

AGENDA
1150th MEETING OF THE BOARD OF TRUSTEES
OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT
SEPTEMBER 9TH, 2026

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/82436607161>
All Trustees must attend the meeting in person unless a valid exception applies under existing Brown Act requirements.

TRUSTEES: Kashef Qaadri, President, City of Dublin
John Bauters, Vice-President, City of Emeryville
John Zlatnik, Secretary, City of Fremont
Don McCoon, County-at-Large
Nick Ksiazek, City of Alameda
Preston Jordan, City of Albany
P. Robert Beatty, City of Berkeley
George Syrop, City of Hayward
Maya Manoharan, City of Livermore *from 1845 Marini Ln, Livermore, CA*
Eric Hentschke, City of Newark
Lisa Rasler, City of Oakland
Ted Kinch, City of Piedmont
Jeff Nibert, City of Pleasanton
Victor Aguilar, City of San Leandro
Subru Bhat, City of Union City

1. Call to order.
2. Roll call with announcements by Trustees to Participate Remotely Pursuant to the Brown Act.
3. President Qaadri 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 1150th Regular Meeting held August 12th, 2026 (**Board action required**).
5. Appointment of an ad-hoc strategic planning committee (**Board Action required**).
 - a. Staff report
 - b. ACMAD 2024-2026 Strategic Plan
 - c. ACMAD 2021-2023 Strategic Plan
6. Reclassifying the Mechanical Specialist position to Fleet & Facilities Director based on a regional salary survey and increased responsibilities (**Board action required**)
 - a. Staff Report
 - b. Updated job description
 - c. Salary survey conducted by staff, August 2026
7. Review of CalPERS June 30th, 2026, valuation report (Information only)
 - a. Staff Report
 - b. ACMAD Annual Valuation Report as of June 30th, 2025.

8. Financial Reports as of August 31st, 2026 (Information only).
 - a. Check Register
 - b. Credit card statements
 - c. Income Statement
 - d. Investments, reserves, and cash report
 - e. Balance Sheet
9. Presentation of the Manager's Report (Information only).
 - a. Staff Anniversary Recognitions
 - b. CDPH Arbovirus Bulletin
 - c. Required training due:
 - i. AB1234: Jordan (7/17/26)
 - ii. AB1825: Jordan (5/31/26), Beatty (8/2/26), Kinch (5/1/26), Nibert (8/17/26)
 - iii. SB 827: Syrop (7/1/26), Manoharan (7/1/26), Aguilar (7/1/26)
 1. [In-person training available](#): Hayward, 10/14/26, 9am-12pm
10. Presentation of the Monthly Staff Report (Information only).
11. Board President asks for reports on conferences and seminars attended by Trustees.
12. Board President asks for announcements from members of the Board.
13. Board President asks trustees for items to be added to the agenda for the next Board meeting.
14. Adjournment.

RESIDENTS 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.

HOW TO OBSERVE THE MEETING:

Telephone: Listen to the meeting live by calling Zoom at (669) 900-6833

Enter the **Meeting ID#** 824 3660 7161 followed by the pound (#) key.

Computer: Watch the live streaming of the meeting from a computer by navigating to: <https://us02web.zoom.us/j/82436607161>

Mobile: Log in through the Zoom mobile app on a smartphone and enter **Meeting ID#** 824 3660 7161

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 be treated as contemporaneous comments.

Contemporaneous Comments: During the meeting, the Board President or designee will announce the opportunity to make public comments and identify the cut off time for submission. 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. Once the public comment period is closed, all comments timely received will be read aloud at the meeting (not to exceed three minutes at staff's cadence). Comments received after the close of the public comment period will be added to the record after the meeting.

MINUTES

1150th MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT

August 12th, 2026

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/82436607161>

TRUSTEES: Kashef Qaadri, President, City of Dublin
John Bauters, Vice-President, City of Emeryville *from 4260 Halleck St, Emeryville*
John Zlatnik, Secretary, City of Fremont
Don McCoon, County-at-Large
Nick Ksiazek, City of Alameda
Preston Jordan, City of Albany
P. Robert Beatty, City of Berkeley
George Syrop, City of Hayward
Maya Manoharan, City of Livermore *from 1845 Marini Ln, Livermore*
Eric Hentschke, City of Newark
Lisa Rasler, City of Oakland
Ted Kinch, City of Piedmont
Jeff Nibert, City of Pleasanton
Victor Aguilar, City of San Leandro
Subru Bhat, City of Union City

1. Board President Qaadri called the regularly scheduled board meeting to order at 5:02 pm.
2. Trustees Qaadri, Zlatnik, McCoon, Ksiazek, Jordan, Beatty, Rasler, Kinch, Nibert, Aguilar and Bhat were present at the District. Trustees Bauters and Manoharan were present remotely from the publicly posted locations above. Trustee Syrop and Hentschke arrived at the District at 5:33 pm and 5:42 pm, respectively.
3. President Qaadri invites any member of the public to speak on any issue relevant to the District. Lab Director, Eric Haas-Stapleton, was present for item 6. Information & Technology Director, Robert Ferdan, was present for technical support. Vector Biologist, Sarah Lawton, was present to record the minutes.
4. Approval of the minutes of the 1149th Regular Meeting held July 8th, 2026.
Discussion: None.
Motion: Trustee Jordan moved to approve the minutes
Second: Trustee Nibert
Roll Call Vote: Motion carried, Trustee Aguilar abstained
5. Approving the MapVision database contract moving from (now dissolved) Leading Edge Associates Inc. to Orion Systems Integrators LLC

Discussion: The General Manager and Robert Ferdan gave background information. Trustee Jordan thanked Robert Ferdan for his efforts to save the database and for answering questions ahead of the meeting. Trustee Aguilar asked about the different costs listed; \$15,000 vs \$16,000 (\$15K is for the prior contract with MapVision and \$16K is for Orion). Trustee Kinch asked if the database will be ours or Orion's (Orion will not own it; they would be contracted for services needed). He followed up asking if we own the IP and what the ownership looks like (That is still to be determined but as discussed, each district should own their own separate IPs). He also asked if we reviewed the licensing and if it is Open Source (we do not have the licensing agreement from Central yet however, they have informed us that the solution will not be fully open source. Instead, it will be licensed to the district). He followed up asking if we have looked at exactly what we are getting (not fully as we have just started having this discussion and legal counsel will be engaged at that juncture.)

Motion: Trustee Jordan moved to approve the new contract

Second: Trustee McCoon

Roll Call Vote: Motion carried, unanimous

6. Presentation by Eric Haas-Stapleton, PhD *Traps, Maps, and Mosquitoes: ACMAD's Evolving Response to Aedes aegypti*

Discussion: Trustee Zlatnik asked how the mosquitoes are produced (Mosquito Mate is the company that provides them by transfecting the mosquitoes with the WB1 DNA, which affects their eggs.) Trustee Beatty asked how many male mosquitoes are released (600-1200 per acre.) Trustee Zlatnik asked if each male can affect more than one female (yes). Trustee Jordan asked if there were any non-infected males collected in traps (not yet, but other males have been collected elsewhere and two females in this area). He followed up asking if the male/female birth ratio is 50/50 (will have to follow-up). Trustee Kinch asked if Wolbachia is detectable in a female that mated with a treated male (have not heard of it being done but could potentially check via PCR). Trustee Qaadri asked about the comment that *Aedes aegypti* grid trapping only in east and north county (modeling suggested detections appearing sooner in the warmer areas). He followed up asking if we are still doing grid trapping (yes). Trustee Manoharan asked if invasive *Aedes* are traveling farther than typically expected (50-100 meters is typical, but they have been found 100 meters away). She followed up asking if it is typical to have invasive *Aedes* detections in 3-4 sites in neighboring areas (there is likely more in the County than we see in traps due to trap limitations). Trustee McCoon asked if Mosquito Mate is dusting the males with the blue color or if we do that ourselves (doing in-house). He followed up by asking if we load the tubes ourselves (no, they arrive pre-loaded). Trustee Nibert asked if we will release males in new detection areas (we can adjust the locations but not request more than originally contracted with Mosquito Mate due to their supply limitations). Trustee Zlatnik asked what other diseases have been detected by Alameda Public Health (primarily dengue, but also malaria and chikungunya). Trustee Ksiazek asked if we will be testing *Aedes aegypti* (yes, if any are caught in an area with a travel case, they will be sent to the Davis Arbovirus Research and Training Lab at UC Davis). Trustee Jordan asked what factors go into the risk assessment (number of *Aedes aegypti*, temperature, and number of travel cases).

7. Financial Reports as of July 31st, 2026

Discussion: The General Manager presented highlights in the report. Trustee Syrop asked if our PG&E bill is actually only \$188 per month (yes, less in the summer due to solar production). Trustee Ksiazek asked if the Mosquito Mate payment is a monthly installment (yes, total is

roughly \$30,000). Trustee Zlatnik asked how many birds were tested with the 37 positives (Trustee Beatty pointed out where that figure is stated; over 100 birds). Trustee Beatty asked which training is AB 1825 (harassment, discrimination, retaliation awareness).

8. Presentation of the Manager's Report

Discussion: The General Manager presented highlights in the report.

9. Presentation of the Monthly Staff Report

Discussion: The General Manager and Eric Haas-Stapleton presented highlights in the report. Trustee Beatty asked if the tide is high for each of the highlighted days (yes, anything over 6 feet is a "high tide" for the district). Trustee Jordan mentioned that he has checked actual tide levels compared to predicted levels and found they are understated/ not accounting for sea level rise. Trustee Beatty asked about *Culex tarsalis* and *quinquefasciatus* being the leading cause of WNV in the state, is *Culex erythrothorax* not a major contributor (no, as they are a "tule mosquito" and there are not many areas left in the state with tules nor humans living near them). Trustee Zlatnik mentioned that the definition of a species is one that cannot have viable offspring with another, so how do *Culex quinquefasciatus* and *Culex pipiens* have viable offspring (good question, they geographically overlap and look identical. The only way to tell the difference is with PCR).

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

Discussion: None.

11. Board President asks for announcements from members of the Board.

Discussion: Trustee Syrop mentioned that August 20th will be the Downtown Hayward Festival, and he hopes to see us there. Trustee Aguilar asked if we should increase the threshold spending limit for requiring Board approval (staff is not recommending an increase to the authorization limit as it leads to a transparent discussion about large purchases).

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

Discussion: The General Manager mentioned next month will be a presentation from Operations Director, Erick Gaona. There will be a CalPERS annual report review and ad-hoc committee formation for the Strategic Plan.

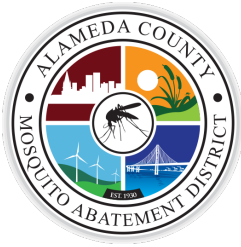
13. Adjournment at 6:12 pm.

Respectfully submitted,

Approved as written and/or corrected
at the 1151st meeting of the Board of
Trustees held September 9th, 2026

John Zlatnik, Secretary
BOARD OF TRUSTEES

Kashef Qaadri, President
BOARD OF TRUSTEES



23187 Connecticut Street
Hayward, CA 94545

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

acmad@mosquitoes.org

Appointment of an ad-hoc Strategic Planning Committee

Board of Trustees

President

Kashef Qaadri

Dublin

Vice-President

John Bauters

Emeryville

Secretary

John Zlatnik

Fremont

Don McCoon

County-at-Large

Nick Ksiazek

Alameda

Preston Jordan

Albany

P. Robert Beatty

Berkeley

George Syrop

Hayward

Maya Manoharan

Livermore

Eric Hentschke

Newark

Lisa Rasler

Oakland

Ted Kinch

Piedmont

Jeff Nibert

Pleasanton

Victor Aguilar

San Leandro

Subru Bhat

Union City

Ryan Clausnitzer

General Manager

Background:

Per District policy 109.8, *"There shall be an ad hoc Board Committee to update the District's strategic plan as needed. The Strategic Planning Committee members shall be appointed to serve through the duration of the specific duties defined below. The duties of the Strategic Planning Committee are:*

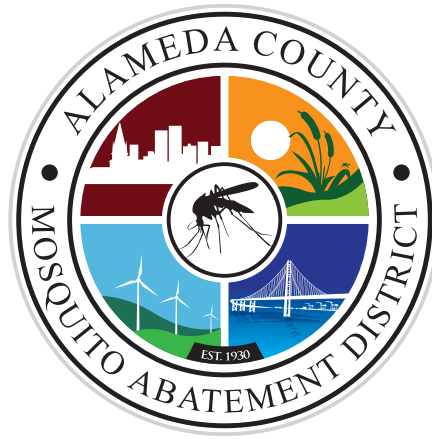
(a) To meet with the General Manager and/or staff to review the mission, vision, values, and goals of the District and make recommendations to the full Board at a special meeting prior to the December posted meeting.

(b) To select a Chair from among its members that will report to the full Board at a posted meeting.

Commitment:

The Strategic Planning Committee will meet either in-person or remotely with staff, as needed, between September and December to discuss proposed goals and changes to existing strategic plan contents: mission, vision, values, and environmental scan. These recommendations will then be presented to the full board at an in-person special meeting workshop on December 9th at 3:00 P.M.

ACTION: Select committee membership and chair

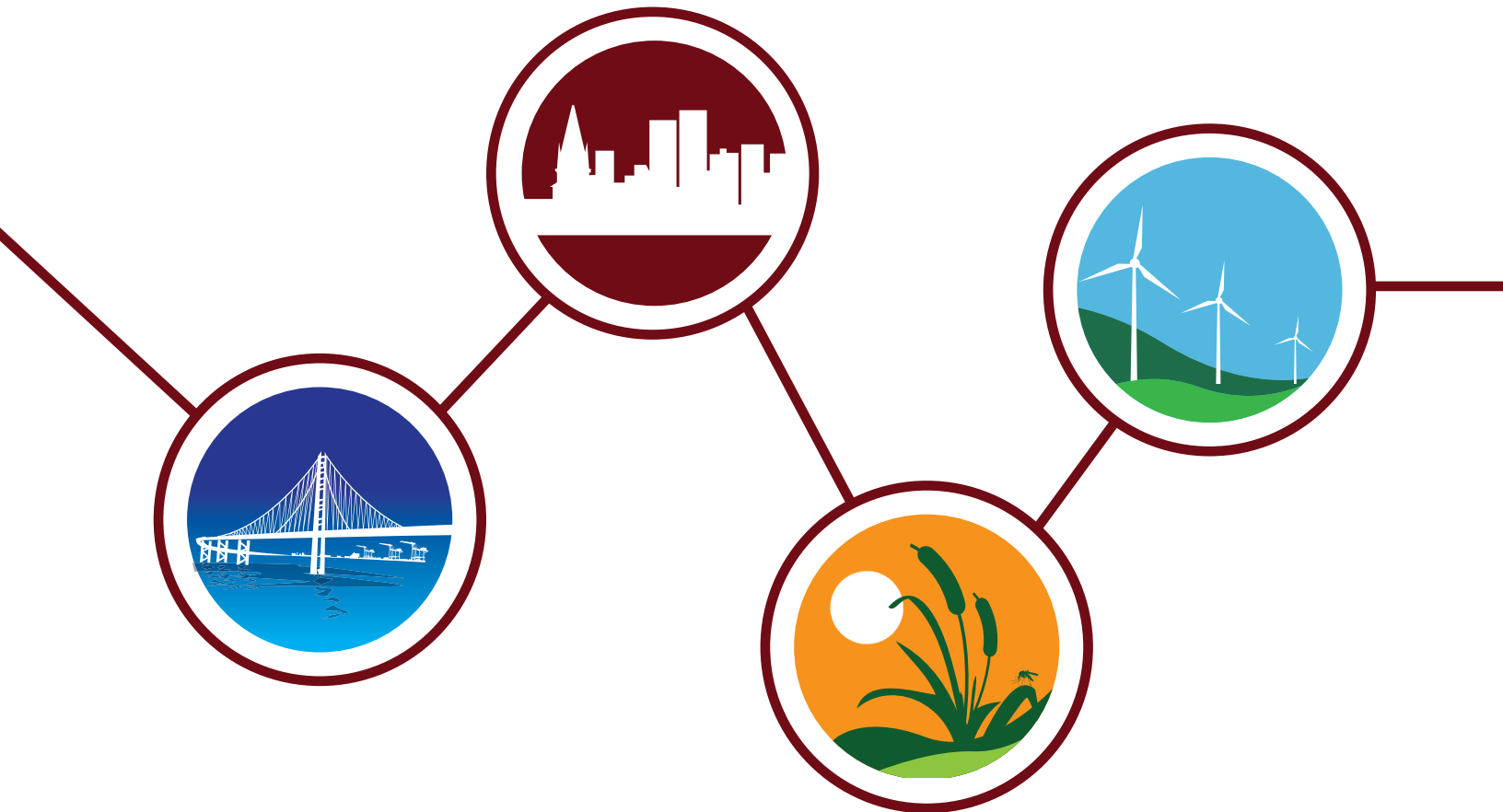


ALAMEDA COUNTY

MOSQUITO ABATEMENT DISTRICT

STRATEGIC PLAN

2024-2026





EMPLOYING A STRATEGIC ADVANTAGE

This third strategic plan in the Alameda County Mosquito Abatement District's (ACMAD) 93-year history prepares for known obstacles to our district's mission while striving to achieve our ambitious vision through its strategic priorities and associated projects. ACMAD elects to conduct this strategic planning process every three years so that our stakeholders—both internal and external— are aware of and can contribute to the direction of our actions. The district uses a 3-year cycle to ensure that our goals are achievable, measurable, and timely. The goals should anticipate challenges while providing a solid foundation with the flexibility to adjust.

Before introducing the 2024-2026 goals, it is necessary to review the status of the 2021-2023 Strategic Report with its three overarching goals:

- 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.

The district completed all seven projects listed under the first goal that prepared the district for invasive *Aedes* mosquitoes. These preparations include an internal parcel inspection plan for a door-to-door response, a Community Emergency Response Plan in coordination with the County's Emergency Managers Association, and a formal identification training process led by the district's laboratory. In year two, we began implementing

our school-age educational program while modeling the dispersal of our Wide Area Larvicide System in a marsh setting. By the final year of this report, field staff improved their ability to identify adult mosquitoes while lab staff submitted a research publication detailing a new rapid assay that identifies *Aedes* mosquitoes.

There were 25 projects under the broad category of leveraging assets towards efficient approaches. Of these projects, 20 were completed, 3 were dropped, and 2 were carried over to the next plan. The dropped projects focused on technology upgrades that were found to be unnecessary (e.g., replacing iPads and Virtual Desktops) and recoating the shop floor. The carried-over projects are related to the aquaculture facility which we had hoped to build in 2022; this goal has been delayed until 2024. The twenty completed projects include improvements to the credit card process, IT infrastructure, 3D printing capabilities, exterior painting, parking lot enhancements, Microsoft SharePoint sites, software and data storage, digitizing fleet processes, source reduction data, professional development, dashboards, reserve funding, and increased use of unmanned aircraft systems.

All fifteen of the district's projects in the strategic plan related to best practices were completed between 2021-2023. District staff improved the quality of the Comprehensive Annual Financial Report and annual budget, noticed improved methods in all Alameda County cemeteries, created new connections with community groups as well as state and local government officials, reclassified the Accounting Association position to a Financial & HR Specialist, determined when the district



will withdraw from the section 115 pension stabilization fund, began research on predictive modeling methods, developed new relationships within the educational community, improved salt marsh mosquito methods, and finally, implemented operational improvements recommended through a third party health equity research project.

The projects associated with each priority in this strategic plan begin from the broadest perspective (what improvements can we make for the environment?), to a community-based focus (how can we improve our external programs and relationships?), and end with an internal focus (how can we improve the way we operate?). This district-community-global systemic approach to mosquito control allows ACMAD to address the connection between our internal programs for mosquito controls, such as transitioning from fossil fuels, to increased tropical human diseases in Alameda County due to the climate crisis.

This strategic plan is a product of the collaboration between the ACMAD Board of Trustees and the ACMAD staff. With honest input from both parties a plan was devised to implement the Board's vision. Finally, thank you residents of Alameda County for trusting us to safeguard your health and comfort by controlling mosquitoes and limiting the transmission of mosquito-borne diseases.

Sincerely,
Trustee Valerie Arkin,
Trustee P. Robert Beatty,
Trustee Hope Salzer,
Trustee Jan O. Washburn, and
Trustee Subru Bhat, Committee Chair





OUR STRATEGY

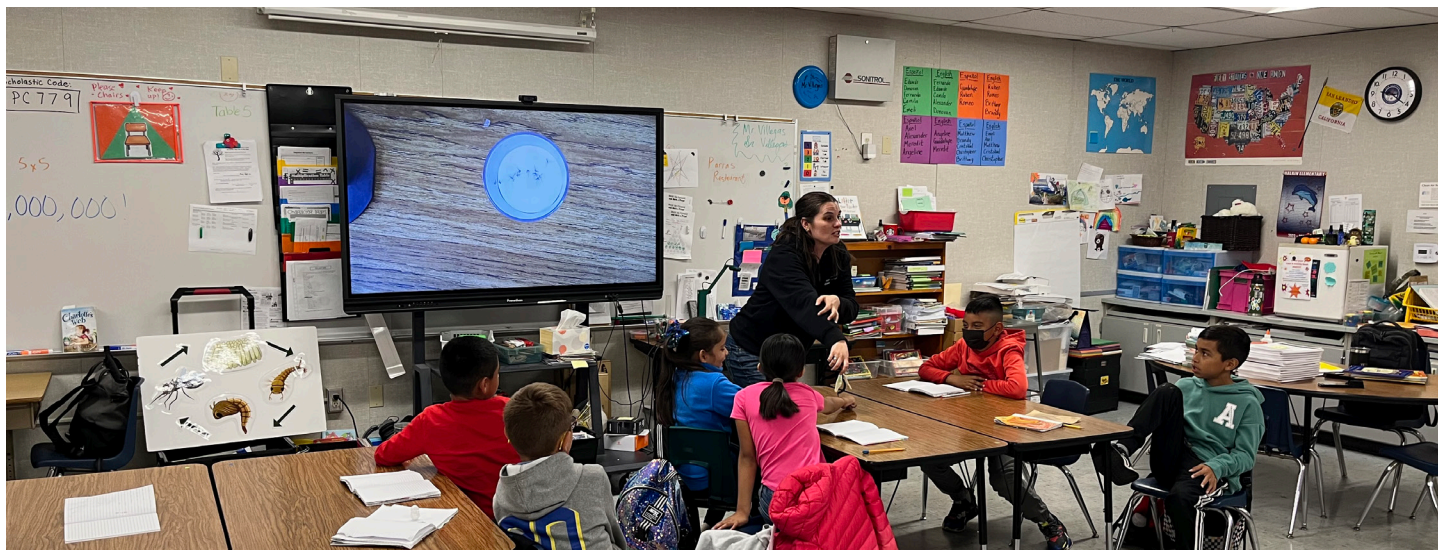
OUR MISSION

Alameda County Mosquito Abatement District is committed to improving the health and comfort of Alameda County residents by controlling mosquitoes and limiting the transmission of mosquito-borne diseases.

OUR VISION

To serve all residents of Alameda County in a transparent and equitable manner by providing knowledge-driven and environmentally-conscious mosquito control. We strive to provide an exemplary model of good government through fiscal transparency, accountability, and community outreach.





OUR CORE VALUES

ENVIRONMENTAL STEWARDSHIP

- Ecologically responsible
- Proactive in environmental legislation
- Responsive to environmental changes
- Emphasis on biorational treatments for mosquito control

KNOWLEDGEABLE

- Science-based decision making
- Data-driven
- Technology enabled
- Safety program adherent

PROFESSIONAL

- Honest
- Reliable
- Respectful
- Responsive
- Committed
- Inclusionary
- Accountable

ENVIRONMENTAL SCAN

An Environmental Scan is a self-assessment process that allows organizations to identify their internal and external strengths, weaknesses, and foreseeable changes that may impact service delivery.

STRENGTHS

- Data sharing and integration of laboratory and operations
- Larval-based control program
- Financial stability and accountability
- Timely responses to public request for service
- Public accessibility to staff and District information
- Culture of independence that fosters effective collaboration
- Innovative methods to monitor mosquito abundance

WEAKNESSES

- Limited mosquito control products
- Limited ability to increase scale of operations in short amount of time
- Low diversity of revenue sources

FORESEEABLE CHANGES THAT MAY IMPACT SERVICE DELIVERY

- Climate change
- Insecticide resistance
- Changes in regulations
- Human population growth
- Introduction of invasive mosquito species
- Emerging mosquito borne infectious diseases
- Natural disasters

ACMAD 2024-2026 STRATEGIC PRIORITIES

Proactively mitigate and adapt to climate change impacts on ACMAD by reducing carbon emissions, planning for climate extremes, and coordinating with stakeholders.

2024

- Transition three treatment sites from ground-based equipment to Unmanned Aircraft Systems (UAS) for larval mosquito control applications in environmentally sensitive areas.
- Transition from purchasing mosquito fish from a 3rd party supplier to rearing at least 50% in-house.
- Deliver a report to the Board of Trustees on future self-sustainable energy requirements and budget for service upgrades.
- Evaluate the environmental impact of mosquito control products and equipment that are not included in our Programmatic Environmental Impact Report.

2025

- Purchase fully electric alternatives, if available, to gasoline-powered equipment (ATV, blowers, vehicles, boat), when replacement is needed.
- Geolocate malaria mosquito habitats in the county and update the response plan for travel-related cases of tropical diseases that are reported by public health departments.
- Engage with U.S. Fish and Wildlife Service to understand the limitations on the use of Unmanned Aircraft Systems on the properties they manage.
- Ensure projects that will help the shoreline be more resilient to climate change impacts include in the design and monitoring plan language that addresses the risks of mosquito production.

2026

- Report to the General Manager a cost-benefit analysis of purchasing an electric forklift rather than rely upon oversized lift-gate trucks to receive large product deliveries.
- Transition from ground-based larvicide applications to UAS on U.S. Fish and Wildlife Service properties.
- Leverage our mosquito control expertise to aid rural African communities facing malaria challenges, thereby fostering global disease vector management practices that can inform and enhance climate adaptation strategies in Alameda County.

Broaden our presence and depth of service to the community by supporting field staff efficiency and leveraging outreach.

2024

- Contract with a provider to acquire aerial imagery for the unmaintained swimming pool program.
- Ensure that at least 80% of the initial unmaintained swimming pool communications are made by office staff so that field staff efforts are preserved for mosquito control.
- Quantify the number of requests for service from the community that are resolved through educational outreach by office staff.
- Hire a new full-time invasive *Aedes* field outreach position that also participates in operations and laboratory duties.
- Identify and translate key documents into several of the primary languages spoken within Alameda County.

2025

- Implement an outreach strategy for members of the county that may be most affected by mosquito populations and diseases.
- Establish new agency partnerships that should be leveraged to amplify our mission of mosquito control.
- Develop a digital resource that enables the public and staff to identify mosquitoes and other insects that are common in the county.
- Provide Trustees with quarterly reports on mosquito control issues or updates that they bring to city council or supervisorial meetings.
- Solicit quarterly reports from Trustees on land-use decisions that may affect mosquito production.

2026

- Ensure that at least half of our new agency partners have deployed community messages that amplify our mosquito control mission.
- Quantify differences in water and soil composition in pickleweed habitats that are used or avoided by *Aedes dorsalis*, and report outcomes in scientific publication and conference presentation.
- Develop a collaborative mosquito control strategy with Lawrence Livermore National Laboratory or other similarly restricted sites.

Ensure that we provide residents and visitors to Alameda County with effective, inclusive, and efficient mosquito control.

2024

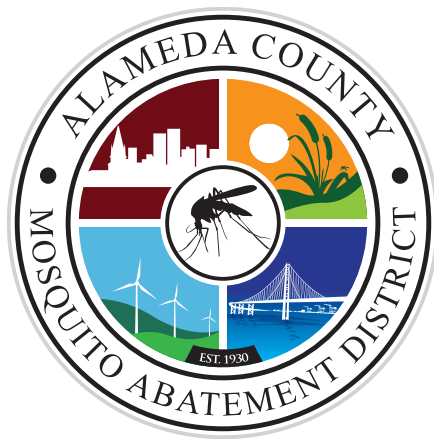
- Update the district holiday schedule to align with federal and state holidays that reflect our communities' values.
- Revise the seasonal employee job description and recruitment strategy to ensure a fully staffed district.
- Increase workplace professionalism by transitioning permanent employees out of hourly clock requirements.
- Deploy the new Mapvision 3.0 geospatial data management system with a revised catch basin mapping system and new capabilities that are requested by staff and management.
- Improve cybersecurity practices by ensuring that data and systems are secure through annual vulnerability assessments, penetration testing, and automatic patching of district IT equipment.

2025

- Automate and review staff certifications and training requirements quarterly.
- Develop a written executive management commitment that documents the Districts dedication to diversity, equity and inclusion.
- Evaluate use of a larger granular pesticide spreader for land-based treatments.

2026

- Create succession plans for support staff positions.
- Assess the alignment of immature mosquitoes with adult mosquito abundance data.
- Evaluate and implement automation opportunities for routine tasks such as green pool identification, insect identification, and fleet management.



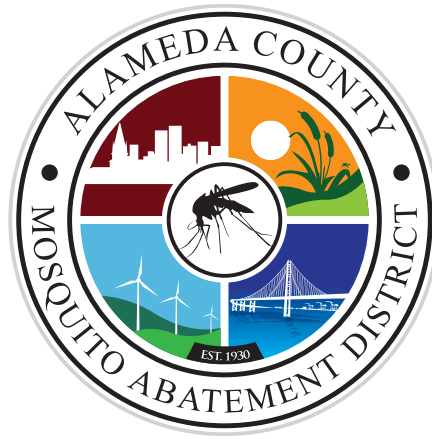
510-783-7744

 www.mosquitoes.org

 **Alameda County Mosquito Abatement District**

 **@AlamedaMosquito**

www.mosquitoes.org

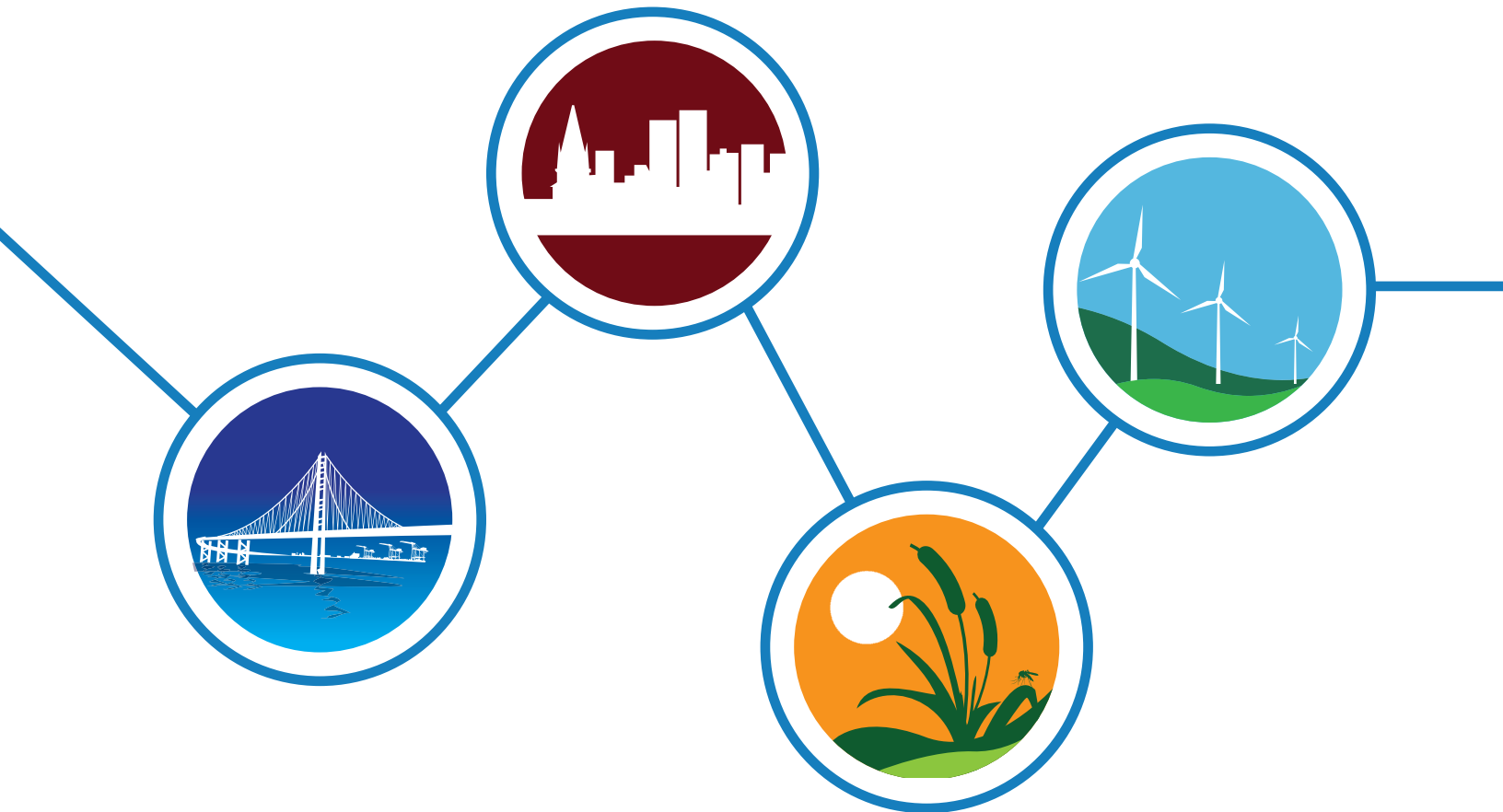


ALAMEDA COUNTY

MOSQUITO ABATEMENT DISTRICT

STRATEGIC PLAN

2021-2023



INTRODUCTION

As we look to the future and develop our strategic plan, Alameda County Mosquito Abatement District (ACMAD) is setting goals that will help us maintain the same level of excellence you've come to expect from us. We plan to utilize our existing assets and resources to address future challenges, both known and unforeseen. We aim to align individual performance goals with a comprehensive District strategy that is effective and efficient. In order to realize these goals, we will improve our internal and external communication. Finally, we will formalize performance and accountability measures by documenting improvements to the District's operating procedures.

ACMAD has a proud history of effective and efficient mosquito control through its prudent financial planning, collaborative decision-making, and balanced integration with partner agencies. With our 100-year anniversary of public service approaching in the next decade, it is important for ACMAD to reaffirm its strong relationship with our community. We plan to accomplish this through thoughtful planning that leads to effective allocations of public funds. Through the leadership of the Board of Trustees, District staff will continue to provide high-quality and valuable service to the people of Alameda County, even through unforeseen public health crises like the current global pandemic.



