

AGENDA
1084th MEETING OF THE BOARD OF TRUSTEES
OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT
OCTOBER 14TH, 2020

TIME: 5:00 P.M.
PLACE: Teleconference Only, **see below**
TRUSTEES: Wendi Poulson President, City of Alameda
P. Robert Beatty, Vice-President, City of Berkeley
Betsy Cooley, Secretary, City of Emeryville
Cathy Roache, County-at-Large
Peggy McQuaid, City of Albany
Shawn Kumagai, City of Dublin
George Young, City of Fremont
Elisa Márquez, City of Hayward
James N. Doggett, City of Livermore
Eric Hentschke, City of Newark
Jan O. Washburn, City of Oakland
Andrew Mingst, City of Piedmont
Julie Testa, City of Pleasanton
Victor Aguilar, City of San Leandro
Subru Bhat, City of Union City

1. Call to order.
2. Roll call.
3. President Poulson invites any member of the public to speak at this time on any issue relevant to the District. (Each individual is limited to three minutes).
4. Introduction of new Board Member, Peggy McQuaid, representing the City of Albany (Information only).
5. Approval of the minutes of the 1083rd meeting held September 9th, 2020 (**Board action required**).
6. Report by the Finance Committee on CalPERS and OPEB planning (Information only).
 - a. ACMAD Pension Stabilization Fund Policy: Appendix 200-5
 - b. Excerpt from Bartel & Associates 2019 Report
7. Verbal Report by the Ad hoc Strategic Planning Committee (Information only).
8. Financial Reports as of September 30th, 2020: (Information only).
 - a. Check Register
 - b. Income Statement
 - c. Investments, reserves, and cash report
 - d. Balance Sheet (and attached guide)
9. Presentation of the Monthly Staff Report (Information only).
10. Presentation of the Manager's Report (Information only).

- a. Trustee Anniversary
- b. General Manager elected President of CSDA for 2021
- c. Trustee reappointments (Márquez, Doggett, Testa, Aguilar, Roache)
- d. Upcoming recertifications due: AB 1234: Cooley; AB 1825: Cooley, Beatty, Poulson
- e. 10/1/2020 memo to staff regarding quarantine rules
- f. November Regular Board Meeting cancelled because of Veteran's Day

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.

IMPORANT NOTICE REGARDING COVID-19 AND TELECONFERENCED MEETINGS:

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

- The District offices are not open to the public at this time.
- The meeting will be conducted via teleconference using Zoom. (See Executive Order 29-20)
- All members of the public seeking to observe and/or to address the local legislative body may participate in the meeting telephonically or otherwise electronically in the manner described below.

HOW TO OBSERVE THE MEETING:

Telephone: Listen to the meeting live by calling Zoom at **(669) 900-6833**
Enter the **Meeting ID#** 816 4633 7913 followed by the pound (#) key.

Computer: Watch the live streaming of the meeting from a computer by navigating to <https://us02web.zoom.us/j/81646337913>

Mobile: Log in through the Zoom mobile app on a smartphone and enter **Meeting ID#** 894 1038 8424

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

1083rd MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT

September 9th, 2020

TIME: 5:00 P.M.
PLACE: *Zoom Teleconference Only*
TRUSTEES: Wendi Poulson, President, City of Alameda
P. Robert Beatty, Vice-President, City of Berkeley
Betsy Cooley, Secretary, City of Emeryville
Cathy Roache, County-at-Large
Shawn Kumagai, City of Dublin
George Young, City of Fremont
Elisa Marquez, City of Hayward
James N. Doggett, City of Livermore
Eric Hentschke, City of Newark
Jan O. Washburn, City of Oakland
Andrew Mingst, City of Piedmont
Julie Testa, City of Pleasanton
Victor Aguilar, City of San Leandro
Subru Bhat, City of Union City

1. Board President Poulson called the regularly scheduled board meeting to order at 5:04 P.M.
2. Trustees Poulson, Beatty, Cooley, Roache, Young, Marquez, Doggett, Hentschke, Washburn, Mingst, Testa, Aguilar and Bhat were present on the Zoom conference. Trustee Kumagai was absent.
3. Board President Poulson invited members of the public to speak on any issue relevant to the District. Information Technology Director Robert Ferdan was on the teleconference call for technical support. No public comments were submitted prior or during the meeting.
4. Approval of the minutes of the 1082nd meeting held August 12th, 2020.
Motion: Trustee Marquez moved to approve the amended minutes
Second: Trustee Cooley
Vote: motion carries: unanimous.
5. Presentation by Eddie W. Lee, Senior Pension Actuary at CalPERS on ACMAD's Actuarial Valuation Report as of June 30th, 2019
Discussion: Following his report, Eddie W. Lee answered the following questions. Trustee Cooley asked what the effect of other Districts in the miscellaneous pool not paying their share has on the health of the pool and specifically ACMAD's funded status (CalPERS has a statutory requirement to obtain the funds from delinquent Districts and that delinquency does not affect other Districts in the miscellaneous pool). Trustee Bhat asked since the dip in the market due to COVID-19 was short, why would that affect the June 30, 2020 valuation report (the year to date return was 4.7% as of June 30th, 2020 which is 2.3% lower than the discount

rate of 7% so that will increase the unfunded liability. CalPERS has gained 5.5% since June 30th, 2020 so that increase may help erase those prior-year deficits).

6. Second reading and approval of revisions to chapter 300 of District policy

Discussion:

Policy Committee Trustees Bhat and Doggett commented that the additional grammatical changes submitted by Trustee Washburn improved the section.

Motion: Trustee Bhat moved to approve the amended minutes

Second: Trustee Aguilar

Vote: motion carries: unanimous.

7. Updated memo on COVID-19 sent from the District's Injury Illness Prevention Program Staff Committee to all staff on August 13th, 2020

Discussion: After a verbal report on this item from the General Manager, Trustee Beatty asked him if the District paid for the COVID-19 tests for employees (yes, indirectly through provided health coverage but many employees were tested without a fee at the City of Hayward testing facility).

8. Presentation of the Financial Reports as of August 31st, 2020

Discussion:

The General Manager presented the Financial Reports as of July 31st, 2020 and thanked Trustee Roache for her participation in signing checks and fielded the following discussion. Trustees Beatty and Hentschke asked if the Board will be considering pay down options as suggested by Eddie W. Lee of CalPERS. Trustee Cooley and the General Manager explained that the purpose of the CalPERS presentation was educational—to explain how to read a CalPERS valuation report. The Finance Committee will meet later this month to discuss financial plans for the pension and OPEB and will report back to the Board in October.

9. Presentation of the Monthly Staff Report.

Discussion:

The General Manager presented the Monthly Staff Report and fielded the following discussion. Trustee Bhat asked if West Nile virus found in Connecticut is indicative of a high WNV season (WNV is now endemic in the US and there has been no reports of unusually high WNV numbers in the US this year).

10. Presentation of the Manager's Report.

Discussion:

The General Manager presented the Manager's Report and fielded the following discussion. President Poulson recognized the professionalism of Vector Biologist Sarah Lawton who gave her a tour of District mosquito sources when she first became a Trustee. Trustees Washburn, Beatty, Marquez, Bhat, and Aguilar volunteered for the Ad Hoc Strategic Planning Committee. Trustees Beatty, Washburn, and Hentschke volunteered for the Ad Hoc Albany Trustee Search Committee.

11. Board President Poulson asked for reports on conferences and seminars attended by Trustees. None.

12. Board President Poulson asked for announcements from the Board and then offered her own District pride when finding a mosquito Ovi-Bucket trap in the field near where she lives.

13. Board President Poulson asked trustees for items to be added to the agenda for the next Board meeting. None.

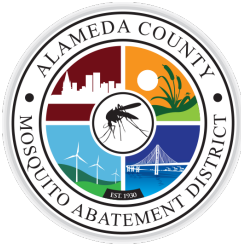
14. The meeting adjourned at 6:44 P.M.

Respectfully submitted,

Approved as written and/or corrected
at the 1084th meeting of the Board of
Trustees held October 14th, 2020

Wendi Poulson, President
BOARD OF TRUSTEES

Betsy Cooley, Secretary
BOARD OF TRUSTEES



23187 Connecticut Street
Hayward, CA 94545

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

acmad@mosquitoes.org

ACMAD Finance Committee OPEB & Pension Report:

Board of Trustees

President

Wendi Poulson

Alameda

Vice-President

Robert Beatty

Berkeley

Secretary

Betsy Cooley

Emeryville

The Finance Committee met on September 24th to review OPEB finances, and to discuss the September Regular Board Meeting's CalPERS pension presentation along with the June 2019 Bartel Associates, LLC CalPERS Actuarial Issues report.

