.41
3626	5/15/23	Treds	1,127.91
3627	5/15/23	UMPQUA Bank Commerical Card OPS	779.60
3628	5/15/23	U.S Bank Corporate Payment System	11,572.50
3629	5/15/23	Verizon	336.81
3630	5/15/23	Visalia Times Delta	2,676.00
3631	5/15/23	Voya Institutional Trust Company	181.43
3632	5/15/23	Waste Management of Alameda County	336.18
3633	5/15/23	Young, George	100.00
ACH	5/15/23	Aguilar, Victor	100.00
ACH	5/15/23	Arkin, Valerie	100.00
ACH	5/15/23	Beatty, Robert .P	100.00
ACH	5/15/23	Bhat, Subrahmanya Y	100.00
ACH	5/15/23	CalPERS 457	3,778.64
ACH	5/15/23	CalPERS Retirement	15,611.66
ACH	5/15/23	Qaadri, Kashef	100.00
ACH	5/15/23	Roache, Cathy J Pinkerton.	100.00
ACH	5/15/23	Salzer, Hope	100.00
ACH	5/15/23	Savage, Tyler	100.00
ACH	5/15/23	Welch, Courtney	100.00
Total Expenditures - May 15, 2023			83,201.81

Alameda County Mosquito Abatement Dist.
Check Register
For the Period From May 16, 2023 to May 31, 2023

Filter Criteria includes: Report order is by Date.

Check #	Date	Payee	Amount
4001	5/30/23	Airgas	832.35
4002	5/30/23	Adapco	4,753.39
4003	5/30/23	Bay Alarm	139.13
4004	5/30/23	Cintas	431.72
4005	5/30/23	Clarke	629.00
4006	5/30/23	Guaranteed Auto Service	4,827.67
4007	5/30/23	Mar-Len Supply, Inc.	218.20
4008	5/30/23	PG&E	48.67
4009	5/30/23	The Hartford	119.41
4010	5/30/23	VCJPA	277.53
4011	5/30/23	Voya Institutional Trust Company	181.43
4012	5/30/23	VSP	646.83
4013	5/30/23	WEX Bank	4,491.22
4014	5/30/23	Wieland, Mark	102.00
ACH	5/30/23	Alameda County Mosquito Abatement Dist (Payroll)	83,973.02
ACH	5/30/23	CalPERS Health	41,242.59
ACH	5/30/23	CalPERS Retirement	15,611.66
ACH	5/30/23	CalPERS 457	3,778.64
Total Expenditures - May 31, 2023			162,304.46

Alameda County Mosquito Abatement District
Income Statement
May 31, 2023. (11 of 12 mth, 92%)

REVENUES	Actual 2020/21	Actual 2021/22	Current Month	Year to Date 2022/23	Budget 2022/23	Actual vs Budget
Total Revenue	\$ 5,150,753.15	\$ 5,386,808.18	\$ 244,574.79	\$ 5,577,311.16	\$ 4,900,658.00	114%

EXPENDITURES	Actual 2020/21	Actual 2021/22 ¹	Current Month ²	Year to Date 2022/23	Budget 2022/23	Actual vs Budget
Salaries	\$ 2,029,103.97	\$ 2,129,077.24	\$ 103,701.46	\$ 2,119,028.09	\$2,371,703	89%
CalPERS Retirement	\$ 423,110.21	\$ 471,085.19	\$ 18,173.48	\$ 507,203.69	\$534,559	95%
Medicare & Social Security	\$ 27,866.82	\$ 30,025.60	\$ 1,241.54	\$ 30,977.24	\$38,763	80%
Fringe Benefits	\$ 502,898.39	\$ 484,487.10	\$ 42,128.24	\$ 558,320.46	\$564,969	99%
Total Salaries, Retirement, & Benefits	\$ 2,982,979.39	\$ 3,114,675.13	\$ 165,245	\$ 3,215,529	\$3,509,994	92%
Clothing and personal supplies (purchased)	\$ 4,859.20	\$ 7,881.80	\$ 820.39	\$ 5,787.61	\$9,000	64%
Laundry service and supplies (rented)	\$ 9,124.98	\$ 10,417.41	\$ 617.60	\$ 11,722.83	\$13,000	90%
Utilities	\$ 15,421.56	\$ 18,134.35	\$ 1,386.84	\$ 18,281.66	\$21,700	84%
Communications-IT	\$ 71,771.02	\$ 74,950.03	\$ 1,636.37	\$ 70,223.71	\$107,400	65%
Maintenance: structures & improvements	\$ 20,261.51	\$ 26,671.36	\$ -	\$ 14,911.53	\$30,000	50%
Maintenance of equipment	\$ 22,290.34	\$ 25,354.56	\$ 12,826.37	\$ 35,772.07	\$30,000	119%
Transportation, travel, training, & board	\$ 74,653.03	\$ 120,418.29	\$ 9,307.77	\$ 118,195.60	\$119,840	99%
Professional services	\$ 91,622.03	\$ 97,726.00	\$ 8,234.46	\$ 82,564.62	\$127,200	65%
Memberships, dues, & subscriptions	\$ 22,906.45	\$ 25,103.23	\$ -	\$ 20,955.00	\$37,000	57%
Insurance - (VCJPA, UAS)	\$ 141,650.37	\$ 160,932.64	\$ -	\$ 177,717.48	\$179,436	99%
Community education	\$ 26,317.23	\$ 26,225.45	\$ 5,171.35	\$ 21,251.66	\$55,000	39%
Operations	\$ 223,362.22	\$ 182,575.57	\$ 33,241.20	\$ 107,855.20	\$252,500	43%
Household expenses	\$ 15,882.05	\$ 25,388.02	\$ 1,337.92	\$ 15,406.01	\$19,950	77%
Office expenses	\$ 9,747.67	\$ 7,002.84	\$ 221.51	\$ 4,892.59	\$12,000	41%
Laboratory supplies	\$ 64,135.55	\$ 82,354.03	\$ 3,279.13	\$ 84,617.61	\$132,500	64%
Small tools and instruments	\$ 2,189.34	\$ 1,963.31	\$ 403.94	\$ 1,729.86	\$3,000	58%
Total Staff Budget	\$ 816,194.55	\$ 893,098.89	\$ 78,484.85	\$ 791,885.04	\$1,149,526	69%
Total Operating Expenditures	\$ 3,799,173.94	\$ 4,007,774.02	\$ 243,729.57	\$ 4,007,414.52	\$4,659,520	86%