HISTORY OF STRATEGIC THINKING

Prior to the formation of organized control districts, mosquitoes hampered economic development within the Bay Area. During late 1928 and through the early months of 1929, the city councils of Alameda, Berkeley, Emeryville, Hayward, Oakland, Piedmont, and San Leandro passed a resolution endorsing the formation of the Alameda County Mosquito Abatement District (ACMAD). ACMAD was officially formed when the Board of Supervisors passed Ordinance B on March 11th, 1930; three days later, the California Secretary of State filed the certificate of incorporation, thereby formalizing formation of the District.

Initially, ACMAD focused its efforts on ditching in marshes along the San Francisco Bay to promote circulation of water in habitats where salt marsh mosquitoes breed. As residential populations and their use of water changed, freshwater mosquitoes became more prevalent and ACMAD expanded its efforts to counter the rise in their abundance. To fulfill the demands for mosquito control throughout the County, more personnel and equipment were needed to accommodate the increase in services. ACMAD funding from *ad valorem* property taxes was stable until Proposition 13 passed in 1978; after the passage of Prop 13, the District's funding was reduced by half. To provide adequate service to residents, Alameda County's Measure K was introduced in 1982 and approved by over two thirds of Alameda County voters. This allowed for a maximum assessment of \$1.75 per single home as a Special Tax to support the District's operations. Funds generated by this tax enabled the District in 1984 to consolidate its operations from three existing depots in Oakland, Pleasanton, and Union City into a single modern facility in Hayward in 1984.

Mosquito management changed dramatically when West Nile virus was introduced via wild birds into Alameda County during 2003. To control the mosquitoes that transmit the virus, ACMAD increased operation costs by \$280,000 a year. These funds supported additional seasonal staff, pesticides, equipment, and public outreach education programs. Adjusting to the newly introduced threat, ACMAD's Board of Trustees reviewed approaches to augment the District's revenue stream to meet the new needs for mosquito surveillance and control. Property owners approved levying a benefit assessment in the spring of 2008 for this purpose.

On May 14th, 2008, the ACMAD Board of Trustees formally passed the resolution approving the benefit assessment to increase the District's revenue. This allowed the District to provide enhanced services to the residents of Alameda County and to prepare the District for future public health threats caused by mosquitoes. Through sound fiscal policies, the District has not needed to increase the benefit assessment in over twelve years. In 2019, ACMAD expanded its boundary to include Albany, the last remaining city in the county to receive District mosquito control services.

Even though there have been many changes over the past 90 years, including mosquito control techniques and regulations, the dedication and effectiveness of the District have remained the same. ACMAD will continue to provide timely, reliable, professional, and effective service during the current global pandemic and impending introduction of invasive *Aedes* mosquitoes into Alameda County.



OUR STRATEGY

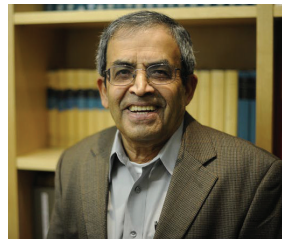
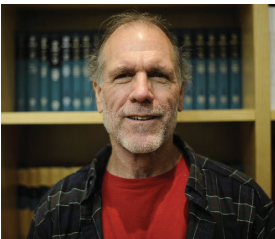
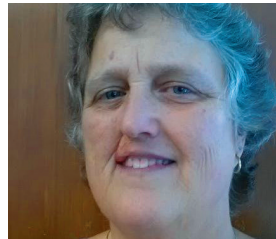
OUR MISSION

Alameda County Mosquito Abatement District is committed to improving the health and comfort of Alameda County residents by controlling mosquitoes and limiting the transmission of mosquito-borne diseases.

OUR VISION

To serve all residents of Alameda County in a transparent and equitable manner by providing knowledge-driven and environmentally-conscious mosquito control. We strive to provide an exemplary model of good government through fiscal transparency and accountability.

OUR BOARD





OUR CORE VALUES

ENVIRONMENTAL STEWARDSHIP

- Ecologically responsible
- Proactive in environmental legislation
- Responsive to environmental changes
- Emphasis on biorational treatments for mosquito control

KNOWLEDGEABLE

- Science-based decision making
- Data-driven
- Technology enabled
- Safety program adherent

PROFESSIONAL

- Honest
- Reliable
- Respectful
- Responsive
- Committed
- Inclusionary
- Accountable

ENVIRONMENTAL SCAN

An Environmental Scan is a self-assessment process that allows organizations to identify their internal and external strengths, weaknesses, and foreseeable changes that may impact service delivery.

STRENGTHS

- Data sharing and integration of laboratory and operations
- Larval-based control program
- Financial stability and accountability
- Timely responses to public request for service
- Public accessibility to staff and District information
- Culture of independence that fosters effective collaboration
- Innovative methods to monitor mosquito abundance

WEAKNESSES

- Limited mosquito control products
- Limited ability to increase scale of operations in short amount of time
- Low diversity of revenue sources

FORESEEABLE CHANGES THAT MAY IMPACT SERVICE DELIVERY

- Climate change
- Insecticide resistance
- Changes in regulations
- Human population growth
- Introduction of invasive mosquito species
- Emerging mosquito borne infectious diseases
- Natural disasters

ACMAD GOALS: 2021-2023



Photo by James Gathany



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

2021

- Deploy a property Parcel Inspection Plan to monitor response efforts
- Create a Community Emergency Response Team forum from county affiliates to engage them in our Invasive *Aedes* Response Plan
- Ensure all field staff can accurately identify invasive *Aedes* mosquitoes

2022

- Provide school age children with mosquito prevention messaging
- Develop a model for pesticide deposition by Wide Area Larvicide System mosquito treatment technique

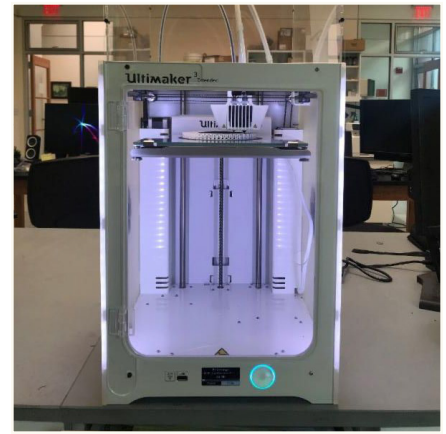
2023

- Improve adult mosquito identification processes
- Develop a simple and rapid assay that discriminates *Aedes* species mosquitoes

LEVERAGE ACMAD ASSETS TOWARDS EFFICIENT APPROACHES TO MOSQUITO CONTROL

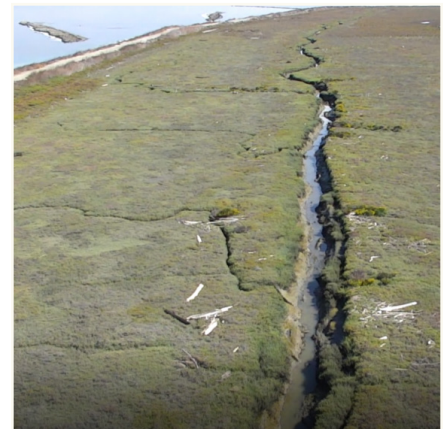
2021

- Improve the credit card process to incorporate updated technology that includes time-saving methods for employees and increased review options by management
- Replace tech room computers with Virtual Desktop Interface or chrome-based devices
- Begin 3-year infrastructure upgrade of network, routers, cable, switches, and firewall
- Improve 3D-printed Encephalitis Virus Survey mosquito traps
- Obtain quotes and coordinate the recoating of the covered parking structures, pesticide shed, vehicle wash rack, and shop exterior
- Obtain quotes and coordinate the recoating of the shop floor
- Reconfigure parking lines with updated spaces



2022

- Rebuild Microsoft SharePoint sites to include Business Intelligence analytics
- Assess District phone contract
- Perform full human resources software audit
- Research and deploy cloud storage and software for research projects
- Digitize fleet and facility preventive maintenance processes
- Improve the physical facilities of the aquaculture program
- Locate cryptic drainage ditches for mosquito source reduction projects
- Update mosquito source reduction project maps
- Allocate time for research projects and professional development
- Evaluate adding a catch basin hotspot layer in the MapVision database and improve color-coding
- Develop a dashboard to analyze field staff workloads and display financial information



2023

- Make progress in funding the Repair and Replace account along with other reserve categories
- Assess alarm contract
- Research new technology to replace Apple iPads
- Fully automate drone information capture methods
- Improve production in the aquaculture program
- Repair or replace the front gate
- Increase the number of fully certified drone pilots and deploy more mosquito inspection and treatment missions





EMPLOY THE BEST PRACTICES FOR MOSQUITO CONTROL DISTRICTS AND LOCAL GOVERNMENTS

2021

- Improve financial visuals and projections to accompany the annual Comprehensive Annual Financial Report
- Research and improve mosquito source reduction efforts and treatments in cemeteries
- Create new partnerships with organizations within Alameda County that have established community connections
- Connect with city code enforcement departments regarding our aerial pool surveillance program to ensure consistent messaging to property owners
- Establish relationships with new state, county, and local elected officials
- Build relationships with Homeowners Associations near marsh communities

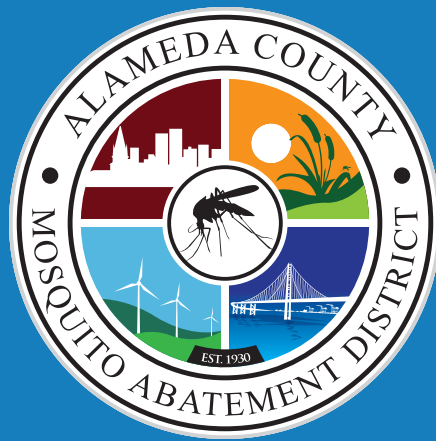
2022

- Convert annual budgets to multi-year with formatting changes that improve readability
- Evaluate Accounting Associate job description and duties
- Evaluate public perception of District services

2023

- Analyze future liabilities to determine when the District should withdraw from section 115 fund
- Begin work on predictive mosquito control modeling methods
- Establish mosquito control as a stakeholder in Alameda County development
- Develop new relationships with schools (principals, teachers, PTAs, etc.)
- Hone outreach efforts to incorporate an equity lens into community outreach
- Improve approaches for trapping *Aedes dorsalis* mosquitoes





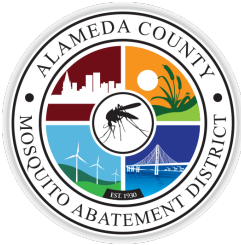
510-783-7744

 www.mosquitoes.org

 [Alameda County Mosquito Abatement District](https://www.facebook.com/AlamedaCountyMosquitoAbatementDistrict)

 [@AlamedaMosquito](https://twitter.com/AlamedaMosquito)

www.mosquitoes.org



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Reclassification of Mechanical Specialist to Fleet & Facilities Director

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General Manager

Summary:

As part of the district's Strategic Plan, succession planning remains a priority to ensure organizational continuity and address future staffing needs. The proposed reclassification of the Mechanical Specialist position to Fleet & Facilities Director is an important step in that effort. The reclassification will better align the position's responsibilities and authority with the District's current operations while positioning the organization to effectively meet its future operational needs.

Details:

In 2024, the District began transitioning its vehicle fleet to leased vehicles and outsourcing major vehicle repairs and maintenance. The District will also transition Argo vehicle repairs and maintenance to an outside vendor. As a result, the position's role has evolved from performing traditional mechanical work to coordinating vendor services and overseeing the District's fleet, facilities, and equipment. The position is also responsible for facility maintenance and upgrades, capital asset projects, and coordination of the District's Injury and Illness Prevention Program (IIPP), including coordination with state and regional emergency services and risk management.

A primary responsibility of the position is also the management of the District's aquaculture program, which supports mosquito control operations through the production and care of mosquitofish. These responsibilities extend well beyond those traditionally associated with a mechanical position and demonstrate the broader operational and administrative role the position now serves.

Reclassifying the position to Fleet & Facilities Director more accurately reflects the District's evolving operational needs and the scope of the position's responsibilities. As part of the reclassification, the position will transition from non-exempt to exempt status under the administrative exemption, reflecting the shift from primarily performing mechanical work to managing the District's fleet, facilities, equipment, projects, vendor services, and safety programs. The reclassification also supports the District's succession planning goals by providing greater organizational continuity and clearly defining the position's long-term responsibilities and authority.

Financial Impact:

The financial impact of the proposed reclassification is \$10,522.69 for FY 2026/27.

Recommendation:

Staff recommends that the Board approve the reclassification of the Mechanical Specialist position to Fleet & Facilities Director, including the corresponding salary schedule and updated exempt job classification, effective October 1, 2026.

Attachments:

- Fleet & Facilities Director Job Description
- Salary Comparison

Fleet & Facilities Director

DEFINITION

Under the direction of the General Manager, the Fleet & Facilities Director oversees and coordinates the maintenance and repair of District fleet, facilities, and equipment and performs limited maintenance as needed. The position is also responsible for the District's aquaculture program, including water quality, fish rearing, and overall production, and administers and coordinates the District's safety program.

DISTINGUISHING CHARACTERISTICS

This classification is distinguished from the General Manager classification at the District as the later possesses specialized responsibilities conducting and executing various aspects to manage and supervise personnel of the District.

SUPERVISION RECEIVED AND EXERCISED

Receives direct supervision by the General Manager. Responsibilities may include only technical supervising of staff assigned to their work.

Accountability

The employee is accountable to the General Manager to ensure that all equipment, vehicle, and mechanical functions are carried out in accordance with District policies, California Health and Safety Code Standards, and Federal laws. Assignments may be specific or general with only desired results being specified. Recommendations on improvements to Division activities are expected.

The employee is responsible for complying with all District safety requirements and practices. Additionally, the employee is responsible for ensuring that any direct reports also comply with all District safety requirements and practices.

EXAMPLES OF IMPORTANT AND ESSENTIAL DUTIES

- Plans and oversees preventive maintenance schedules for District facilities, equipment, and vehicles;
- Coordinates repairs and maintenance of District facilities, vehicles, and equipment, including Argo vehicles and services provided by outside vendors
- Responsible for the aquaculture program; including water quality, fish rearing, and overall production in anticipation of Service Request demands.
- Responsible for the District Injury Illness Prevention Program (IIPP); administers the program and ensures employees are properly trained in applicable safety procedures and programs;
- Develops and coordinates training and procedures for the proper use and care of shop equipment, spray equipment, and driver safety;
- Oversees the selection, purchase, and proper use of District safety equipment;

- Conducts and coordinates safety inspections of District facility including shop, office, equipment, vehicles, and grounds;
- Administers and maintains District safety records in compliance with CAL OSHA standards;
- Administers and coordinates the District's Emergency Management Agreement and related emergency preparedness activities.
- Responsible for purchasing, record keeping, and preparation of proposals for the purchase of District equipment, tools, spray equipment, vehicles, and supplies for equipment and facilities maintenance; (janitorial services, landscaping, HVAC, hazardous waste).
- Serves as primary contact and reporting party for California Environmental Reporting System (CERS) & Certified Unified Program Agency (CUPA).
- Contracts with outside agencies for disposal of District equipment;
- Scheduling shop projects, including routine maintenance, repairs, and upgrades for equipment, vehicles, and facilities, consistent with the District's capital replacement plan.
- Plans and manages facility maintenance, upgrades, and capital asset projects, including ensuring compliance with prevailing wage and Department of Industrial Relations (DIR) requirements;
- Responsible for contract and weekly uniform services as well as additional clothing and personal supplies – work boots, muck boots, hip boots, jackets, and misc. gear;
- Occasionally reports to the Board of Trustees on major projects, capital replacement reports.
- Assists and supports field technicians, office staff, and General Manager;
- Accomplishes field work and facility and equipment maintenance as needed;
- Performs, occasionally, other tasks or functions not stated in this description, but within the scope of experience and capability; and
- Performs related work as required.

EMPLOYMENT STANDARDS

Knowledge

- Tools, techniques, equipment, and procedures used in the overhaul, repair, and adjustment of automotive and related power-driven equipment;
- Occupational hazards and safety practices and procedures related to the work;
- Techniques for dealing with the public, District staff, and others in an effective manner; and
- General maintenance and repairs.

Skills

- Using a variety of tools and equipment;
- Driving a variety of vehicles safely;
- Communicating effectively in English both orally and in writing; and
- Understanding, interpreting, and applying complex guidelines.

Abilities

- Inspect automotive and related power-driven equipment to locate difficulties and estimate the cost and time of repairs;
- Perform minor and major mechanical repair on District owned mechanical equipment;
- Maintain a variety of shop and repair records;
- Understand and carry out oral and written directions;
- Acquire a general knowledge of District policies and procedures related to shop

operations;

- Communicate effectively in writing, orally, and with others to assimilate, understand, and convey information, in a manner consistent with job functions;
- Use initiative and independent judgment within established policy and procedural guidelines;
- Represent the District effectively in contact with representatives of other agencies and the public;
- Establish and maintain cooperative relationships with those contacted in the course of the work;
- Take a proactive approach to customer service issues;
- Make process improvement changes to streamline procedures;
- Organize own work, set priorities, meet critical deadlines, and follow-up on assignments with a minimum of direction;
- Work in a safe manner, following District safety practices and procedures;
- Repair, research, design, and operating equipment;
- Plan, estimate, and lay out construction projects according to local codes and state labor laws;
- Operate common machine tools;
- Perform light welding;
- Keep records on vehicles and equipment;
- Read, understand, interpret, evaluate, and apply laws, policies, rules, contracts, guidelines, and literature of the profession;
- Establish and maintain effective working relationships with those contacted in the course of work; and
- Communicate with the public in a tactful, courteous, and professional manner.
- Understand the fundamentals of Aquaculture and rearing *Gambusia affinis*

JOB RELATED AND ESSENTIAL QUALIFICATIONS

Education/Training and Experience Guidelines

Any combination equivalent to experience and training that would likely provide the required knowledge and abilities would be qualifying. A typical way to obtain the knowledge and abilities would be:

Experience

Five (5) years of journey-level work experience in the maintenance and repair of automotive and other power-driven equipment and pumping systems.

Project management skills and/or certifications.

Education/Training

Equivalent to graduation from High School.

License or Certificate

A valid California Driver's license issued by the State Department of Motor Vehicles and must be insurable under the guidelines set forth by the District's insurance carrier.

Possession of or ability to obtain and maintain the following certifications from the California Department of Public Health within one year of employment:

- Mosquito Control Technician Certificate
- Vertebrate Vector Certificate
- Invertebrate Certificate

WORKING CONDITIONS/PHYSICAL REQUIREMENTS

Essentially the employee's working hours are spent in office areas and field setting; exposure to cold, heat, noise, outdoors, inclement weather, dust, dirt, vibration, chemicals, traffic, traffic hazards, confining workspace, odors, mechanical hazards, electrical hazards, explosive hazards, etc.

Incumbent must be sighted in both eyes with the ability to demonstrate depth perception and color perception; have a minimum of single-ear aided hearing; be without physical limitations that would prevent climbing ladders and performing customary and usual activities associated with work in a repair shop. While performing the duties of this job, the employee is regularly exposed to moving mechanical parts, fumes, or airborne particles and toxic or caustic chemicals.

The employee is frequently exposed to risk of electrical shock and vibration. The employee is occasionally exposed to wet and/or humid conditions, high, precarious places, and outside weather conditions. The noise level in the work environment is usually loud.

Working Conditions

- Medium Work – Incumbent performs work in a shop and field setting, which involves frequent lifting, pushing and/or pulling of objects of approximately 75 pounds. Heavier lifting is an infrequent aspect of this position.
- Mobility – Incumbent must have complete and normal mobility of arms to reach and dexterity of hands to grasp and manipulate small objects; be able to stand, stoop, reach and bend, and to walk on uneven terrain, such as field, dirt banks, natural and cement stream beds, and shallow ponds as needed.
- Other Conditions – Incumbent may be exposed to and handle toxic and hazardous substances; be available on call for evening and weekend emergencies, as assigned; travel within and out of the county; work, when necessary, in inclement weather including sun, cold, and rain.

Adopted Date: September 9, 2026

Revised: September 9, 2026

Retitled: September 9, 2026

FLSA Designation: Exempt Unit:

ACMAD Employee Association

ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT

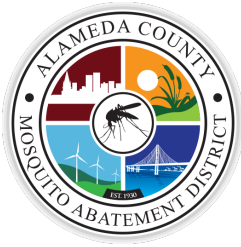
Fleet & Facilities Director

	Agency	Class Title	Max Monthly Salary	Salary Effective Date
0	Alameda County MAD	Fleet & Facilities Director	\$12,348	26/27
1	Contra Costa MVCD	Operations Manager/ Operations Supervisor	\$13,963	26/27
2	Marin-Sonoma MVCD	NCC		26/27
3	Napa MVCD	NCC	-	26/27
4	San Mateo MVCD	Vector Control Technician/Mechanic	\$12,813	26/27
		Number of Matches		
		Median of Comparators	\$13,388	
		% Above/Below	-7.77%	
		Average Percentile of Comparators	\$13,388	
		% Above/Below	-7.77%	

NCC - No Comparable Classification

Classification Notes

Contra Costa MVCD	Similar job duties to the Operations Manager (\$15,145.13) and Operations Supervisor (12,780.05), including oversight of facilities, equipment, maintenance, vendors, safety, and administrative functions. Neither position is responsible for the aquaculture program. The average monthly salary of the two positions is \$13,963.
Marin-Sonoma MVCD	NCC
Napa MVCD	NCC
San Mateo MVCD	SMCMVCD - Has a total of (3) positions that cover the same responsibilities; Facility Maint Specialist (part time), Operations Director, and Vector Control Tech/Mechanic. Duties better align with VCT/Mech, although none of these positions are responsible for the aquaculture program.



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Staff Report on CalPERS Actuarial Valuation – June 30, 2025

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Pleasanton

Victor Aguilar

San Leandro

Subru Bhat

Union City

Ryan Clausnitzer

General Manager

Summary:

The 2025 Annual Valuation Report presents demographic data and financial information through June 30, 2025, and establishes the required employer and member contribution rates for FY 2027-28. CalPERS announced a preliminary net return of 14.8% on its investments, and the June 30, 2026, Annual Valuation Report (available August 2027) will reflect this result.

Highlights of 2025 Valuation Results (report page listed):

Employer Contribution Rates (Page 8):

- Classic members: increase from 13.36% to 13.94%
- PEPRAs members: increase from 8.24% to 8.39%

Unfunded Accrued Liability (UAL) Contributions (Page 8):

- Employer UAL contributions for the Classic and PEPRAs plans increase by a combined \$25,181 in FY 2027-28 compared to FY 2026-27.

Member Contribution Rates (Page 9):

- Classic members: fixed at 7%
- PEPRAs members: remain at 8.25%

Plan's Funded Status as of June 30, 2025 (Page 11):

- Increased by 4.5 percentage points to 77.1% (this funded status does not reflect the District's Pension Stabilization Fund).

Additional Highlights:

- Page 13: Six-year projection of employer contribution rates.
- Page 21: Discount rate sensitivity based on investment return scenarios.
- Pages 29-30: District participant data and benefit options.

Attachments:

- Annual Valuation Report – Classic and PEPRAs plans.



California Public Employees' Retirement System

Actuarial Office

400 Q Street, Sacramento, CA 95811 | Phone: (916) 795-3000 | Fax: (916) 795-2744

888 CalPERS (or 888-225-7377) | TTY: (877) 249-7442 | www.calpers.ca.gov

July 2026

All Rate Plans of the Alameda County Mosquito Abatement District in the Miscellaneous Risk Pool (CalPERS ID: 5854416969)

Annual Valuation Report as of June 30, 2025

Dear Employer,

Attached to this letter is Section 1 of the June 30, 2025, actuarial valuation report for the plan noted above. **Provided in this report is the determination of the minimum required employer contributions for fiscal year (FY) 2027-28.** In addition, the report contains important information regarding the current financial status of the plan as well as projections and risk measures to aid in planning for the future.

Because this plan is in a risk pool, the following valuation report has been separated into two sections:

- Section 1 contains specific information for the following rate plan(s) including the development of the current and projected employer contributions.
 - 111, Miscellaneous Plan
 - 26060, PEPRA Miscellaneous Plan
- Section 2 contains the Miscellaneous Risk Pool information as of June 30, 2025.

Section 2 can be found on the CalPERS website in the [Forms & Publications](#) section. Search for "Risk Pool" and from the results list download the Miscellaneous Risk Pool Actuarial Valuation Report for June 30, 2025.

Required Contributions

The table below shows the minimum required employer contributions and member contribution rates for FY 2027-28 along with an estimate of the required employer Unfunded Accrued Liability (UAL) contribution for FY 2028-29. **The required employer and member contributions in this report do not reflect any cost sharing arrangement between the agency and the employees.**

Fiscal Year	Rate Plan	Employer Normal Cost Rate	Member Contribution Rate	Fiscal Year	Employer Amortization of Unfunded Accrued Liability
2027-28	111	13.94%	7.00%	2027-28	\$501,822
	26060	8.39%	8.25%		
					<i>Projected (Estimated)</i>
				2028-29	\$535,000

The actual investment return for FY 2025-26 was not known at the time this report was prepared. The projected UAL payment above assumes the investment return for that year would be 6.8%. To the extent the actual investment return for FY 2025-26 differs from 6.8%, the actual UAL contribution requirement for FY 2028-29 will differ from that shown above. For additional information on future contribution requirements, please refer to [Projected Employer Contributions](#). This section also contains projected required contributions through FY 2032-33.

Changes from Previous Year's Valuations

On November 19, 2025, the CalPERS Board of Administration (board) adopted new actuarial assumptions based on the recommendations in the *November 2025 CalPERS Experience Study and Review of Actuarial Assumptions*. This study reviewed the retirement rates, termination rates, mortality rates, rates of salary increase, the inflation assumption, and various other assumptions for public agencies. These new assumptions are incorporated in this actuarial valuation and impact the required contributions for FY 2027-28.

In addition, the board adopted changes to the CalPERS Total Fund Investment Policy, which provides the framework for the management of CalPERS assets. The board adopted a discount rate of 6.80%, which is unchanged from the prior year's valuation, and an increase in the price inflation assumption from 2.30% to 2.50% per year.

Besides the above-noted changes, there may also be changes specific to the plan such as contract amendments and funding changes such as additional discretionary payments and amortization schedule fresh starts.

A consolidated plan identifier has been added to the cover page of the report. As a result of the combination of some or all of the employer's rate plans in the Miscellaneous Risk Pool effective with the prior year's valuation, there is now one consolidated UAL value and actuarial valuation report for the group of component rate plans. This single identifier, set equal to the identifier of the component rate plan to which the UAL is attached, is intended to make it easier to identify a specific group of rate plans, the associated UAL, and the actuarial report.

PEPRA Member Contribution Rate

The employee contribution rate for PEPRA members can change based on the results of the actuarial valuation. See [Member Contribution Rates](#) for more information.

Report Navigation Features

The valuation report has a number of features to ease navigation and allow the reader to find specific information more quickly. The tables of contents are "clickable." This is true for the main table of contents that follows the title page and the intermediate tables of contents at the beginning of sections. The Adobe navigation pane on the left can also be used to skip to specific exhibits.

There are a number of links throughout the document in blue text. Links that are internal to the document are not underlined, while underlined links will take you to the CalPERS website. Examples are shown below.

Internal Bookmarks

[Required Employer Contributions](#)
[Member Contribution Rates](#)
[Summary of Key Valuation Results](#)
[Funded Status – Funding Policy Basis](#)
[Projected Employer Contributions](#)

CalPERS Website Links

[Required Employer Contribution Search Tool](#)
[Public Agency PEPRA Member Contribution Rates](#)
[Pension Outlook Overview](#)
[Interactive Summary of Public Agency Valuation Results](#)
[Public Agency Actuarial Valuation Reports](#)

Questions

A CalPERS actuary is available to answer questions about this report. Other questions may be directed to the Customer Contact Center at **888 CalPERS** (or **888-225-7377**).

Sincerely,



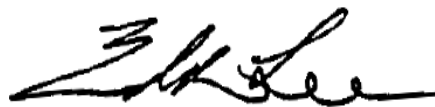
Randall Dziubek, ASA, MAAA
Deputy Chief Actuary, Valuation Services, CalPERS



Fritzie Dorais, ASA, MAAA
Deputy Chief Actuary, Special Programs, CalPERS



Scott Terando, ASA, EA, MAAA, FCA, CFA
Chief Actuary, CalPERS



Eddie W. Lee, ASA, EA, FCA, MAAA
Senior Actuary, CalPERS

California Public Employees' Retirement System

Actuarial Valuation for the
Rate Plans of the Alameda County
Mosquito Abatement District in the
Miscellaneous Risk Pool
as of June 30, 2025

Consolidated Plan ID: 26060

(CalPERS ID: 5854416969)

(Rate Plan IDs: 111, 26060)

Required Contributions for Fiscal Year

July 1, 2027 — June 30, 2028

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Section 2 – Miscellaneous Risk Pool Actuarial Information

Section 2 may be found on the CalPERS website in the [Forms & Publications](#) section.

Section 1

California Public Employees' Retirement System

Employer Specific Information for the Rate Plans of the Alameda County Mosquito Abatement District in the Miscellaneous Risk Pool

**(CalPERS ID: 5854416969)
(Rate Plan IDs: 111, 26060)**

Actuarial Certification

It is our opinion that the valuation has been performed in accordance with generally accepted actuarial principles as well as the applicable Standards of Practice promulgated by the Actuarial Standards Board. While this report, consisting of Section 1 and Section 2, is intended to be complete, our office is available to answer questions as needed. All of the undersigned are actuaries who satisfy the *Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States* of the American Academy of Actuaries with regard to pensions. The actuaries responsible for this report and their respective responsibilities are as follows.

Actuarial Methods and Assumptions

It is our opinion that the assumptions and methods, as recommended by the Chief Actuary and adopted by the CalPERS Board of Administration, are internally consistent and reasonable for this plan.



Randall Dziubek, ASA, MAAA
Deputy Chief Actuary, Valuation Services, CalPERS



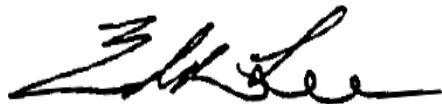
Fritzie Dorais, ASA, MAAA
Deputy Chief Actuary, Special Programs, CalPERS



Scott Terando, ASA, EA, MAAA, FCA, CFA
Chief Actuary, CalPERS

Actuarial Data and Rate Plan Results

The assumptions and methods in this report are the responsibility of the CalPERS Chief Actuary and Deputy Chief Actuaries named above. These were established pursuant to their responsibility for setting actuarial policy and are relied upon without independent assessment of the reasonableness of the assumptions and methods, as such an evaluation would have required substantial additional work beyond the scope of this assignment. To the best of my knowledge and having relied upon the information in Section 2 of this report, this report is complete and accurate and contains sufficient information to disclose, fully and fairly, the funded condition of the rate plans of the Alameda County Mosquito Abatement District in the Miscellaneous Risk Pool and satisfies the actuarial valuation requirements of Government Code section 7504. This valuation and related validation work was performed by the CalPERS Actuarial Office. The valuation was based on the member and financial data as of June 30, 2025, provided by the various CalPERS databases and the benefits under this plan with CalPERS as of the date this report was produced. Section 1 of this report is based on the member and financial data for Alameda County Mosquito Abatement District, while Section 2 is based on the corresponding information for all agencies participating in the Miscellaneous Risk Pool to which the plan belongs.



Eddie W. Lee, ASA, EA, FCA, MAAA
Senior Actuary, CalPERS

Highlights and Executive Summary

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• Purpose of Section 1	3
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• Changes Since the Prior Year's Valuation	5
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Introduction

This report presents the results of the June 30, 2025, actuarial valuation of the rate plans of the Alameda County Mosquito Abatement District in the Miscellaneous Risk Pool of the California Public Employees' Retirement System (CalPERS). This actuarial valuation sets the minimum required contributions for fiscal year (FY) 2027-28.

Purpose of Section 1

This Section 1 report for rate plans of the Alameda County Mosquito Abatement District in the Miscellaneous Risk Pool of CalPERS was prepared by the Actuarial Office using data as of June 30, 2025. This report contains actuarial information for the following rate plan(s).

- 111, Miscellaneous Plan
- 26060, PEPRA Miscellaneous Plan

The purpose of the valuation is to:

- Set forth the assets and accrued liabilities of these rate plans as of June 30, 2025;
- Determine the minimum required employer contributions for these rate plans for FY July 1, 2027, through June 30, 2028;
- Determine the required member contribution rate for FY July 1, 2027, through June 30, 2028, for employees subject to the California Public Employees' Pension Reform Act of 2013 (PEPRA); and
- Provide actuarial information as of June 30, 2025, to the CalPERS Board of Administration (board) and other interested parties.

The pension funding information presented in this report should not be used in financial reports subject to Governmental Accounting Standards Board (GASB) Statement No. 68 for a Cost Sharing Employer Defined Benefit Pension Plan. A separate accounting valuation report for such purposes is available on the CalPERS website (www.calpers.ca.gov).

The measurements shown in this actuarial valuation may not be applicable for other purposes. The agency should contact a CalPERS actuary before disseminating any portion of this report for any reason that is not explicitly described above.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; changes in actuarial policies; changes in plan provisions or applicable law; and differences between the required contributions determined by the valuation and the actual contributions made by the agency.

Assessment and Disclosure of Risk

This report includes the following risk disclosures consistent with the guidance of the Actuarial Standards of Practice:

- A "Scenario Test," projecting future results under different investment income returns.
- A "Sensitivity Analysis," showing the impact on current valuation results using alternative discount rates of 5.8% and 7.8%.
- A "Sensitivity Analysis," showing the impact on current valuation results assuming rates of mortality are 10% lower or 10% higher than our current post-retirement mortality assumptions adopted in 2025.
- Plan maturity measures indicating how sensitive a plan may be to the risks noted above.
- The funded status on a termination basis.
- A low-default-risk obligation measure (LDROM) of benefit costs accrued as of the valuation date.

Summary of Key Valuation Results

Below is a brief summary of key valuation results along with page references where more detailed information can be found.