The Committee recommends that the Board of Trustees review the Finance Policies to guide pension funding strategies (attached) using specific slides (attached) from Bartel & Associates that forecast future CalPERS costs.

Cathy Roache

County at Large

Peggy McQuaid

Albany

Shawn Kumagai

Dublin

George Young

Fremont

Elisa Márquez

Hayward

James N. Doggett

Livermore

Jan O. Washburn

Oakland

Eric Hentschke

Newark

Andrew Mingst

Piedmont

Julie Testa

Pleasanton

Victor Aguilar

San Leandro

Subru Bhat

Union City

Attached: ACMAD Reserve Policies; Bartel Associates, LLC CalPERS Actuarial Issues report.

Ryan Clausnitzer

General Manager

APPENDIX 200-5

ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT PENSION STABILIZATION FUND

Purpose of Fund:

The purpose of the Pension Stabilization Fund is to ensure that increasing pension costs are offset by investments in interest-earning accounts.

Policy:

In order to achieve the objectives of this policy the Board of Trustees shall adhere to the following guidelines:

1. This fund shall be known as the "Pension Stabilization Fund."
2. The Pension Stabilization Fund shall be designated as a Restricted Fund.
3. These funds will be used to offset increases in pension costs from unfunded liabilities.
4. The Pension Stabilization Fund will be invested in financial institutions that restrict the funds for only pension-related expenses.
5. This policy shall be reviewed on an annual basis for long-term adequacy and use restriction.

Target Fund Level:

The target balance of this fund is based on the annual CalPERS actuarial report of unfunded liability. This target balance will consider funds in CalPERS combined with the amount in PARS to not exceed 100% of liabilities. If under-funded, 25% of excess revenues will be deposited into the PARS 115 Trust.

Withdrawal:

Withdrawals may be considered in the event of:

- pension costs affecting operational costs
- if the growth of pension contribution rates (in dollars) is greater than the growth in property tax revenue
- paying off specific pension liabilities that will result in interest savings greater than interest earnings on the Trust Fund
- economic conditions or fiscal demands arise, e.g. non-discretionary expenditures exceeding revenues



**ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT
MISCELLANEOUS PLAN**

BARTEL ASSOCIATES, LLC

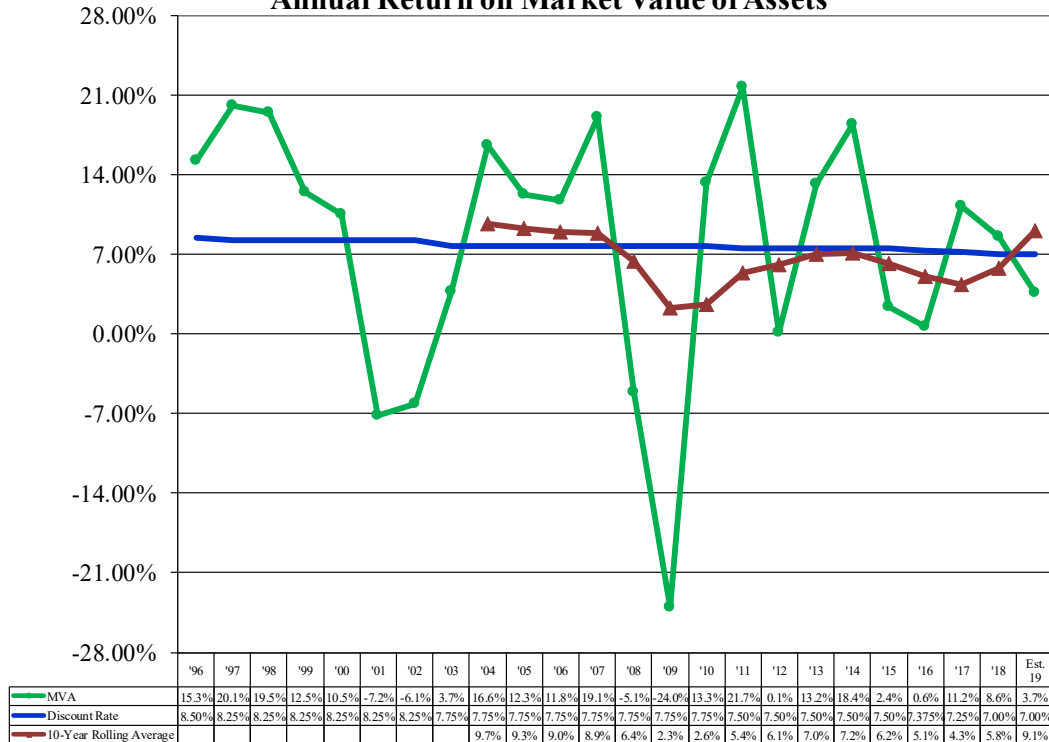
CalPERS Actuarial Issues – 6/30/17 Valuation

Doug Pryor, Vice President
 Bianca Lin, Assistant Vice President
 Wai Man Yam, Actuarial Analyst
Bartel Associates, LLC