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
May 31, 2023. (11 of 12 mth, 92%)**

Account #	Investment Accounts	Beginning Balance	Deposits	Withdrawals	Earnings ¹	Ending Balance
1004	LAIF	\$ 106,513.88	\$ -	\$ -	\$ -	\$ 106,513.88
1005	OPEB Fund	\$ 4,552,796.33	\$ -	\$ -	\$ (47,988.00)	\$ 4,504,808.33
1006	VCJPA Member Contingency ²	\$ 353,832.00	\$ -	\$ -	\$ -	\$ 353,832.00
1011	CAMP: Capital Reserve Fund ³	\$ 365,499.00	\$ -	\$ (800.00)	\$ 1,600.42	\$ 366,299.42
1012	PARS: Pension Stabilization ⁴	\$ 2,102,583.99	\$ -	\$ -	\$ 13,736.67	\$ 2,116,320.66
1013	California CLASS: Public Health Emergency Fund	\$ 543,309.82	\$ -	\$ -	\$ 2,376.73	\$ 545,686.55
1014	California CLASS: Operational Fund ⁵	\$ 2,441,739.46	\$ -	\$ (82,401.81)	\$ 10,506.20	\$ 2,369,843.85
1015	California CLASS: Repair and Replace Fund	\$ 2,699,941.39	\$ -	\$ -	\$ 11,811.01	\$ 2,711,752.40
1016	California CLASS: Operating Reserve Fund	\$ 2,003,234.57	\$ -	\$ -	\$ 8,763.24	\$ 2,011,997.81
Total		\$ 15,169,450.44	\$ -	\$ (83,201.81)	\$ 806.27	\$ 15,087,054.90
Cash Accounts		Beginning Balance	Deposits	Activity	Ending Balance	
1001	Bank of America (Payroll Account) *	\$ 233,828.81	-	-	\$ 65,885.21	
1002	Bank of The West (Transfer Account) *	\$ 359,612.30	-	-	\$ 349,304.78	
1003	County Account	\$ 2,363,952.55	\$ -	\$ 242,790.48	\$ 2,606,743.03	
1017	Five Star Bank (Transfer Account) *	\$ -	\$ 1,680.31	\$ -	\$ 1,680.31	
1018	Petty Cash	\$ 484.10	\$ -	\$ (31.10)	\$ 453.00	
Total		\$ 2,957,877.76	\$ 1,680.31	\$ 242,759.38	\$ 3,024,066.33	

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

2 - VCJPA Member Contingency balance is as of March 31, 2023.

3 - \$800.00 transferred from CAMP: Capital Reserve to Bank of the West for expenditures relating to the fish project.

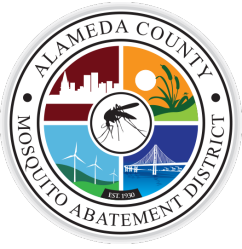
4- PARS - Pension Stabilization balance is as of April 30, 2023.

5 - \$82,401.81 transferred from CA:CLASS Operational Fund to Bank of the West for May expenditures.

Alameda County Mosquito Abatement
Balance Sheet Comparison
May

ASSETS	5/31/2023	5/31/2022	5/31/2021
Current Assets			
Bank of America payroll	\$ 149,857.92	\$ 88,659.16	\$ 103,911.08
Bank of the West	448,740.68	446,995.09	2,327,614.86
County	2,606,743.03	2,441,544.02	356,406.23
Cash with LAIF	106,513.88	3,321,678.92	2,419,033.93
VCJPA- Member Contingency	353,832.00	356,439.00	371,828.00
CAMP - Repair and Replace ¹	-	1,357,529.20	1,040,942.22
CAMP - Public Health Emergency ²	-	527,099.18	526,198.97
CAMP - Operating Reserve ³	-	1,947,576.17	1,944,249.96
CAMP - Capital Reserve Fund	366,299.42	30,047.26	19,991.70
PARS	2,116,320.66	1,694,316.03	1,833,021.75
Five Star Bank	(160,624.15)	-	-
California CLASS: Public Health Emergency Fund	545,686.55	-	-
California CLASS: Operational Fund	2,369,843.85	-	-
California CLASS: Repair and Replace Fund	2,711,752.40	-	-
California CLASS: Operating Reserve Fund	2,011,997.81	-	-
Accounts Receivable	-	-	-
Petty cash	453.00	401.13	405.78
	<u>13,627,417.05</u>	<u>12,212,285.16</u>	<u>10,943,604.48</u>
Total Current Assets	13,627,417.05	12,212,285.16	10,943,604.48
Property and Equipment			
Acc Dep - equipment	(1,709,382.00)	(1,594,225.00)	(1,479,068.00)
Acc Dep - stru & improv	(2,723,997.00)	(2,604,632.00)	(2,485,267.00)
Construction in progress	26,010.43	-	-
Equipment	1,830,175.69	1,769,859.00	1,751,859.00
Structure/improvement	4,760,618.00	4,760,618.00	4,799,729.70
Land	61,406.00	61,406.00	61,406.00
	<u>2,244,831.12</u>	<u>2,393,026.00</u>	<u>2,648,659.70</u>
Total Property and Equipment	2,244,831.12	2,393,026.00	2,648,659.70
Other Assets			
Net OPEB Asset	1,225,311.00	2,522,763.00	1,823,556.00
	<u>1,225,311.00</u>	<u>2,522,763.00</u>	<u>1,823,556.00</u>
Total Other Assets	1,225,311.00	2,522,763.00	1,823,556.00
Total Assets	<u>\$ 17,097,559.17</u>	<u>\$ 17,128,074.16</u>	<u>\$ 15,415,820.18</u>
LIABILITIES AND CAPITAL			
Current Liabilities			
Accounts payable	\$ 103,518.90	\$ 160,954.90	\$ 154,773.46
Acc payroll/vacation	201,023.94	208,228.89	200,290.26
Def inflow - 75	1,046,869.00	1,254,695.00	931,786.00
Def inflow pen defer GASB 68	1,941,395.00	208,602.00	289,664.00
Defer outflow pen cont GASB 68	(822,206.00)	(936,411.00)	(1,056,534.00)
Net pension liability GASB 68	2,034,280.00	3,603,091.00	3,277,554.00
	<u>4,504,880.84</u>	<u>4,499,160.79</u>	<u>3,797,533.72</u>
Total Current Liabilities	\$ 4,504,880.84	\$ 4,499,160.79	\$ 3,797,533.72
Total Liabilities	4,504,880.84	4,499,160.79	3,797,533.72
Capital			
Designated fund balances	3,044,832.55	4,412,645.55	4,440,057.25
Investment in general fixed as	7,642,845.18	6,677,881.96	5,296,151.61
Net Income	1,905,000.60	1,538,385.86	1,882,077.60
	<u>12,592,678.33</u>	<u>12,628,913.37</u>	<u>11,618,286.46</u>
Total Capital	12,592,678.33	12,628,913.37	11,618,286.46
Total Liabilities & Capital	<u>\$ 17,097,559.17</u>	<u>\$ 17,128,074.16</u>	<u>\$ 15,415,820.18</u>