Required Employer Contributions — page 8

	Fiscal Year 2026-27	Fiscal Year 2027-28
Employer Normal Cost Rates		
Rate Plan 111	13.36%	13.94%
Rate Plan 26060	8.24%	8.39%
Unfunded Accrued Liability (UAL) Contribution Amount	\$475,799	\$501,822
Paid either as		
Option 1) 12 Monthly Payments of	\$39,649.92	\$41,818.50
Option 2) Annual Prepayment in July	\$460,403	\$485,584

Member Contribution Rates — page 9

	Fiscal Year 2026-27	Fiscal Year 2027-28
Rate Plan 111	7.00%	7.00%
Rate Plan 26060	8.25%	8.25%

Projected Employer Contributions — page 13

Fiscal Year	Normal Cost (% of payroll)		Annual UAL Payment
	Rate Plan 111	Rate Plan 26060	
2028-29	13.9%	8.4%	\$535,000
2029-30	13.9%	8.4%	\$520,000
2030-31	13.9%	8.4%	\$504,000
2031-32	13.9%	8.4%	\$497,000
2032-33	13.9%	8.4%	\$491,000

Funded Status — Funding Policy Basis — page 11

	June 30, 2024	June 30, 2025
Entry Age Accrued Liability (AL)	\$18,636,146	\$20,013,246
Fair Value of Assets (Assets)	13,525,997	15,430,315
Unfunded Accrued Liability (UAL) [AL – Assets]	\$5,110,149	\$4,582,931
Funded Ratio [Assets ÷ AL]	72.6%	77.1%

Summary of Valuation Data — page 28

	June 30, 2024	June 30, 2025
Active Member Count	19	21
Annual Covered Payroll	\$2,423,293	\$2,746,797
Transferred Member Count	3	4
Separated Member Count	6	6
Retired Members and Beneficiaries Count	18	17

Changes Since the Prior Year's Valuation

Investment Policy and Discount Rate

On November 19, 2025, the board adopted changes to the CalPERS Total Fund Investment Policy, which provides the framework for the management of CalPERS assets. Consistent with that policy, the board also adopted a discount rate of 6.80% for use in this valuation, which is unchanged from the prior year's valuation.

Actuarial Methods and Other Assumptions

On November 19, 2025, the board adopted new actuarial assumptions based on the recommendations in the *November 2025 CalPERS Experience Study and Review of Actuarial Assumptions*. This study assessed various assumptions including retirement rates, termination rates, mortality rates, rates of salary increase, and inflation. New assumptions stemming from the study are incorporated in this actuarial valuation and affect required contributions for fiscal year 2027-28. Among the changes were an increase in the price inflation assumption from 2.30% to 2.50% per year and an increase in the wage inflation assumption from 2.80% to 3.00% per year.

Plan Assets

Plan assets are measured at fair value. In the prior year's actuarial valuation report the term Market Value of Assets was used to describe the asset value used for funding purposes. The Actuarial Office has used this term interchangeably with Fair Value of Assets. Effective with the June 30, 2025, valuation, CalPERS will exclusively use the term Fair Value of Assets in actuarial reports. This is a change in terminology and does not represent any change in methodology.

Benefits

The standard actuarial practice at CalPERS is to recognize mandated legislative benefit changes in the first annual valuation following the effective date of the legislation. For pooled rate plans, voluntary benefit changes by plan amendment are generally included in the first valuation with a valuation date on or after the effective date of the amendment.

Please refer to the [Plan's Major Benefit Options](#) in this report and Appendix B of the Section 2 Report for a summary of the plan provisions used in this valuation.

Plan Identification

A consolidated plan identifier has been added to the cover page of the report. As a result of the combination of some or all of the employer's rate plans in the Miscellaneous Risk Pool effective with the prior year's valuation, there is now one consolidated Unfunded Accrued Liability (UAL) value and actuarial valuation report for the group of component rate plans. This single identifier, set equal to the identifier of the component rate plan to which the UAL is attached, is intended to make it easier to identify a specific group of rate plans, the associated UAL, and the actuarial report.

Amendments to Regulations Regarding Participation in Risk Pools

On September 17, 2025, the board approved amendments to pooling regulations, which were endorsed by the Office of Administrative Law on May 12, 2026. Beginning with the June 30, 2026, actuarial valuation, it will be possible for pooled plans to be removed from the risk pool and become non-pooled plans. The general rule is that if an employer sponsors a pooled plan with at least 150 but less than 200 active members as of the valuation date, the employer may elect to remove that plan from the risk pool. If the plan has at least 200 active members, the plan will be automatically removed. More information can be found in [Regulatory Actions](#) on the CalPERS website under the heading Participation in Risk Pools.

Subsequent Events

This actuarial valuation report reflects fund investment return through June 30, 2025, as well as statutory changes, regulatory changes and board actions through January 2026.

The 2025 annual benefit limit under Internal Revenue Code (IRC) section 415(b) and annual compensation limits under IRC section 401(a)(17) and Government Code section 7522.10 were used for this valuation and are assumed to increase 2.5% per year based on the price inflation assumption. The actual 2026 limits, determined in October 2025, are not reflected.

To the best of our knowledge, there have been no subsequent events that could materially affect current or future certifications rendered in this report.

Liabilities and Contributions

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Determination of Required Contributions

Contributions to fund the plan are determined by an actuarial valuation performed each year. The valuation employs complex calculations based on a set of actuarial assumptions and methods. See Appendix A in Section 2 for information on the assumptions and methods used in this valuation. The valuation incorporates all plan experience through the valuation date and sets required contributions for the fiscal year that begins two years after the valuation date.

Contribution Components

Two components comprise required contributions:

- Normal Cost — expressed as a percentage of pensionable payroll
- Unfunded Accrued Liability (UAL) Contribution — expressed as a dollar amount

Normal Cost represents the value of benefits allocated to the upcoming year for active employees. If all plan experience exactly matched the actuarial assumptions, normal cost would be sufficient to fully fund all benefits. The employer and employees each pay a share of the normal cost with contributions payable as part of the regular payroll reporting process. The contribution rate for Classic members is set by statute based on benefit formula whereas for PEPRA members it is based on 50% of the total normal cost.

When plan experience differs from the actuarial assumptions, UAL emerges. The new UAL may be positive or negative. If the total UAL is positive (i.e., accrued liability exceeds assets), the employer is required to make contributions to pay off the UAL over time. This is called the UAL Contribution component. There is an option to prepay this amount during July of each fiscal year, otherwise it is paid monthly.

In measuring the UAL each year, plan experience is split by source. Common sources of UAL include investment experience different than expected, non-investment experience different than expected, assumption changes and benefit changes. Each source of UAL (positive or negative) forms a base that is amortized, or paid off, over a specified period of time in accordance with the CalPERS [Actuarial Amortization Policy](#). The UAL Contribution is the sum of the payments on all bases. See the [Schedule of Amortization Bases](#) section of this report for an inventory of existing bases and Appendix A in Section 2 for more information on the amortization policy.

Required Employer Contributions

The required employer contributions in this report do not reflect any cost sharing arrangement between the agency and the employees. For employee contribution rates, see [Member Contribution Rates](#).

Required Employer Contributions	Fiscal Year 2027-28
Employer Normal Cost Rate	
Classic Rate Plan 111	13.94%
PEPRA Rate Plan 26060	8.39%
Plus	
Unfunded Accrued Liability (UAL) Contribution Amount[†]	\$501,822
<i>Paid either as</i>	
1) Monthly Payment	\$41,818.50
<i>Or</i>	
2) Annual Prepayment Option[‡]	\$485,584

The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll and paid as payroll is reported) and the Unfunded Accrued Liability (UAL) Contribution Amount (billed monthly (1) or prepaid annually (2) in dollars).

[†]The required UAL contribution does not take into account any additional discretionary payment made after April 30, 2026.

[‡]Only the UAL portion of the employer contribution can be prepaid (**which must be received in full no later than July 31**).

Development of Normal Cost as a Percentage of Payroll

	Fiscal Year 2026-27	Fiscal Year 2027-28
Classic Rate Plan 111		
Base Total Normal Cost for Formula	18.85%	19.36%
Surcharge for Class 1 Benefits ¹	1.44%	1.52%
Plan's Total Normal Cost	20.29%	20.88%
Offset Due to Employee Contributions ²	(6.93%)	(6.94%)
Employer Normal Cost for Rate Plan 111	13.36%	13.94%
PEPRA Rate Plan 26060		
Base Total Normal Cost for Formula	15.68%	15.80%
Surcharge for Class 1 Benefits ¹	0.81%	0.84%
Plan's Total Normal Cost	16.49%	16.64%
Offset Due to Employee Contributions ²	(8.25%)	(8.25%)
Employer Normal Cost for Rate Plan 26060	8.24%	8.39%

¹ See [Surcharge for Class 1 Benefits](#) in the supplementary information section of this report.

² This is the expected employee contributions, taking into account individual benefit formula and any offset from the use of a modified formula, divided by projected annual payroll. For member contribution rates above the breakpoint for each benefit formula, see [Member Contribution Rates](#).

Member Contribution Rates

The required member contributions in this report do not reflect any cost sharing arrangement between the agency and the employees.

Classic Members

Each member contributes toward their retirement based upon the retirement formula. The standard Classic member contribution rate above the breakpoint, if any, is as described below.

Benefit Formula	Percent Contributed above the Breakpoint
Miscellaneous, 1.5% at age 65	2%
Miscellaneous, 2% at age 60	7%
Miscellaneous, 2% at age 55	7%
Miscellaneous, 2.5% at age 55	8%
Miscellaneous, 2.7% at age 55	8%
Miscellaneous, 3% at age 60	8%

Auxiliary organizations of the CSU system may elect reduced contribution rates for Miscellaneous members, in which case the contribution rate above the breakpoint is 6% if members are not covered by Social Security and 5% if they are.

PEPRA Members

The California Public Employees' Pension Reform Act of 2013 (PEPRA) established new benefit formulas, final compensation period, and contribution requirements for "new" employees (generally those first hired into a CalPERS-covered position on or after January 1, 2013). In accordance with Government Code Section 7522.30(b), "new members ... shall have an initial contribution rate of at least 50% of the normal cost rate." The normal cost rate for the plan is dependent on the benefit levels, actuarial assumptions and demographics of the risk pool, particularly members' entry age. Should the total normal cost rate of the plan change by more than 1% from the base total normal cost rate established for the plan, the new member rate shall be 50% of the new normal cost rate rounded to the nearest quarter percent.

The table below shows the determination of the PEPRA member contribution rates effective July 1, 2027, based on 50% of the total normal cost rate as of the June 30, 2025, valuation.

Rate Plan Identifier	Benefit Group Name	Basis for Current Rate		Rates Effective July 1, 2027			
		Total Normal Cost	Member Rate	Total Normal Cost	Change in Normal Cost	Adj. Needed	Member Rate
26060	PEPRA Miscellaneous Plan	16.25%	8.25%	16.64%	0.39%	No	8.25%

Breakdown of Entry Age Accrued Liability

Active Members	\$9,399,700
Transferred Members	801,689
Separated Members	442,940
Members and Beneficiaries Receiving Payments	<u>9,368,917</u>
Total	\$20,013,246

Allocation of Plan's Share of Pool's Experience

It is the policy of CalPERS to ensure equity within the risk pools by allocating the pool's experience gains/losses and assumption changes in a manner that treats each employer equitably and maintains benefit security for the members of the System while minimizing substantial variations in employer contributions. The pool's experience gains/losses and impact of assumption/method changes is allocated to the plan as follows:

1. Plan's Accrued Liability	\$20,013,246
2. Projected UAL Balance at 6/30/2025	5,081,209
3. Other UAL Adjustments (Golden Handshake, Prior Service Purchase, etc.)	0
4. Adjusted UAL Balance at 6/30/2025 for Asset Share	5,081,209
5. Pool's Accrued Liability ¹	26,128,329,326
6. Sum of Pool's Individual Plan UAL Balances at 6/30/2025 ¹	5,408,106,113
7. Pool's 2024-25 Investment (Gain)/Loss ¹	(1,023,922,845)
8. Pool's 2024-25 Non-Investment (Gain)/Loss ¹	254,352,784
9. Plan's Share of Pool's Investment (Gain)/Loss: $[(1) - (4)] \div [(5) - (6)] \times (7)$	(737,890)
10. Plan's Share of Pool's Non-Investment (Gain)/Loss: $(1) \div (5) \times (8)$	194,824
11. Plan's New (Gain)/Loss as of 6/30/2025: $(9) + (10)$	(543,066)
12. Increase in Pool's Accrued Liability due to Change in Assumptions ¹	58,472,717
13. Plan's Share of Pool's Change in Assumptions: $(1) \div (5) \times (12)$	44,788
14. Increase in Pool's Accrued Liability due to Funding Risk Mitigation ¹	0
15. Plan's Share of Pool's Change due to Funding Risk Mitigation: $(1) \div (5) \times (14)$	0
16. Offset due to Funding Risk Mitigation	0
17. Plan's Investment (Gain)/Loss: $(9) - (16)$	(737,890)

¹ Does not include plans that transferred to the pool on the valuation date.

Development of the Plan's Share of Pool's Assets

18. Plan's UAL: $(2) + (3) + (11) + (13) + (15)$	\$4,582,931
19. Plan's Share of Pool's Fair Value of Assets: $(1) - (18)$	\$15,430,315

For a reconciliation of the pool's Fair Value of Assets, information on the fund's asset allocation and a history of CalPERS investment returns, see [Section 2](#), which can be found on the CalPERS website (www.calpers.ca.gov).

Funded Status – Funding Policy Basis

The table below provides information on the current funded status of the plan under the funding policy. The funded status for this purpose is based on the fair value of assets relative to the funding target produced by the entry age actuarial cost method and actuarial assumptions adopted by the board. The actuarial cost method allocates the total expected cost of a member's projected benefit (**Present Value of Benefits**) to individual years of service (the **Normal Cost**). The value of the projected benefit that is not allocated to future service is referred to as the **Accrued Liability** and is the plan's funding target on the valuation date. The **Unfunded Accrued Liability** (UAL) equals the funding target minus the assets. The UAL is an absolute measure of funded status and can be viewed as employer debt. The **Funded Ratio** equals the assets divided by the funding target. The funded ratio is a relative measure of the funded status and allows for comparisons between plans of different sizes.

	June 30, 2024	June 30, 2025
1. Present Value of Benefits	\$22,500,634	\$24,464,799
2. Entry Age Accrued Liability	18,636,146	20,013,246
3. Fair Value of Assets	13,525,997	15,430,315
4. Unfunded Accrued Liability (UAL) [(2) – (3)]	\$5,110,149	\$4,582,931
5. Funded Ratio [(3) ÷ (2)]	72.6%	77.1%

A funded ratio of 100% (UAL of \$0) implies that the funding of the plan is on target and that future contributions equal to the normal cost of the active plan members will be sufficient to fully fund all retirement benefits if future experience matches the actuarial assumptions. A funded ratio of less than 100% (positive UAL) implies that in addition to normal costs, payments toward the UAL will be required. Plans with a funded ratio greater than 100% have a negative UAL (or surplus) but are required under current law to continue contributing the normal cost in most cases, preserving the surplus for future contingencies.

Calculations for the funding target reflect the expected long-term investment return of 6.8%. If it were known on the valuation date that future investment returns will average something greater/less than the expected return, calculated normal costs and accrued liabilities provided in this report would be less/greater than the results shown. Therefore, for example, if actual average future returns are less than the expected return, calculated normal costs and UAL contributions will not be sufficient to fully fund all retirement benefits. Under this scenario, required future normal cost contributions will need to increase from those provided in this report, and the plan will develop unfunded liabilities that will also add to required future contributions. For illustrative purposes, funded statuses based on a 1% lower and higher average future investment return (discount rate) are as follows:

	1% Lower Average Return	Current Assumption	1% Higher Average Return
Discount Rate	5.8%	6.8%	7.8%
1. Entry Age Accrued Liability	\$22,786,426	\$20,013,246	\$17,729,430
2. Fair Value of Assets	15,430,315	15,430,315	15,430,315
3. Unfunded Accrued Liability (UAL) [(1) – (2)]	\$7,356,111	\$4,582,931	\$2,299,115
4. Funded Ratio [(2) ÷ (1)]	67.7%	77.1%	87.0%

The [Risk Analysis](#) section of the report provides additional information regarding the sensitivity of valuation results to the expected investment return and other factors. Also provided in that section are measures of funded status that are appropriate for assessing the sufficiency of plan assets to cover estimated termination liabilities.

Additional Employer Contributions

The CalPERS amortization policy provides a systematic methodology for paying down a plan's unfunded accrued liability (UAL) over a reasonable period of years. The projected schedule of required payments for this plan under the amortization policy is provided in [Amortization Schedule and Alternatives](#). Certain aspects of the policy such as 1) layered amortization bases (positive and negative) with different remaining payoff periods, and 2) the phase-in of required payments toward investment gains and losses, can result in volatility in year-to-year projected UAL payments. Provided below is information on how an Additional Discretionary Payment (ADP), together with your required UAL payment of \$501,822 for FY 2027-28, may better accomplish your agency's specific objectives with regard to either smoothing out projected future payments or achieving a greater reduction in UAL than would otherwise occur when making only the minimum required payment. Such additional payments are allowed at any time and can also result in significant long-term savings.

Fiscal Year 2027-28 Employer Contribution Versus Agency Funding Objectives

The interest-to-payment ratio for the FY 2027-28 minimum required UAL payment is 54%, which means the required payment of \$501,822 includes \$273,215 of interest cost and results in a \$228,607 reduction in the UAL, as can be seen in [Amortization Schedule and Alternatives](#) (see columns labelled Current Amortization Schedule). If the interest-to-payment ratio is close to 100%, and the reduction in the UAL is small, it may indicate that required contributions will be increasing in the coming years, which would be shown in [Projected Employer Contributions](#). An alternative metric that provides similar information about the FY 2027-28 required UAL payment is the number of years it would take that payment, if held constant, to pay off the existing UAL (note: actual required UAL payments will vary each year). An annual payment of \$501,822 would pay off the current UAL in 12.5 years (ignoring any unexpected changes in UAL occurring after June 30, 2025). If the agency would like their FY 2027-28 payment toward the UAL to be consistent with a faster pace for reaching 100% funded, an ADP can be added to the required minimum payment.

Provided below are select ADP options for consideration. Making such an ADP during FY 2027-28 does not require an ADP be made in any future year, nor does it change the remaining amortization period of any portion of unfunded liability. For information on permanent changes to amortization periods, see [Amortization Schedule and Alternatives](#). Agencies considering making an ADP should contact CalPERS for additional information.

Fiscal Year 2027-28 Employer Contributions — Illustrative Scenarios

If the Annual UAL Payment Each Year Were...	The Current UAL Would be Paid Off in...	This Would Require an ADP ¹ in FY 2027-28 of...	Plus the Estimated Normal Cost of...	Estimated Total Contribution
\$501,822	12.5 years	\$0	\$322,635	\$824,457
582,126	10 years	80,304	322,635	904,761
1,001,075	5 years	499,253	322,635	1,323,710

¹ The ADP amounts are assumed to be made in the middle of the fiscal year. A payment made earlier or later in the fiscal year would have to be less or more than the amount shown to have the same effect on the UAL amortization.

The calculations above are based on the projected UAL as of June 30, 2027, as determined in the June 30, 2025, actuarial valuation. New unfunded liabilities can emerge in future years due to assumption or method changes, changes in plan provisions, and actuarial experience different than assumed. Making an ADP illustrated above for the indicated number of years will not result in a plan that is exactly 100% funded in the indicated number of years. Valuation results will vary from one year to the next and can diverge significantly from projections over a period of several years.

Additional Discretionary Payment History

The following table provides a recent history of actual ADPs made to the plan through April 30, 2026.

Fiscal Year	ADP	Fiscal Year	ADP
2019-20	\$0	2023-24	\$0
2020-21	0	2024-25	0
2021-22	0	2025-26	0
2022-23	0		

Projected Employer Contributions

The table below shows the required and projected employer contributions (before cost sharing) for the next six fiscal years. The projection assumes that all actuarial assumptions will be realized and that no further changes to assumptions, contributions, benefits, or funding will occur during the projection period. In particular, the investment return beginning with FY 2025-26 is assumed to be 6.80% per year, net of investment and administrative expenses. Future contribution requirements may differ significantly from those shown below. The actual long-term cost of the plan will depend on the actual benefits and expenses paid and the actual investment experience of the fund.

The normal cost rates for each rate plan are assumed to remain constant. The employer normal cost rate for pooled plans is relatively constant from year to year when there are no assumption changes. Beginning with the June 30, 2026, actuarial valuation, it will be possible for pooled plans to be removed from the risk pool, in which case the employer normal cost would be based only on the members of that plan and will be different than the projections below. Plans with at least 200 active members on a valuation date will be automatically removed from the risk pool.

If the normal cost rates do remain constant, the employer contribution amounts will vary due to changes in payroll. The actuarial valuation does not include payroll beyond the valuation date. For the most realistic projections, the employer should apply projected payroll amounts to the rates below based on the most recent information available, such as current payroll as well as any plans to fill vacancies or add or remove positions.

Rate Plan Identifier		Covered Payroll June 30, 2025	Required Contribution	Projected Future Employer Contributions (Assumes 6.80% Return for Fiscal Year 2025-26 and Beyond)				
			2027-28	2028-29	2029-30	2030-31	2031-32	2032-33
			Normal Cost Rates (Percentage of Payroll)					
111	\$1,424,916	13.94%	13.9%	13.9%	13.9%	13.9%	13.9%	
26060	1,321,881	8.39%	8.4%	8.4%	8.4%	8.4%	8.4%	
UAL Payment		\$501,822	\$535,000	\$520,000	\$504,000	\$497,000	\$491,000	

Unlike the normal cost rates, the required UAL payments are expected to vary significantly from the projections above due to experience, particularly investment experience. For projected contributions under alternate investment return scenarios, please see the [Future Investment Return Scenarios](#) exhibit. Our online pension plan projection tool, [Pension Outlook](#), is available in the Employers section of the CalPERS website. Pension Outlook can help plan and budget pension costs under various scenarios.

For ongoing plans, investment gains and losses are amortized using an initial 5-year ramp. For more information, please see Amortization of Unfunded Actuarial Accrued Liability in Appendix A of the Section 2 Report. This method phases in the impact of the change in UAL over a 5-year period in order to reduce employer cost volatility from year to year. As a result of this methodology, dramatic changes in the required employer contributions in any one year are less likely. However, required contributions can change gradually and significantly over the next five years. In years when there is a large investment loss, the relatively small amortization payments during the initial ramp period could result in contributions that are less than interest on the UAL (i.e. negative amortization) while the contribution impact of the increase in the UAL is phased in.

Schedule of Amortization Bases

Below is the schedule of the plan's amortization bases. Note that there is a two-year lag between the valuation date and the start of the contribution year.

- The assets, liabilities and funded status of the plan are measured as of the valuation date: June 30, 2025.
- The required employer contributions determined by the valuation are for the fiscal year beginning two years after the valuation date: FY 2027-28.

This two-year lag is necessary due to the amount of time needed to extract and test the membership and financial data, and the need to provide public agencies with their required employer contribution well in advance of the start of the fiscal year.

The Unfunded Accrued Liability (UAL) is used to determine the employer contribution and therefore must be rolled forward two years from the valuation date to the first day of the fiscal year for which the contribution is being determined. The UAL is rolled forward each year by subtracting the expected payment on the UAL for the fiscal year and adjusting for interest. The expected payment on the UAL for FY 2025-26 is based on the actuarial valuation two years ago, adjusted for additional discretionary payments made on or before April 30, 2026, if necessary, and the expected payment for FY 2026-27 is based on the actuarial valuation one year ago.

Reason for Base	Date Est.	Ramp Level 2027-28	Ramp Shape	Escala-tion Rate	Amort. Period	Balance 6/30/25	Expected Payment 2025-26	Balance 6/30/26	Expected Payment 2026-27	Balance 6/30/27	Minimum Required Payment 2027-28
Investment (Gain)/Loss	6/30/13	100%	Up/Dn	2.80%	18	1,368,265	106,722	1,351,016	109,711	1,329,505	112,782
Non-Investment (Gain)/Loss	6/30/13	100%	Up/Dn	2.80%	18	(13,156)	(1,026)	(12,990)	(1,055)	(12,783)	(1,084)
Share of Pre-2013 Pool UAL	6/30/13	No Ramp		2.80%	10	631,273	66,487	605,489	68,349	576,028	70,263
Assumption Change	6/30/14	100%	Up/Dn	2.80%	9	517,142	69,088	480,909	71,023	440,213	73,012
Investment (Gain)/Loss	6/30/14	100%	Up/Dn	2.80%	19	(1,074,539)	(80,742)	(1,064,166)	(83,003)	(1,050,751)	(85,327)
Non-Investment (Gain)/Loss	6/30/14	100%	Up/Dn	2.80%	19	1,156	87	1,145	89	1,131	92
Investment (Gain)/Loss	6/30/15	100%	Up/Dn	2.80%	20	675,688	49,043	670,952	50,416	664,475	51,828
Non-Investment (Gain)/Loss	6/30/15	100%	Up/Dn	2.80%	20	(54,224)	(3,936)	(53,844)	(4,046)	(53,324)	(4,159)
Assumption Change	6/30/16	100%	Up/Dn	2.80%	11	216,499	24,507	205,894	25,193	193,859	25,899
Investment (Gain)/Loss	6/30/16	100%	Up/Dn	2.80%	21	837,617	58,867	833,739	60,515	827,895	62,209
Non-Investment (Gain)/Loss	6/30/16	100%	Up/Dn	2.80%	21	(102,662)	(7,215)	(102,187)	(7,417)	(101,471)	(7,625)
Assumption Change	6/30/17	100%	Up/Dn	2.80%	12	262,343	27,700	251,556	28,476	239,234	29,273
Investment (Gain)/Loss	6/30/17	100%	Up/Dn	2.80%	22	(450,503)	(30,722)	(449,388)	(31,582)	(447,308)	(32,467)
Non-Investment (Gain)/Loss	6/30/17	100%	Up/Dn	2.80%	22	(22,665)	(1,546)	(22,609)	(1,589)	(22,504)	(1,633)
Assumption Change	6/30/18	100%	Up/Dn	2.80%	13	452,129	44,837	436,537	46,093	418,587	47,383
Investment (Gain)/Loss	6/30/18	100%	Up/Dn	2.80%	23	(140,982)	(9,348)	(140,908)	(9,609)	(140,559)	(9,878)
Method Change	6/30/18	100%	Up/Dn	2.80%	13	124,607	12,357	120,310	12,703	115,363	13,059
Non-Investment (Gain)/Loss	6/30/18	100%	Up/Dn	2.80%	23	68,877	4,567	68,841	4,695	68,670	4,826
Investment (Gain)/Loss	6/30/19	100%	Up Only	0.00%	14	61,979	6,265	59,719	6,265	57,305	6,265
Non-Investment (Gain)/Loss	6/30/19	No Ramp		0.00%	14	54,741	5,533	52,745	5,533	50,614	5,533

Schedule of Amortization Bases (continued)

Reason for Base	Date Est.	Ramp Level 2027-28	Ramp Shape	Escala-tion Rate	Amort. Period	Balance 6/30/25	Expected Payment 2025-26	Balance 6/30/26	Expected Payment 2026-27	Balance 6/30/27	Minimum Required Payment 2027-28
Investment (Gain)/Loss	6/30/20	100%	Up Only	0.00%	15	308,585	24,595	304,151	30,743	293,062	30,743
Non-Investment (Gain)/Loss	6/30/20	No Ramp		0.00%	15	47,786	4,671	46,208	4,671	44,523	4,671
Assumption Change	6/30/21	No Ramp		0.00%	16	68,037	6,451	65,997	6,451	63,818	6,451
Net Investment (Gain)	6/30/21	100%	Up Only	0.00%	16	(1,555,199)	(93,509)	(1,564,317)	(124,678)	(1,541,843)	(155,848)
Non-Investment (Gain)/Loss	6/30/21	No Ramp		0.00%	16	(67,729)	(6,422)	(65,698)	(6,421)	(63,530)	(6,422)
Investment (Gain)/Loss	6/30/22	80%	Up Only	0.00%	17	2,176,536	89,471	2,232,077	134,207	2,245,163	178,943
Non-Investment (Gain)/Loss	6/30/22	No Ramp		0.00%	17	267,534	24,673	260,228	24,673	252,425	24,673
Partial Fresh Start	6/30/22	80%	Up Only	0.00%	17	133,157	5,474	136,555	8,211	137,355	10,947
Investment (Gain)/Loss	6/30/23	60%	Up Only	0.00%	18	92,354	1,985	96,583	3,970	99,048	5,955
Non-Investment (Gain)/Loss	6/30/23	No Ramp		0.00%	18	309,513	27,832	301,797	27,833	293,555	27,832
Investment (Gain)/Loss	6/30/24	40%	Up Only	0.00%	19	(358,857)	0	(383,259)	(8,238)	(400,807)	(16,476)
Non-Investment (Gain)/Loss	6/30/24	No Ramp		0.00%	19	245,907	0	262,629	23,617	256,081	23,616
Assumption Change	6/30/25	No Ramp		0.00%	20	44,788	0	47,834	0	51,087	4,594
Investment (Gain)/Loss	6/30/25	20%	Up Only	0.00%	20	(737,890)	0	(788,067)	0	(841,656)	(18,091)
Non-Investment (Gain)/Loss	6/30/25	No Ramp		0.00%	20	194,824	0	208,072	0	222,221	19,983
Total						4,582,931	426,746	4,453,550	475,799	4,264,681	501,822

The (gain)/loss bases are the plan's allocated share of the risk pool's (gain)/loss for the fiscal year as disclosed in [Allocation of Plan's Share of Pool's Experience](#) earlier in this report. These (gain)/loss bases will be amortized in accordance with the CalPERS amortization policy in effect at the time the base was established.

Amortization Schedule and Alternatives

The amortization schedule on the previous page(s) shows the minimum contributions required according to the CalPERS amortization policy. Each year, many agencies express a desire for a more stable pattern of payments or indicate interest in paying off the unfunded accrued liabilities more quickly than required. As such, we have provided alternative amortization schedules to help analyze the current amortization schedule and illustrate the potential savings of accelerating unfunded liability payments.

Shown on the following page are future year amortization payments based on 1) the current amortization schedule reflecting the individual bases and remaining periods shown on the previous page, and 2) alternative “fresh start” amortization schedules using two sample periods that would both result in interest savings relative to the current amortization schedule. To initiate a fresh start, please contact a CalPERS actuary.

The current amortization schedule typically contains both positive and negative bases. Positive bases result from plan changes, assumption changes, method changes or plan experience that increase unfunded liability. Negative bases result from plan changes, assumption changes, method changes, or plan experience that decrease unfunded liability. The combination of positive and negative bases within an amortization schedule can result in unusual or problematic circumstances in future years, such as:

- When a negative payment would be required on a positive unfunded actuarial liability; or
- When the payment would completely amortize the total unfunded liability in a very short time period, and results in a large change in the employer contribution requirement.

In any year when one of the above scenarios occurs, the actuary will consider corrective action such as replacing the existing unfunded liability bases with a single “fresh start” base and amortizing it over an appropriate period.

The current amortization schedule on the following page may appear to show that, based on the current amortization bases, one of the above scenarios will occur at some point in the future. It is impossible to know today whether such a scenario will in fact arise since there will be additional bases added to the amortization schedule in each future year. Should such a scenario arise in any future year, the actuary will take appropriate action based on guidelines in the CalPERS [Actuarial Amortization Policy](#).

Amortization Schedule and Alternatives (continued)

Date	Current Amortization Schedule		Alternative Schedules			
	Balance	Payment	10 Year Amortization		5 Year Amortization	
			Balance	Payment	Balance	Payment
6/30/2027	4,264,681	501,822	4,264,681	582,126	4,264,681	1,001,075
6/30/2028	4,036,074	534,709	3,953,087	582,127	3,520,128	1,001,076
6/30/2029	3,757,938	520,390	3,620,303	582,127	2,724,944	1,001,076
6/30/2030	3,475,686	504,373	3,264,890	582,127	1,875,687	1,001,075
6/30/2031	3,190,793	496,884	2,885,309	582,126	968,682	1,001,076
6/30/2032	2,894,267	491,010	2,479,917	582,127		
6/30/2033	2,583,643	484,512	2,046,958	582,127		
6/30/2034	2,258,619	471,061	1,584,557	582,126		
6/30/2035	1,925,389	449,262	1,090,714	582,126		
6/30/2036	1,592,029	410,453	563,290	582,127		
6/30/2037	1,276,108	295,843				
6/30/2038	1,057,148	269,777				
6/30/2039	850,236	249,324				
6/30/2040	650,389	235,976				
6/30/2041	450,748	194,888				
6/30/2042	279,994	154,235				
6/30/2043	139,640	144,310				
6/30/2044						
6/30/2045						
6/30/2046						
6/30/2047						
6/30/2048						
6/30/2049						
Total		6,408,829		5,821,266		5,005,378
Interest Paid		2,144,148		1,556,585		740,697
Estimated Savings				587,563		1,403,451

Employer Contribution History

The table below provides a recent history of the employer contribution requirements for the plan, as determined by the annual actuarial valuation. Changes due to prepayments or plan amendments after the valuation report was finalized are not reflected.

Valuation Date	Contribution Year	Employer Normal Cost Rate		Unfunded Liability Payment
		Rate Plan 111	Rate Plan 26060	
06/30/2016	2018-19	10.152%	7.266%	\$152,193
06/30/2017	2019-20	10.868%	7.072%	193,718
06/30/2018	2020-21	11.746%	7.874%	225,050
06/30/2019	2021-22	11.60%	7.73%	270,063
06/30/2020	2022-23	11.61%	7.76%	313,679
06/30/2021	2023-24	13.26%	8.00%	297,212
06/30/2022	2024-25	13.31%	8.18%	364,247
06/30/2023	2025-26	13.38%	8.27%	426,746
06/30/2024	2026-27	13.36%	8.24%	475,799
06/30/2025	2027-28	13.94%	8.39%	501,822

Funding History

The table below shows the recent history of the actuarial accrued liability, share of the pool's fair value of assets, unfunded accrued liability, funded ratio and annual covered payroll.

Valuation Date	Accrued Liability	Share of Pool's Fair Value of Assets	Unfunded Accrued Liability (UAL)	Funded Ratio	Annual Covered Payroll
06/30/2016	\$12,164,188	\$9,253,548	\$2,910,640	76.1%	\$1,503,247
06/30/2017	13,046,711	10,156,691	2,890,020	77.8%	1,529,665
06/30/2018	14,072,255	10,656,673	3,415,582	75.7%	1,677,640
06/30/2019	14,392,096	10,761,250	3,630,846	74.8%	1,806,386
06/30/2020	15,017,588	11,012,374	4,005,214	73.3%	1,888,769
06/30/2021	16,155,593	13,483,663	2,671,930	83.5%	2,007,824
06/30/2022	17,116,088	12,330,880	4,785,208	72.0%	2,080,744
06/30/2023	17,594,575	12,423,171	5,171,404	70.6%	2,196,987
06/30/2024	18,636,146	13,525,997	5,110,149	72.6%	2,423,293
06/30/2025	20,013,246	15,430,315	4,582,931	77.1%	2,746,797

Risk Analysis

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Future Investment Return Scenarios

Analysis using the investment return scenarios from the Asset Liability Management process completed in 2025 was performed to determine the effects of various future investment returns on required employer UAL contributions. The CalPERS [Funding Risk Mitigation Policy](#) stipulates that when the investment return exceeds the discount rate by at least 2% the board will consider adjustments to the discount rate. The projections below use a discount rate of 6.8% for all scenarios even though an annual return of 11.6% is high enough to trigger a board discussion on the discount rate. The projections also assume that all other actuarial assumptions will be realized and that no further changes in assumptions, contributions, benefits, or funding will occur.