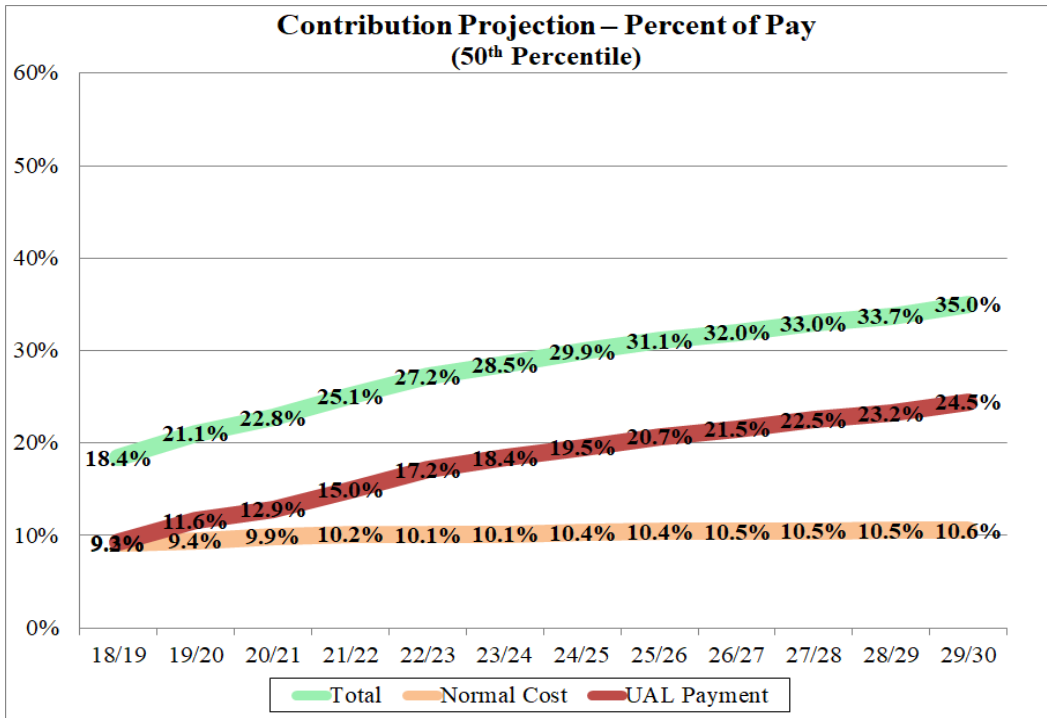
June 12, 2019

HOW WE GOT HERE – INVESTMENT RETURN

Annual Return on Market Value of Assets



CONTRIBUTION PROJECTIONS - MISCELLANEOUS

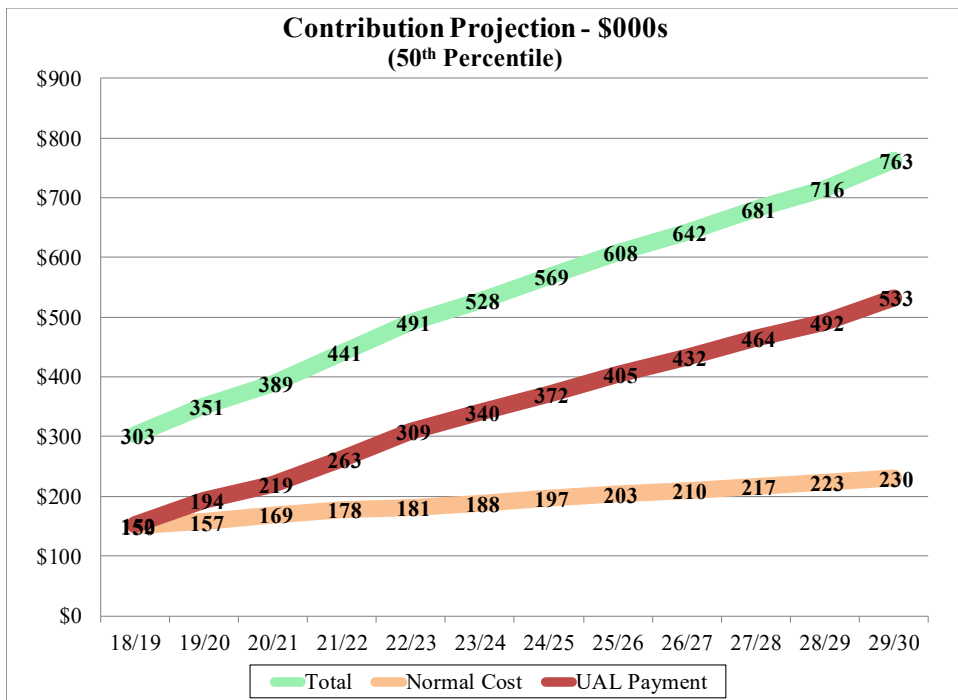


June 3, 2019

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CONTRIBUTION PROJECTIONS - MISCELLANEOUS



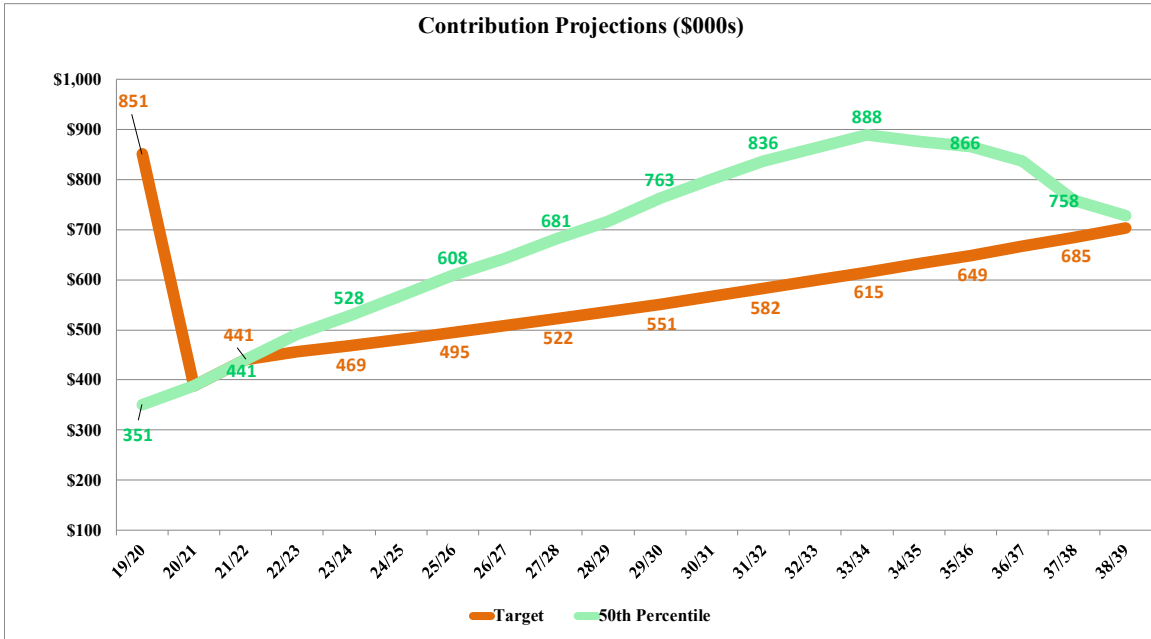
June 3, 2019

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IRREVOCABLE SUPPLEMENTAL (§115) PENSION TRUST

Payment to 115 Trust Miscellaneous



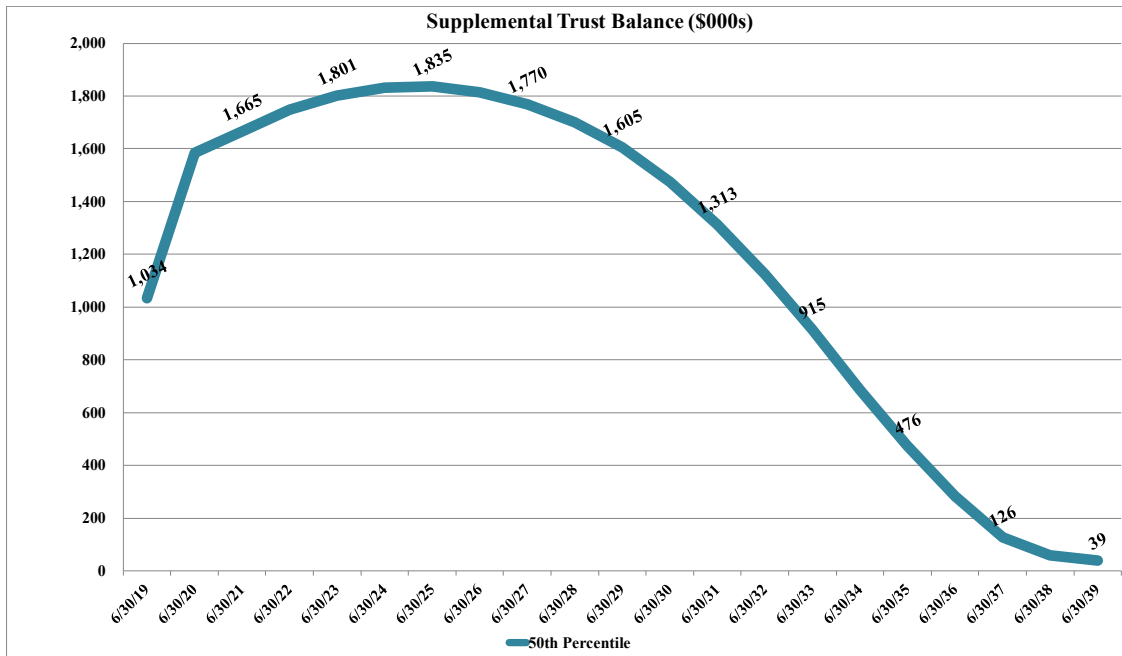
June 3, 2019

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IRREVOCABLE SUPPLEMENTAL (§115) PENSION TRUST

Payment to 115 Trust Miscellaneous



June 3, 2019

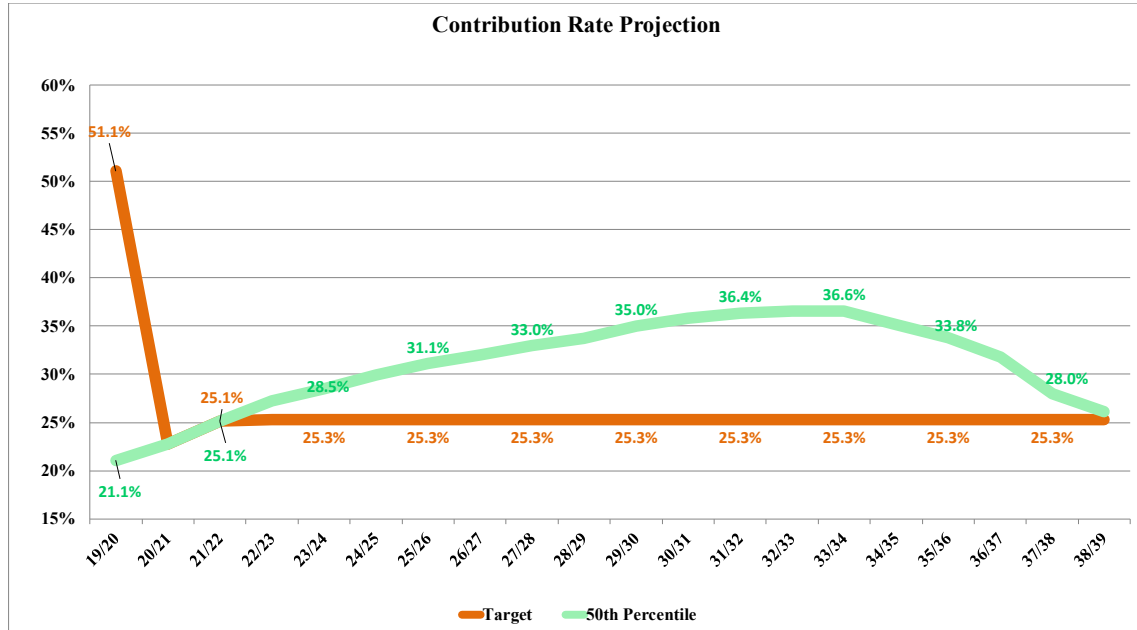
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IRREVOCABLE SUPPLEMENTAL (§115) PENSION TRUST