1 - CAMP: Repair and Replace Fund was closed February 2023.
2 - CAMP: Public Health Emergency Fund was closed September 2022.
3 - CAMP: Operating Reserve Fund was closed February 2023.



MONTHLY STAFF REPORT –1114

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OPERATIONS REPORT

The focus of operations in May was on our three main potential West Nile virus (WNV) vectoring *Culex* spp. mosquitoes. Most inspections and treatments were for *Cx. tarsalis*. This species utilizes sources such as freshwater marshes, rain filled areas with vegetation such as vernal pools, slow moving sections of creeks and canals, and unmaintained swimming pools. Many sources were still holding water from the significant rainfall received earlier in the season and many will continue to hold water for months to come. *Cx. tarsalis* readily feeds on birds and can travel several miles from a given source, making it a significant potential WNV vector. Our second species of focus was *Cx. Erythrothorax*. This mosquito tends to be closely associated with tule and bulrush in freshwater marshes. It also readily feeds on birds and has been shown to be a competent vector of WNV. This mosquito typically does not travel far from breeding sites, but it can be an aggressive biter of both mammals and birds and can be very abundant in certain sources. Treatments for this species can be complex because of the dense vegetation. Our third main *Cx. spp.*, *Cx. pipiens*, can be found county-wide and often in cryptic sources. They prefer foul water and will breed in sewer plants, sumps, storm drains, flooded basements, and catch basins. Operations staff have been actively treating catch basins for this species throughout the county and with tens of thousands of catch basins in Alameda County, this process will be ongoing for months to come. With the onset of our WNV season and an increasing abundance of all three species, operations focus on sources for all three will continue to intensify in the months to come. This is an integral component of ACMAD's WNV program.

Adult mosquito trapping data from our lab also aids in directing focus on certain areas of the county. Another key component is tracking WNV positive birds and adult mosquitoes. At the month's close, two crows were collected by ACMAD staff and determined to be WNV positive by our lab. Several members of operations responded to the area to investigate sources for any *Cx. spp.* larvae and the lab responded with traps for adults. No positive mosquitoes were collected. This response protocol occurs with each detection in our county.

Requests for service received from the public in May were a bit below the ten-year average for the month. Close to half of the requests were requests for mosquito fish for backyard ponds, unmaintained swimming pools, and livestock watering troughs. The heavy rainfall earlier in the season impacted our main mosquito fish supplier so operations staff have been collecting mosquito fish from the field to keep our stock up with the requests from our public. Of the requests to "report standing water," most were to report remnants of rainwater in various lots and construction sites as well as in unmaintained swimming pools and containers. Well over half of the requests to "report a mosquito problem" were attributable to non-biting "mosquito-like" insects, primarily midges and crane flies. Numbers of these insects remain high throughout the county. The number of requests to "report a dead bird" were low but, as mentioned, two of the crows collected on one of these reports were WNV positive. These reports continue to be a valuable tool in our WNV program and will be throughout the season. Three requests for an "insect ID" were received. Operations staff utilize these requests to help the public not only understand insects they encounter but also to educate them on preventative measures for mosquito breeding on their properties.

Field Operations Supervisor
Joseph Huston

Operational Report

Service Requests May 2023

May SR Count	May 10 Year Min Count	May 10 Year Max Count	May 10 Year Average
170	107	326	185.30