The employer normal cost rates are not affected by Investment returns, and since no future assumption changes are being reflected, the projected employer normal cost rates for every future investment return scenario are the same as those shown earlier in this report. See [Projected Employer Contributions](#) for more information on projecting the employer normal cost.

The first table shows projected UAL contribution requirements if the fund were to earn either 1.9% or 11.6% annually. These alternate investment returns were chosen because 90% of long-term average returns are expected to fall between them over the 20-year period ending June 30, 2045.

Assumed Annual Return FY 2025-26 through FY 2044-45	Projected Employer UAL Contributions				
	2028-29	2029-30	2030-31	2031-32	2032-33
1.9% (5th percentile)	\$553,000	\$576,000	\$617,000	\$685,000	\$776,000
11.6% (95th percentile)	\$517,000	\$464,000	\$387,000	\$0	\$0

Required UAL contributions outside of this range are also possible. In particular, whereas it is unlikely that investment returns will average less than 1.9% or greater than 11.6% over a 20-year period, the likelihood of a single investment return less than 1.9% or greater than 11.6% in any given year is much greater. The following analysis illustrates the effect of an extreme, single year investment return.

The portfolio has an expected volatility (or standard deviation) of 12.7% per year. Accordingly, in any given year there is a 16% probability that the annual return will be -5.9% or less and a 2.5% probability that the annual return will be -18.6% or less. These returns represent one and two standard deviations below the expected return of 6.8%.

The following table shows the effect of one and two standard deviation investment losses in FY 2025-26 on the FY 2028-29 contribution requirements. Note that a single-year investment gain or loss decreases or increases the required UAL contribution amount incrementally for each of the next five years, not just one, due to the 5-year ramp in the amortization policy. However, the contribution requirements beyond the first year are also impacted by investment returns beyond the first year. Historically, significant downturns in the market are often followed by higher than average returns. Such investment gains would offset the impact of these single year negative returns in years beyond FY 2028-29.

Assumed Annual Return for Fiscal Year 2025-26	Required Employer UAL Contributions	Projected Employer UAL Contributions
	2027-28	2028-29
(18.6%) (2 standard deviation loss)	\$501,822	\$631,000
(5.9%) (1 standard deviation loss)	\$501,822	\$583,000

- Without investment gains (returns higher than 6.8%) in FY 2026-27 or later, projected contributions rates would continue to rise over the next four years due to the continued phase-in of the impact of the illustrated investment loss in FY 2025-26.
- The Pension Outlook Tool can be used to model projected contributions for these scenarios beyond FY 2028-29 as well as to model other investment return scenarios.

Discount Rate Sensitivity

The discount rate assumption is calculated as the sum of the assumed real rate of return and the assumed annual price inflation, currently 4.3% and 2.5%, respectively. Changing either the price inflation assumption or the real rate of return assumption will change the discount rate. The sensitivity of the valuation results to the discount rate assumption depends on which component of the discount rate is changed. Shown below are various valuation results as of June 30, 2025, assuming alternate discount rates by changing the two components independently. Results are shown using the current discount rate of 6.8% as well as alternate discount rates of 5.8% and 7.8%. The rates of 5.8% and 7.8% were selected since they illustrate the impact of a 1.0% increase or decrease to the 6.8% assumption.

Sensitivity to the Discount Rate Due to Varying the Real Rate of Return Assumption

As of June 30, 2025	1% Lower Real Return Rate	Current Assumptions	1% Higher Real Return Rate
Discount Rate	5.8%	6.8%	7.8%
Price Inflation	2.5%	2.5%	2.5%
Real Rate of Return	3.3%	4.3%	5.3%
a) Total Normal Cost			
Rate Plan 111	26.31%	20.88%	16.75%
Rate Plan 26060	20.93%	16.64%	13.39%
b) Accrued Liability	\$22,786,426	\$20,013,246	\$17,729,430
c) Fair Value of Assets	\$15,430,315	\$15,430,315	\$15,430,315
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$7,356,111	\$4,582,931	\$2,299,115
e) Funded Ratio	67.7%	77.1%	87.0%

Sensitivity to the Discount Rate Due to Varying the Price Inflation Assumption

As of June 30, 2025	1% Lower Price Inflation	Current Assumptions	1% Higher Price Inflation
Discount Rate	5.8%	6.8%	7.8%
Price Inflation	1.5%	2.5%	3.5%
Real Rate of Return	4.3%	4.3%	4.3%
a) Total Normal Cost			
Rate Plan 111	22.30%	20.88%	19.20%
Rate Plan 26060	17.85%	16.64%	15.23%
b) Accrued Liability	\$21,062,444	\$20,013,246	\$18,803,684
c) Fair Value of Assets	\$15,430,315	\$15,430,315	\$15,430,315
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$5,632,129	\$4,582,931	\$3,373,369
e) Funded Ratio	73.3%	77.1%	82.1%

Mortality Rate Sensitivity

The following table looks at the change in the June 30, 2025, plan costs and funded status under two different longevity scenarios, namely assuming rates of post-retirement mortality are 10% lower or 10% higher than our current mortality assumptions adopted in 2025. This type of analysis highlights the impact on the plan of a change in the mortality assumption.

As of June 30, 2025	10% Lower Mortality Rates	Current Assumptions	10% Higher Mortality Rates
a) Total Normal Cost			
Rate Plan 111	21.23%	20.88%	20.55%
Rate Plan 26060	16.94%	16.64%	16.36%
b) Accrued Liability	\$20,450,606	\$20,013,246	\$19,612,138
c) Fair Value of Assets	\$15,430,315	\$15,430,315	\$15,430,315
d) Unfunded Liability/(Surplus) [(b) - (c)]	\$5,020,291	\$4,582,931	\$4,181,823
e) Funded Ratio	75.5%	77.1%	78.7%

Maturity Measures

As pension plans mature they become more sensitive to risks. Understanding plan maturity and how it affects the ability of a pension plan sponsor to tolerate risk is important in understanding how the pension plan is impacted by investment return volatility, other economic variables and changes in longevity or other demographic assumptions.

Since it is the employer that bears the risk, it is appropriate to perform this analysis on a pension plan level considering all rate plans. The following measures include only the rate plans covered in this report. One way to look at the maturity level of CalPERS and its plans is to look at the ratio of a plan's retiree liability to its total liability. A pension plan in its infancy will have a very low ratio of retiree liability to total liability. As the plan matures, the ratio increases. A mature plan will often have a ratio above 60%-65%.

Ratio of Retiree Accrued Liability to Total Accrued Liability	June 30, 2024	June 30, 2025
1. Retiree Accrued Liability	\$9,436,444	\$9,368,917
2. Total Accrued Liability	\$18,636,146	\$20,013,246
3. Ratio of Retiree AL to Total AL [(1) ÷ (2)]	51%	47%

Another measure of the maturity level of CalPERS and its plans is the ratio of actives to retirees, also called the support ratio. A pension plan in its infancy will have a very high ratio of active to retired members. As the plan matures and members retire, the ratio declines. A mature plan will often have a ratio near or below one.

To calculate the support ratio for the rate plan, retirees and beneficiaries receiving a continuance are each counted as one, even though they may have only worked a portion of their careers as an active member of this rate plan. For this reason, the support ratio, while intuitive, may be less informative than the ratio of retiree liability to total accrued liability above.

Support Ratio	June 30, 2024	June 30, 2025
1. Number of Actives	19	21
2. Number of Retirees	18	17
3. Support Ratio [(1) ÷ (2)]	1.06	1.24

Maturity Measures (continued)

The actuarial calculations supplied in this communication are based on various assumptions about long-term demographic and economic behavior. Unless these assumptions (e.g., terminations, deaths, disabilities, retirements, salary increases, investment return) are exactly realized each year, there will be differences on a year-to-year basis. The year-to-year differences between actual experience and the assumptions are called actuarial gains and losses and serve to lower or raise required employer contributions from one year to the next. Therefore, employer contributions will inevitably fluctuate, especially due to the ups and downs of investment returns.

Asset Volatility Ratio

Shown in the table below is the asset volatility ratio (AVR), which is the ratio of fair value of assets to payroll. Plans that have a higher AVR experience more volatile employer contributions (as a percentage of payroll) due to investment return. For example, a plan with an AVR of 8 may experience twice the contribution volatility due to investment return volatility than a plan with an AVR of 4. It should be noted that this ratio is a measure of the current situation. It increases over time but generally tends to stabilize as a plan matures.

Liability Volatility Ratio

Also shown in the table below is the liability volatility ratio (LVR), which is the ratio of accrued liability to payroll. Plans that have a higher LVR experience more volatile employer contributions (as a percentage of payroll) due to changes in liability. For example, a plan with an LVR of 8 is expected to have twice the contribution volatility of a plan with an LVR of 4 when there is a change in accrued liability, such as when there is a change in actuarial assumptions. It should be noted that this ratio indicates a longer-term potential for contribution volatility, since the AVR, described above, will tend to move closer to the LVR as the funded ratio approaches 100%.

Contribution Volatility	June 30, 2024	June 30, 2025
1. Fair Value of Assets	\$13,525,997	\$15,430,315
2. Payroll	\$2,423,293	\$2,746,797
3. Asset Volatility Ratio (AVR) [(1) ÷ (2)]	5.6	5.6
4. Accrued Liability	\$18,636,146	\$20,013,246
5. Liability Volatility Ratio (LVR) [(4) ÷ (2)]	7.7	7.3

Maturity Measures History

Valuation Date	Ratio of Retiree Accrued Liability to Total Accrued Liability	Support Ratio	Asset Volatility Ratio	Liability Volatility Ratio
06/30/2017	69%	0.80	6.6	8.5
06/30/2018	65%	0.90	6.4	8.4
06/30/2019	63%	0.95	6.0	8.0
06/30/2020	60%	0.95	5.8	8.0
06/30/2021	57%	0.90	6.7	8.0
06/30/2022	54%	0.90	5.9	8.2
06/30/2023	55%	0.90	5.7	8.0
06/30/2024	51%	1.06	5.6	7.7
06/30/2025	47%	1.24	5.6	7.3

Funded Status – Termination Basis

The funded status measured on a termination basis is an estimated range for the financial position of the plan had the contract with CalPERS been terminated as of June 30, 2025. The accrued liability on a termination basis (termination liability) is calculated differently from the plan's ongoing funding liability. For the termination liability calculation, both compensation and service are frozen as of the valuation date and no future pay increases or service accruals are assumed. This measure of funded status is not appropriate for assessing the need for future employer contributions in the case of an ongoing plan, that is, for an employer that continues to provide CalPERS retirement benefits to active employees. Unlike the actuarial cost method used for ongoing plans, the termination liability is the present value of the benefits earned through the valuation date.

A more conservative investment policy and asset allocation strategy was adopted by the board for the Terminated Agency Pool. The Terminated Agency Pool has limited funding sources since no future employer contributions will be made. Therefore, expected benefit payments are secured by risk-free assets and benefit security for members is increased while limiting the funding risk. However, this asset allocation has a lower expected rate of return than the remainder of the PERF and consequently, a lower discount rate assumption. The lower discount rate for the Terminated Agency Pool results in higher liabilities for terminated plans.

The discount rate used for actual termination valuations is a weighted average of the 10-year and 30-year Treasury yields where the weights are based on matching asset and liability durations as of the termination date. The discount rates used in the following analysis are based on 20-year Treasury bonds, which is a good proxy for most plans. The discount rate upon contract termination will depend on actual Treasury rates on the date of termination, which varies over time, as demonstrated below.

Valuation Date	20-Year Treasury Rate	Valuation Date	20-Year Treasury Rate
6/30/2016	1.86%	6/30/2021	2.00%
6/30/2017	2.61%	6/30/2022	3.38%
6/30/2018	2.91%	6/30/2023	4.06%
6/30/2019	2.31%	6/30/2024	4.61%
6/30/2020	1.18%	6/30/2025	4.79%

As Treasury rates are variable, the table below shows a range for the termination liability using discount rates 1% below and above the 20-year Treasury rate on the valuation date. The price inflation assumption is the 20-year Treasury breakeven inflation rate, that is, the difference between the 20-year inflation indexed bond and the 20-year fixed-rate bond.

The Fair Value of Assets also varies with interest rates and will fluctuate depending on other market conditions on the date of termination. Since it is not possible to approximate how the assets will change in different interest rate environments, the results below use the plan's share of the pool's Fair Value of Assets as of the valuation date.

	Discount Rate: 3.79% Price Inflation: 2.47%	Discount Rate: 5.79% Price Inflation: 2.47%
1. Termination Liability ¹	\$27,896,526	\$21,152,611
2. Fair Value of Assets	15,430,315	15,430,315
3. Unfunded Termination Liability [(1) – (2)]	\$12,466,211	\$5,722,296
4. Funded Ratio [(2) ÷ (1)]	55.3%	72.9%

¹ The termination liabilities calculated above include a 5% contingency load. The contingency load and other actuarial assumptions can be found in Appendix A of the Section 2 report.

In order to terminate, first contact our Pension Contract Services unit to initiate a Resolution of Intent to Terminate. The completed Resolution will allow a CalPERS actuary to provide a preliminary termination valuation with a more up-to-date estimate of the plan's assets and liabilities. Before beginning this process, please consult with a CalPERS actuary.

Funded Status – Low-Default-Risk Basis

Actuarial Standard of Practice (ASOP) No. 4, *Measuring Pension Obligations and Determining Pension Plan Costs or Contributions*, requires the disclosure of a low-default-risk obligation measure (LDROM) of benefit costs accrued as of the valuation date using a discount rate based on the yields of high quality fixed income securities with cash flows that replicate expected benefit payments. Conceptually, this measure represents the level at which financial markets would value the accrued plan costs, and would be approximately equal to the cost of a portfolio of low-default-risk bonds with similar financial characteristics to accrued plan costs.

As permitted in ASOP No. 4, the Actuarial Office uses the Entry Age Actuarial Cost Method to calculate the LDROM. This methodology is in line with the measure of “benefit entitlements” calculated by the Bureau of Economic Analysis and used by the Federal Reserve to report the indebtedness due to pensions of plan sponsors and, conversely, the household wealth due to pensions of plan members.

As shown below, the discount rate used for the LDROM is 5.58%, which is the Standard FTSE Pension Liability Index¹ discount rate as of June 30, 2025.

Selected Measures on a Low-Default-Risk Basis	June 30, 2025
Discount Rate	5.58%
1. Accrued Liability – Low-Default-Risk Basis (LDROM)	
a) Active Members	\$11,536,374
b) Transferred Members	1,017,112
c) Separated Members	523,593
d) Members and Beneficiaries Receiving Payments	10,397,903
e) Total	<u>\$23,474,982</u>
2. Fair Value of Assets	<u>15,430,315</u>
3. Unfunded Accrued Liability – Low-Default-Risk Basis [(1e) – (2)]	\$8,044,667
4. Unfunded Accrued Liability – Funding Policy Basis	<u>4,582,931</u>
5. Present Value of Unearned Investment Risk Premium [(3) – (4)]	\$3,461,736

The difference between the unfunded liabilities on a low-default-risk basis and on the funding policy basis represents the present value of the investment risk premium that must be earned in future years to keep future contributions for currently accrued plan costs at the levels anticipated by the funding policy.

Benefit security for members of the plan relies on a combination of the assets in the plan, the investment income generated from those assets, and the ability of the plan sponsor to make necessary future contributions. If future returns fall short of 6.8%, benefit security could be at risk without higher than currently anticipated future contributions.

The funded status on a low-default-risk basis is not appropriate for assessing the sufficiency of plan assets to cover the cost of settling the plan's benefit obligations (see [Funded Status – Termination Basis](#)), nor is it appropriate for assessing the need for future contributions (see [Funded Status – Funding Policy Basis](#)).

¹ This index is based on a yield curve of hypothetical AA-rated zero-coupon corporate bonds whose maturities range from 6 months to 30 years. The index represents the single discount rate that would produce the same present value as discounting a standardized set of liability cash flows for a fully open pension plan using the yield curve. The liability cash flows are reasonably consistent with the pattern of benefits expected to be paid from the entire Public Employees' Retirement Fund for current and former plan members. A different index, hence a different discount rate, may be needed to measure the LDROM for a subset of the fund, such as a single rate plan or a group of retirees.

Supplementary Information

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• Status of PEPRA Transition	29
• Surcharge for Class 1 Benefits	29
• Plan's Major Benefit Options	30

Normal Cost by Benefit Group

The table below displays the Total Normal Cost broken out by benefit group for FY 2027-28. The Total Normal Cost is the annual cost of service accrual for the fiscal year for active employees and can be viewed as the long-term contribution rate for the benefits contracted. Generally, the normal cost for a benefit group subject to more generous benefit provisions will exceed the normal cost for a group with less generous benefits. Future measurements of the Total Normal Cost for each group may differ significantly from the current values due to such factors as changes in economic and demographic assumptions, changes in plan benefits, or changes in applicable law.

Rate Plan Identifier	Benefit Group Name	Total Normal Cost FY 2027-28	Offset due to Employee Contributions FY 2027-28	Employer Normal Cost FY 2027-28	Number of Actives	Payroll on 6/30/2025
111	Miscellaneous Plan	20.88%	6.94%	13.94%	9	\$1,424,916
26060	PEPRA Miscellaneous Plan	16.64%	8.25%	8.39%	<u>12</u>	<u>1,321,881</u>
	Total				21	\$2,746,797

Note that if a Benefit Group above has multiple bargaining units, each of which has separately contracted for different benefits such as Employer Paid Member Contributions, then the Normal Cost shown for the respective benefit level does not reflect those differences.

Summary of Valuation Data

The table below shows a summary of the plan's member data upon which this valuation is based:

	June 30, 2024	June 30, 2025
Active Members		
Counts	19	21
Average Attained Age	43.7	43.1
Average Entry Age to Rate Plan	32.4	32.0
Average Years of Credited Service	11.4	11.2
Average Annual Covered Pay	\$127,542	\$130,800
Annual Covered Payroll	\$2,423,293	\$2,746,797
Present Value of Future Payroll	\$23,251,528	\$26,909,600
Transferred Members		
Counts	3	4
Separated Members		
Counts	6	6
Retired Members and Beneficiaries*		
Counts	18	17
Average Annual Benefits	\$44,734	\$48,312
Total Annual Benefits	\$805,218	\$821,309

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Average Annual Benefits represents benefit amounts payable by this plan only. Some members may have service in another plan and would therefore have a larger total benefit than would be included as part of the average shown here.

* Values include community property settlements

Status of PEPRA Transition

The California Public Employees' Pension Reform Act of 2013 (PEPRA), which took effect in January 2013, changed CalPERS retirement benefits and placed compensation limits on new members joining CalPERS on or after January 1, 2013. One of the objectives of PEPRA was to improve the ability of employers to manage the costs of retirement benefits for their members. While such changes can reduce future benefit costs in a meaningful way, the full impact on employer contributions will not occur until all active members are subject to the rules and provisions of PEPRA. The table below illustrates the status of this transition as of June 30, 2025.

	Classic	PEPRA	PEPRA as a Percent of Total
Active Members			
Count	9	12	57.1%
Average Attained Age	53.2	35.6	
Average Entry Age	34.5	30.2	
Average Years of Credited Service	18.7	5.5	
Average Annual Covered Payroll	\$158,324	\$110,157	
Annual Covered Payroll	\$1,424,916	\$1,321,881	48.1%
Present Value of Future Payroll	\$9,563,888	\$17,345,712	64.5%
Transferred Members			
Count	3	1	25.0%
Separated Members			
Count	4	2	33.3%
Retired Members and Beneficiaries Receiving Payments			
Count	17	0	0.0%
Average Annual Benefit	\$48,312	\$0	
Total Annual Benefits	\$821,309	\$0	0.0%
Accrued Liabilities			
Active Members	\$7,887,266	\$1,512,434	16.1%
Transferred Members	795,532	6,157	0.8%
Separated Members	365,393	77,547	17.5%
Retired Members and Beneficiaries	<u>9,368,917</u>	<u>0</u>	<u>0.0%</u>
Total	\$18,417,108	\$1,596,138	8.0%

Surcharge for Class 1 Benefits

This plan has the following Class 1 benefit provisions which result in the surcharges indicated:

Class 1 benefit provisions	Rate Plan 111	Rate Plan 26060
One Year Final Compensation (FAC 1)	0.69%	N/A
Post-Retirement Survivor Allowance (PRSA)	<u>0.83%</u>	<u>0.84%</u>
Surcharge for Class 1 Benefits	1.52%	0.84%

Plan's Major Benefit Options

Shown below is a summary of the major optional benefits for which the agency has contracted. A description of principal standard and optional plan provisions is in Section 2.

Rate Plan 111	Benefit Group		
Member Category	Misc	Misc	
Demographics			
Actives	Yes	No	
Transfers/Separated	Yes	No	
Receiving	Yes	Yes	
Benefit Provision			
Benefit Formula	2% @ 55		
Social Security Coverage	No		
Full/Modified	Full		
Employee Contribution Rate	7.00%		
Final Average Compensation Period	One Year		
Sick Leave Credit	Yes		
Non-Industrial Disability	Standard		
Industrial Disability	No		
Pre-Retirement Death Benefits			
Optional Settlement 2	Yes		
1959 Survivor Benefit Level	Level 3		
Special	No		
Alternate (firefighters)	No		
Post-Retirement Death Benefits			
Lump Sum	\$2,000	\$2,000	
Survivor Allowance (PRSA)	Yes	Yes	
COLA	2%	2%	

Plan's Major Benefit Options (Continued)

Shown below is a summary of the major optional benefits for which the agency has contracted. A description of principal standard and optional plan provisions is in Section 2.

Rate Plan 26060	Benefit Group		
Member Category	Misc		
Demographics			
Actives	Yes		
Transfers/Separated	Yes		
Receiving	No		
Benefit Provision			
Benefit Formula	2% @ 62		
Social Security Coverage	No		
Full/Modified	Full		
Employee Contribution Rate	8.25%		
Final Average Compensation Period	Three Year		
Sick Leave Credit	Yes		
Non-Industrial Disability	Standard		
Industrial Disability	No		
Pre-Retirement Death Benefits			
Optional Settlement 2	Yes		
1959 Survivor Benefit Level	Level 3		
Special	No		
Alternate (firefighters)	No		
Post-Retirement Death Benefits			
Lump Sum	\$2,000		
Survivor Allowance (PRSA)	Yes		
COLA	2%		

Section 2

California Public Employees' Retirement System

Risk Pool Actuarial Valuation Information

Section 2 may be found on the CalPERS website
in the [Forms & Publications](#) section

Alameda County Mosquito Abatement Dist.

Check Register

For the Period From Aug 1, 2026 to Aug 15, 2026

Filter Criteria includes: Report order is by Date.

Check #	Date	Payee	Amount
5340	8/12/26	Adapco	3,509.89
5341	8/12/26	Airgas	2,863.36
5342	8/12/26	AT&T	203.96
5343	8/12/26	Bay Alarm	1,106.67
5344	8/12/26	Bay Central Printing	1,177.27
5345	8/12/26	Beck's Shoes	250.00
5346	8/12/26	California Department of Public Health	200.00
5347	8/12/26	Cintas	2,193.29
5348	8/12/26	Clarke	28,772.85
5349	8/12/26	Columbia Bank	30,950.10
5350	8/12/26	Coverall North America, Inc.	650.00
5351	8/12/26	PC Professional	787.50
5352	8/12/26	PG&E	124.50
5353	8/12/26	Quadient Finance USA, Inc	1,049.00
5354	8/12/26	Voya Institutional Trust Company	191.51
ACH	8/12/26	Alameda County Mosquito Abatement Dist (Payroll)	131,690.65
ACH	8/12/26	CalPERS Retirement	25,579.65
ACH	8/12/26	CalPERS 457	4,546.41
ACH	8/12/26	Enterprise	35,053.46
Total Expenditures - August 15, 2026			270,900.07

Alameda County Mosquito Abatement Dist.

Check Register

For the Period From Aug 16, 2026 to Aug 31, 2026

Filter Criteria includes: Report order is by Date.

Check #	Date	Payee	Amount
5355	8/26/26	Airgas	7,853.00
5356	8/26/26	Alco Sheet Metal and Heating, Inc.	485.00
5357	8/26/26	Beck's Shoes	242.53
5358	8/26/26	Cintas	1,039.09
5359	8/26/26	Delta Dental	5,337.80
5360	8/26/26	PC Professional	1,976.00
5361	8/26/26	PFM Asset Management LLC	2,140.43
5362	8/26/26	The Hartford	122.20
5363	8/26/26	Verizon	438.19
5364	8/26/26	Voya Institutional Trust Company	191.51
5365	8/26/26	VSP	624.38
ACH	8/26/26	Alameda County Mosquito Abatement Dist (Payroll)	146,372.39
ACH	8/26/26	CalPERS Health	55,636.20
ACH	8/26/26	CalPERS Retirement	25,579.65
ACH	8/26/26	CalPERS 457	4,546.41
ACH	8/26/26	Clarke	28,772.85
ACH	8/26/26	WEX Bank	5,492.99
ACH	8/26/26	WEX Bank	482.65
Total Expenditures - August 31, 2026			287,333.27

Check #5348 voided on 8/26/26.



BL ACCT [REDACTED]
ACMAD
Account Number: [REDACTED]
Page 1 of 5



Account Summary

Billing Cycle		07/31/2026
Days In Billing Cycle		31
Previous Balance		\$28,422.17
Purchases	+	\$31,003.66
Cash	+	\$0.00
Balance Transfers	+	\$0.00
Special	+	\$0.00
Credits	-	\$54.40-
Payments	-	\$28,422.17-
Other Charges	+	\$0.84
Finance Charges	+	\$0.00

NEW BALANCE **\$30,950.10**

Credit Summary

Total Credit Line	\$105,000.00
Available Credit Line	\$74,049.90
Available Cash	\$0.00
Amount Over Credit Line	\$0.00
Amount Past Due	\$0.00
Disputed Amount	\$0.00

Account Inquiries



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Payment Summary

NEW BALANCE **\$30,950.10**

MINIMUM PAYMENT **\$30,950.10**

PAYMENT DUE DATE **08/25/2026**

NOTE: Grace period to avoid a finance charge on purchases, pay entire new balance by payment due date. Finance charge accrues on cash advances until paid and will be billed on your next statement.

Corporate Activity

TOTAL CORPORATE ACTIVITY				\$28,422.17-
Trans Date	Post Date	Reference Number	Transaction Description	Amount
07/20	07/20	0000000LBX2607203552010	PAYMENT - THANK YOU	\$28,422.17-

Cardholder Account Summary

ERIC HAAS-STAPLETON [REDACTED]	Payments & Other Credits \$0.00	Purchases & Other Charges \$6,119.07	Cash Advances \$0.00	Total Activity \$6,119.07
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Cardholder Account Detail

Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
07/02	07/03	PPLN01	24692166183402568114655	TFS*LIFETECHNOLOGIES 800-955-6288 CA	\$5,875.20
07/07	07/08	PPLN01	24793386188000821499074	Adobe Inc 800-8336687 CA	\$19.99
07/23	07/24	PPLN01	24204296204001978785228	Dropbox DH1VGH8CSVCC 141-58576933 CA	\$203.88

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Account Number

Check box to indicate
name/address change ☐
on back of this coupon

AMOUNT OF PAYMENT ENCLOSED

Closing Date

07/31/26

New Balance

\$30,950.10

Total Minimum
Payment Due

\$30,950.10

Payment Due Date

08/25/26

\$



BL ACCT [REDACTED]
ACMAD
23187 CONNECTICUT ST
HAYWARD CA 94545

MAKE CHECK PAYABLE TO:



COLUMBIA BANK
PO BOX 35142 - LB1181
SEATTLE WA 98124-5142

BL ACCT 00003347-20000001

ACMAD

Account Number: [REDACTED]

Page 3 of 5

Cardholder Account Detail Continued

Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
07/29	07/30	PPLN01	24011346210100148824756	ANTHROPIC* CLAUDE SUB ANTHROPIC.COM CA	\$20.00

Cardholder Account Summary

RYAN CLAUSNITZER [REDACTED]	Payments & Other Credits \$0.00	Purchases & Other Charges \$1,690.60	Cash Advances \$0.00	Total Activity \$1,690.60
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Cardholder Account Detail

Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
07/01	07/02	PPLN01	24692166183402409639696	SQ *IVIE TRANSPORTATION Alameda CA	\$140.16
06/30	07/02	PPLN01	24692166182401556764894	TST*BILLY GOAT TAVERN - Chicago IL	\$19.08
07/01	07/03	PPLN01	24692166183402705334893	SHERATON GRAND CHICAGO CHICAGO IL	\$1,112.92
07/02	07/03	PPLN01	24137466183501298400750	TST* BRAVO RESTED DEBEVIC CHICAGO IL	\$31.70
07/06	07/08	PPLN01	24137466188501109676890	TRADER JOE S #084 CASTRO VALLEY CA	\$44.09
07/10	07/12	PPLN01	24493986192234198045020	SF CHRONICLE SUBSCRIPT 800-310-2455 CA	\$35.96
07/16	07/17	PPLN01	24493986197235715033055	EAST BAY TIMES HTTP://WWW.EA CA	\$26.00
07/16	07/19	PPLN01	24122476198900010700050	KOREAN BBQ LIVERMORE CA	\$98.28
07/23	07/24	PPLN01	24692166204409917449687	MARRIOTT DESERT SPRING PALM DESERT CA	\$182.41

Cardholder Account Summary

MICHELLE ROBLES [REDACTED]	Payments & Other Credits \$0.00	Purchases & Other Charges \$6,467.66	Cash Advances \$0.00	Total Activity \$6,467.66
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Cardholder Account Detail

Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
07/07	07/08	PPLN01	24064666188100049231692	AMCA* INV-7294 MOSQUITO.ORG CA	\$5,250.00
07/09	07/12	PPLN01	24071056191939139930741	GOVERNMENT FINANCE OFF 312-5784406 IL	\$250.00
07/18	07/19	PPLN01	24692166199405044688202	AMAZON MKTPL*UB0E498Z3 Amzn.com/bill WA	\$48.92
07/21	07/22	PPLN01	24692166202408296022539	WM.COM 866-909-4458 TX	\$371.04
07/27	07/27	PPLN01	24692166208403370755421	AMAZON MKTPL*2R0NZ7JZ3 Amzn.com/bill WA	\$204.38
07/29	07/30	PPLN01	24692166210405430493527	QUADIENT INC ORACLE 800-636-7678 CT	\$343.32

Cardholder Account Summary

ROBERT FERDAN [REDACTED]	Payments & Other Credits \$0.00	Purchases & Other Charges \$1,506.39	Cash Advances \$0.00	Total Activity \$1,506.39
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Cardholder Account Detail

Trans Date	Post Date	Plan Name	Reference Number	Description	Amount
07/01	07/02	PPLN01	24069276182100075533093	US MOBILE WWW.USMOBILE. NY	\$25.00
07/01	07/02	PPLN01	24492166183100012156999	TIMESCALE TIGERDATA.COM NY	\$18.37
07/10	07/12	PPLN01	24692166191407414729119	COMCAST / XFINITY 800-266-2278 CA	\$277.52
07/10	07/12	PPLN01	24793386191000419090066	GoTo GoToConnect Boston MA	\$339.73
07/13	07/14	PPLN01	24069276194100104390362	WWW.USMOBILE.COM 187-82050088 NY	\$550.00
07/20	07/21	PPLN01	24492166202100012365381	SMTP2GO, I* SMTP2GO EM SMTP2GO.COM TX	\$150.00
07/27	07/28	PPLN01	24204296208001387116078	STARLINK INTERNET 310-6829683 CA	\$130.00
07/30	07/31	PPLN01	24692166211406475524944	AMAZON MKTPL*Q27OV9JO3 Amzn.com/bill WA	\$15.77

Cardholder Account Summary						
ERIKA CASTILLO [REDACTED]			Payments & Other Credits \$41.23-	Purchases & Other Charges \$418.11	Cash Advances \$0.00	Total Activity \$376.88
Cardholder Account Detail						
Trans Date	Post Date	Plan Name	Reference Number	Description		Amount
07/09	07/10	PPLN01	24755426191151914167816	SIGNWORKS INC 510-3572000 CA		\$376.88
07/09	07/10	PPLN01	24692166190406555298299	AMAZON MKTPL*CI15C2QY3 Amzn.com/bill WA		\$41.23
07/13	07/14		74692166194400586084316	CREDIT VOUCHER AMAZON MKTPLACE PMTS Amzn.com/bill WA		\$41.23-

Cardholder Account Summary							
MARK WIELAND [REDACTED]				Payments & Other Credits \$0.00	Purchases & Other Charges \$4,761.16	Cash Advances \$0.00	Total Activity \$4,761.16
Cardholder Account Detail							
Trans Date	Post Date	Plan Name	Reference Number	Description	Amount		
07/01	07/01	PPLN01	24011346182100057137467	AMAZON RETA* 5M6FT6Q33 WWW.AMAZON.CO WA	\$3.08		
07/02	07/05	PPLN01	24251386184030054960418	LOS RAYOS TIRES INC HAYWARD CA	\$410.00		
07/09	07/10	PPLN01	24755426191131919471801	GRAINGER 800-4724643 IL	\$76.40		
07/09	07/10	PPLN01	24011346190100087765246	AMAZON RETA* AY21J6A43 WWW.AMAZON.CO WA	\$17.97		
07/09	07/10	PPLN01	24692166190406333721679	AMAZON MKTPL*1A1991TM3 Amzn.com/bill WA	\$28.78		
07/14	07/15	PPLN01	24011346195100101368535	AMAZON RETA* A12RF6F23 WWW.AMAZON.CO WA	\$54.53		
07/14	07/15	PPLN01	24755426195271959101391	INSTA LUBE HAYWARD CA	\$119.00		
07/15	07/16	PPLN01	24011346196100088406612	AMAZON RETA* 4J3C10KE3 WWW.AMAZON.CO WA	\$24.03		
07/16	07/16	PPLN01	24011346197100056186559	AMAZON RETA* VJ4IH6NK3 WWW.AMAZON.CO WA	\$265.80		
07/15	07/16	PPLN01	24431066196468242034232	BLUE BEE PRINTING 877-888-8676 CA	\$53.33		
07/16	07/17	PPLN01	24692166197402983055982	AMAZON MKTPL*SL69C7H03 Amzn.com/bill WA	\$34.71		
07/16	07/17	PPLN01	24755426197281977955486	INSTA LUBE HAYWARD CA	\$139.00		
07/20	07/21	PPLN01	24755426202732024823021	GRAINGER 800-4724643 IL	\$792.01		
07/20	07/21	PPLN01	24755426201262013868440	INSTA LUBE HAYWARD CA	\$148.00		
07/21	07/22	PPLN01	24755426203732034010204	GRAINGER 800-4724643 IL	\$90.70		
07/21	07/22	PPLN01	24011346202100131988386	AMAZON RETA* 6A5QE04T3 WWW.AMAZON.CO WA	\$104.40		
07/20	07/22	PPLN01	24183106202900014623525	HAYWARD FALSE ALARM PGM 877-2636027 FL	\$25.00		
07/23	07/24	PPLN01	24692166204409771962080	AMAZON MKTPL*X44N47G83 Amzn.com/bill WA	\$34.73		
07/23	07/24	PPLN01	24692166204409726066672	AMAZON MKTPL*KH15Y1C13 Amzn.com/bill WA	\$17.71		
07/24	07/26	PPLN01	24011346205100108158374	AMAZON RETA* PD0BK3CW3 WWW.AMAZON.CO WA	\$149.13		
07/27	07/28	PPLN01	24692166208403920181029	AMAZON MKTPL*D160L7UB3 Amzn.com/bill WA	\$586.89		
07/28	07/28	PPLN01	24692166209404167527790	AMAZON MKTPL*E64U85S53 Amzn.com/bill WA	\$6.62		
07/28	07/29	PPLN01	24064666210100000682281	LINE-X KUSTOMS AND A 140-86752393 CA	\$1,350.66		
07/30	07/30	PPLN01	24011346211100054077265	AMAZON RETA* MN9OP12G3 WWW.AMAZON.CO WA	\$159.09		
07/29	07/30	PPLN01	24692166210405801067777	AMAZON MKTPL*XS0BN0SC3 Amzn.com/bill WA	\$37.61		
07/30	07/31	PPLN01	24692166211406479290104	AMAZON MKTPL*5N5A88G81 Amzn.com/bill WA	\$31.98		

Cardholder Account Summary						
MIGUEL BARRETTO [REDACTED]			Payments & Other Credits \$13.17-	Purchases & Other Charges \$9,511.74	Cash Advances \$0.00	Total Activity \$9,498.57
Cardholder Account Detail						
Trans Date	Post Date	Plan Name	Reference Number	Description	Amount	
07/08	07/09		74692166189405711270448	CREDIT VOUCHER	\$13.17-	
				AMAZON MKTPLACE PMTS Amzn.com/bill WA		
07/10	07/10	PPLN01	24036296191744816232726	LIFETECHCORP*16142038 800-955-6288 CA	\$7,890.50	
07/09	07/10	PPLN01	24692166190406183311050	AMAZON MKTPL*5C8298PP3 Amzn.com/bill WA	\$187.13	
07/09	07/10	PPLN01	24692166190406146048419	AMAZON MKTPL*WG5MK7QR3 Amzn.com/bill WA	\$8.58	
07/09	07/10	PPLN01	24692166190406423717983	AMAZON MKTPL*2O0P634N3 Amzn.com/bill WA	\$46.50	
07/09	07/10	PPLN01	24692166190406562522624	AMAZON MKTPL*XZ16T3YH3 Amzn.com/bill WA	\$262.65	
07/10	07/12	PPLN01	24055236191817284233210	WALMART.COM 800-925-6278 AR	\$226.47	
07/10	07/12	PPLN01	24055236191817284635315	WALMART.COM 800-925-6278 AR	\$97.86	
07/10	07/12	PPLN01	24445006191200343420381	WALMART.COM 8009256278 800-966-6546 AR	\$226.47	
07/10	07/12	PPLN01	74004766191191128486993	PAYPAL *ROUTEXL 4029357733	\$41.75	
07/10	07/12	PPLN01	74004766191191128486993	INTERNATIONAL TRANS FEE	\$0.84	
07/13	07/14	PPLN01	24692166194400243995065	AMAZON MKTPL*8X80H0393 Amzn.com/bill WA	\$9.40	
07/16	07/17	PPLN01	24692166197403306025439	AMAZON MKTPL*3C3N45363 Amzn.com/bill WA	\$513.59	

Cardholder Account Summary						
JUDITH PIERCE [REDACTED]			Payments & Other Credits \$0.00	Purchases & Other Charges \$529.77	Cash Advances \$0.00	Total Activity \$529.77
Cardholder Account Detail						
Trans Date	Post Date	Plan Name	Reference Number	Description	Amount	
07/08	07/09	PPLN01	24011346190100003653963	EVENTENY*SOUTH HAYWARD	\$111.91	
				EVENTENY.COM GA		
07/17	07/19	PPLN01	24492166199100021714244	SOLANO AVE ASSOCIATION	\$417.86	
				SOLANOAVENUEA CA		

Finance Charge Summary / Plan Level Information									
Plan Name	Plan Description	FCM ¹	Average Daily Balance	Periodic Rate *	Corresponding APR	Finance Charges	Effective APR Fees **	Effective APR	Ending Balance
Purchases									
PPLN01001	PURCHASE	E	\$0.00	0.06024%(D)	21.9900%	\$0.00	\$0.00	0.0000%	\$30,950.10
Cash									
CPLN01001	CASH	A	\$0.00	0.06572%(D)	23.9900%	\$0.00	\$0.00	0.0000%	\$0.00
* Periodic Rate (M)=Monthly (D)=Daily							Days In Billing Cycle: 31		
** includes cash advance and foreign currency fees							APR = Annual Percentage Rate		
¹ FCM = Finance Charge Method									
(V) = Variable Rate If you have a variable rate account the periodic rate and Annual Percentage Rate (APR) may vary.									