Scenario 1 - 115 Trust

Contribution Rate Projection



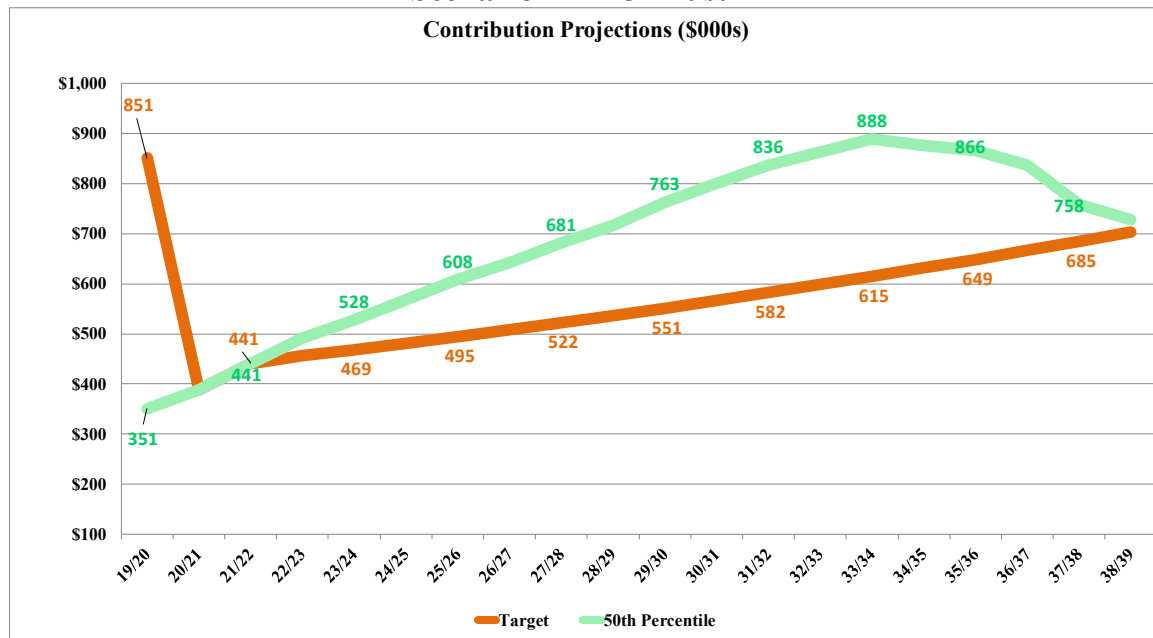
June 12, 2019



IRREVOCABLE SUPPLEMENTAL (§115) PENSION TRUST

Scenario 1 - 115 Trust

Contribution Projections (\$000s)

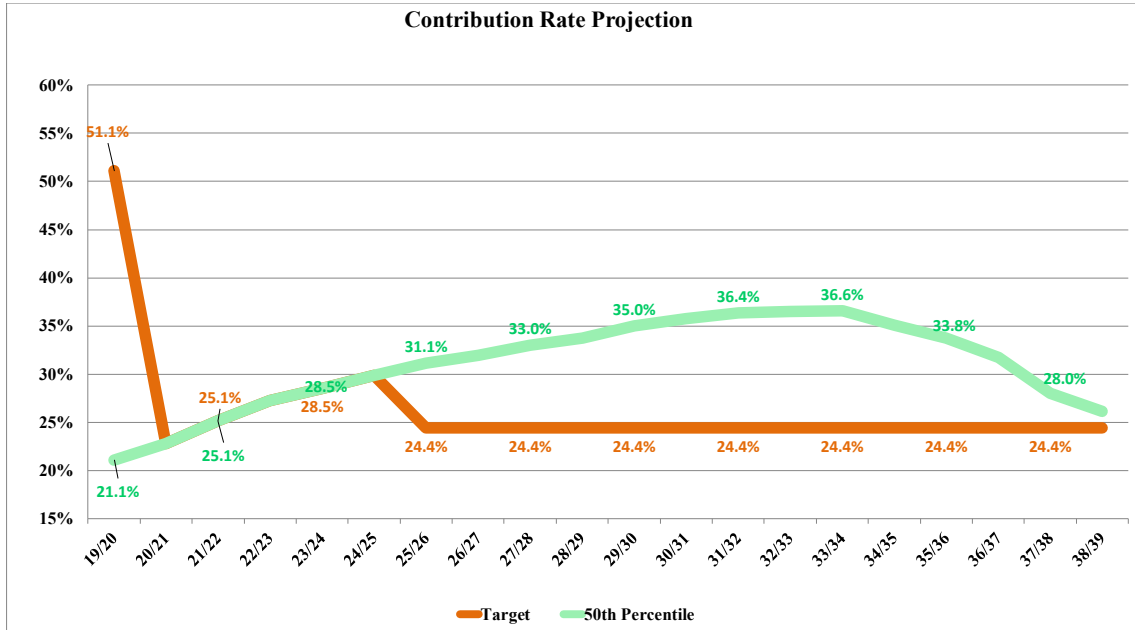


June 12, 2019



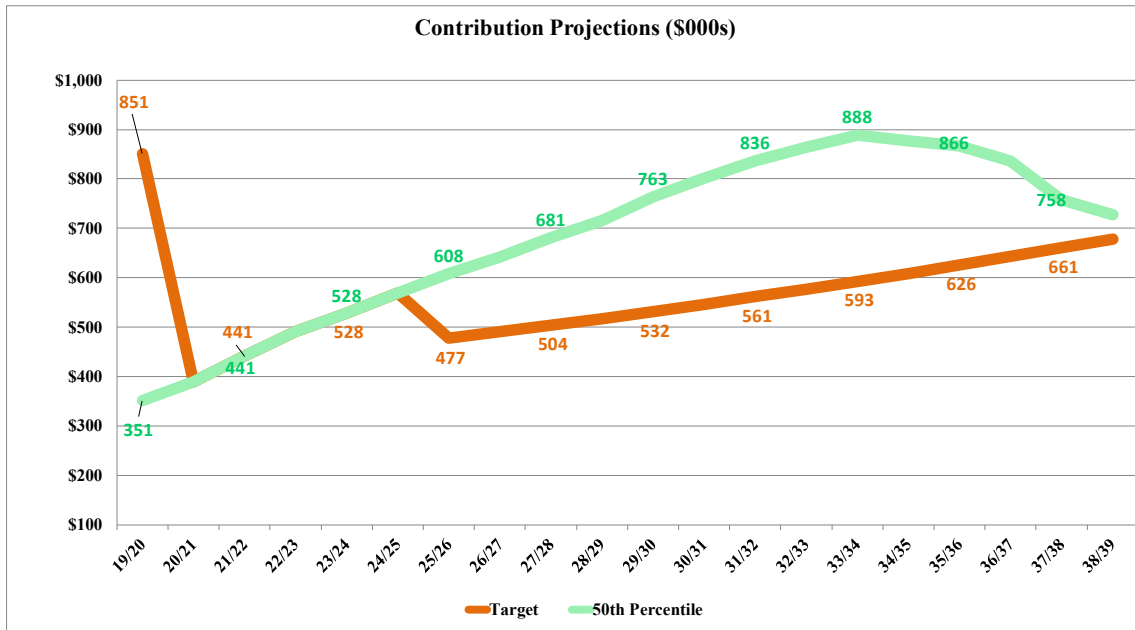
IRREVOCABLE SUPPLEMENTAL (§115) PENSION TRUST

Scenario 2 - 115 Trust Contribution Rate Projection



IRREVOCABLE SUPPLEMENTAL (§115) PENSION TRUST

Scenario 2 - 115 Trust Contribution Projections (\$000s)



Alameda County Mosquito Abatement Dist.
Check Register
For the Period From Sep 1, 2020 to Sep 15, 2020

Filter Criteria includes: Report order is by Date.