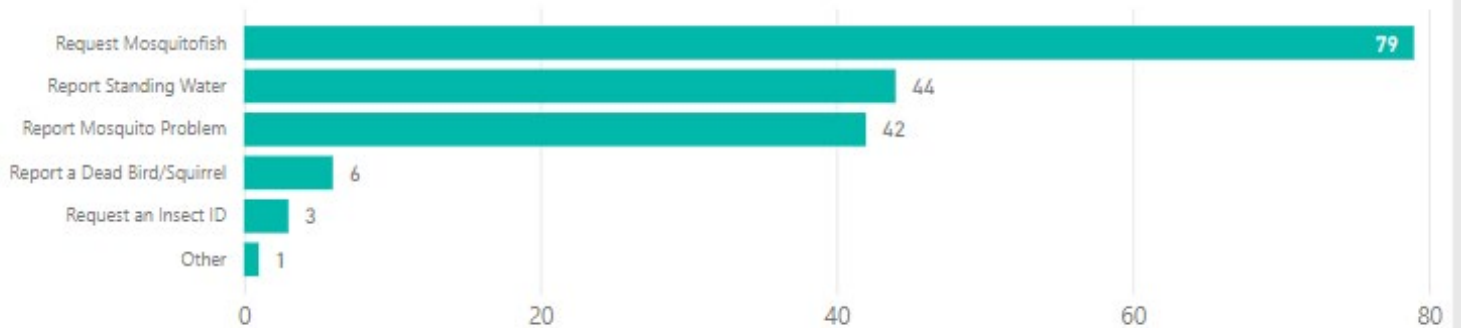
May SR's by Year - 10 Year History



Year Over Year Comparison



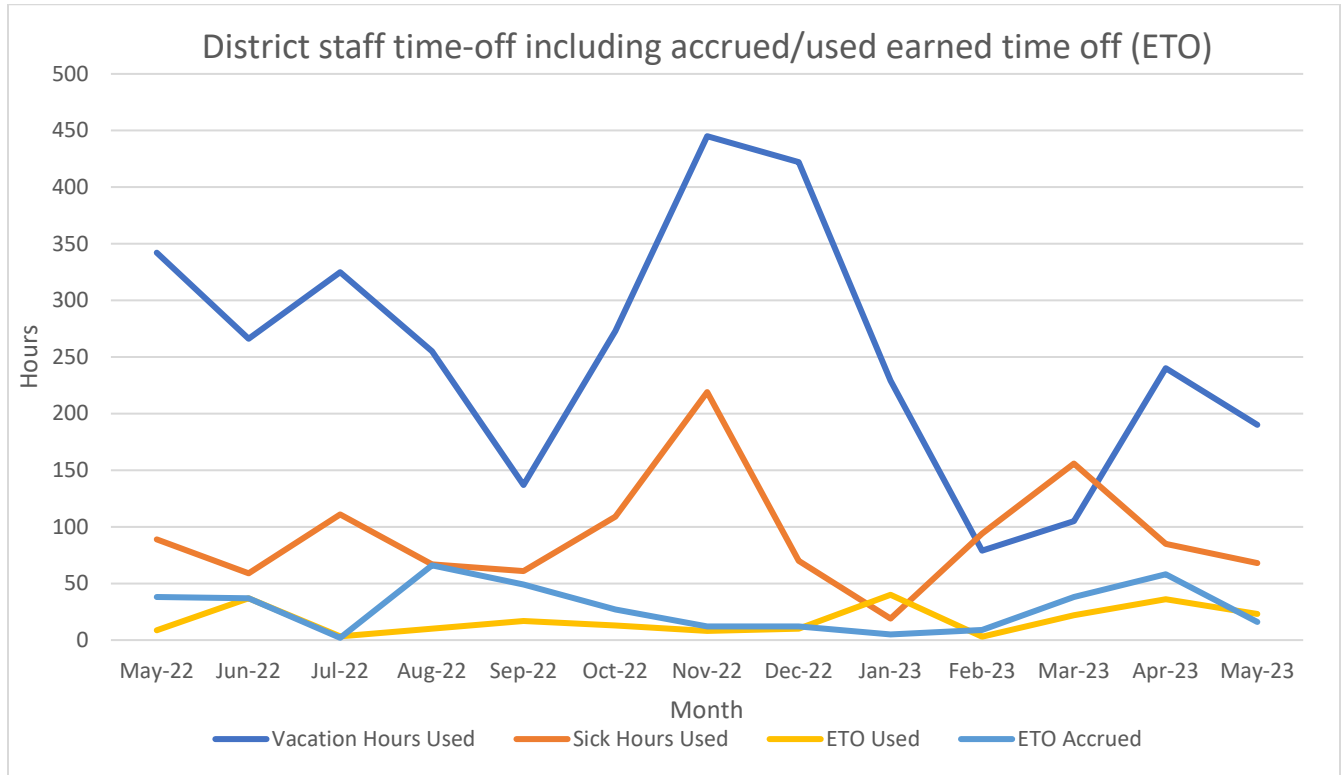
May Count by SR Type



May SR's by City

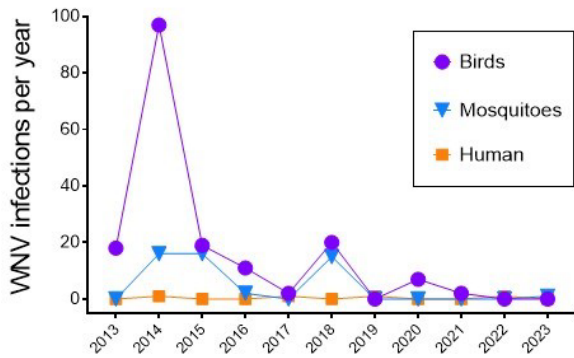


Activity Report

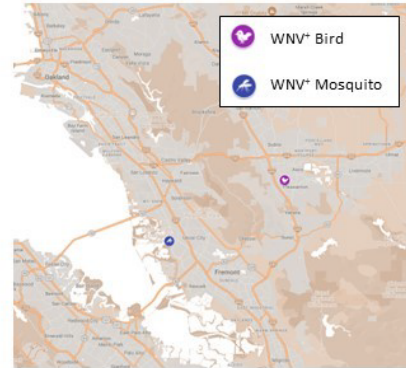


WNV Activity

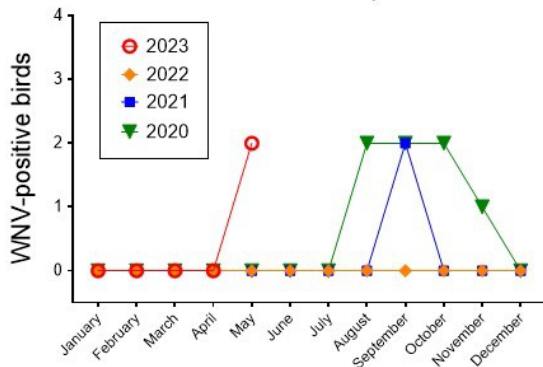
WNV infections detected in Alameda County 2013 – 2023



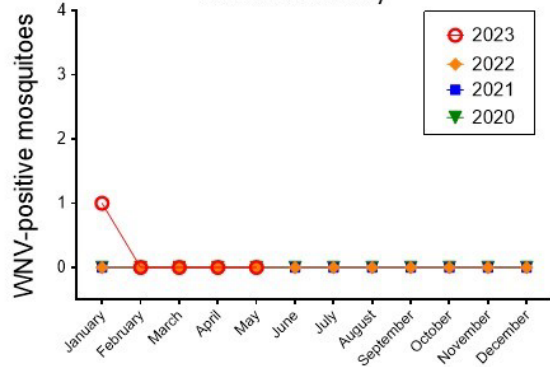
Locations of WNV-infected mosquitoes and birds in Alameda County during 2023