Alameda County Mosquito Abatement District

Income Statement

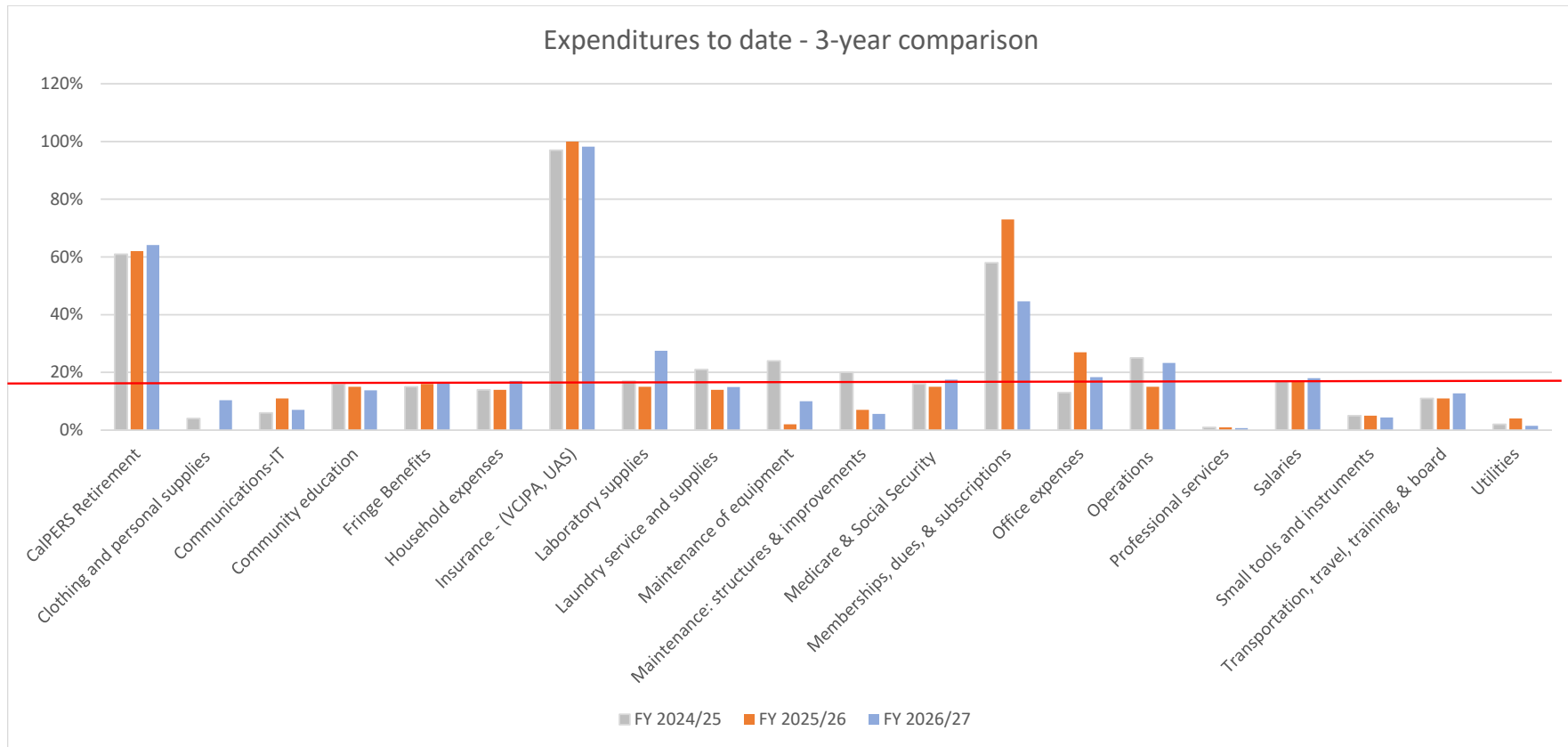
August 31, 2026. (2 of 12 mth, 17%)

REVENUES	Actual 2024/25	Actual 2025/26	Current Month	Year to Date 2026/27	Budget 2026/27	Actual vs Budget
Total Revenue	\$ 6,072,648.71	\$ 6,320,813.39	\$ 465,756.45	\$ 599,507.57	\$ 6,203,929.00	10%

EXPENDITURES	Actual 2024/25	Actual 2025/26 ¹	Current Month ²	Year to Date 2026/27	Budget 2026/27	Actual vs Budget
Salaries	\$ 2,772,651.71	\$ 3,075,605.42	\$ 303,815.22	\$ 591,714.81	\$3,284,676	18%
CalPERS Retirement	\$ 642,174.44	\$ 735,784.72	\$ 30,166.88	\$ 519,426.46	\$809,709	64%
Medicare & Social Security	\$ 41,023.63	\$ 43,736.73	\$ 4,716.08	\$ 9,263.29	\$52,929	18%
Fringe Benefits	\$ 647,038.97	\$ 722,438.11	\$ 61,720.58	\$ 127,597.25	\$785,997	16%
Total Salaries, Retirement, & Benefits	\$ 4,102,888.75	\$ 4,577,564.98	\$ 400,418.76	\$ 1,248,001.81	\$4,933,311	25%
Clothing and personal supplies (purchased)	\$ 5,265.29	\$ 5,754.52	\$ 935.26	\$ 935.26	\$9,000	10%
Laundry service and supplies (rented)	\$ 15,480.21	\$ 14,755.61	\$ 1,437.08	\$ 2,891.41	\$19,360	15%
Utilities	\$ 24,086.45	\$ 33,596.37	\$ 495.54	\$ 495.54	\$33,700	1%
Communications-IT	\$ 96,177.28	\$ 82,352.31	\$ 5,197.66	\$ 9,987.11	\$141,988	7%
Maintenance: structures & improvements	\$ 20,386.45	\$ 21,321.66	\$ 1,087.12	\$ 1,374.12	\$24,500	6%
Maintenance of equipment	\$ 28,919.62	\$ 30,747.24	\$ 2,992.73	\$ 2,992.73	\$30,000	10%
Transportation, travel, training, & board	\$ 123,545.44	\$ 123,580.77	\$ 7,866.24	\$ 13,934.64	\$109,430	13%
Professional services	\$ 108,488.78	\$ 106,446.48	\$ -	\$ 774.00	\$109,910	1%
Memberships, dues, & subscriptions	\$ 38,951.94	\$ 40,626.00	\$ 5,525.00	\$ 18,294.00	\$41,000	45%
Insurance - (VCJPA, UAS)	\$ 196,831.00	\$ 230,409.00	\$ -	\$ 260,077.62	\$264,693	98%
Community education	\$ 57,197.03	\$ 49,903.83	\$ 1,707.04	\$ 7,804.23	\$56,500	14%
Operations	\$ 297,510.58	\$ 332,768.63	\$ 33,993.67	\$ 91,482.38	\$392,500	23%
Household expenses	\$ 21,734.78	\$ 23,754.90	\$ 1,987.21	\$ 3,946.68	\$23,200	17%
Office expenses	\$ 13,509.73	\$ 4,261.46	\$ 1,663.59	\$ 1,746.09	\$9,500	18%
Laboratory supplies	\$ 135,143.14	\$ 140,028.40	\$ 26,048.38	\$ 37,296.33	\$135,800	27%
Small tools and instruments	\$ 1,365.22	\$ 1,626.50	\$ 88.73	\$ 88.73	\$2,000	4%
Total Staff Budget	\$ 1,184,592.94	\$ 1,241,933.68	\$ 91,025.25	\$ 454,120.87	\$1,403,081	32%
Total Operating Expenditures	\$ 5,287,481.69	\$ 5,819,498.66	\$ 491,444.01	\$ 1,702,122.68	\$6,336,392	27%

1 - As of June 30, 2026. Unaudited.

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



The red line indicates the estimated percentage of the budget that should be expended at this point in the fiscal year (17%).
 CalPERS Retirement, Insurance, and Memberships, dues & subscriptions are paid upfront at the beginning of the fiscal year.

**Alameda County Mosquito Abatement District
Investment, Reserves, and Cash Balance Report
August 31, 2026 (2 of 12 mth, 17%)**

Account #	Investment Accounts	Beginning Balance	Deposits	Withdrawals	Earnings ¹	Ending Balance
1004	LAIF	\$ 121,864.87	\$ -	\$ -	\$ -	\$ 121,864.87
1005	OPEB	\$ 5,769,102.86	\$ -	\$ -	\$ (82,757.00)	\$ 5,686,345.86
1006	VCJPA Member Contingency ²	\$ 382,331.00	\$ -	\$ -	\$ -	\$ 382,331.00
1012	PARS: Pension Stabilization ³	\$ 3,443,103.41	\$ -	\$ (130,602.00)	\$ (31,301.09)	\$ 3,281,200.32
1014	California CLASS: Operational Fund ⁴	\$ 3,544,655.88	\$ -	\$ (494,407.03)	\$ 10,739.15	\$ 3,060,988.00
1015	California CLASS: Repair and Replace Fund ⁵	\$ 4,043,761.72	\$ -	\$ (35,053.46)	\$ 12,806.20	\$ 4,021,514.46
1017	California CLASS Enhanced: Public Health Emergency Fund	\$ 501,655.58	\$ -	\$ -	\$ 1,637.19	\$ 503,292.77
1018	California CLASS Enhanced: District Contingency Fund	\$ 2,140,291.60	\$ -	\$ -	\$ 6,985.06	\$ 2,147,276.66
1019	CAMP: New Asset & Large Project Fund	\$ 52,943.39	\$ -	\$ -	\$ 170.61	\$ 53,114.00
Total		\$ 19,999,710.31	\$ -	\$ (660,062.49)	\$ (81,719.88)	\$ 19,257,927.94

	Cash Accounts	Beginning Balance	Withdrawals	Activity	Ending Balance
1003	County Account	\$ 379,111.52	\$ -	\$ 304,692.94	\$ 683,804.46
1020	Five Star Bank (Transfer Account) * ⁴	\$ 700,077.29	-	-	\$ 443,671.30
1021	Five Star Bank (Payroll Account) *	\$ 6,703.03	-	-	\$ 134,158.62
1022	Petty Cash	\$ 464.61	\$ -	\$ -	\$ 464.61
Total		\$ 1,086,356.45			\$ 1,262,098.99

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 June 30, 2026.

3 - PARS - Pension Stabilization balance is as of July 31, 2026. The District withdrew \$130,602.00 from PARS to reimburse the General Fund to help offset pension costs.

4 - \$494,407.03 transferred from the CA CLASS: Operational Fund to Five Star Bank for August expenditures.

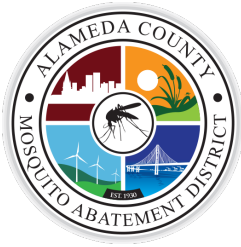
5 - \$35,053.46 transferred from the CA CLASS: Repair and Replace Fund to Five Star Bank for capital asset purchases.

* - Ending balance may differ from the Balance Sheet due to outstanding checks and timing differences between bank activity and general ledger transactions.

Alameda County Mosquito Abatement District
Balance Sheet Comparison
August

ASSETS			
	8/31/2026	8/31/2025	8/31/2024
Current Assets			
County	683,804.46	672,839.78	674,750.44
Cash with LAIF	121,864.87	116,987.12	111,816.09
VCJPA- Member Contingency	382,331.00	341,573.00	324,583.00
CAMP - Capital Reserve Fund ¹	-	187,449.83	357.84
PARS	3,281,200.32	3,220,120.41	3,043,474.86
California CLASS: Operational Fund	3,060,988.00	2,866,837.09	2,181,094.76
California CLASS: Repair and Replace Fund	4,021,514.46	3,872,066.40	3,967,593.43
California CLASS Enhanced: Public Health Emergency Fund	503,292.77	504,228.10	512,235.53
California CLASS Enhanced: District Contingency Fund	2,147,276.66	2,069,812.99	2,153,042.62
CAMP: New Project & New Assets Fund ¹	53,114.00	-	-
Five Star Bank - Transfer account	404,611.87	226,334.73	202,175.50
Five Star Bank - Payroll account	134,159.42	128,844.42	138,269.08
Petty cash	464.61	276.91	423.88
Total Current Assets	14,794,622.44	14,207,370.78	13,309,817.03
Property and Equipment			
Acc Dep - equipment	(1,813,681.00)	(1,813,681.00)	(1,850,929.00)
Acc Dep - stru & improv	(3,066,026.00)	(3,066,026.00)	(2,952,544.00)
Construction in progress	-	-	-
Equipment	2,467,332.11	2,306,435.37	1,907,287.37
Structure/improvement	5,561,302.53	5,486,746.00	5,460,618.00
Land	61,406.00	61,406.00	61,406.00
Total Property and Equipment	3,210,333.64	2,974,880.37	2,625,838.37
Other Assets			
Net OPEB Asset	1,834,317.00	1,834,317.00	1,696,641.00
Total Other Assets	1,834,317.00	1,834,317.00	1,696,641.00
Total Assets	\$ 19,839,273.08	\$ 19,016,568.15	\$ 17,632,296.40
LIABILITIES AND CAPITAL			
Current Liabilities			
Accounts payable	\$ 199,671.26	\$ 256,584.43	\$ 278,927.36
Acc payroll/vacation	270,305.53	270,305.53	237,815.12
Def inflow - 75	446,445.00	446,445.00	456,612.00
Def inflow pen defer GASB 68	56,801.00	56,801.00	143,333.00
Defer outflow pen cont GASB 68	(1,487,647.00)	(1,487,647.00)	(1,873,501.00)
Net pension liability GASB 68	4,693,033.00	4,693,033.00	4,694,889.00
Total Current Liabilities	\$ 4,178,608.79	\$ 4,235,521.96	\$ 3,938,075.48
Total Liabilities	4,178,608.79	4,235,521.96	3,938,075.48
Capital			
Designated fund balances	4,011,139.17	4,011,139.17	4,134,634.17
Investment in general fixed as	12,930,963.81	11,715,842.44	10,488,439.90
Net Income	(1,281,438.69)	(945,935.42)	(928,853.15)
Total Capital	15,660,664.29	14,781,046.19	13,694,220.92
Total Liabilities & Capital	\$ 19,839,273.08	\$ 19,016,568.15	\$ 17,632,296.40

1 - The Board approved renaming the CAMP: Capital Reserve Fund to the CAMP: New Asset & Large Project Fund. CAMP cannot change existing fund names due to audit and compliance requirements, so a new account was created, the funds were transferred, and the original Capital Reserve Fund was closed.



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Pleasanton

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San Leandro

Subru Bhat

Union City

Ryan Clausnitzer

General Manager

Background:

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

Employee	Job Title	Years of Service	Anniversary Date
Sarah Lawton	Vector Biologist	11	September 14 th
Ben Rusmisl	Vector Biologist	11	September 28 th

California Arbovirus Surveillance Bulletin #21

Week 34 Friday, August 28, 2026



WEEKLY UPDATE

Humans

A total of 19 new human cases of West Nile Virus (WNV) were reported this week in 9 counties: Butte (2), Glenn (1), Kings (1), Los Angeles (6), Orange (1), Riverside (1), Sacramento (5), Tuolumne (1), Yolo (1). **This is the first human case of WNV disease reported from Riverside County and the first detection of WNV activity in Tuolumne County this year.** In 2026, 65 human cases of WNV disease have been reported from 16 counties. Of the 65 case patients, 55 (85%) had neuroinvasive disease and 5 (7.7%) were fatal. The median age of case patients was 66 years and 38 (58%) of the case patients were male. The dates of symptom onset ranged from June 8 to August 13. In addition to the 65 cases of WNV disease, 8 asymptomatic WNV infections have been reported from 5 counties: Fresno (2), Kern (1), Los Angeles (2), Madera (1), and San Diego (2). At this time last year, 17 human cases of WNV disease had been reported from 8 counties.

Dead Birds

A total of 44 new WNV positive dead birds were reported this week from 11 counties: Alameda (1), El Dorado (1), Los Angeles (10), Orange (16), Placer (1), Riverside (1), Sacramento (2), San Bernardino (1), San Diego (3), Santa Clara (3), and Yolo (5). **This is the first detection of WNV activity in El Dorado County this year.** In 2026, 481 WNV positive dead birds have been reported from 23 counties. At this time last year, 97 WNV positive dead birds had been reported from 14 counties.

Mosquito Pools

West Nile virus

A total of 357 new WNV positive mosquito pools were reported from 21 counties: Alameda (2), Butte (2), Fresno (9), Imperial (1), Kern (11), Lake (1), Los Angeles (72), Madera (21), Merced (23), Orange (107), Placer (8), Riverside (1), Sacramento (4), San Bernardino (6), San Joaquin (22), Shasta (5), Solano (4), Stanislaus (23), Sutter (1), Tulare (27) and Yolo (7). In 2026, 3,001 WNV positive mosquito pools have been reported from 29 counties. At this time last year, 1,712 WNV positive mosquito pools had been reported from 26 counties.

St. Louis encephalitis virus

There were no new SLEV positive mosquito pools reported this week. In 2026, 3 SLEV positive mosquito pools have been reported from 2 counties: Imperial (1) and Riverside (2). At this time last year, 65 SLEV positive mosquito pool had been reported from 3 counties.

Sentinel Chickens

A total of 42 new WNV positive sentinel chickens were reported this week from 5 counties: Los Angeles (22), Butte (8), Sutter (7), Tehama (4), Lake (1). **These are the first WNV positive sentinel chickens reported from Lake County and the first detection of WNV activity in Tehama County this year.** In 2026, 106 WNV positive sentinel chickens have been reported from 9 counties. At this time last year, 20 positive chickens had been reported from 9 counties.

California Arbovirus Surveillance Bulletin #21

Week 34 Friday, August 28, 2026

2025 & 2026 YTD West Nile Virus Comparisons		
	2025	2026
Total No. Dead Bird Reports	6,003	7,399
No. Positive Counties	29	36
No. Human Cases	17	65
No. Positive Dead Birds / No. Tested	97 / 1,249	481 / 1,665
No. Positive Mosquito Pools / No. Tested	1,712 / 32,499	3,001 / 41,132
No. Seroconversions / No. Tested	20 / 2,422	106 / 2,860

YTD WNV Activity by Element and County, 2026					
County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			34	9	
Butte	11			28	26
Colusa		1	9	1	
Contra Costa				2	4
El Dorado			1		
Fresno	9	1	3	121	
Glenn	3			1	
Imperial				7	
Kern	1			100	
Kings	6	1		83	
Lake				5	1
Los Angeles	11		96	432	42
Madera			2	496	
Merced		1	2	58	
Napa			1		
Orange	4		36	673	
Placer		1	8	107	
Riverside	1		4	48	
Sacramento	7		101	102	
San Bernardino			13	88	
San Diego	2		34	33	
San Joaquin	1	1	5	117	
San Luis Obispo		1			
San Mateo			9		
Santa Clara	1		92	3	
Shasta				16	2
Solano			2	6	
Sonoma			1		
Stanislaus		1		113	
Sutter			3	19	16
Tehama					4
Tulare	4			259	7
Tuolumne	1				
Ventura			6	1	
Yolo	2		16	67	
Yuba	1		3	6	4
Totals	65	8	481	3,001	106

*Asymptomatic infections are not included

California Arbovirus Surveillance Bulletin #21

Week 34 Friday, August 28, 2026

TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	19	0	0
	YTD	65	0	0

Positive / Total Tested					
WNV	SLEV	WEEV	CHIK	DENV	ZIKA

Dead Birds	Week	44 / 106
	YTD	481 / 1,665

Chicken Sera	Week	42 / 275	0 / 275	0 / 275
	YTD	106 / 2,860	0 / 2,860	0 / 2,860

Mosquito Pools	Week	357 / 2,147	0 / 1,519	0 / 1,519	0 / 78	0 / 78	0 / 78
	YTD	3,001 / 41,132	3 / 34,406	0 / 34,369	0 / 1,014	0 / 1,014	0 / 1,014

POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Newark	94560	American Crow	8/23/2026	WNV
El Dorado	El Dorado Co Env Management	El Dorado Hills	95762	Sparrow	8/19/2026	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	San Pedro	90731	American Crow	8/18/2026	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Artesia	90701	American Crow	8/19/2026	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Montebello	90640	American Crow	8/19/2026	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Downey	90242	American Crow	8/19/2026	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Carson	90746	American Crow	8/20/2026	WNV
Los Angeles	Los Angeles Co West VCD	Los Angeles	90007	American Crow	8/20/2026	WNV
Los Angeles	Los Angeles Co West VCD	Culver City	90230	American Crow	8/21/2026	WNV
Los Angeles	Los Angeles Co West VCD	Los Angeles	90035	American Crow	8/23/2026	WNV
Los Angeles	Compton Creek MAD	Compton	90220	American Crow	8/25/2026	WNV
Los Angeles	San Gabriel Valley MVCD	Alhambra	91801	Unknown - songbird	8/25/2026	WNV
Orange	Orange Co VCD	Cypress	90630	American Crow	8/3/2026	WNV
Orange	Orange Co VCD	Anaheim	92805	American Crow	8/5/2026	WNV
Orange	Orange Co VCD	Orange	92868	American Crow	8/5/2026	WNV
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	8/5/2026	WNV
Orange	Orange Co VCD	Fountain valley	92708	American Crow	8/8/2026	WNV
Orange	Orange Co VCD	Buena Park	90620	American Crow	8/8/2026	WNV
Orange	Orange Co VCD	Santa Ana	92705	American Crow	8/8/2026	WNV
Orange	Orange Co VCD	Huntington beach	92647	Common Raven	8/8/2026	WNV
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	8/8/2026	WNV
Orange	Orange Co VCD	Orange	92866	American Crow	8/9/2026	WNV
Orange	Orange Co VCD	Cypress	90630	American Crow	8/9/2026	WNV
Orange	Orange Co VCD	Cypress	90630	American Crow	8/9/2026	WNV
Orange	Orange Co VCD	Orange	92868	American Crow	8/11/2026	WNV

California Arbovirus Surveillance Bulletin #21

Week 34 Friday, August 28, 2026

Orange	Orange Co VCD	Huntington Beach	92648	American Crow	8/12/2026	WNV
Orange	Orange Co VCD	Orange	92866	American Crow	8/16/2026	WNV
Orange	Orange Co VCD	Santa Ana	92704	American Crow	8/20/2026	WNV
Placer	Placer MVCD	Truckee	96161	Red Crossbill	8/20/2026	WNV
Riverside	Northwest Mosquito VCD	Jurupa Valley	92509	American Crow	8/20/2026	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	House Finch	8/21/2026	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95814	American Crow	8/25/2026	WNV
San Bernardino	West Valley MVCD	Ontario	91764	American Crow	8/28/2026	WNV
San Diego	San Diego Co VCP	san diego	92104	American Crow	8/20/2026	WNV
San Diego	San Diego Co VCP	san diego	92123	American Crow	8/22/2026	WNV
San Diego	San Diego Co VCP	Lakeside	92040	American Crow	8/23/2026	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	House Finch	8/18/2026	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	8/26/2026	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	8/26/2026	WNV
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	Rock Dove (Pigeon)	8/21/2026	WNV
Yolo	Sacramento-Yolo MVCD	Winters	95694	Mourning Dove	8/21/2026	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	American Crow	8/21/2026	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	American Crow	8/25/2026	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Northern Mockingbird	8/26/2026	WNV

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Alameda	ALCO 282951	38742	Cx erythrothorax	Newark	50	CO2-EVS	08/20/2026	WNV
Alameda	ALCO 282951	38744	Cx erythrothorax	Newark	43	CO2-EVS	08/20/2026	WNV
Butte	BUCO 116	395	Cx tarsalis	Nelson	50	CO2	08/19/2026	WNV
Butte	BUCO 49	390	Cx tarsalis	Biggs	23	CO2	08/19/2026	WNV
Fresno	CNSL 1909	302	Cx quinquefasciatus	Fresno	50	GRVD	08/21/2026	WNV
Fresno	CNSL 3002	252	Cx quinquefasciatus	Sanger	50	GRVD	08/19/2026	WNV
Fresno	CNSL 3203	294	Cx quinquefasciatus	Orange Cove	21	GRVD	08/20/2026	WNV
Fresno	CNSL 8036	265	Cx quinquefasciatus	Fresno	29	GRVD	08/20/2026	WNV
Fresno	CNSL 8264	273	Cx quinquefasciatus	Fresno	50	GRVD	08/21/2026	WNV
Fresno	FRNO 69	275	Cx tarsalis	Fresno	15	CO2	08/18/2026	WNV
Fresno	FRWS 300031	150	Cx tarsalis	Firebaugh	22	CO2	08/25/2026	WNV
Fresno	FRWS 4102	154	Cx tarsalis	Kerman	45	CO2	08/25/2026	WNV
Fresno	FRWS 4110	156	Cx tarsalis	Mendota	50	CO2	08/25/2026	WNV
Imperial	IMPR 454	153	Cx tarsalis	Seeley	7	CO2	08/26/2026	WNV
Kern	DLNO 204	221	Cx quinquefasciatus	Delano	41	BGSENT	08/20/2026	WNV
Kern	DLNO 229	225	Cx quinquefasciatus	Delano	50	BGSENT	08/20/2026	WNV
Kern	DLNO 230	209	Cx tarsalis	Mcfarland	50	CO2	08/19/2026	WNV
Kern	DLNO 230	210	Cx quinquefasciatus	Mcfarland	50	CO2	08/19/2026	WNV
Kern	DLNO 246	217	Cx quinquefasciatus	Mcfarland	50	CO2	08/20/2026	WNV
Kern	DLNO 38	222	Cx tarsalis	Delano	29	BGSENT	08/20/2026	WNV
Kern	DLNO 38	223	Cx quinquefasciatus	Delano	47	BGSENT	08/20/2026	WNV
Kern	DLNO 62	214	Cx tarsalis	Mcfarland	50	CO2	08/20/2026	WNV
Kern	DLNO 62	215	Cx stigmatosoma	Mcfarland	37	CO2	08/20/2026	WNV
Kern	KERN 2011	449	Cx quinquefasciatus	Bakersfield	48	GRVD	08/20/2026	WNV
Kern	KERN 45	456	Cx quinquefasciatus	Buttonwillow	44	CO2	08/20/2026	WNV
Lake	LAKE 131	433	Cx tarsalis	Lower Lake	41	CO2	08/25/2026	WNV
Los Angeles	GRLA 2097	723	Cx quinquefasciatus	La Mirada	24	GRVD	08/20/2026	WNV
Los Angeles	GRLA 2100	730	Cx quinquefasciatus	Norwalk	21	GRVD	08/20/2026	WNV
Los Angeles	GRLA 2123	707	Cx quinquefasciatus	Harbor City	50	GRVD	08/18/2026	WNV
Los Angeles	GRLA 2131	709	Cx quinquefasciatus	Wilmington	50	GRVD	08/18/2026	WNV
Los Angeles	GRLA 2145	736	Cx quinquefasciatus	Long Beach	26	GRVD	08/21/2026	WNV
Los Angeles	GRLA 2149	742	Cx quinquefasciatus	Long Beach	30	CO2	08/21/2026	WNV
Los Angeles	GRLA 2194	720	Cx quinquefasciatus	South El Monte	22	GRVD	08/19/2026	WNV
Los Angeles	GRLA 2221	715	Cx quinquefasciatus	Rowland Heights	30	GRVD	08/19/2026	WNV
Los Angeles	GRLA 2222	716	Cx quinquefasciatus	Rowland Heights	35	GRVD	08/19/2026	WNV
Los Angeles	GRLA 2228	717	Cx quinquefasciatus	Diamond Bar	18	GRVD	08/19/2026	WNV
Los Angeles	GRLA 2247	732	Cx quinquefasciatus	Pico Rivera	50	GRVD	08/20/2026	WNV
Los Angeles	GRLA 2268	729	Cx quinquefasciatus	Cerritos	41	GRVD	08/20/2026	WNV