Check #	Date	Payee	Amount
2351	9/14/20	Airgas	209.31
2352	9/14/20	AT&T	68.99
2353	9/14/20	Best Best & Krieger	1,890.00
2354	9/14/20	California Department of Public Health	237.00
2355	9/14/20	CarQuest	89.34
2356	9/14/20	Cintas	330.42
2357	9/14/20	Coverall North America, Inc.	495.00
2358	9/14/20	Doggett, James N	100.00
2359	9/14/20	Grainger	1,688.72
2360	9/14/20	Hentschke, Eric Armin	100.00
2361	9/14/20	Demsey, Filliger,& Associates, Inc.	500.00
2362	9/14/20	Industrial Park Landscape Maintenance	226.00
2363	9/14/20	KBA Docusys	449.57
2364	9/14/20	NBC Supply Corp	395.10
2365	9/14/20	PC Professional	2,475.00
2366	9/14/20	PG&E	61.68
2367	9/14/20	PFM Asset Management	1,781.90
2368	9/14/20	Testa, Julie	100.00
2369	9/14/20	VCO	6,524.17
2370	9/14/20	Veseris	9,870.48
2371	9/14/20	Voya Institutional Trust Company	178.51
2372	9/14/20	U.S Bank Corporate Payment System	19,415.76
2373	9/14/20	Young, George	100.00
ACH	9/14/20	Aguilar, Victor	100.00
ACH	9/14/20	Alameda County Mosquito Abatement Dist (Payroll)	75,425.35
ACH	9/14/20	Beatty, Robert .P	100.00
ACH	9/14/20	Bhat, Subrahmanya Y	100.00
ACH	9/14/20	CalPERS Retirement	14,483.05
ACH	9/14/20	CalPERS 457	3,051.86
ACH	9/14/20	Cooley, Elizabeth	100.00
ACH	9/14/20	Marquez, Elisa	100.00
ACH	9/14/20	Mingst, Andrew	100.00
ACH	9/14/20	Poulson, Wendi Lynn	100.00
ACH	9/14/20	Roache, Cathy J Pinkerton.	100.00
ACH	9/14/20	Washburn, Jan	100.00
Total Expenditures - September 15, 2020			141,147.21

Alameda County Mosquito Abatement Dist.
Check Register
 For the Period From Sep 16, 2020 to Sep 30, 2020

Filter Criteria includes: Report order is by Date.

Check #	Date	Payee	Amount
2374	9/28/20	Adapco	2,504.91
2375	9/28/20	Airgas	410.19
2376	9/28/20	Bay Alarm	509.25
2377	9/28/20	Beck's Shoes	190.00
2378	9/28/20	Cintas	330.42
2379	9/28/20	Hayward Water System	563.02
2380	9/28/20	Mar-Len Supply, Inc.	4,041.50
2381	9/28/20	PG&E	24.64
2382	9/28/20	Pitney Bowes	94.82
2383	9/28/20	Techniclean	431.53
2384	9/28/20	The Hartford	121.29
2385	9/28/20	Verizon	1,144.05
2386	9/28/20	Voya Institutional Trust Company	178.51
2387	9/28/20	VSP	702.82
2388	9/28/20	Waste Management of Alameda County	280.83
2389	9/28/20	WEX Bank	3,057.46
ACH	9/28/20	Alameda County Mosquito Abatement Dist (Payroll)	77,227.00
ACH	9/28/20	CalPERS Health	34,406.35
ACH	9/28/20	CalPERS Retirement	14,529.39
ACH	9/28/20	CalPERS 457	3,053.18
Total Expenditures - September 30, 2020			143,801.16

Alameda County Mosquito Abatement District
Income Statement
September 30, 2020. (3 of 12 mth, 25%)

REVENUES	Actual 2018/19	Actual 2019/20 ¹	Current Month	Year to Date 2020/21	Budget 2020/21	Actual vs Budget
Total Revenue	\$ 4,922,549.00	\$ 4,986,220.87	\$ 233,622.87	\$ 117,573.26	\$ 4,346,513.00	3%

EXPENDITURES	Actual 2018/19	Actual 2019/20 ¹	Current Month ²	Year to Date 2020/21	Budget 2020/21	Actual vs Budget
Salaries	\$ 1,894,209.00	\$ 1,970,928.74	\$ 168,749.27	\$ 506,248.09	\$2,116,177	24%
CalPERS Retirement	\$ 310,838.00	\$ 378,832.61	\$ 17,132.87	\$ 268,797.26	\$423,350	63%
Medicare	\$ 25,149.00	\$ 29,651.04	\$ 2,244.71	\$ 6,825.96	\$31,278	22%
Fringe Benefits	\$ 452,960.00	\$ 465,466.14	\$ 35,230.46	\$ 115,670.59	\$527,031	22%
Total Salaries, Retirement, & Benefits	\$ 2,683,156.00	\$ 2,844,878.53	\$223,357	\$897,542	\$3,097,836	29%
Clothing and personal supplies (purchased)	\$ 8,899.00	\$ 6,213.94	\$ 190.00	\$ 280.67	\$10,000	3%
Laundry service and supplies (rented)	\$ 12,603.00	\$ 10,648.44	\$ 660.84	\$ 2,140.52	\$15,000	14%
Utilities	\$ 30,161.00	\$ 25,962.21	\$ 930.17	\$ 2,104.54	\$12,000	18%
Communications-IT	\$ 108,868.00	\$ 80,735.47	\$ 7,075.13	\$ 12,566.20	\$111,400	11%
Maintenance: structures & improvements	\$ 13,673.00	\$ 16,678.86	\$ 1,885.79	\$ 5,714.14	\$25,000	23%
Maintenance of equipment	\$ 43,629.00	\$ 20,599.88	\$ 3,616.10	\$ 7,963.76	\$35,000	23%
Transportation, travel, training, & board	\$ 98,433.00	\$ 95,813.55	\$ 4,972.98	\$ 15,319.94	\$122,400	13%
Professional services	\$ 115,324.00	\$ 111,224.89	\$ 4,171.90	\$ 28,416.95	\$176,200	16%
Memberships, dues, & subscriptions	\$ 20,774.00	\$ 26,316.50	\$ 290.00	\$ 11,370.00	\$23,337	49%
Insurance - (VCJPA, UAS)	\$ 124,688.00	\$ 134,833.60	\$ -	\$ 140,724.21	\$137,524	102%
Community education	\$ 34,861.00	\$ 23,283.51	\$ 703.86	\$ 895.01	\$38,575	2%
Operations	\$ 206,731.00	\$ 179,304.00	\$ 15,070.81	\$ 32,412.83	\$241,000	13%
Household expenses	\$ 18,655.00	\$ 14,817.21	\$ 1,653.53	\$ 3,900.07	\$16,750	23%
Office expenses	\$ 11,795.67	\$ 13,760.57	\$ 764.93	\$ 795.21	\$12,000	7%
Laboratory supplies	\$ 95,640.00	\$ 100,794.23	\$ 12,839.68	\$ 21,829.88	\$139,000	16%
Small tools and instruments	\$ 2,211.00	\$ 2,055.54	\$ 157.00	\$ 238.95	\$3,000	8%
Total Staff Budget	\$ 946,945.67	\$ 863,042.40	\$ 54,982.72	\$ 286,672.88	\$1,118,186	26%
Total Operating Expenditures	\$ 3,630,101.67	\$ 3,707,920.93	\$ 278,340.03	\$ 1,184,214.78	\$4,216,022	28%

Total Expenditures

1 - As of June 30, 2020. Unaudited.

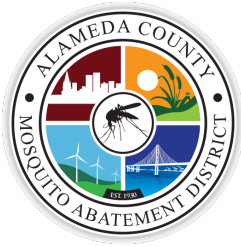
2 - Total Operating Expenditures in current month may not match the check register due to accounts receivables and petty cash transactions.