WNV-infected birds collected in Alameda County



WNV-infected mosquitoes collected in Alameda County



A. LAB

Summary

- *Arboviruses in mosquitoes.* The vector species collected in mosquito traps during May 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.* Two American crows collected from the same location in Pleasanton were found to be infected with WNV during May 2023. The mosquito trapping response collected 56 vector mosquitoes, but none were infected with WNV. SLEV, and WEEV have not been detected in birds from Alameda County during 2023.
- *Native mosquitoes.* A total of 332 encephalitis virus survey (EVS) traps, baited with CO₂ and a human scent lure, were placed during May, catching 13,216 adult female mosquitoes (39.8 mosquitos per trap night). Mosquito magnet traps (MMT) collected 1,5125 female *Aedes washinoi* 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

- 80 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.
- A sentinel chicken flock was returned to service in Livermore during May. Blood samples collected and sent to CDPH for testing indicated that they had not yet been exposed to WNV, SLEV, or WEEV. The sentinel chicken flock in the Bayside region of the county (currently Newark), will be moved during June to a marsh region of Union City.

Native Mosquito Abundance

- The following three species are the principal transmitters of WNV, SLEV and WEEV in California: *Culex pipiens* (typically in urban settings), *Culex tarsalis* (associated with marsh and peri-urban areas), and *Culex erythrorhax* (occurs exclusively in marsh but adults can disperse into nearby communities).
- The trapping response to the WNV+ American crows from Pleasanton collected few mosquitoes (56 vector species and 55 non-vector species in 15 traps; 7.4 mosquitoes per trap). The vector species were tested the day they were collected from the traps, and none were infected with WNV, SLEV or WEEV.
- 332 EVS traps collected a total of 13,216 adult female mosquitoes this month (39.8 mosquitoes per trap night), which was 1.9-fold higher than last month. Adult mosquito abundance for May was higher than 2021 and 2022 (Figure 1). Higher numbers of *Culex tarsalis* in marsh habitats drove the higher overall abundance in the county (Figure 2 and Figure 3). *Aedes washioni* abundance remained slightly higher than the prior two years, but they were found almost exclusively at Coyote Hills Regional Park (Figure 4A, 4B). Of note, 21 *Aedes vexans* were collected at Del Valle Regional Park in Livermore (Figure 4C). While this species does not transmit diseases to people, it is an extremely aggressive biter and can reproduce to high levels in the absence of control. However, Del Valle Regional Park is geographically isolated from populations centers, and as such, high *Ae. vexans* abundance during prior years had low impact on residents of Alameda County.
- Mosquito magnet traps captured a moderate number of *Ae. washioni* at Coyote Hills Regional Park (1,512 during the month).

LAB FIGURES

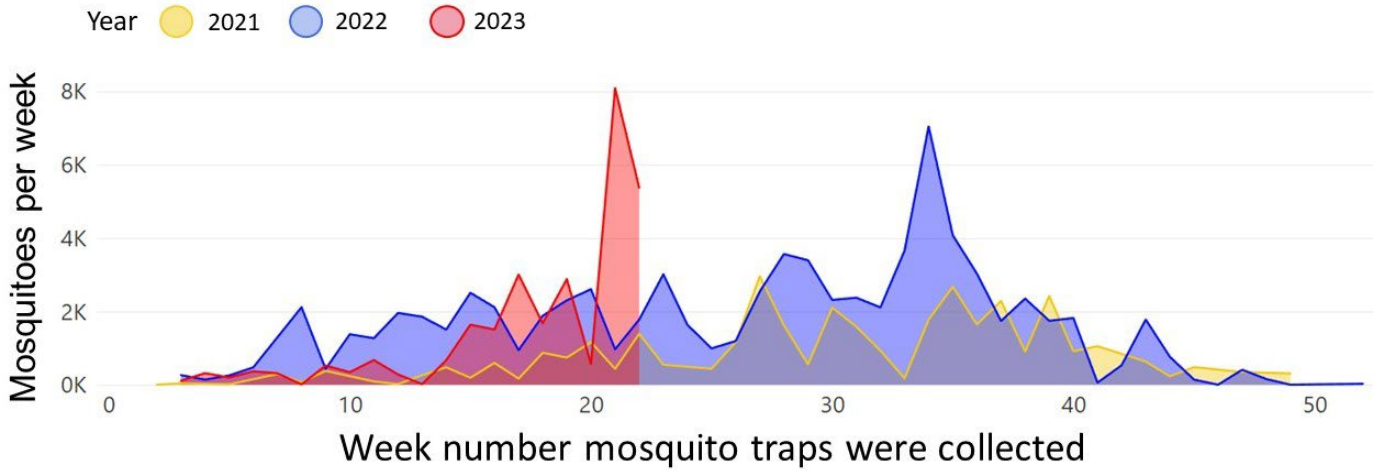


Figure 1. Mosquitoes captured in EVS CO₂ traps from 2021 – 2023. A total of 13,216 adult female mosquitoes were captured in CO₂-baited traps during the month and identified to species. Week 24 of 2021 was excluded from the graph because the high anomalous abundance that week skewed the y-axis.