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Los Angeles	GRLA 2270	735	Cx quinquefasciatus	Bellflower	20	GRVD	08/21/2026	WNV
Los Angeles	GRLA 2278	740	Cx quinquefasciatus	Long Beach	50	GRVD	08/21/2026	WNV
Los Angeles	GRLA 2312	710	Cx quinquefasciatus	San Pedro	25	GRVD	08/18/2026	WNV
Los Angeles	GRLA 2321	705	Cx quinquefasciatus	Carson	50	GRVD	08/18/2026	WNV
Los Angeles	GRLA 2414	5748	Cx quinquefasciatus	Granada Hills	19	GRVD	08/20/2026	WNV
Los Angeles	GRLA 2421	5747	Cx quinquefasciatus	Panorama City	50	GRVD	08/20/2026	WNV
Los Angeles	GRLA 2450	5736	Cx quinquefasciatus	Glendale	23	GRVD	08/18/2026	WNV
Los Angeles	GRLA 2574	5741	Cx quinquefasciatus	Sherman Oaks	50	GRVD	08/20/2026	WNV
Los Angeles	GRLA 2580	5740	Cx quinquefasciatus	Sherman Oaks	50	GRVD	08/20/2026	WNV
Los Angeles	GRLA 2637	5745	Cx quinquefasciatus	Van Nuys	39	BGSENT	08/20/2026	WNV
Los Angeles	GRLA 2650	5744	Cx quinquefasciatus	Van Nuys	50	GRVD	08/20/2026	WNV
Los Angeles	GRLA 2651	5742	Cx quinquefasciatus	Sepulveda Basin	50	GRVD	08/20/2026	WNV
Los Angeles	GRLA 2655	5743	Cx quinquefasciatus	Lake Balboa	50	BGSENT	08/20/2026	WNV
Los Angeles	GRLA 2889	738	Cx quinquefasciatus	Lakewood	50	GRVD	08/21/2026	WNV
Los Angeles	GRLA 2890	739	Cx quinquefasciatus	Lakewood	50	GRVD	08/21/2026	WNV
Los Angeles	GRLA 2953	725	Cx quinquefasciatus	Santa Fe Springs	32	GRVD	08/20/2026	WNV
Los Angeles	GRLA 2957	741	Cx quinquefasciatus	Hawaiian Gardens	35	GRVD	08/21/2026	WNV
Los Angeles	GRLA 3032	706	Cx quinquefasciatus	Carson	50	GRVD	08/18/2026	WNV
Los Angeles	GRLA 3032	712	Cx tarsalis	Carson	15	CO2	08/18/2026	WNV
Los Angeles	GRLA 3040	724	Cx quinquefasciatus	La Mirada	34	GRVD	08/20/2026	WNV
Los Angeles	GRLA 3041	728	Cx quinquefasciatus	Artesia	50	GRVD	08/20/2026	WNV
Los Angeles	GRLA 3042	718	Cx quinquefasciatus	Hacienda Heights	30	GRVD	08/19/2026	WNV
Los Angeles	GRLA 3045	713	Cx quinquefasciatus	Whittier	50	GRVD	08/19/2026	WNV
Los Angeles	GRLA 3046	734	Cx quinquefasciatus	Bellflower	38	GRVD	08/21/2026	WNV
Los Angeles	GRLA 3047	733	Cx quinquefasciatus	Downey	50	GRVD	08/21/2026	WNV
Los Angeles	GRLA 3048	731	Cx quinquefasciatus	Pico Rivera	46	GRVD	08/20/2026	WNV
Los Angeles	GRLA 3060	726	Cx quinquefasciatus	Norwalk	31	GRVD	08/20/2026	WNV
Los Angeles	GRLA 3067	703	Cx quinquefasciatus	Gardena	33	GRVD	08/18/2026	WNV
Los Angeles	GRLA 3068	708	Cx quinquefasciatus	Wilmington	50	GRVD	08/18/2026	WNV
Los Angeles	LACW 0	1744	Cx quinquefasciatus	Culver City	22	CO2	08/18/2026	WNV
Los Angeles	LACW 1001	1747	Cx quinquefasciatus	Rolling Hills Estates	32	GRVD	08/18/2026	WNV
Los Angeles	LACW 1002	1746	Cx quinquefasciatus	Torrance	23	GRVD	08/18/2026	WNV
Los Angeles	LACW 1009	1745	Cx quinquefasciatus	Los Angeles	33	GRVD	08/18/2026	WNV
Los Angeles	LACW 1048	1751	Cx quinquefasciatus	Inglewood	50	CO2	08/20/2026	WNV
Los Angeles	LACW 1048	1752	Cx quinquefasciatus	Inglewood	40	CO2	08/20/2026	WNV
Los Angeles	LACW 1054	1748	Cx quinquefasciatus	Inglewood	50	CO2	08/20/2026	WNV
Los Angeles	LACW 1054	1749	Cx quinquefasciatus	Inglewood	50	CO2	08/20/2026	WNV
Los Angeles	LACW 1054	1750	Cx quinquefasciatus	Inglewood	12	CO2	08/20/2026	WNV
Los Angeles	LACW 1117	1733	Cx erythrorhax	Playa Vista	50	CO2	08/18/2026	WNV
Los Angeles	SGVA 1022	557	Cx quinquefasciatus	Azusa	50	GRVD	08/25/2026	WNV
Los Angeles	SGVA 1071	569	Cx quinquefasciatus	Monterey Park	50	GRVD	08/25/2026	WNV
Los Angeles	SGVA 1076	562	Cx quinquefasciatus	Pomona	34	GRVD	08/25/2026	WNV
Los Angeles	SGVA 1682	575	Cx quinquefasciatus	El Monte	46	GRVD	08/26/2026	WNV
Los Angeles	SGVA 1683	577	Cx quinquefasciatus	San Gabriel	50	GRVD	08/26/2026	WNV
Los Angeles	SGVA 1684	585	Cx quinquefasciatus	West Covina	50	GRVD	08/27/2026	WNV
Los Angeles	SGVA 291	574	Cx quinquefasciatus	El Monte	38	GRVD	08/26/2026	WNV
Los Angeles	SGVA 297	551	Cx quinquefasciatus	Monterey Park	50	GRVD	08/25/2026	WNV
Los Angeles	SGVA 445	553	Cx quinquefasciatus	Rosemead	50	GRVD	08/25/2026	WNV
Los Angeles	SGVA 450	556	Cx quinquefasciatus	La Puente	50	GRVD	08/25/2026	WNV
Los Angeles	SGVA 469	582	Cx quinquefasciatus	Pomona	50	GRVD	08/25/2026	WNV
Los Angeles	SGVA 491	570	Cx quinquefasciatus	El Monte	36	GRVD	08/25/2026	WNV
Los Angeles	SGVA 505	563	Cx quinquefasciatus	Monterey Park	50	GRVD	08/25/2026	WNV
Los Angeles	SGVA 509	564	Cx quinquefasciatus	Glendora	50	GRVD	08/25/2026	WNV
Los Angeles	SGVA 62	549	Cx quinquefasciatus	Covina	50	GRVD	08/25/2026	WNV
Los Angeles	SGVA 64	558	Cx quinquefasciatus	West Covina	38	GRVD	08/25/2026	WNV
Los Angeles	SGVA 695	567	Cx quinquefasciatus	Rosemead	48	GRVD	08/25/2026	WNV
Los Angeles	SGVA 887	573	Cx quinquefasciatus	Alhambra	50	GRVD	08/26/2026	WNV
Los Angeles	SGVA 898	561	Cx quinquefasciatus	San Gabriel	44	GRVD	08/25/2026	WNV
Los Angeles	SGVA 915	550	Cx quinquefasciatus	San Dimas	50	GRVD	08/25/2026	WNV
Los Angeles	SGVA 953	547	Cx quinquefasciatus	Covina	50	GRVD	08/25/2026	WNV
Madera	MADR 1043	1320	Cx tarsalis	Madera	7	CO2	08/25/2026	WNV

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Madera	MADR 12356	1338	Cx tarsalis	Madera	50	CO2	08/26/2026	WNV
Madera	MADR 12388	1373	Cx tarsalis	Madera	21	CO2	08/27/2026	WNV
Madera	MADR 12391	1312	Cx quinquefasciatus	Madera	25	CO2	08/25/2026	WNV
Madera	MADR 12394	1347	Cx tarsalis	Firebaugh	21	CO2	08/26/2026	WNV
Madera	MADR 12610	1346	Cx tarsalis	Madera	50	CO2	08/26/2026	WNV
Madera	MADR 12611	1333	Cx tarsalis	Madera	50	CO2	08/26/2026	WNV
Madera	MADR 12620	1319	Cx quinquefasciatus	Parkwood	20	CO2	08/25/2026	WNV
Madera	MADR 12623	1328	Cx tarsalis	La Vina	50	CO2	08/26/2026	WNV
Madera	MADR 12633	1363	Cx tarsalis	Madera	47	CO2	08/27/2026	WNV
Madera	MADR 12683	1337	Cx tarsalis	Madera	6	CO2	08/26/2026	WNV
Madera	MADR 237	1305	Cx tarsalis	Madera	50	CO2	08/25/2026	WNV
Madera	MADR 358	1350	Cx tarsalis	Firebaugh	50	CO2	08/26/2026	WNV
Madera	MADR 634	1331	Cx tarsalis	Madera	50	CO2	08/26/2026	WNV
Madera	MADR 704	1365	Cx tarsalis	Madera	19	CO2	08/27/2026	WNV
Madera	MADR 726	1307	Cx tarsalis	Madera	50	CO2	08/25/2026	WNV
Madera	MADR 752	1352	Cx tarsalis	Firebaugh	50	CO2	08/26/2026	WNV
Madera	MADR 763	1380	Cx tarsalis	Madera	5	CO2	08/27/2026	WNV
Madera	MADR 766	1332	Cx tarsalis	Madera	10	CO2	08/26/2026	WNV
Madera	MADR 769	1311	Cx tarsalis	Madera	19	CO2	08/25/2026	WNV
Madera	MADR 773	1330	Cx quinquefasciatus	Madera	50	CO2	08/26/2026	WNV
Merced	MERC 1005	518	Cx pipiens	Atwater	40	CO2	08/26/2026	WNV
Merced	MERC 11	481	Cx tarsalis	Merced	18	CO2	08/20/2026	WNV
Merced	MERC 166255	510	Cx pipiens	Livingston	50	BGSENT	08/25/2026	WNV
Merced	MERC 166255	511	Cx pipiens	Livingston	28	BGSENT	08/25/2026	WNV
Merced	MERC 194778	471	Cx pipiens	Delhi	18	BGSENT	08/19/2026	WNV
Merced	MERC 242283	465	Cx pipiens	Delhi	32	CO2	08/19/2026	WNV
Merced	MERC 245171	514	Cx pipiens	Livingston	20	BGSENT	08/25/2026	WNV
Merced	MERC 335167	460	Cx pipiens	Delhi	50	CO2	08/19/2026	WNV
Merced	MERC 335167	461	Cx pipiens	Delhi	50	CO2	08/19/2026	WNV
Merced	MERC 335167	464	Cx tarsalis	Delhi	35	CO2	08/19/2026	WNV
Merced	MERC 369128	487	Cx tarsalis	Merced	13	CO2	08/20/2026	WNV
Merced	MERC 467428	499	Cx pipiens	Livingston	10	BGSENT	08/25/2026	WNV
Merced	MERC 506	494	Cx pipiens	Livingston	13	CO2	08/25/2026	WNV
Merced	MERC 506	495	Cx tarsalis	Livingston	50	CO2	08/25/2026	WNV
Merced	MERC 506	496	Cx tarsalis	Livingston	10	CO2	08/25/2026	WNV
Merced	MERC 532426	497	Cx pipiens	Livingston	12	BGSENT	08/25/2026	WNV
Merced	MERC 612	468	Cx tarsalis	Delhi	24	CO2	08/19/2026	WNV
Merced	MERC 638283	502	Cx pipiens	Livingston	50	BGSENT	08/25/2026	WNV
Merced	MERC 787357	506	Cx pipiens	Livingston	50	BGSENT	08/25/2026	WNV
Merced	MERC 787357	507	Cx pipiens	Livingston	50	BGSENT	08/25/2026	WNV
Merced	MERC 818438	483	Cx pipiens	Merced	50	CO2	08/20/2026	WNV
Merced	MERC 818438	485	Cx tarsalis	Merced	19	CO2	08/20/2026	WNV
Merced	MERC 934538	513	Cx pipiens	Livingston	27	BGSENT	08/25/2026	WNV
Orange	ORCO 1005	3100	Cx quinquefasciatus	Buena Park	49	GRVD	08/20/2026	WNV
Orange	ORCO 1006	3106	Cx quinquefasciatus	Cypress	52	GRVD	08/20/2026	WNV
Orange	ORCO 1006	3107	Cx quinquefasciatus	Cypress	52	GRVD	08/20/2026	WNV
Orange	ORCO 1006	3108	Cx quinquefasciatus	Cypress	52	GRVD	08/20/2026	WNV
Orange	ORCO 1006	3117	Cx quinquefasciatus	Cypress	50	GRVD	08/20/2026	WNV
Orange	ORCO 1006	3121	Cx quinquefasciatus	Cypress	18	GRVD	08/20/2026	WNV
Orange	ORCO 1006	3128	Cx quinquefasciatus	Cypress	26	GRVD	08/20/2026	WNV
Orange	ORCO 1008	3097	Cx quinquefasciatus	Fullerton	45	GRVD	08/20/2026	WNV
Orange	ORCO 1008	3189	Cx quinquefasciatus	Fullerton	39	GRVD	08/25/2026	WNV
Orange	ORCO 1008	3190	Cx quinquefasciatus	Fullerton	39	GRVD	08/25/2026	WNV
Orange	ORCO 1008	3195	Cx quinquefasciatus	Fullerton	16	GRVD	08/25/2026	WNV
Orange	ORCO 1008	3199	Cx quinquefasciatus	Fullerton	5	GRVD	08/25/2026	WNV
Orange	ORCO 1008	3201	Cx quinquefasciatus	Fullerton	13	GRVD	08/25/2026	WNV
Orange	ORCO 1008	3205	Cx quinquefasciatus	Fullerton	37	GRVD	08/25/2026	WNV
Orange	ORCO 1008	3207	Cx quinquefasciatus	Fullerton	27	GRVD	08/25/2026	WNV
Orange	ORCO 1008	3222	Cx quinquefasciatus	Fullerton	27	GRVD	08/25/2026	WNV
Orange	ORCO 1009	3098	Cx quinquefasciatus	Garden Grove	10	BGSENT	08/20/2026	WNV
Orange	ORCO 1009	3308	Cx quinquefasciatus	Garden Grove	35	GRVD	08/27/2026	WNV

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Orange	ORCO 1009	3313	Cx quinquefasciatus	Garden Grove	52	GRVD	08/27/2026	WNV
Orange	ORCO 1009	3320	Cx quinquefasciatus	Garden Grove	29	GRVD	08/27/2026	WNV
Orange	ORCO 1010	3206	Cx quinquefasciatus	Huntington Beach	26	GRVD	08/25/2026	WNV
Orange	ORCO 1010	3210	Cx quinquefasciatus	Huntington Beach	11	GRVD	08/25/2026	WNV
Orange	ORCO 1011	3244	Cx quinquefasciatus	La Habra	11	GRVD	08/25/2026	WNV
Orange	ORCO 1011	3250	Cx quinquefasciatus	La Habra	8	GRVD	08/25/2026	WNV
Orange	ORCO 1011	3254	Cx quinquefasciatus	La Habra	13	GRVD	08/25/2026	WNV
Orange	ORCO 1011	3255	Cx quinquefasciatus	La Habra	3	GRVD	08/25/2026	WNV
Orange	ORCO 1025	3168	Cx quinquefasciatus	Costa Mesa	19	GRVD	08/20/2026	WNV
Orange	ORCO 1025	3335	Cx quinquefasciatus	Costa Mesa	31	GRVD	08/27/2026	WNV
Orange	ORCO 1025	3337	Cx quinquefasciatus	Costa Mesa	16	GRVD	08/27/2026	WNV
Orange	ORCO 1025	3348	Cx quinquefasciatus	Costa Mesa	32	GRVD	08/27/2026	WNV
Orange	ORCO 1031	3127	Cx quinquefasciatus	Los Alamitos	49	GRVD	08/20/2026	WNV
Orange	ORCO 1031	3132	Cx quinquefasciatus	Los Alamitos	50	GRVD	08/20/2026	WNV
Orange	ORCO 1031	3133	Cx quinquefasciatus	Los Alamitos	26	GRVD	08/20/2026	WNV
Orange	ORCO 1033	3213	Cx quinquefasciatus	Tustin	17	GRVD	08/25/2026	WNV
Orange	ORCO 170	3197	Cx quinquefasciatus	Anaheim	17	GRVD	08/25/2026	WNV
Orange	ORCO 215	3299	Cx quinquefasciatus	La Habra	23	CO2	08/26/2026	WNV
Orange	ORCO 216	3292	Cx quinquefasciatus	Orange	9	CO2	08/26/2026	WNV
Orange	ORCO 217	3110	Cx quinquefasciatus	Santa Ana	46	GRVD	08/20/2026	WNV
Orange	ORCO 217	3111	Cx quinquefasciatus	Santa Ana	45	GRVD	08/20/2026	WNV
Orange	ORCO 217	3112	Cx quinquefasciatus	Santa Ana	50	GRVD	08/20/2026	WNV
Orange	ORCO 217	3119	Cx quinquefasciatus	Santa Ana	35	GRVD	08/20/2026	WNV
Orange	ORCO 217	3120	Cx quinquefasciatus	Santa Ana	30	GRVD	08/20/2026	WNV
Orange	ORCO 218	3101	Cx quinquefasciatus	Anaheim	41	GRVD	08/20/2026	WNV
Orange	ORCO 218	3102	Cx quinquefasciatus	Anaheim	40	GRVD	08/20/2026	WNV
Orange	ORCO 218	3103	Cx quinquefasciatus	Anaheim	40	GRVD	08/20/2026	WNV
Orange	ORCO 218	3104	Cx quinquefasciatus	Anaheim	25	GRVD	08/20/2026	WNV
Orange	ORCO 218	3130	Cx quinquefasciatus	Anaheim	44	GRVD	08/20/2026	WNV
Orange	ORCO 218	3135	Cx quinquefasciatus	Anaheim	38	GRVD	08/20/2026	WNV
Orange	ORCO 218	3136	Cx quinquefasciatus	Anaheim	38	GRVD	08/20/2026	WNV
Orange	ORCO 218	3137	Cx quinquefasciatus	Anaheim	37	GRVD	08/20/2026	WNV
Orange	ORCO 218	3140	Cx quinquefasciatus	Anaheim	30	GRVD	08/20/2026	WNV
Orange	ORCO 218	3141	Cx quinquefasciatus	Anaheim	29	GRVD	08/20/2026	WNV
Orange	ORCO 218	3159	Cx quinquefasciatus	Anaheim	47	GRVD	08/20/2026	WNV
Orange	ORCO 218	3309	Cx quinquefasciatus	Anaheim	50	GRVD	08/27/2026	WNV
Orange	ORCO 218	3310	Cx quinquefasciatus	Anaheim	50	GRVD	08/27/2026	WNV
Orange	ORCO 218	3314	Cx quinquefasciatus	Anaheim	50	GRVD	08/27/2026	WNV
Orange	ORCO 218	3315	Cx quinquefasciatus	Anaheim	21	GRVD	08/27/2026	WNV
Orange	ORCO 218	3316	Cx quinquefasciatus	Anaheim	29	GRVD	08/27/2026	WNV
Orange	ORCO 218	3317	Cx quinquefasciatus	Anaheim	16	GRVD	08/27/2026	WNV
Orange	ORCO 218	3318	Cx quinquefasciatus	Anaheim	26	GRVD	08/27/2026	WNV
Orange	ORCO 218	3319	Cx quinquefasciatus	Anaheim	26	GRVD	08/27/2026	WNV
Orange	ORCO 218	3322	Cx quinquefasciatus	Anaheim	11	GRVD	08/27/2026	WNV
Orange	ORCO 218	3323	Cx quinquefasciatus	Anaheim	43	GRVD	08/27/2026	WNV
Orange	ORCO 218	3330	Cx quinquefasciatus	Anaheim	31	GRVD	08/27/2026	WNV
Orange	ORCO 218	3331	Cx quinquefasciatus	Anaheim	39	GRVD	08/27/2026	WNV
Orange	ORCO 228	3219	Cx quinquefasciatus	Westminster	24	GRVD	08/25/2026	WNV
Orange	ORCO 228	3220	Cx quinquefasciatus	Westminster	12	GRVD	08/25/2026	WNV
Orange	ORCO 228	3229	Cx quinquefasciatus	Westminster	9	GRVD	08/25/2026	WNV
Orange	ORCO 229	3178	Cx quinquefasciatus	Fountain Valley	50	GRVD	08/21/2026	WNV
Orange	ORCO 229	3179	Cx quinquefasciatus	Fountain Valley	9	GRVD	08/21/2026	WNV
Orange	ORCO 229	3181	Cx quinquefasciatus	Fountain Valley	47	GRVD	08/21/2026	WNV
Orange	ORCO 238	3276	Cx quinquefasciatus	Anaheim	50	GRVD	08/26/2026	WNV
Orange	ORCO 238	3277	Cx quinquefasciatus	Anaheim	20	GRVD	08/26/2026	WNV
Orange	ORCO 268	3301	Cx quinquefasciatus	Brea	18	CO2	08/26/2026	WNV
Orange	ORCO 29	3304	Cx quinquefasciatus	Santa Ana	41	GRVD	08/26/2026	WNV
Orange	ORCO 29	3305	Cx quinquefasciatus	Santa Ana	41	GRVD	08/26/2026	WNV
Orange	ORCO 300	3275	Cx quinquefasciatus	Westminster	32	GRVD	08/26/2026	WNV
Orange	ORCO 302	3216	Cx quinquefasciatus	Anaheim	40	GRVD	08/25/2026	WNV
Orange	ORCO 306	3234	Cx quinquefasciatus	Villa Park	8	GRVD	08/25/2026	WNV

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Orange	ORCO 319	3211	Cx quinquefasciatus	Buena Park	8	GRVD	08/25/2026	WNV
Orange	ORCO 321	3227	Cx quinquefasciatus	Anaheim	27	GRVD	08/25/2026	WNV
Orange	ORCO 321	3228	Cx quinquefasciatus	Anaheim	22	BGSENT	08/25/2026	WNV
Orange	ORCO 329	3226	Cx quinquefasciatus	Fullerton	19	GRVD	08/25/2026	WNV
Orange	ORCO 332	3231	Cx quinquefasciatus	Fullerton	20	GRVD	08/25/2026	WNV
Orange	ORCO 336	3262	Cx quinquefasciatus	Anaheim	27	GRVD	08/25/2026	WNV
Orange	ORCO 338	3241	Cx quinquefasciatus	Anaheim	46	GRVD	08/25/2026	WNV
Orange	ORCO 340	3235	Cx quinquefasciatus	Santa Ana	26	GRVD	08/25/2026	WNV
Orange	ORCO 349	3289	Cx quinquefasciatus	Garden Grove	19	GRVD	08/26/2026	WNV
Orange	ORCO 349	3303	Cx quinquefasciatus	Garden Grove	8	BGSENT	08/26/2026	WNV
Orange	ORCO 349	10170	Aedes aegypti	Garden Grove	41	BGSENT	08/26/2026	WNV
Orange	ORCO 352	3278	Cx quinquefasciatus	Huntington Beach	40	GRVD	08/26/2026	WNV
Orange	ORCO 352	3279	Cx quinquefasciatus	Huntington Beach	39	GRVD	08/26/2026	WNV
Orange	ORCO 353	3285	Cx quinquefasciatus	Fountain Valley	27	GRVD	08/26/2026	WNV
Orange	ORCO 353	3286	Cx quinquefasciatus	Fountain Valley	26	GRVD	08/26/2026	WNV
Orange	ORCO 355	3280	Cx quinquefasciatus	Huntington Beach	20	GRVD	08/26/2026	WNV
Orange	ORCO 356	3284	Cx quinquefasciatus	Costa Mesa	27	GRVD	08/26/2026	WNV
Orange	ORCO 357	3150	Cx quinquefasciatus	Newport Beach	31	GRVD	08/20/2026	WNV
Orange	ORCO 358	3343	Cx quinquefasciatus	Newport Beach	6	GRVD	08/27/2026	WNV
Orange	ORCO 359	3156	Cx quinquefasciatus	Irvine	16	GRVD	08/20/2026	WNV
Orange	ORCO 364	3281	Cx quinquefasciatus	Garden Grove	20	GRVD	08/26/2026	WNV
Orange	ORCO 364	3302	Cx quinquefasciatus	Garden Grove	8	BGSENT	08/26/2026	WNV
Orange	ORCO 366	3238	Cx quinquefasciatus	Orange	22	GRVD	08/25/2026	WNV
Orange	ORCO 388	3287	Cx quinquefasciatus	Huntington Beach	35	GRVD	08/26/2026	WNV
Orange	ORCO 7	3273	Cx quinquefasciatus	Seal Beach	47	GRVD	08/26/2026	WNV
Orange	ORCO 81	3274	Cx quinquefasciatus	Seal Beach	39	GRVD	08/26/2026	WNV
Orange	ORCO 82	3261	Cx quinquefasciatus	Cypress	14	GRVD	08/25/2026	WNV
Orange	ORCO 83	3282	Cx quinquefasciatus	Costa Mesa	16	GRVD	08/26/2026	WNV
Placer	PLCR 1114	2424	Cx tarsalis	Lincoln	50	CO2	08/25/2026	WNV
Placer	PLCR 191998	2383	Cx tarsalis	Lincoln	38	CO2	08/25/2026	WNV
Placer	PLCR 198707	2391	Cx tarsalis	Unknown	31	CO2	08/25/2026	WNV
Placer	PLCR 25	2416	Cx tarsalis	Lincoln	50	CO2	08/25/2026	WNV
Placer	PLCR 25	2417	Cx tarsalis	Lincoln	18	CO2	08/25/2026	WNV
Placer	PLCR 678519	2434	Cx tarsalis	Elverta	50	CO2	08/25/2026	WNV
Placer	PLCR 678519	2435	Cx tarsalis	Elverta	50	CO2	08/25/2026	WNV
Placer	PLCR 81	2375	Cx tarsalis	Roseville	26	CO2	08/25/2026	WNV
Riverside	COAV 33	3902	Cx tarsalis	Thermal	12	CO2	08/25/2026	WNV
Sacramento	SAYO 213033	4769	Cx stigmatosoma	Sacramento	2	GRVD	08/25/2026	WNV
Sacramento	SAYO 245010	4969	Cx pipiens	Wilton	13	CO2	08/27/2026	WNV
Sacramento	SAYO 245010	4970	Cx tarsalis	Wilton	50	CO2	08/27/2026	WNV
Sacramento	SAYO 442609	4826	Cx tarsalis	Sacramento	37	CO2	08/25/2026	WNV
San Bernardino	WVAL 412	1988	Cx quinquefasciatus	Chino	10	BGSENT	08/26/2026	WNV
San Bernardino	WVAL 5597	1948	Cx quinquefasciatus	Chino	35	BGSENT	08/25/2026	WNV
San Bernardino	WVAL 5757	1998	Cx quinquefasciatus	Chino	17	BGSENT	08/26/2026	WNV
San Bernardino	WVAL 5758	1999	Cx quinquefasciatus	Ontario	50	BGSENT	08/26/2026	WNV
San Bernardino	WVAL 5758	2000	Cx quinquefasciatus	Ontario	50	BGSENT	08/26/2026	WNV
San Bernardino	WVAL 6246	1946	Cx quinquefasciatus	Chino	8	BGSENT	08/25/2026	WNV
San Joaquin	SJCM 1002	8063	Cx tarsalis	Acampo	43	CO2	08/25/2026	WNV
San Joaquin	SJCM 1005	8061	Cx tarsalis	Acampo	19	CO2	08/25/2026	WNV
San Joaquin	SJCM 1009	8039	Cx tarsalis	Acampo	50	CO2	08/25/2026	WNV
San Joaquin	SJCM 8025	1649	Cx tarsalis	Stockton	50	CO2	08/25/2026	WNV
San Joaquin	SJCM 8025	1651	Cx tarsalis	Stockton	34	CO2	08/25/2026	WNV
San Joaquin	SJCM 8027	1661	Cx tarsalis	Stockton	47	CO2	08/25/2026	WNV
San Joaquin	SJCM 8056	1617	Cx tarsalis	Manteca	54	CO2	08/25/2026	WNV
San Joaquin	SJCM 8056	1618	Cx tarsalis	Manteca	50	CO2	08/25/2026	WNV
San Joaquin	SJCM 8083	1634	Cx pipiens	Escalon	50	CO2	08/25/2026	WNV
San Joaquin	SJCM 8143	1611	Cx tarsalis	Stockton	50	CO2	08/25/2026	WNV
San Joaquin	SJCM 8143	1612	Cx tarsalis	Stockton	50	CO2	08/25/2026	WNV
San Joaquin	SJCM 8143	1614	Cx pipiens	Stockton	7	CO2	08/25/2026	WNV
San Joaquin	SJCM 8160	1667	Cx tarsalis	Lodi	50	CO2	08/25/2026	WNV
San Joaquin	SJCM 8200	1652	Cx tarsalis	Lodi	18	CO2	08/25/2026	WNV

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San Joaquin	SJCM 8208	1669	Cx tarsalis	Lodi	50	CO2	08/25/2026	WNV
San Joaquin	SJCM 8208	1670	Cx tarsalis	Lodi	50	CO2	08/25/2026	WNV
San Joaquin	SJCM 8208	1671	Cx tarsalis	Lodi	50	CO2	08/25/2026	WNV
San Joaquin	SJCM 8208	1672	Cx tarsalis	Lodi	20	CO2	08/25/2026	WNV
San Joaquin	SJCM 8209	1642	Cx tarsalis	Lodi	23	CO2	08/25/2026	WNV
San Joaquin	SJCM 8210	1641	Cx pipiens	Escalon	14	CO2	08/25/2026	WNV
San Joaquin	SJCM 8219	1636	Cx tarsalis	Stockton	50	CO2	08/25/2026	WNV
San Joaquin	SJCM 8233	1645	Cx tarsalis	Stockton	23	CO2	08/25/2026	WNV
Shasta	SHAS 110	837	Cx pipiens	Redding	50	CO2	08/25/2026	WNV
Shasta	SHAS 1132	856	Cx tarsalis	Cottonwood	47	CO2	08/25/2026	WNV
Shasta	SHAS 427	865	Cx tarsalis	Cottonwood	20	CO2	08/25/2026	WNV
Shasta	SHAS 619	847	Cx pipiens	Redding	46	CO2	08/25/2026	WNV
Shasta	SHAS 84	844	Cx pipiens	Redding	50	CO2	08/25/2026	WNV
Solano	SOLA 198	379	Cx tarsalis	Dixon	50	CO2	08/25/2026	WNV
Solano	SOLA 199	383	Cx tarsalis	Dixon	33	CO2	08/25/2026	WNV
Solano	SOLA 94	374	Cx pipiens	Dixon	46	CO2	08/25/2026	WNV
Solano	SOLA 94	375	Cx tarsalis	Dixon	50	CO2	08/25/2026	WNV
Stanislaus	EAST 1998	26167	Cx pipiens	Ripon	21	CO2	08/18/2026	WNV
Stanislaus	TRLK 1305	621	Cx pipiens	Patterson	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 1615	637	Cx tarsalis	Modesto	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 19246	666	Cx tarsalis	Crows Landing	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 20258	685	Cx pipiens	Turlock	44	CO2	08/25/2026	WNV
Stanislaus	TRLK 2315	629	Cx pipiens	Grayson	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 2315	631	Cx pipiens	Grayson	46	CO2	08/25/2026	WNV
Stanislaus	TRLK 26151	590	Cx pipiens	Turlock	50	CO2	08/21/2026	WNV
Stanislaus	TRLK 26430	668	Cx pipiens	Turlock	23	CO2	08/25/2026	WNV
Stanislaus	TRLK 26431	683	Cx pipiens	Turlock	28	CO2	08/25/2026	WNV
Stanislaus	TRLK 26436	693	Cx pipiens	Turlock	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 26436	694	Cx pipiens	Turlock	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 305	609	Cx pipiens	Grayson	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 312	675	Cx tarsalis	Newman	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 312	677	Cx tarsalis	Newman	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 312	678	Cx tarsalis	Newman	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 312	679	Cx tarsalis	Newman	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 312	680	Cx tarsalis	Newman	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 322	626	Cx tarsalis	Vernalis	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 424	613	Cx pipiens	Patterson	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 424	616	Cx tarsalis	Patterson	50	CO2	08/25/2026	WNV
Stanislaus	TRLK 548	596	Cx pipiens	Newman	16	CO2	08/25/2026	WNV
Stanislaus	TRLK 548	597	Cx tarsalis	Newman	50	CO2	08/25/2026	WNV
Sutter	SUYA 14	367	Cx tarsalis	Sutter	50	REST	08/24/2026	WNV
Tulare	DLTA 509327	4269	Cx quinquefasciatus	Dinuba	18	GRVD	08/25/2026	WNV
Tulare	DLTA 509382	4248	Cx quinquefasciatus	Sultana Udb	27	GRVD	08/21/2026	WNV
Tulare	DLTA 509392	4229	Cx quinquefasciatus	Visalia	13	GRVD	08/20/2026	WNV
Tulare	DLTA 509407	4223	Cx quinquefasciatus	Exeter	12	GRVD	08/20/2026	WNV
Tulare	DLTA 509428	4305	Cx quinquefasciatus	West Goshen	27	CO2	08/26/2026	WNV
Tulare	DLTA 509482	4312	Cx tarsalis	Visalia	18	CO2	08/26/2026	WNV
Tulare	DLTA 509517	4287	Cx quinquefasciatus	Visalia	25	BGSENT	08/26/2026	WNV
Tulare	DLTA 509541	4291	Cx quinquefasciatus	Visalia	16	GRVD	08/26/2026	WNV
Tulare	DLTA 509601	4314	Cx quinquefasciatus	Visalia	50	CO2	08/26/2026	WNV
Tulare	DLTA 509601	4315	Cx quinquefasciatus	Visalia	50	CO2	08/26/2026	WNV
Tulare	DLTA 509601	4321	Cx tarsalis	Visalia	50	CO2	08/26/2026	WNV
Tulare	DLTA 509677	4284	Cx tarsalis	Delft Colony	50	CO2	08/25/2026	WNV
Tulare	DLTA 509802	4228	Cx quinquefasciatus	Visalia	14	GRVD	08/20/2026	WNV
Tulare	DLTA 509886	4251	Cx quinquefasciatus	Visalia	11	GRVD	08/21/2026	WNV
Tulare	DLTA 509887	4237	Cx quinquefasciatus	Visalia	12	BGSENT	08/20/2026	WNV
Tulare	DLTA 509932	4266	Cx quinquefasciatus	Visalia	12	GRVD	08/25/2026	WNV
Tulare	DLTA 509944	4289	Cx quinquefasciatus	Visalia Uab	34	GRVD	08/26/2026	WNV
Tulare	DLTA 511869	4247	Cx quinquefasciatus	Dinuba	44	GRVD	08/21/2026	WNV
Tulare	DLTA 512182	4250	Cx quinquefasciatus	Dinuba	14	GRVD	08/21/2026	WNV
Tulare	DLTA 512235	4265	Cx quinquefasciatus	Visalia	20	GRVD	08/25/2026	WNV

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Tulare	TLRE 225324	155	Cx quinquefasciatus	Pixley	50	GRVD	08/20/2026	WNV
Tulare	TLRE 24092	150	Cx quinquefasciatus	Tulare	48	GRVD	08/19/2026	WNV
Tulare	TLRE 24134	156	Cx quinquefasciatus	Tulare	28	GRVD	08/21/2026	WNV
Tulare	TLRE 25183	151	Cx quinquefasciatus	Tulare	25	GRVD	08/20/2026	WNV
Tulare	TLRE 924361	166	Cx quinquefasciatus	Tulare	40	GRVD	08/25/2026	WNV
Tulare	TLRE 924364	160	Cx quinquefasciatus	Tulare	23	GRVD	08/21/2026	WNV
Tulare	TLRE 925314	159	Cx quinquefasciatus	Tulare	50	GRVD	08/21/2026	WNV
Yolo	SAYO 115008	5007	Cx tarsalis	Woodland	50	CO2	08/27/2026	WNV
Yolo	SAYO 123005	4984	Cx tarsalis	Madison	20	CO2	08/27/2026	WNV
Yolo	SAYO 135006	4980	Cx tarsalis	Woodland	50	CO2	08/27/2026	WNV
Yolo	SAYO 135006	4981	Cx tarsalis	Woodland	50	CO2	08/27/2026	WNV
Yolo	SAYO 135016	4866	Cx tarsalis	Woodland	17	CO2	08/25/2026	WNV
Yolo	SAYO 143005	4961	Cx pipiens	Winters	4	GRVD	08/27/2026	WNV
Yolo	SAYO 145005	4857	Cx tarsalis	Davis	50	CO2	08/25/2026	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 1	Band 2	Band 3	Band 4
Butte	BUCO 000001	Chico	08/18/2026	WNV	5121	5122		
Butte	BUCO 000002	Oroville	08/18/2026	WNV	5129	5130		
Butte	BUCO 000004	Gridley	08/18/2026	WNV	5139	5143		
Butte	BUCO 000006	Chico	08/18/2026	WNV	5151			
Butte	BUCO 000007	Chico	08/18/2026	WNV	5159			
Lake	LAKE 001000	Upper Lake	08/18/2026	WNV	3832			
Los Angeles	LACW 001001	Rolling Hills Estates	08/11/2026	WNV	3841	3842	3843	3845
Los Angeles	LACW 001003	Redondo Beach	08/11/2026	WNV	3852	3854	3855	
Los Angeles	LACW 001004	Lawndale	08/18/2026	WNV	3856			
Los Angeles	LACW 001005	El Segundo	08/20/2026	WNV	3861			
Los Angeles	LACW 001006	Playa Del Rey	08/20/2026	WNV	3866	3867		
Los Angeles	LACW 001007	Baldwin Hills	08/20/2026	WNV	3872			
Los Angeles	LACW 001009	Los Angeles	08/21/2026	WNV	3877	3879		
Los Angeles	LACW 001012	Venice	08/18/2026	WNV	3886	3887	3888	3890
Los Angeles	LACW 001026	Los Angeles	08/11/2026	WNV	3906	3908	3910	
Los Angeles	LACW 001049	Inglewood	08/20/2026	WNV	3912			
Sutter	SUYA 000014	Sutter	08/20/2026	WNV	5046	5050	5051	
Sutter	SUYA 000015	Robbins	08/20/2026	WNV	5034			
Sutter	SUYA 000030	Live Oak	08/20/2026	WNV	5053	5055	5058	
Tehama	TEHA 000001	Red Bluff	08/18/2026	WNV	5092	5095	5098	
Tehama	TEHA 000100	Corning	08/18/2026	WNV	5106			

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TEST PROTOCOLS

Humans:

Specimens are tested by local laboratories with an IgM or IgG immunofluorescent assay (IFA) and/or an IgM enzyme immunoassay (EIA). Specimens with inconclusive results are forwarded to the California Department of Public Health Viral and Rickettsial Disease Laboratory (VRDL) for further testing with a plaque reduction neutralization test (PRNT).