**Alameda County Mosquito Abatement District
Investment, Reserves, and Cash Balance Report
September 30, 2020. (3 of 12 mth, 25%)**

Account #	Investment Accounts	Beginning Balance	Deposits	Withdrawals	Interest Activity	Ending Balance
1004	LAIF	\$ 1,837,170.85	\$ -	\$ (278,000.00)	\$ -	\$ 1,559,170.85
1005	OPEB Fund	\$ 4,805,294.77	\$ -	\$ -	\$ (67,834.66)	\$ 4,737,460.11
1006	VCJPA Member Contingency	\$ 374,772.00	\$ -	\$ -	\$ -	\$ 374,772.00
1008	CAMP: Repair and Replace	\$ 1,046,492.14	\$ -	\$ (6,524.17)	\$ 234.38	\$ 1,040,202.35
1009	CAMP: Public Health Emergency	\$ 525,706.84	\$ -	\$ -	\$ 118.12	\$ 525,824.96
1010	CAMP: Operating Reserve	\$ 1,942,431.62	\$ -	\$ -	\$ 436.44	\$ 1,942,868.06
1011	CAMP: Capital Reserve Fund	\$ 59,049.50	\$ -	\$ -	\$ 13.27	\$ 59,062.77
1012	PARS: Pension Stabilization ¹	\$ 1,674,095.84	\$ -	\$ -	\$ 27,852.27	\$ 1,701,948.11
Total		\$ 12,265,013.56	\$ -	\$ (284,524.17)	\$ (39,180.18)	\$ 11,941,309.21
		Beginning Balance			Activity	Ending Balance
Cash Accounts				Withdrawals		
1001	Bank of America (Payroll Account) *	\$ 108,058.56			-	\$ 106,935.29
1002	Bank of The West (Transfer Account) *	\$ 235,738.38			-	\$ 218,790.59
1003	County Account	\$ 588,534.12	\$ -	\$ -	\$ 117,274.76	\$ 705,808.88
1013	Petty Cash	\$ 460.87	\$ -	\$ -	\$ -	\$ 460.87
Total		\$ 932,791.93	\$ -	\$ -	\$ 117,274.76	\$ 1,031,995.63

1 -PARS - Pension Stabilization balance is as of August 31, 2020.

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



Board of Trustees

President

Wendi Poulson

Alameda

Vice-President

Robert Beatty

Berkeley

Secretary

Betsy Cooley

Emeryville

Cathy Roache

County at Large

Peggy McQuaid

Albany

Shawn Kumagai

Dublin

George Young

Fremont

Elisa Márquez

Hayward

James N. Doggett

Livermore

Jan O. Washburn

Oakland

Eric Hentschke

Newark

Andrew Mingst

Piedmont

Julie Testa

Pleasanton

Victor Aguilar

San Leandro

Subru Bhat

Union City

Ryan Clausnitzer

General Manager

1. OPERATIONS REPORT

Beginning September 1st, ACMAD's annual ditch maintenance/source reduction permit period for 2020-2021 began. This permit is in effect until January 31, 2021 and allows ACMAD to remove vegetation, debris, and silt from existing ditches in various marsh mosquito sources with simple hand tools. ACMAD is currently the only District in the region to have an active permit. The process for obtaining a permit has become more complex over time and involves approval from numerous agencies including the U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, National Marine Fisheries Service, California Regional Water Quality Board, and the San Francisco Bay Conservation & Development Commission.

Source reduction, including the initial construction of these drainage ditches, was the focus of ACMAD's program in the early years of the District's 90-year history and is integral to an effective Integrated Vector Management program. The goal is to prevent water from ponding in tidal salt marsh habitats which can lead to mosquito breeding. These areas, if unmaintained or left untreated, can produce significant numbers of *Aedes dorsalis* mosquitoes. When high tide water impounds in depressions along vegetated portions of these marshes, *Ae. dorsalis* eggs can hatch, proceed rapidly through their instars, and emerge as adults in less than a week. This species is a very aggressive day-biting mosquito that can travel miles from these marsh sources.

Over time, debris and vegetation choke the ditches causing silt to build up and if unmaintained, will no longer function and eventually disappear. Many of these marshes are sensitive habitats and must be inspected and treated by hand. Well-maintained ditches lower the need for treatments and when cleared, are more visible to operations staff walking in the marshes--reducing injuries. In September, operations staff cleared 1,886 linear feet of ditches.

On non-ditching days (Monday, Tuesday, and Friday), operations focused on inspecting and treating for *Culex pipiens*, *Culex tarsalis*, and *Culex erythrorhox*. These are our three main potential West Nile virus (WNV) vectoring species. Our WNV program will continue until these species sequester for the year due to rainfall and cooler temperatures. In September, two dead birds collected tested positive for WNV by the ACMAD lab. In Alameda County, we often see much of our WNV activity later in the season, so operations continue a heightened vigilance until field staff determine these species have ceased activity for the year. Continued high tide cycles in September also prompted more treatments, including the use of the A-1 mist blower, for *Ae. dorsalis*.

Operations responded to 93 requests for service during September. One interesting note, three of these requests were to pick up mosquito fish rather than delivery. When we deliver and plant fish, we educate the public and also often mention that if the water source is removed to call us to collect the fish as opposed to letting them die. It is rare that we receive one of these calls, let alone three in one month. We view mosquito fish as an important resource for biological control and are always happy to save them for future requests.

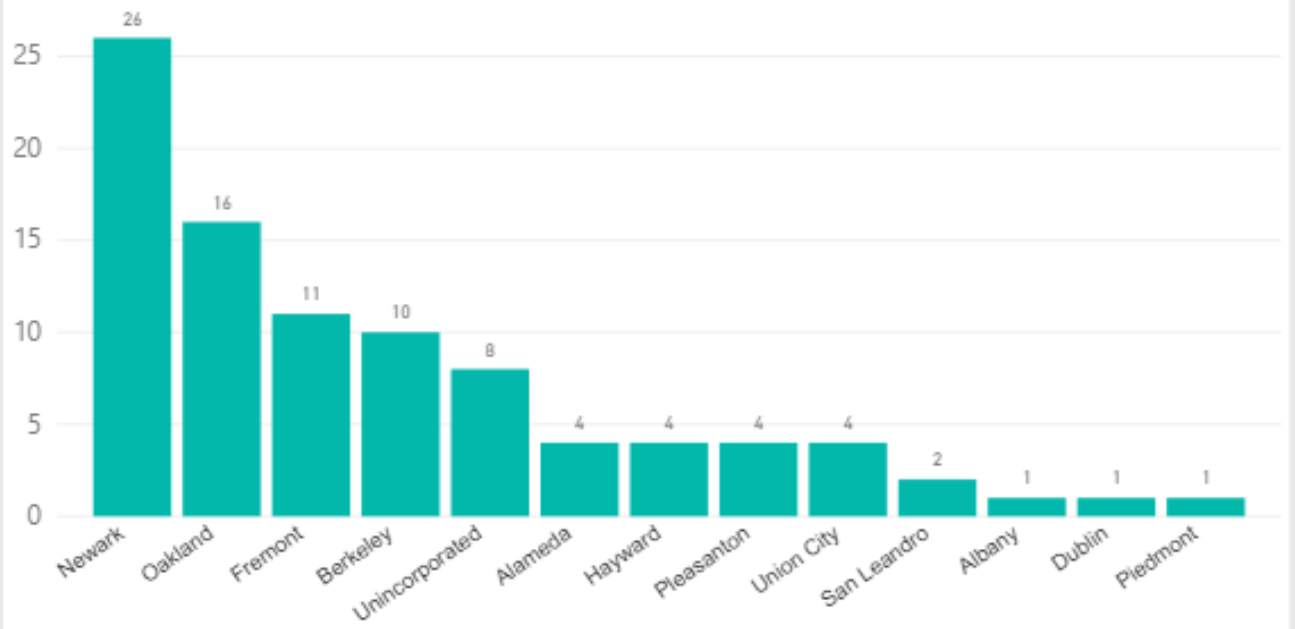
Field Operations Supervisor
Joseph Huston