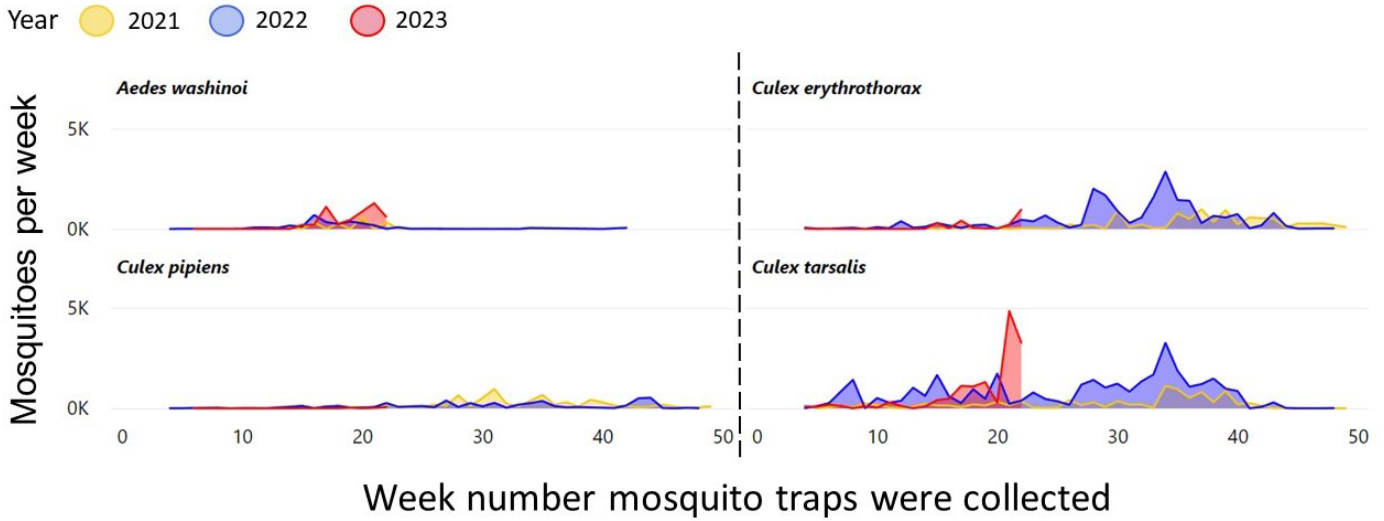


Figure 2. Weekly abundance of important mosquito species during 2021, 2022 and 2023.

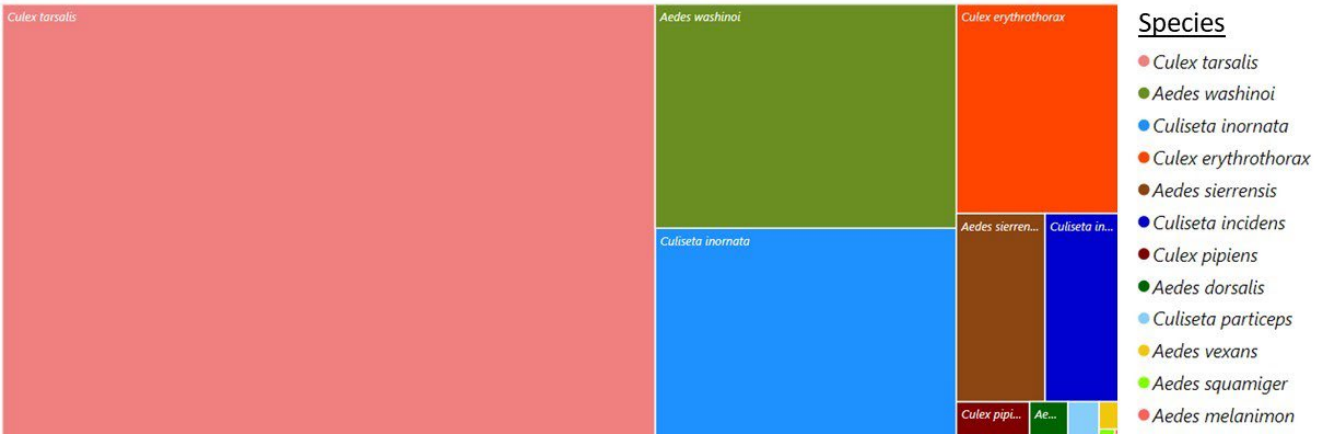
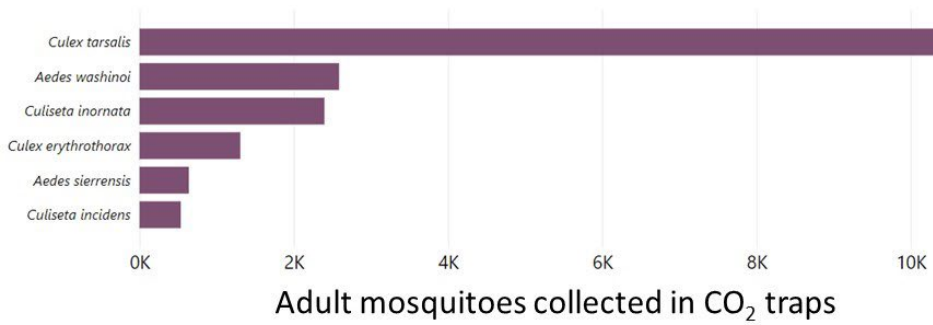


Figure 3. The most abundant species of mosquito captured using EVS CO₂ traps during the month of this report. Larger squares and rectangles indicate a higher abundance of that species.