Dead Birds

Oral swab samples collected from bird carcasses are tested at the UC Davis Arbovirus Research and Training laboratory (DART) or at a local agency for West Nile virus by RT-qPCR.

Sentinel Chickens:

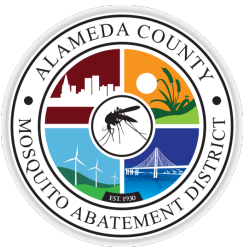
Dried blood spot samples from sentinel chickens are tested at the California Department of Public Health Vector-Borne Disease Laboratory for IgG antibodies to West Nile, St. Louis encephalitis, and western equine encephalomyelitis viruses by an EIA. Positive samples are confirmed by IFA, western-blot, or PRNT.

Mosquito Pools:

Mosquito pools are tested at DART or at a local agency for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a multiplex RT-qPCR. Invasive *Aedes* mosquitoes (*Ae. aegypti* and *Ae. albopictus*) are also tested at DART for chikungunya, dengue, and Zika viral RNA by a separate RT-qPCR.

Website Information: For updated information on WNV in California, please visit the California WNV website, <https://westnile.ca.gov>, or the California Vector-Borne Disease Surveillance System website, <https://maps.vectorsurv.org>.

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Hannah Romo: Hannah.romo@cdph.ca.gov



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MONTHLY STAFF REPORT – 1151

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OPERATIONS REPORT

Aedes aegypti



Figure 1. Snapshot of one area with multiple detections of *Aedes aegypti* (red points) with Operations' door-to-door response. Green flags represent properties inspected. Orange flags represent information given to property. Red flags represent planned activities.



Figure 2. Areas in blue represent WALs treatment coverage. The red dot represents the location of suspected *Aedes aegypti* source. Sarah Lawton photographed next to A1 SuperDuty sprayer at the treatment site.

Multiple *Aedes aegypti* detections occurred throughout eastern and southern Alameda County during August. The most significant activity was identified at a senior living apartment complex in Fremont's Irvington District, where high numbers of adult mosquitoes were found both indoors and outdoors. Operations responded with an overnight truck-mounted WALs larvicide treatment covering 157 acres and backpack ULV treatments covering 11.25 acres.

Additional investigations identified mosquitoes likely transported into Alameda County by a street-cleaning vehicle from an adjacent county. Operations also maintained heightened activity following a reported chikungunya case near a recent *Ae. aegypti* detection.

Each *Aedes aegypti* detection prompted door-to-door inspections, catch basin treatments, and further containment efforts.

Aedes dorsalis-

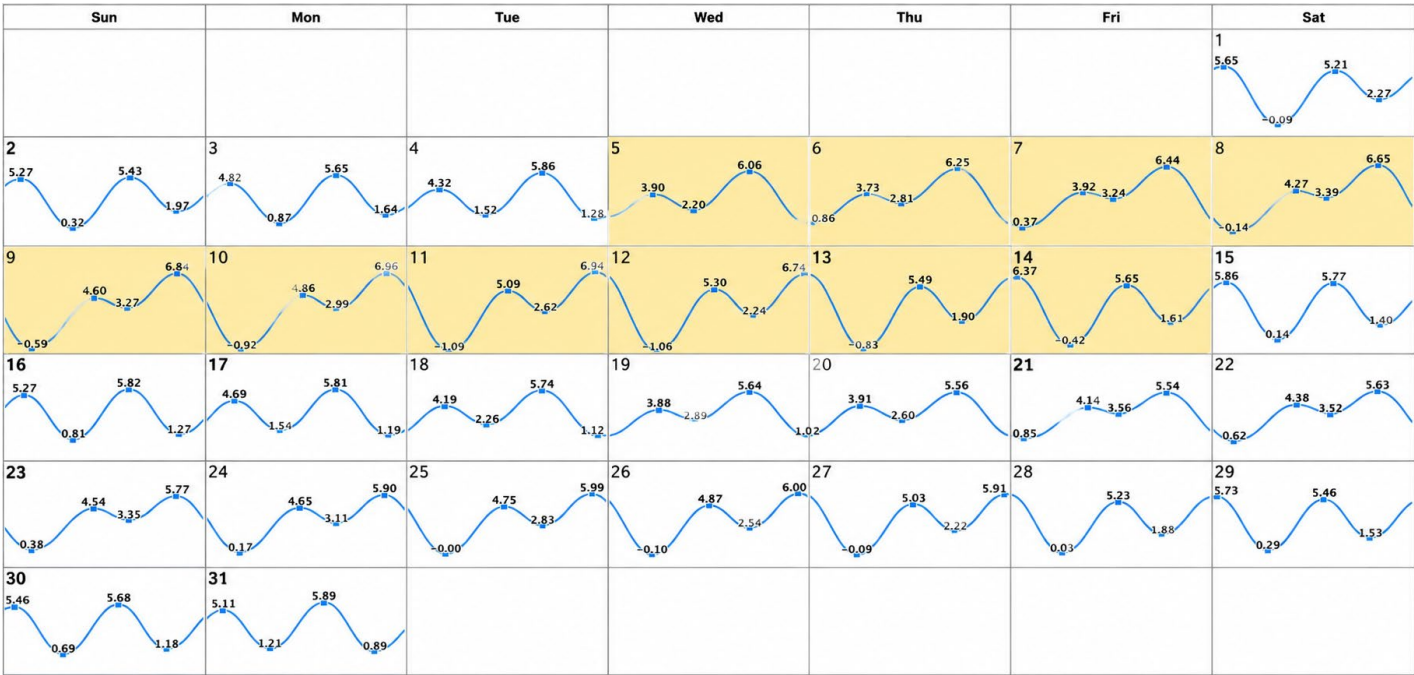


Figure 3. NOAA tide chart for August 2026. Highlighted days represent tidal heights that activate *Aedes dorsalis* larvae.

August saw an abnormal height and duration for *Aedes dorsalis* tides causing tidal water to be deposited in areas that do not normally receive water. A combination of A1 WALs SuperDuty, backpack blowers, and hand treatments followed *Ae. dorsalis* positive identifications in the field.

West Nile virus-

Green Pool Closeout Progress — 2026 vs. 2025 & 2024

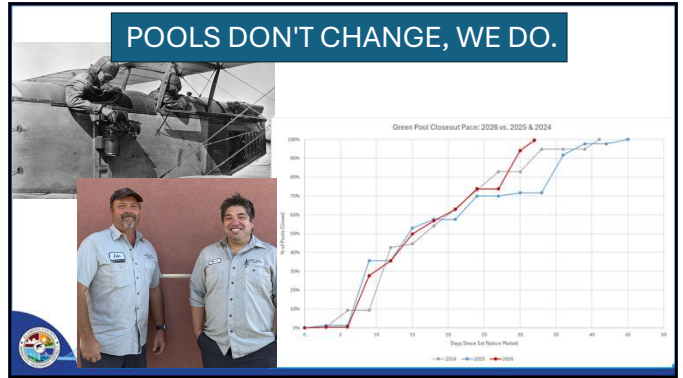


Figure 4. Graph showing the progression of field pool closures over the past three years.

The unmaintained pool program identified 438 unmaintained pools in Alameda County. This season was the fastest in ACMAD history to close pools once they were opened for Operations to inspect. Once identified, unmaintained swimming pools are the primary focus for West Nile virus activity prevention (*see presentation below for more details*). Retreating problematic catch basins are also a focus as prior Natular XRT applications were beginning to deplete in efficacy.



1



2



3



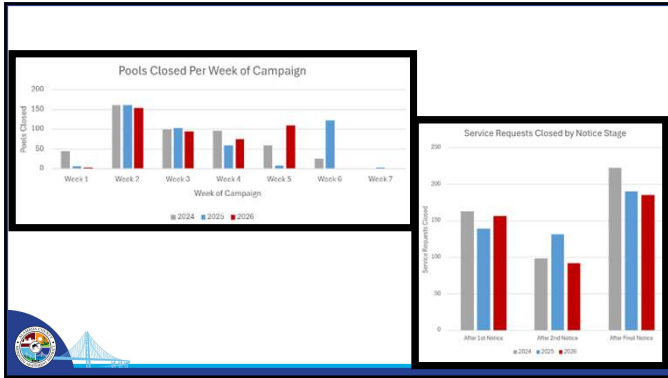
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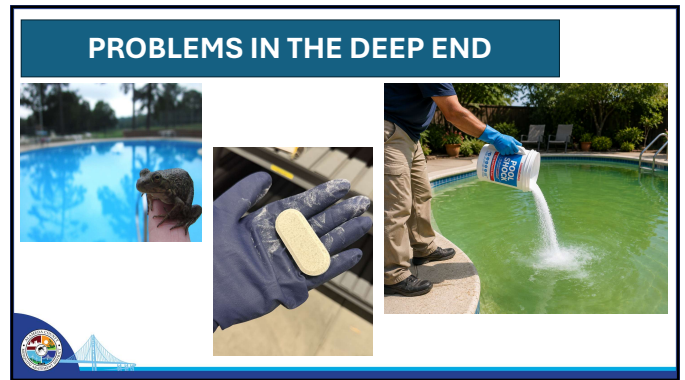
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8



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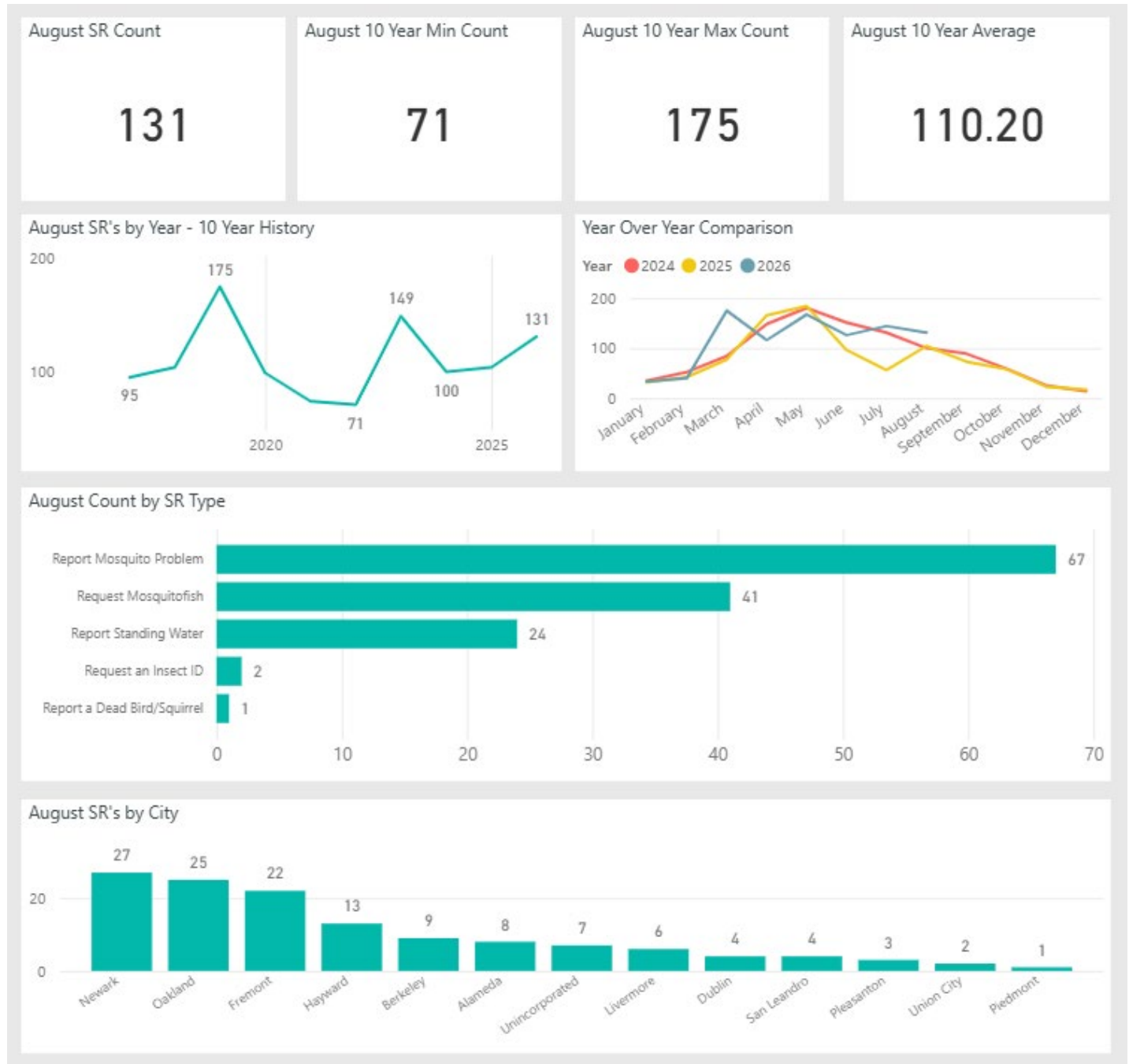


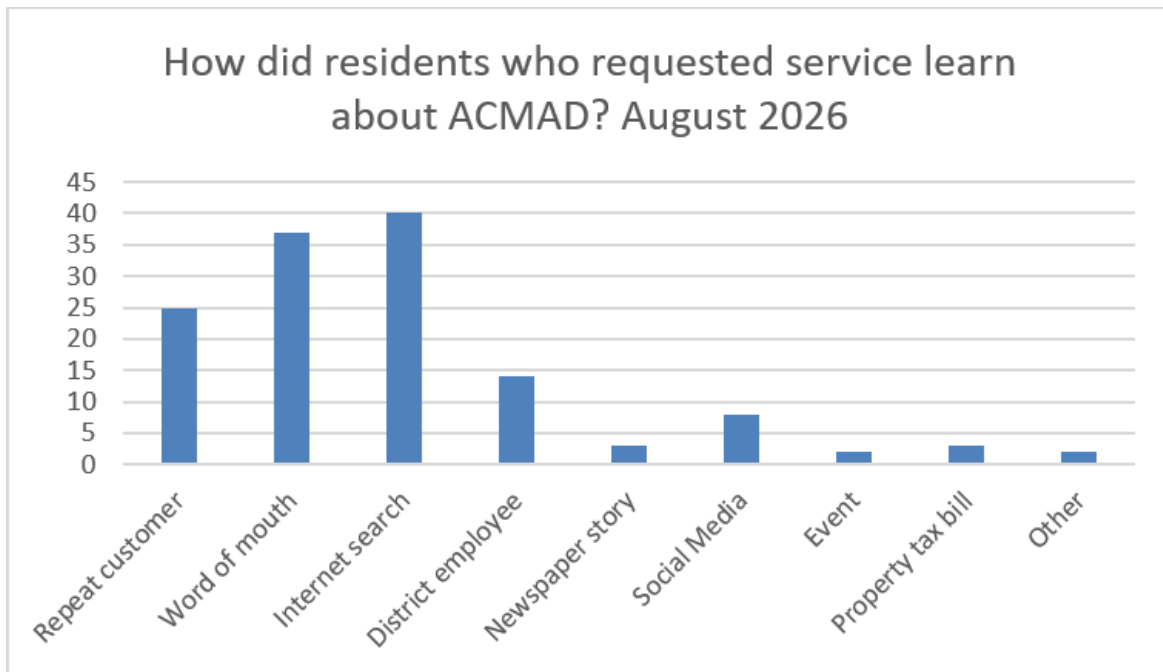
10

- ### CLEARER WATERS AHEAD
- STAFF DISCUSSIONS
 - TESTING EFFICACY OF OUR PESTICIDES
 - SAMPLING CHLORINE PARAMETERS
 - REACHING HISTORICAL PROBLEM POOLS IN ADVANCE
 - UPDATING NOTICES
 - BEATING OUR RECORDS

11

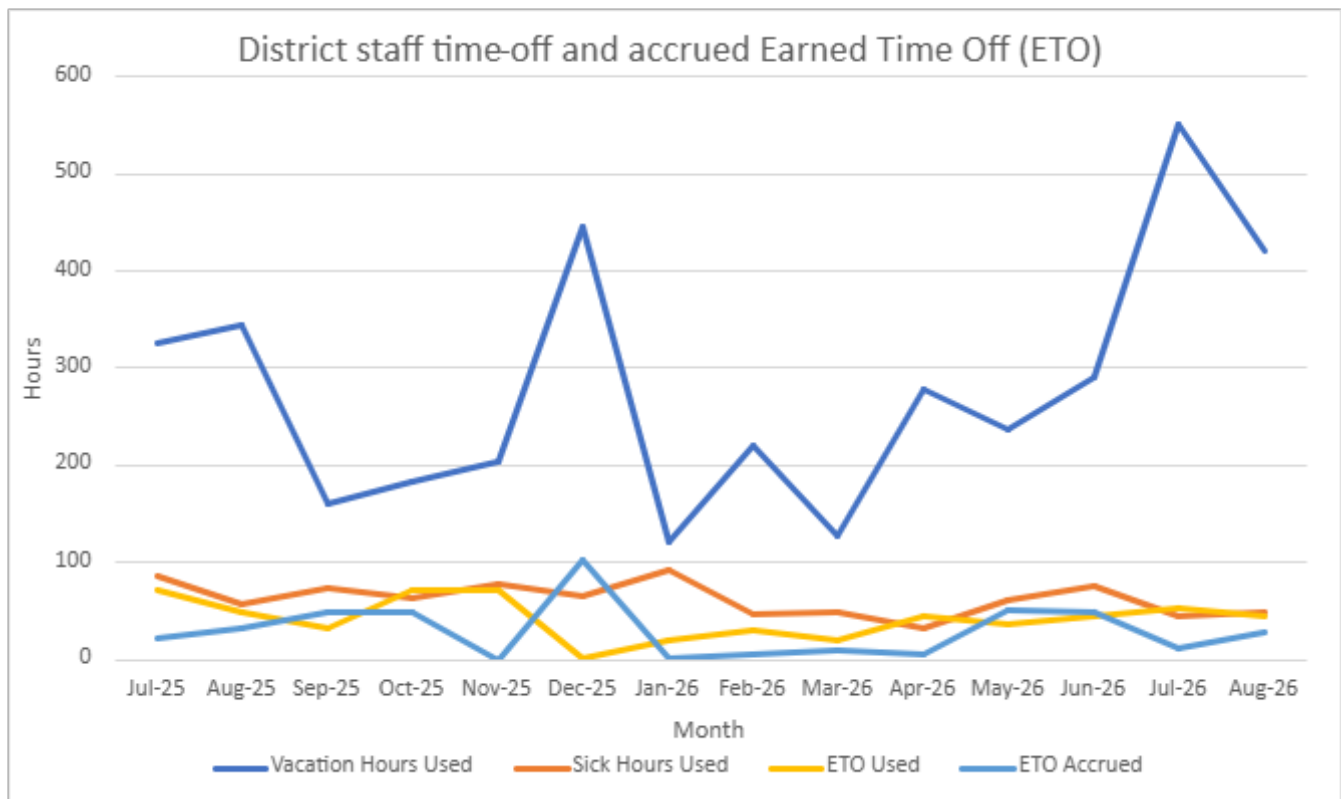
Service Requests August 2026



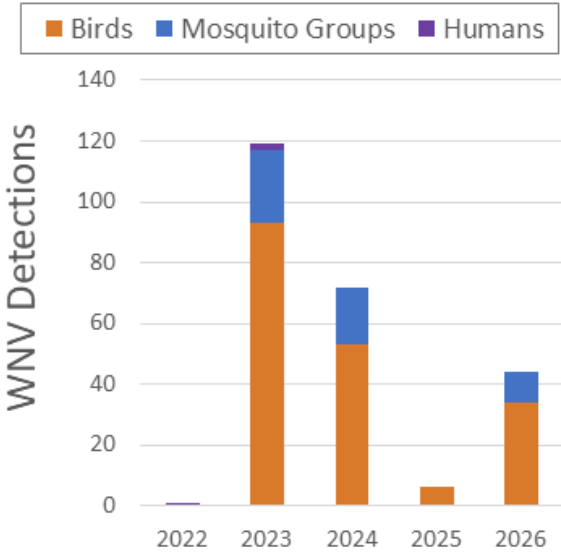
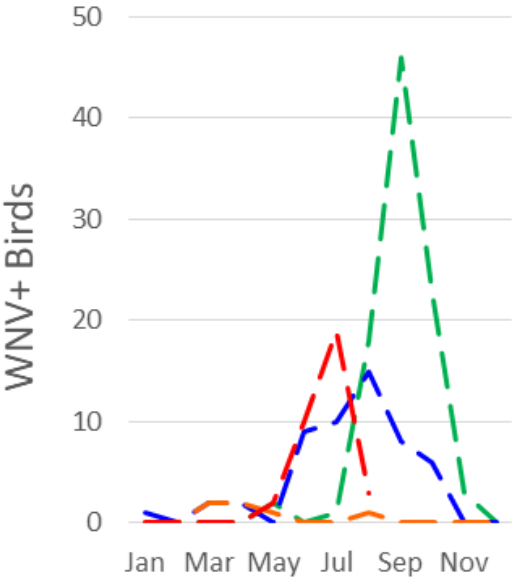
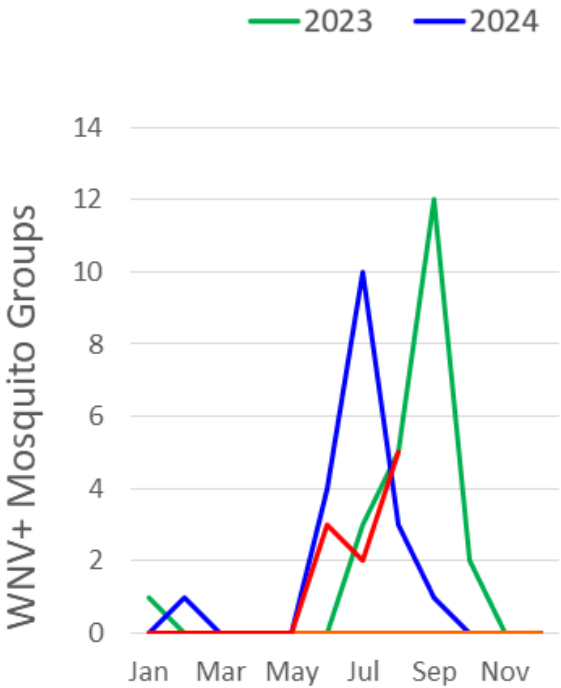


Virtual Phone System

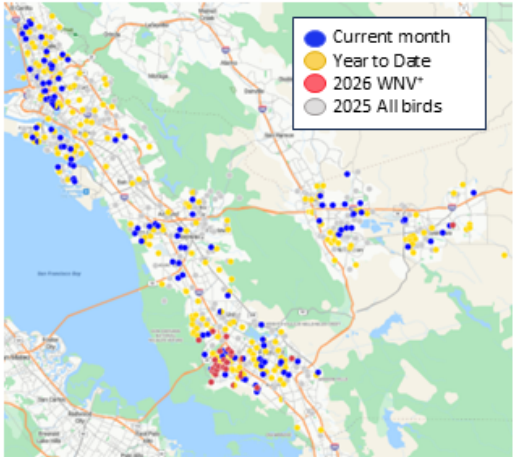
- Ally, our AI assistant, answered 100% of all 422 calls made to the District in August. Double our monthly volume due to the Pool Project.
- The 14.45% abandonment rate is primarily from spam calls and unsolicited vendors that hang up.
- Not all calls that come through Ally are turned into Service Requests.



WNV Activity Report for Alameda County



Dead Birds Collected and WNV Detections



LABORATORY

1. Summary

- Adult mosquito abundance declined again in August, continuing the post-June seasonal decline.
- *Culex* West Nile virus (WNV) vectors continued to dominate the catch. *Culex erythrothorax* remained the most abundant species, while *Culex pipiens* became a larger share of the catch than in July.
- WNV activity continued in August with 3 positive birds (Newark and Fremont) and 5 positive mosquito groups (Newark, Union City and Fremont; see the above WNV Activity Report).
- Adult and larval *Aedes aegypti* detections continued in August, with detections extending across Castro Valley, Hayward, Fremont, Pleasanton, and Livermore. Continued grid trapping and source-reduction follow-up remain warranted.
- After adult *Aedes aegypti* were detected near Independence Park Playground (Livermore), WB1 releases were redirected there from sites without current detections, and mark-release-recapture monitoring shows release ratios remain within the 10:1 pesticide label requirement.

2. Key August Metrics

Adult mosquito surveillance in August showed substantially lower abundance than July despite increased trapping effort (Table 1 and Figure 1). Trap nights increased from 863 in July to 939 in August, while total adults collected declined from 35,934 to 19,303. Average abundance decreased from 41.6 to 20.6 mosquitoes per trap night. Zero-catch traps increased from 15% to 18%, a 3-percentage-point increase, indicating that mosquito activity was lower and less evenly distributed across the trap network.

Table 1. Adult mosquito surveillance metrics

Metric	August 2026	July 2026	Change
Trap nights	939	863	+ 9%
Total adults collected	19,303	35,934	- 46%
Average abundance	20.6 mosquitoes / trap night	41.6 mosquitoes / trap night	- 51%
Zero-catch traps	18%	15%	+ 3 percentage points

3. Weather and Environmental Correlates

- **Seasonal pattern.** Overall abundance declined after the higher late-June and July activity, while WNV vector species remained present across the county (Figures 1 and 2).
- ***Culex* habitat signal.** *Culex erythrothorax* remained the largest component of the August catch, consistent with continued production from tule marshes and other semi-permanent aquatic habitats, although abundance was lower than July (Figures 2, 3 and Table 2).
- *Culex pipiens* represented a larger share of the August catch than in July (Figure 3 and Table 2), supporting continued attention to urban and peridomestic *Culex* habitats.
- **Marsh *Aedes*.** *Aedes dorsalis* remained present with moderate abundance in the southern region of the county near pickleweed marsh habitats (Figure 2, 3, 4 and Table 2). Emergence correlated with high tides with one in mid-August producing a bimodal distribution, suggesting that high tide produced multiple broods of *Aedes dorsalis*.

4. Arbovirus Surveillance

WNV activity continued in August. The above WNV Activity Report shows 5 additional WNV-positive mosquito groups (Newark, Union City and Fremont) and 3 WNV-positive birds (Newark and Fremont) for the month.

- **Dead bird surveillance.** This month, 3 of 77 dead birds tested positive for WNV (Newark (2) and Fremont (1)).

- **Mosquito testing results.** This month 3 of 174 mosquito groups tested positive for WNV (Newark (2) and Fremont (1)), a positivity rate of 1.7%.
- These results indicate that WNV continues to circulate in the county, primarily in southern regions of the county that abut the San Francisco Bay (Figure 5).

5. Native Mosquitoes

Species composition and abundance shifted from July to August, with continued *Culex* dominance but substantially lower overall abundance.

- **Overall abundance.** Total adult mosquitoes declined from 35,934 in July to 19,303 in August, a 46% decrease. Trap-normalized abundance declined from 41.6 to 20.6 mosquitoes per trap night, despite a 9% increase in trapping effort. This may have resulted in part from shifting grid trapping efforts to the northern region of the county, where abundance is historically low.
- ***Culex* species.** Total *Culex* abundance declined from 31,195 in July to 15,961 in August, a 49% decrease. *Culex erythrothorax* remained the dominant species but declined from 23,416 to 10,512 (Table 2, Figure 2). *Culex tarsalis* also declined sharply, from 3,991 to 1,178. In contrast, *Culex pipiens* increased from 3,788 to 4,266. Together, these three WNV vector species continued to account for most adult mosquitoes collected in traps.
- ***Aedes* species.** *Aedes dorsalis* remained relatively stable, increasing slightly from 1,099 in July to 1,155 in August. Adult *Aedes aegypti* increased from 5 in July to 97 in August. Monitoring continued at the male *Wolbachia* WB1 *Aedes aegypti* release sites in August, yielding 178 trapped adults, a 0.15% recapture rate of the males released that month.
- ***Culiseta* species.** *Culiseta incidens* declined from 3,367 in July to 1,881 in August, a 44% decrease.
- **Annual trend context.** August abundance was lower than July and below the larger seasonal peaks observed earlier in 2026 and in prior years. However, WNV vector species remained active, and continued WNV detections mean that disease risk should continue to be evaluated using both mosquito abundance and arbovirus surveillance results.

Table 2. Dominant species comparison of adult female mosquitoes

Species	August 2026 (# of mosquitoes)	July 2026 (# of mosquitoes)	Difference
All <i>Culex</i> species	15,961	31,195	- 49%
<i>Culex erythrothorax</i>	10,512	23,416	- 55%
<i>Culex tarsalis</i>	1,178	3,991	- 70%
<i>Culex pipiens</i>	4,266	3,788	+ 13%
<i>Culiseta incidens</i>	1,881	3,367	- 44%
<i>Aedes dorsalis</i>	1,155	1,099	+ 5%
<i>Aedes aegypti</i>	97	5	+ 92 female mosquitoes

6. *Aedes aegypti* Update

Adult *Aedes aegypti* detections increased in August, and larval *Aedes aegypti* were also detected (Figure 6). Adults have been trapped so far this year in Castro Valley, Hayward, Fremont, Pleasanton, and Livermore. The highest number of adult *Aedes aegypti* were collected in Fremont (81 adult females and 24 males). Larvae have been collected in Fremont and the Livermore. These detections confirm continued low-level presence across multiple parts of the

county and support continued grid-based trapping efforts. The lab continues to respond with trapping around tropical disease cases that are reported to us by Alameda Health Department.

7. Wolbachia WB1 Release Update

Adult *Aedes aegypti* were detected near Independence Park Playground in Livermore in early August. Because *Aedes aegypti* had not been detected this year at the Cardinal Drive or Cheryl Drive WB1 release sites, releases at those locations were stopped and redirected to the Independence Park area. Releases near Independence Park and Sonia Way are being monitored through mark-release-recapture trapping to compare the ratio of released WB1 males with wild-type males and confirm compliance with the pesticide label. Current results show that WB1 males remain well within the required 10:1 label rate.

8. Public Health Implications

August surveillance indicates that WNV risk remained active even as overall adult mosquito abundance declined. WNV was detected in mosquito groups and birds, confirming continued local transmission. Continued response trapping and close coordination between laboratory and operations staff remain warranted around WNV-positive bird and mosquito locations.

Culex mosquitoes, the primary WNV vectors, continued to account for most adult mosquitoes collected. The continued prominence of *Culex erythrothorax* and the relative increase in *Culex pipiens* support continued attention to both wetland-associated and urban *Culex* habitats.

Adult and larval *Aedes aegypti* detections indicate that this invasive mosquito remains present at low levels and is not limited to a single area. Continued grid trapping, source reduction, and follow-up inspections are warranted near detection sites.

9. Lab Figures

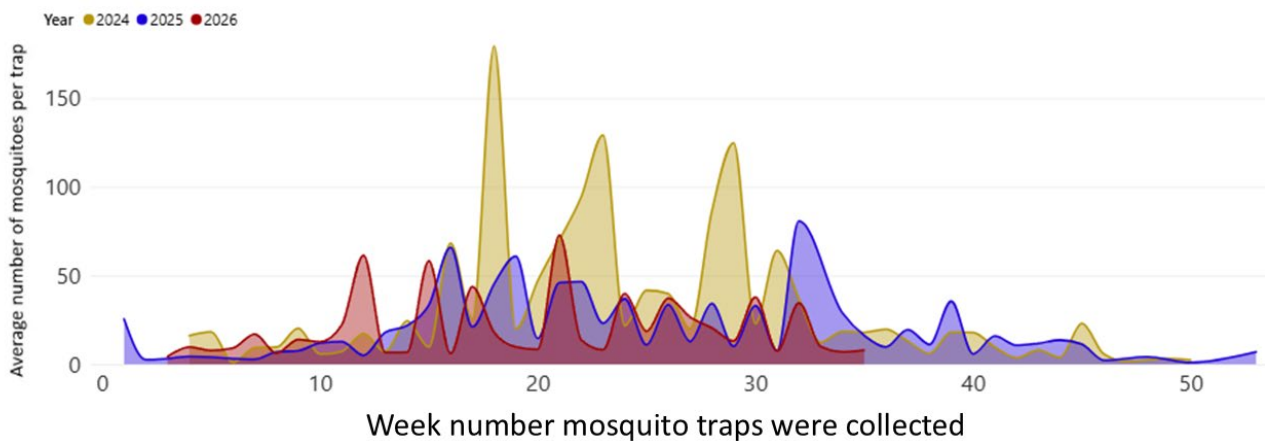


Figure 1. The average number of female mosquitoes captured by week for 2024, 2025, and 2026.