A. District Data

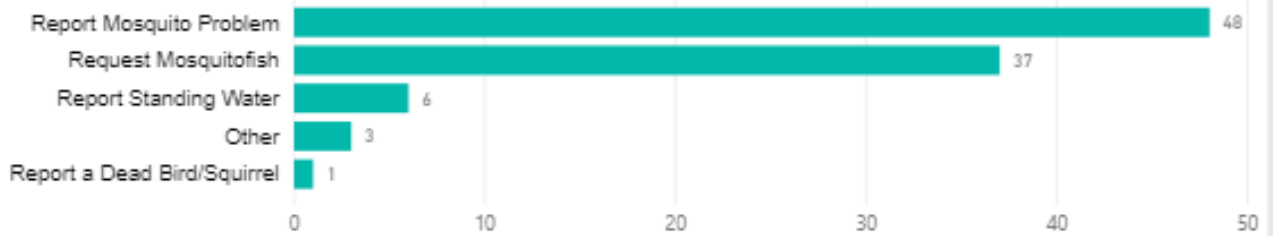
1. Service Requests

September SR Count	September 10 Year Min Count	September 10 Year Max Count	September 10 Year Average
93	61	128	96.45

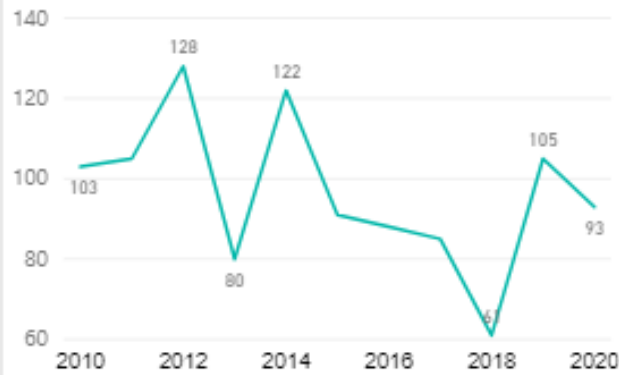
July SR Count by City



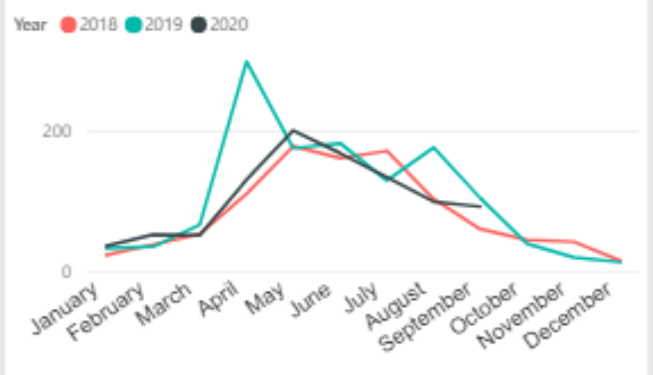
September Count by SR Type



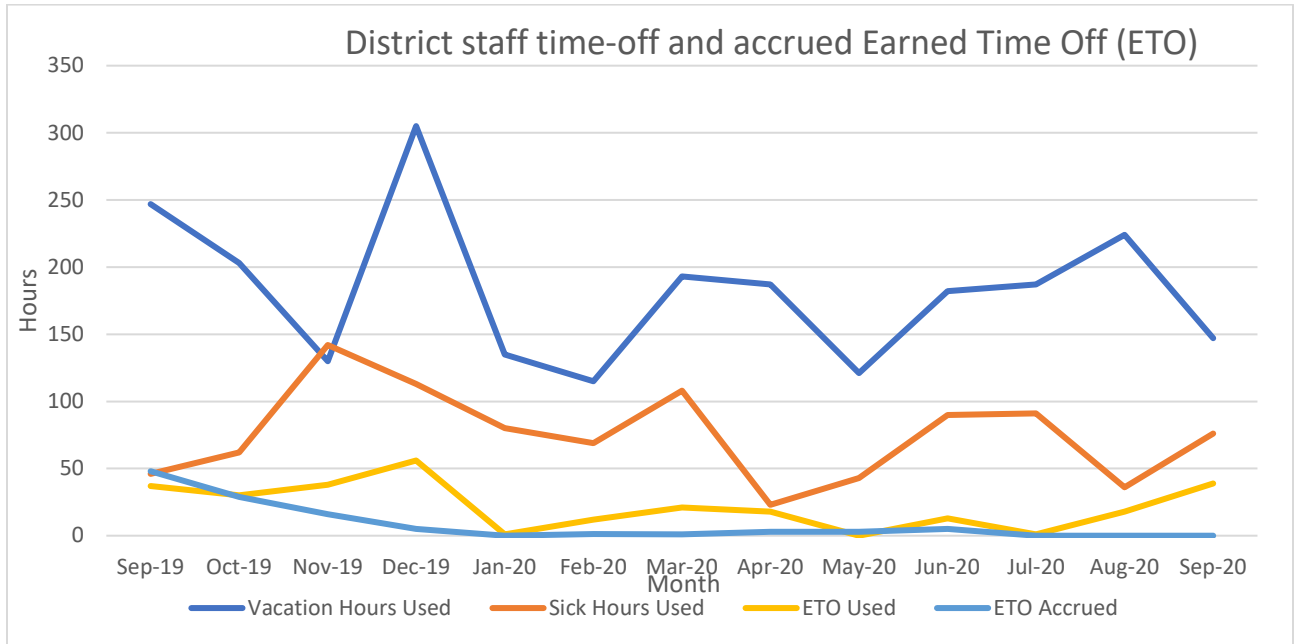
September SR's by Year - 10 Year History



Year Over Year Comparison

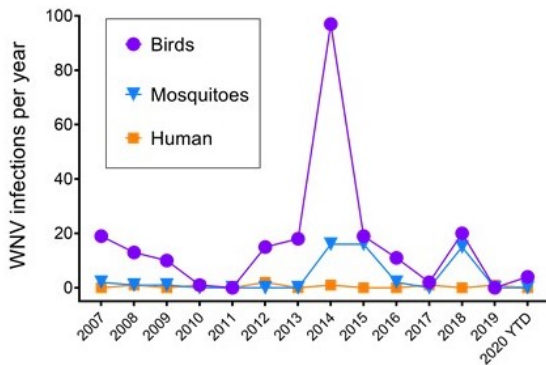


2. Activity Report

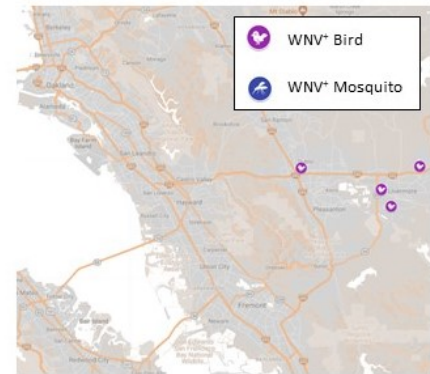


3. WNV Activity

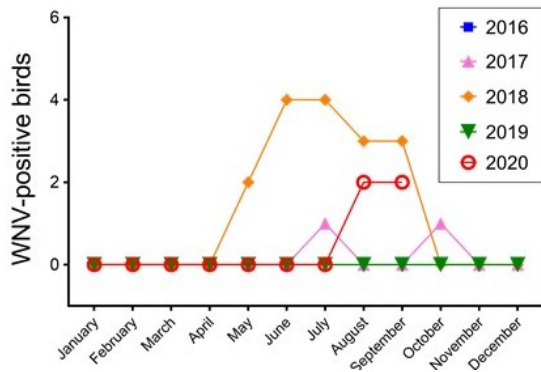
WNV infections detected in Alameda County
2005 – 2020 YTD



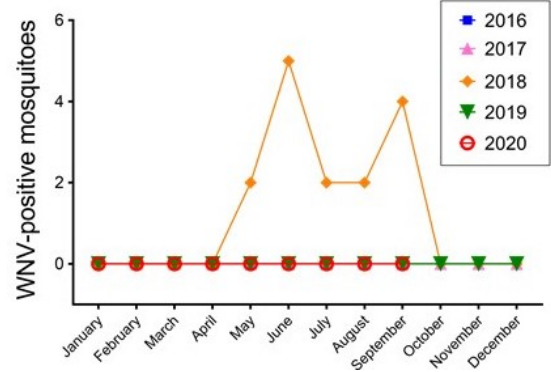
Locations of WNV-infected mosquitoes and birds
collected in Alameda County during 2020



WNV-infected birds collected in
Alameda County



WNV-infected mosquitoes collected in
Alameda County



2. LAB

Summary

- West Nile virus (WNV) was detected in two American crows that were collected in Livermore.
- Arboviruses have not been detected in mosquitoes during 2020.
- Invasive *Aedes* mosquitoes have not been detected in Alameda County during 2020.
- Mosquito abundance during September 2020 as measured using CO₂-baited encephalitis virus survey (EVS) traps was 16% lower relative to the prior month and approximately 2-fold higher than what was observed for September 2018 and 2019.
- New Jersey Light Traps (NJLT) captured only 144 mosquitoes during September 2020, which was on average 1.2-fold greater than the same period of 2018 and 2019.
- A total of 4610 mosquitoes were captured in traps and identified to species during September 2020.