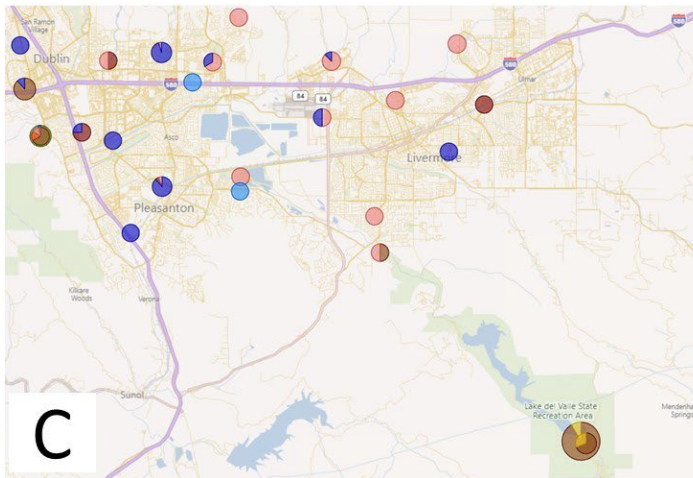
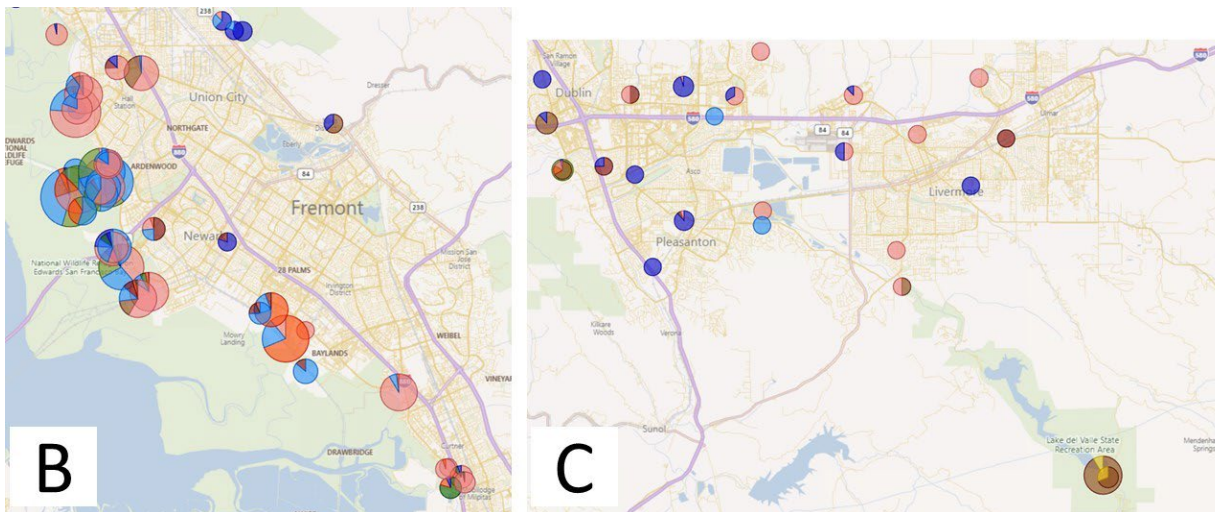
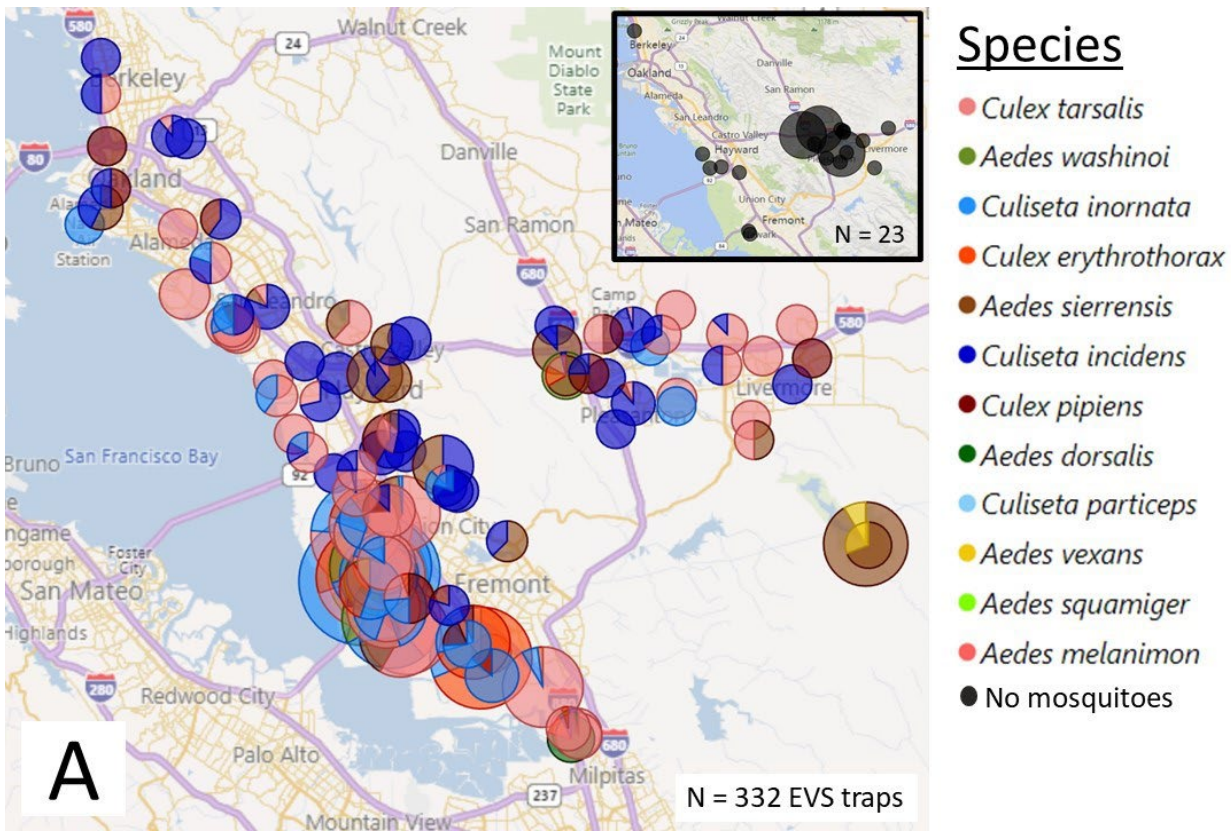


Figure 4. Mosquito abundance by trap site evaluated using EVS CO₂ traps. Pie charts over trap sites indicate the distribution of mosquito species collected at the trap site. The size of each pie chart indicates the relative number of mosquitoes at each site during the month in (A) Alameda County (the 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

B. PUBLIC EDUCATION

Events and Education

Lincoln Elementary Family Science Afternoon- May 12

East Bay MUD 100th Anniversary Celebration - May 21

Halkin Elementary classroom presentations - May 24 and May 25

Google Analytics

Note: *Google Analytics is changing reports on July 1, 2023. The switchover has changed reporting graphics, and it will be different next month.*

May Data

Last day: 145 hits

Last 7 Days: 2,257 hits

Last 30 Days: 6,318 hits

Facebook

May Data: Posts-11 Reach – 783 Followers – 403

Notice something wiggling in your pond?



After the rain and a few days of sun, we are receiving news of mosquito larvae. Remember to tip, toss, drain or call us to treat the water.



Top May Facebook Post: Those are not tadpoles, nor shrimp, those are mosquitoes.