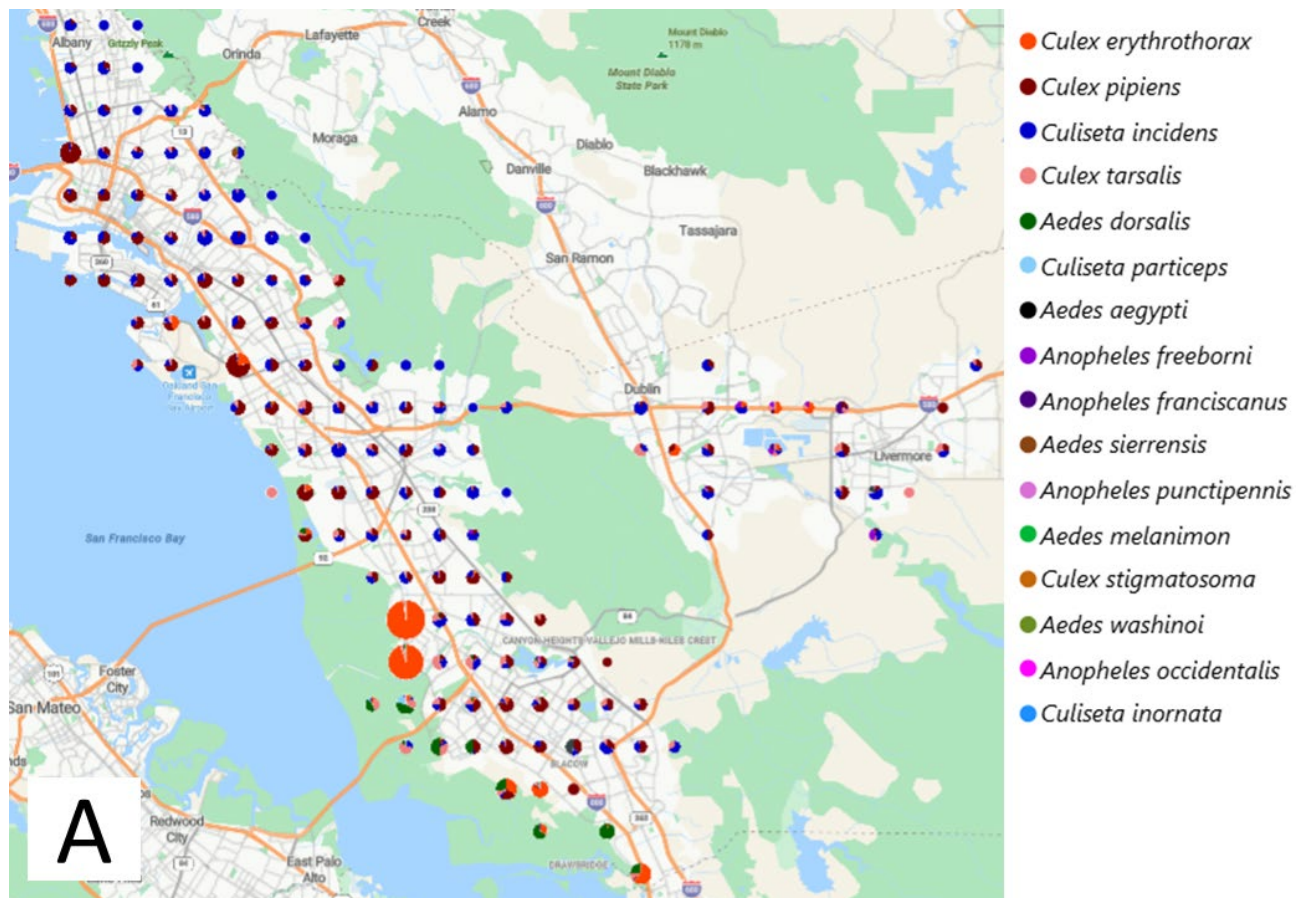


Figure 2. Mosquito species by trap site using EVS CO₂ traps. Pie charts show proportional species composition at each trap site, with pie size reflecting relative abundance.

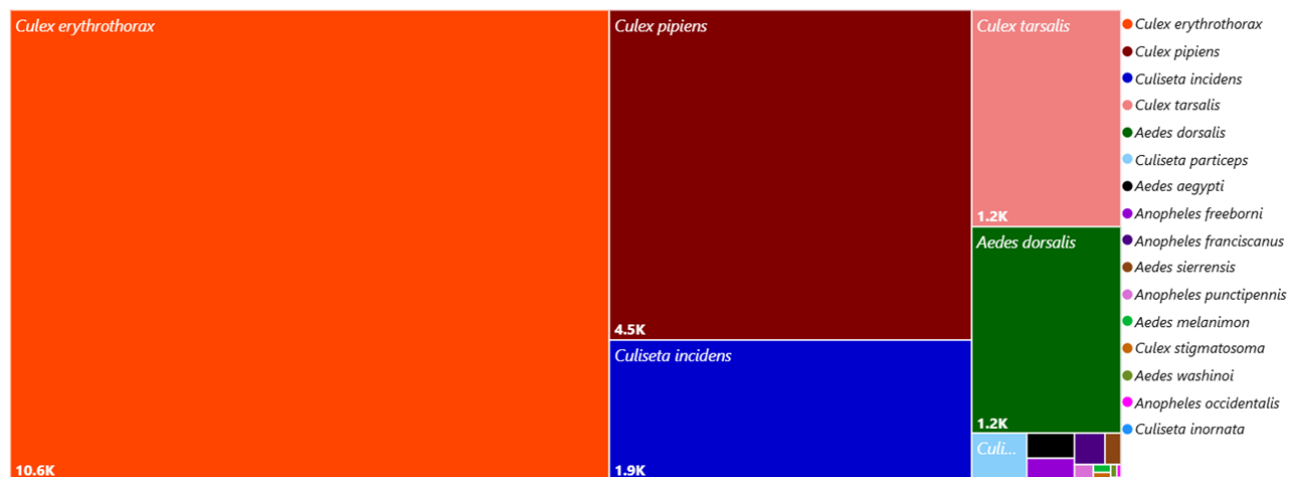


Figure 3. Species composition of adult female mosquitoes collected in CO₂-baited traps this month. Tile size reflects each species' relative abundance, and values indicate the number of individuals collected.

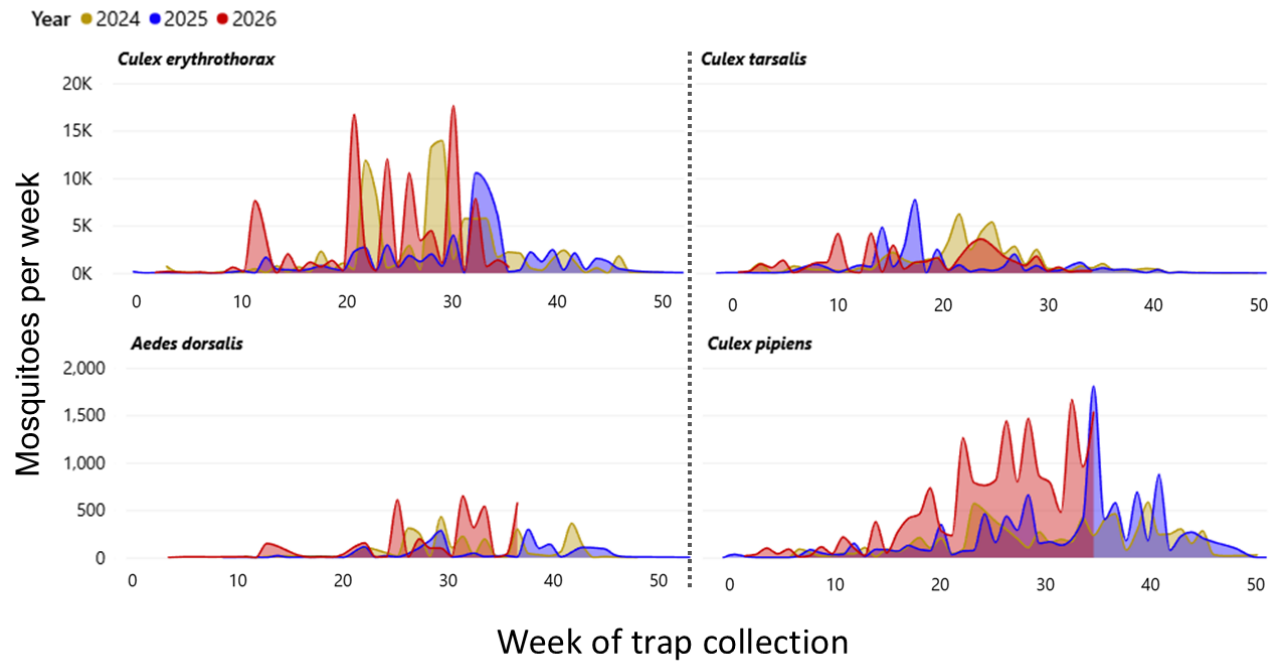


Figure 4. Weekly abundance of important mosquito species during 2024, 2025, and 2026.

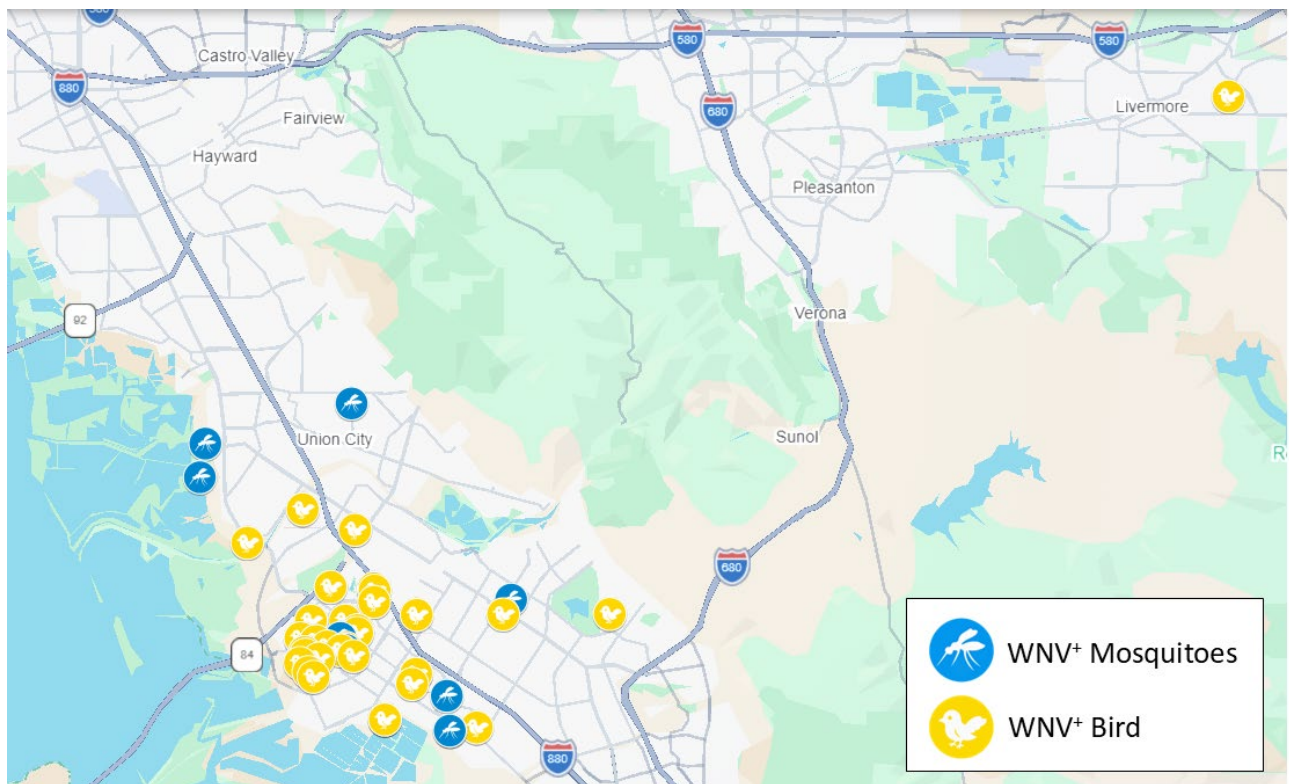


Figure 5. WNV-positive mosquito and bird detection locations for August 2026.

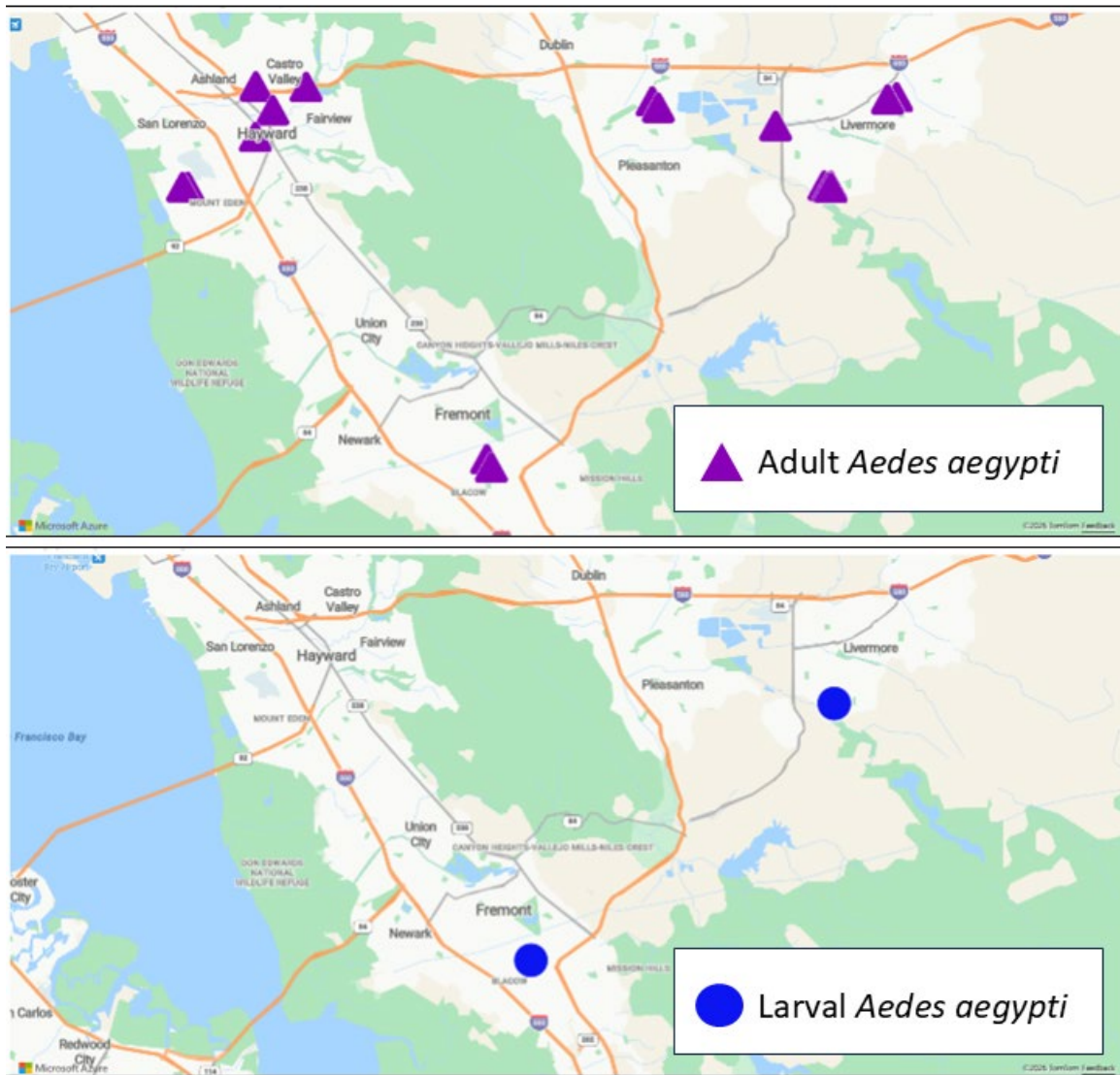
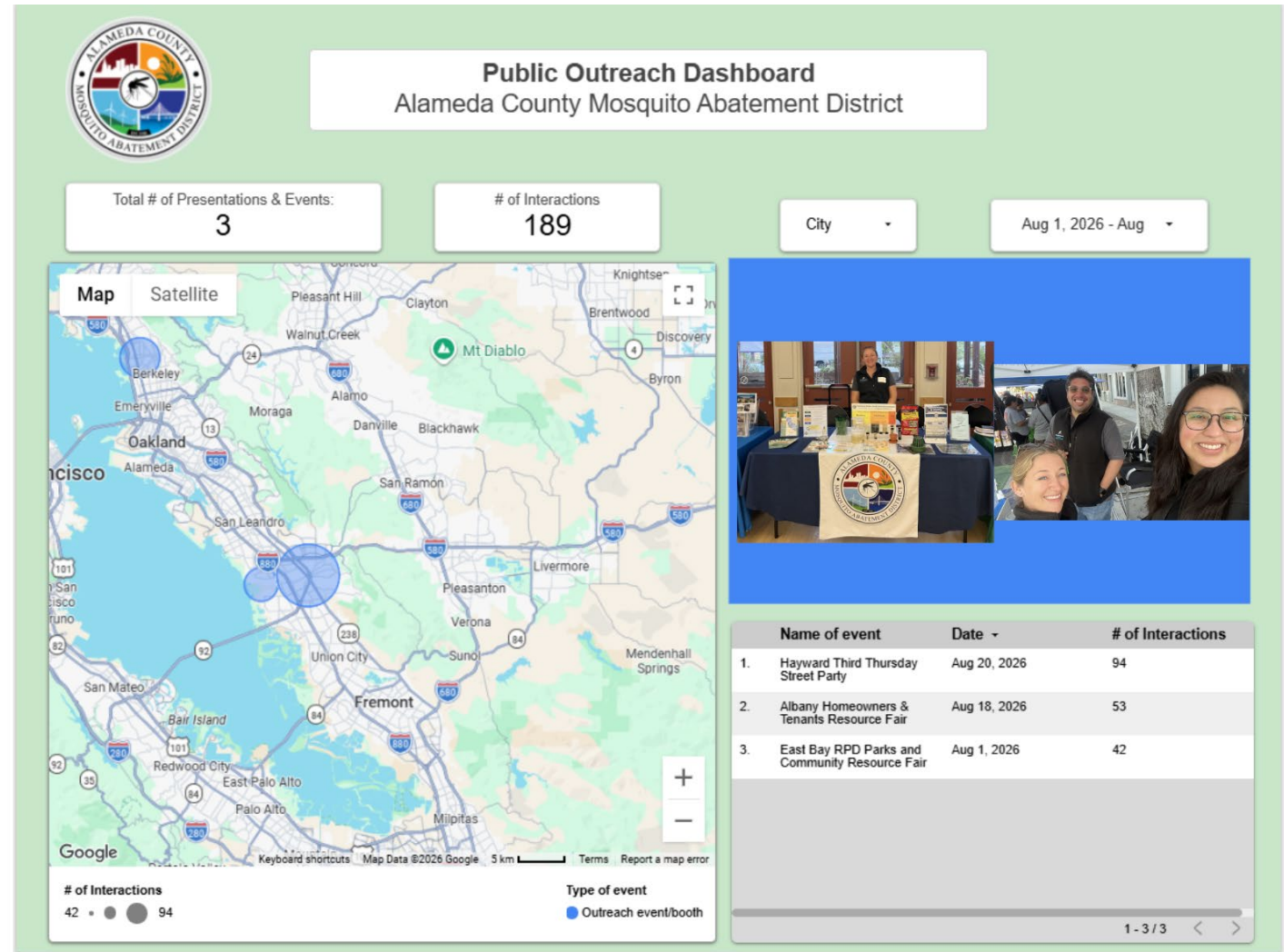


Figure 6. Adult and larval *Aedes aegypti* detection map for August 2026.

OUTREACH AND ENGAGEMENT

1. Events and Presentations



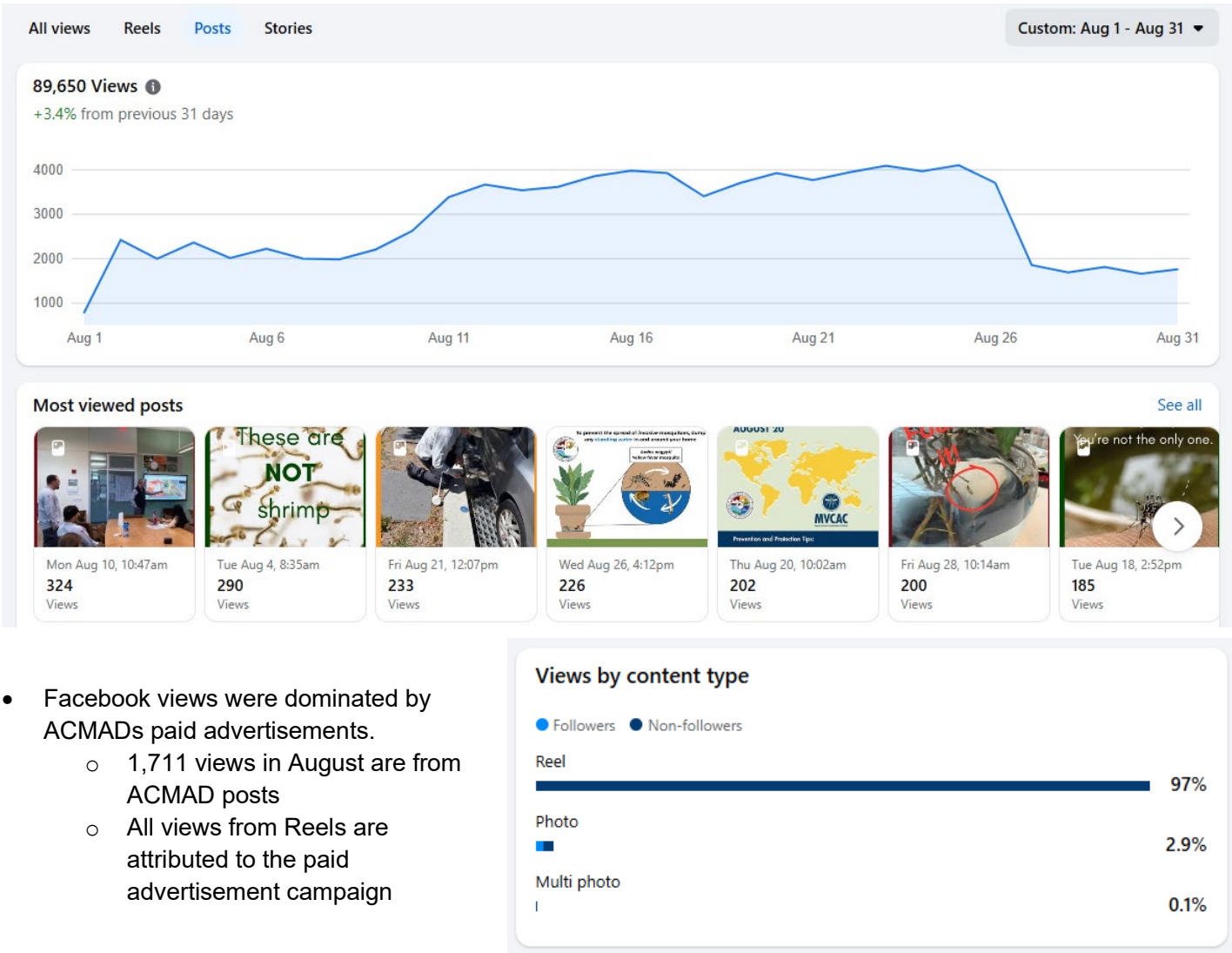
Staff attended East Bay Regional Park District’s Open House in San Lorenzo (August 1st), Albany Housing Resource Fair (August 13), and the annual Hayward 3rd Thursday Street Party (August 20th)

2. News Media

- Aedes aegypti pictures from the website are often used for images in local media stories, even if the stories are not about Alameda County, such as images found on stories in *SF Gate*, *Patch* and *Hoodline*.
- The *Alameda Post* highlighted Alameda trustee Nick Ksiazek’s update for city council about WNV in the county.
- ACMAD’s numbers of WNV birds were mentioned in an article in *Medical Daily* which detailed the large amount of WNV recorded in California in 2026.
- The *Mercury News* mentioned high WNV numbers throughout the state, along with ACMAD’s treatments in Newark.

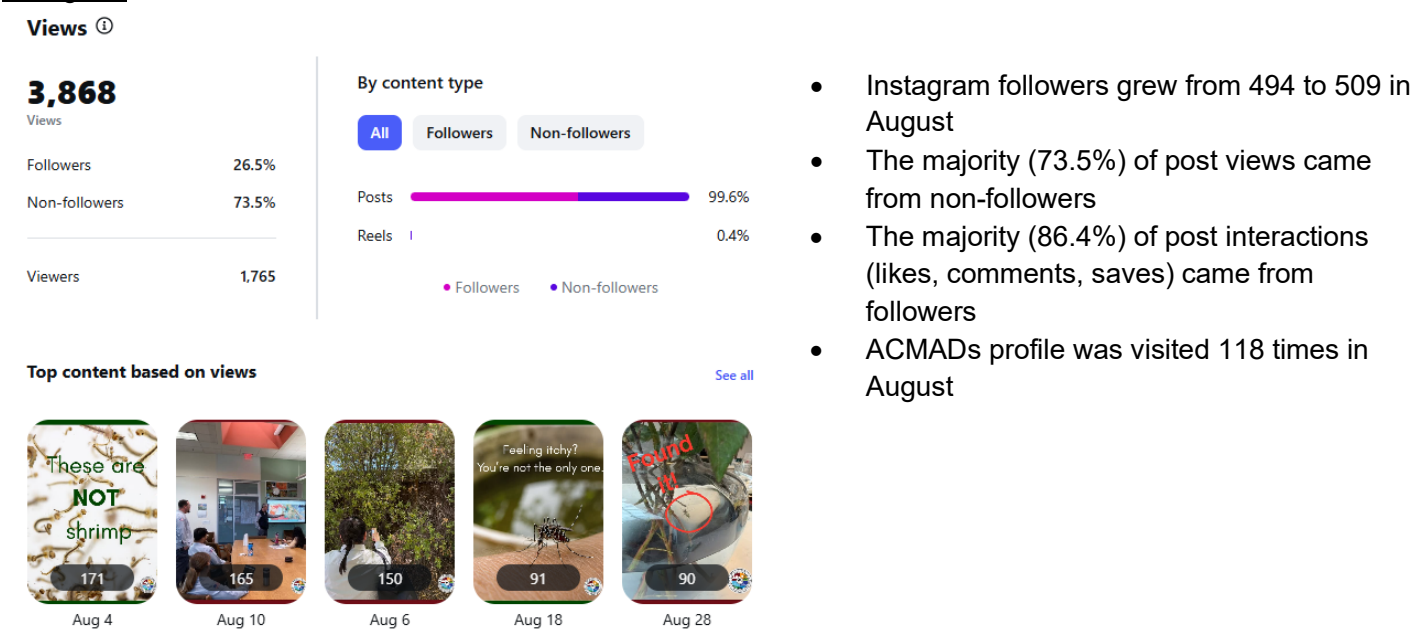
3. Social Media

Facebook

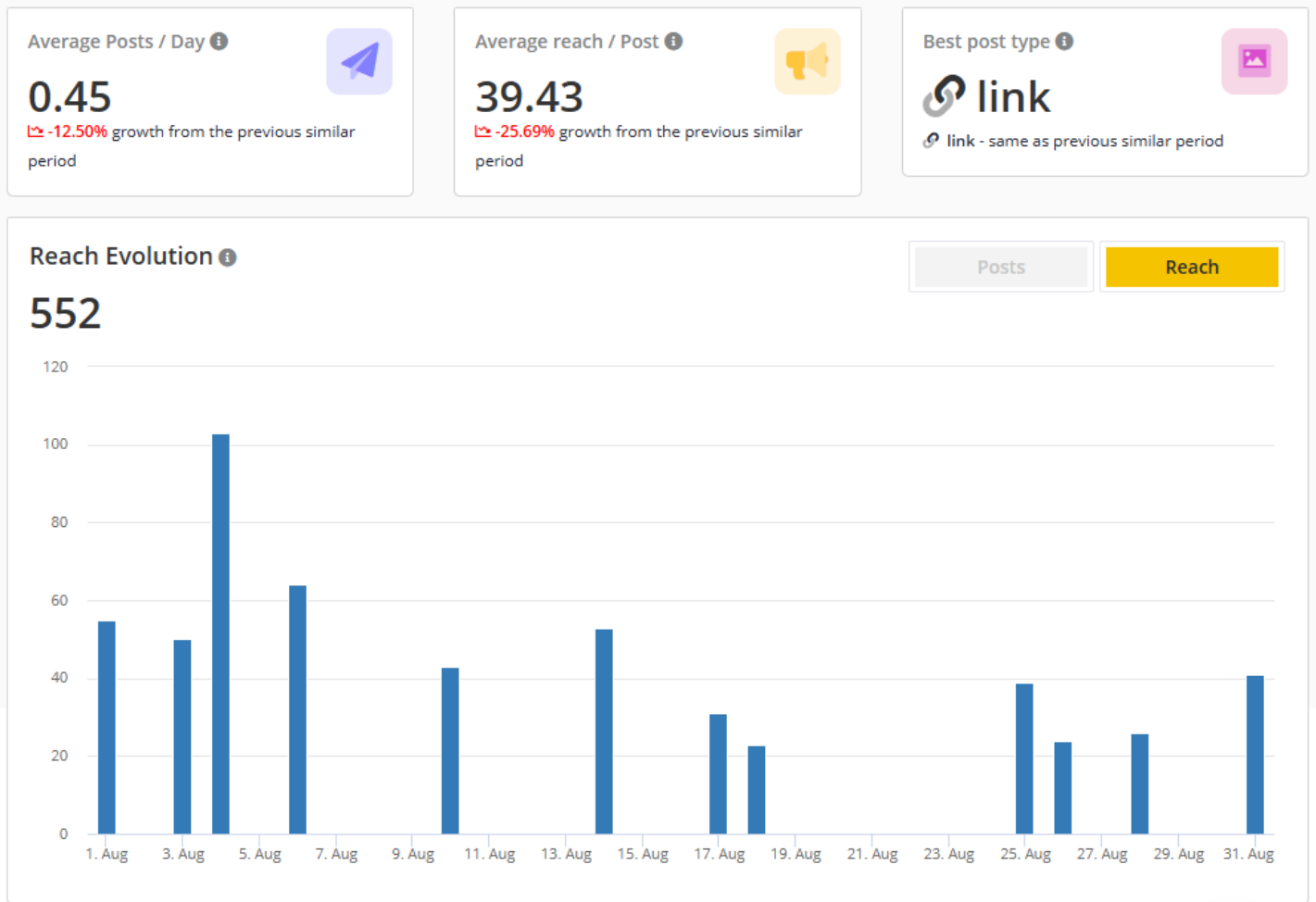


- Facebook views were dominated by ACMADs paid advertisements.
 - 1,711 views in August are from ACMAD posts
 - All views from Reels are attributed to the paid advertisement campaign

Instagram

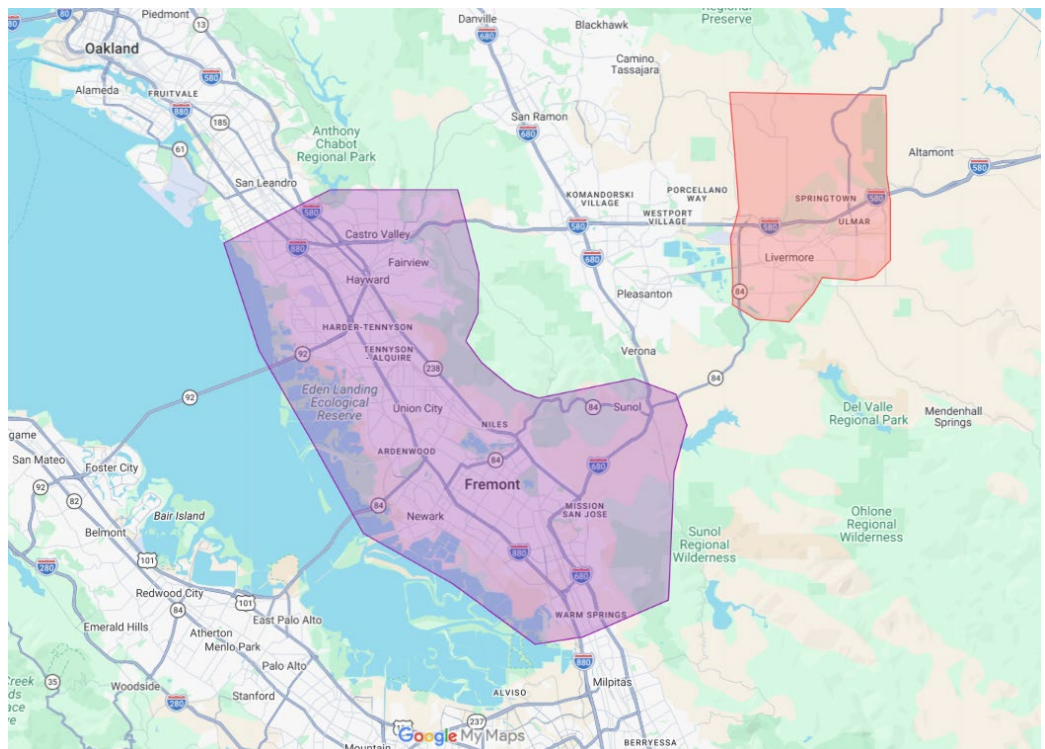


X / Twitter



Nextdoor

- *Aedes aegypti* information was posted in the purple areas.
 - Views: 3,154
- Wolbachia release information was posted in the light red area.
 - Views: 499



4. Advertising



Late July and August ads for the District focused on getting to know the District and showing residents the wide variety of tasks we do to reduce mosquitoes. Outreach also requested additional *Aedes aegypti* messaging and WNV prevention messaging to targeted areas in the Tri-Valley and southern Alameda County.

5. External Collaborations

- ACMAD worked with the following entities regarding the *Aedes aegypti* detection in Irvington:
 - City of Fremont
 - Fremont Police Department
 - Victoria Gardens Apartments
 - Irvington Terrace Apartments
 - Briarwood at Central Park Apartments
- ACMAD communications for the transition of the *Wolbachia* release sites in Livermore included:
 - City of Livermore
 - Livermore Police Department
 - Door to door notices in the new release site community