Twitter

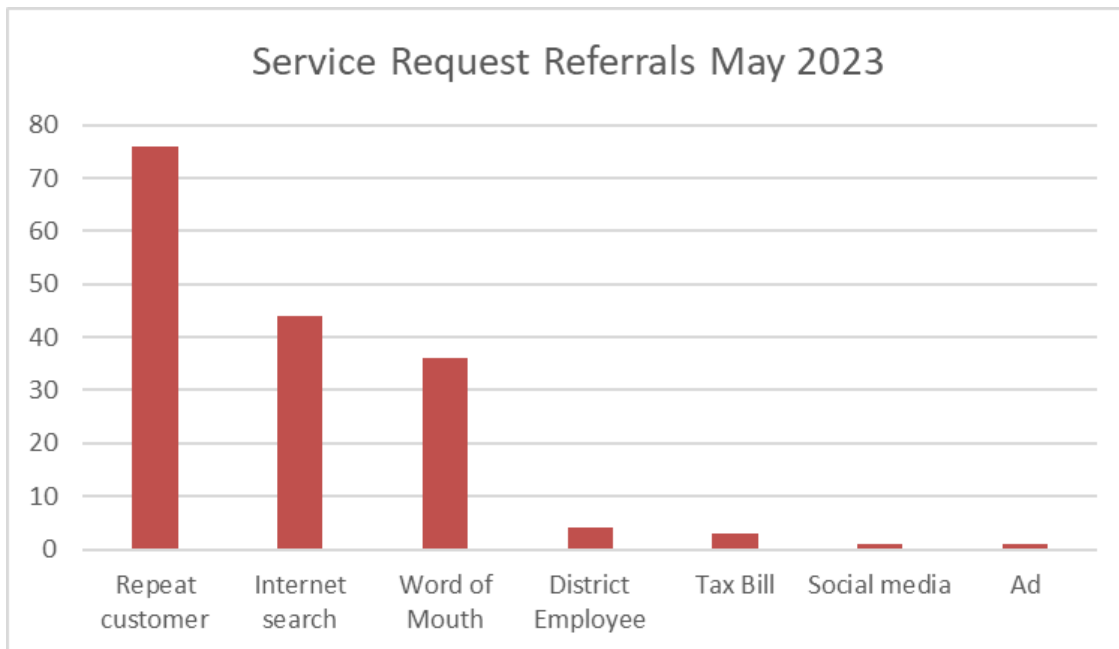
May Data: Posts – 10 Impressions – 667 Followers – 806

Top May 2023 Twitter Post:

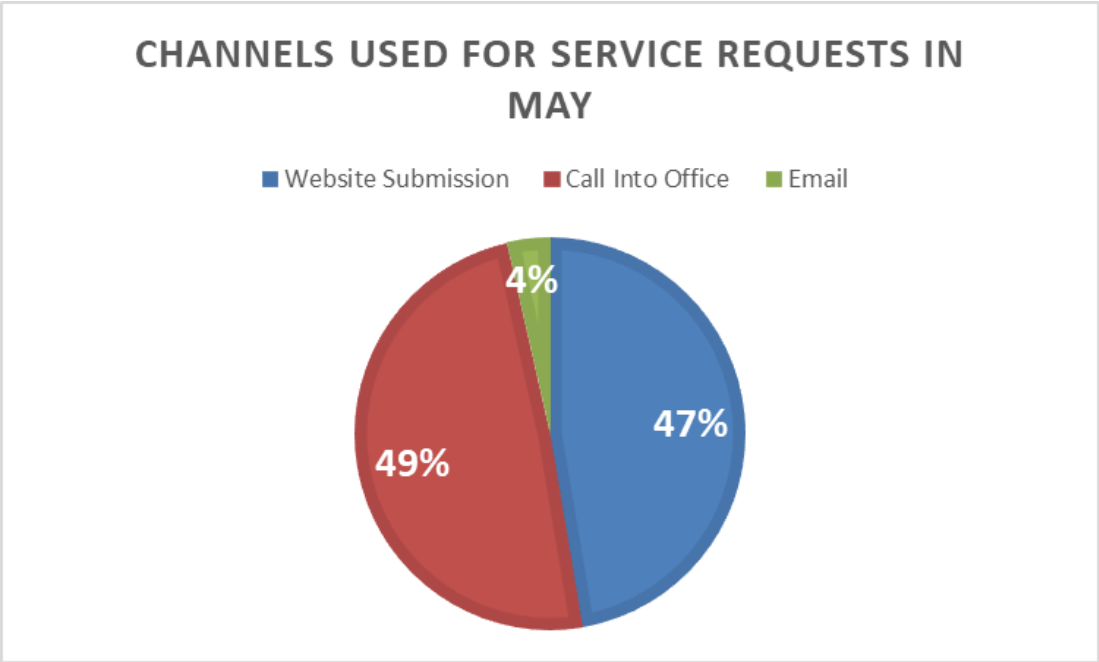
April was a busy month for outreach. We attended festivals, fairs, Agriculture Day in Livermore, Science Night at MLK Elementary in Oakland and more. if you see our booth, drop by and say hello!

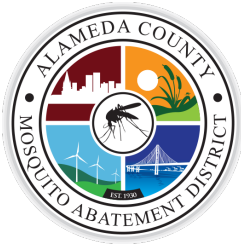


Service Request Referral Summary for May



Channels Used by Residents to Request Service





23187 Connecticut Street
Hayward, CA 94545

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

acmad@mosquitoes.org

Staff Anniversary Recognition:

Board of Trustees

President

Victor Aguilar

San Leandro

Vice-President

Cathy Roache

County-at-Large

Secretary

Steven Cox

Livermore

Tyler Savage

Alameda

Robin López

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Hayward

Jan O. Washburn

Oakland

Eric Hentschke

Newark

Hope Salzer

Piedmont

Valerie Arkin

Pleasanton

Subru Bhat

Union City

Ryan Clausnitzer

General Manager

Background:

ACMAD is pleased to recognize and thank the following employee on their anniversary in June.

Employee	Title	Years of Service	Anniversary Date
Dereje Alemayehu	Vector Scientist	24	June 21st