Arbovirus Monitoring

- WNV was detected in two American crows that were collected in Livermore.
- None of the mosquitoes that were collected during 2020 contained WNV, Saint Louis encephalitis virus (SLEV) or Western equine encephalitis virus (WEEV).
- None of the sentinel chickens in Livermore have seroconverted, indicating that they have not been infected with WNV, SLEV, or WEEV.

Native Mosquito Abundance

- Over the course of 224 trap nights, a total of 4466 mosquitoes were captured in EVS traps (Figure 1). There were on average 19.9 mosquitoes captured per trap night during September 2020; for the prior month, there were 23.6 mosquitoes captured per trap night (a 16% decrease). *Culex erythrothorax*, which is a WNV vector, was the most common species collected in the EVS CO₂ traps during September 2020, representing 55% of the mosquitoes that were collected (Figure 2 and Figure 3A). EVS traps captured approximately 2-fold more mosquitoes relative to September of the prior two years (2018 and 2019).
- Mosquito abundance in the areas of Livermore where the WNV-positive birds were collected was very low, but each WNV vector species was detected throughout the region (Figure 3B).
- Approximately 1% of the EVS CO₂ traps that were placed during September did not capture any mosquitoes.
- Mosquito abundance, as measured using NJLT, remained very low for September 2020 (0.76 mosquitoes / trap night; total of 144 mosquitoes over 189 trap nights; Figure 4). *Culiseta incidens*, which is not a WNV vector, remained the most abundant species collected in NJLT (Figure 5). The greatest number of mosquitoes were collected in the Berkeley NJLT (n = 68; Figure 6). The number of mosquitoes captured in NJLT during September 2020 was on average 1.2-fold higher compared to the same period of the prior two years.
- Notably, adult *Aedes washioni* were not captured in any trap during September. During the prior month, this species was detected in the coastal and inland regions of the county.

FIGURES

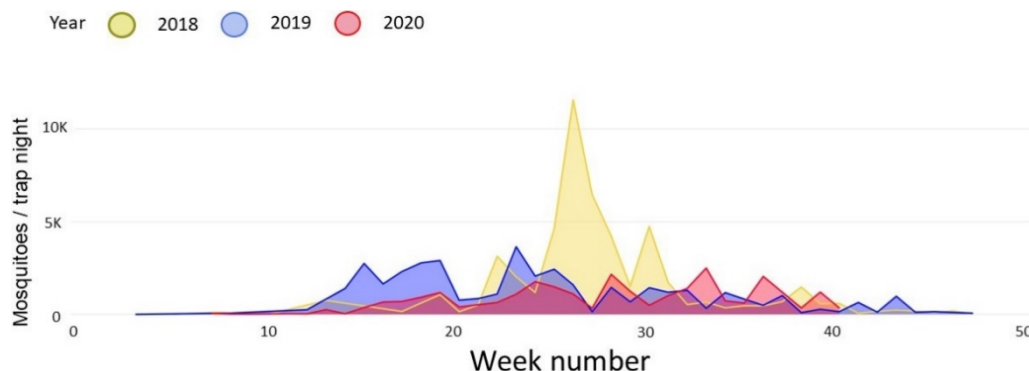


Figure 1. Mosquitoes captured in EVS CO₂ traps from 2018 – 2020. A total of 4610 mosquitoes were captured in EVS CO₂ traps during September 2020 and identified to species.

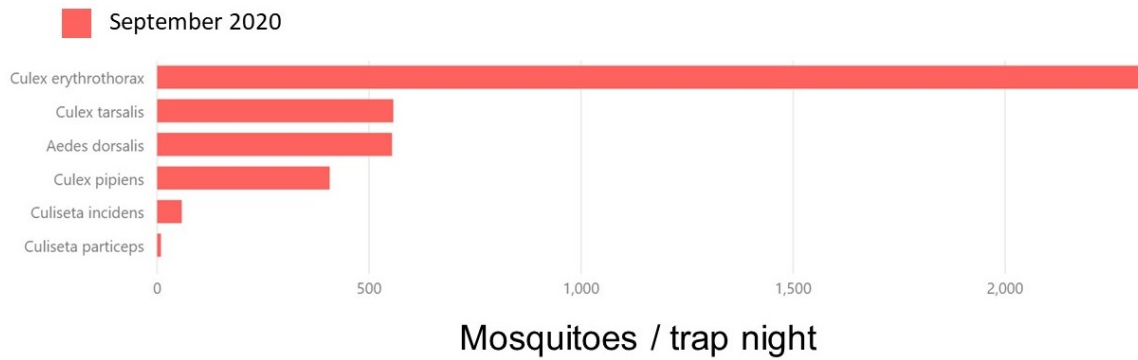


Figure 2. The most abundant species of mosquito captured using EVS CO₂ traps.

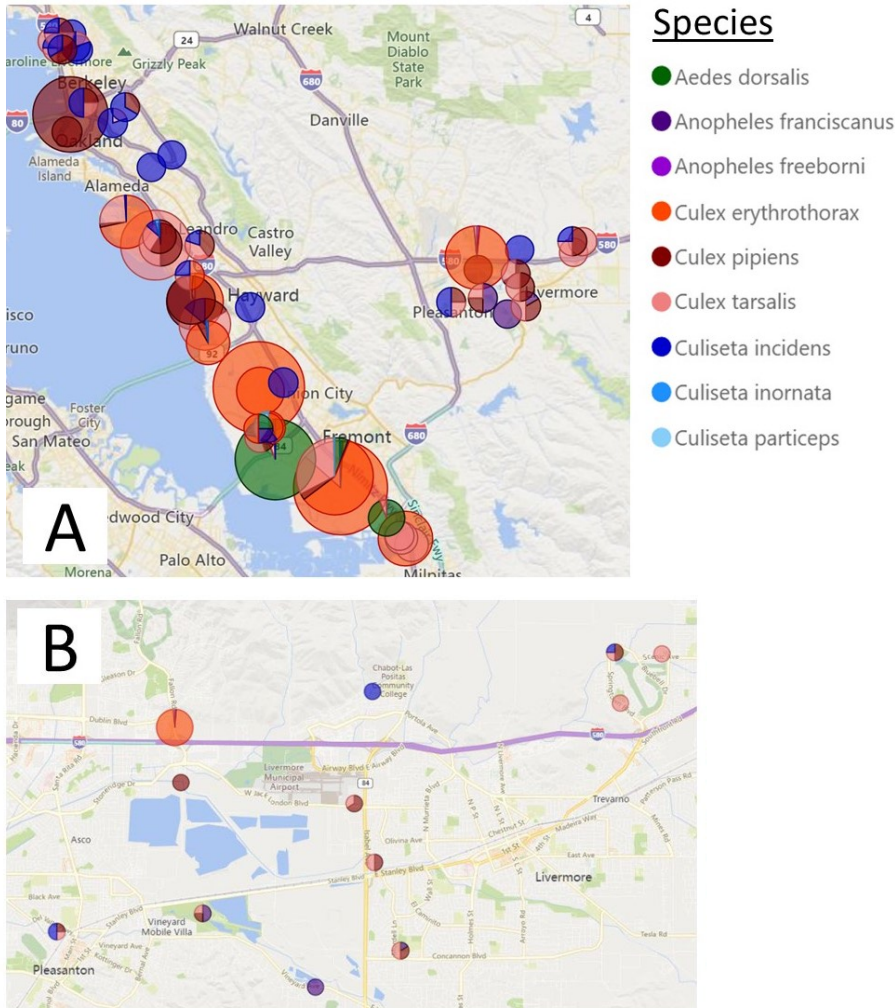


Figure 3. Mosquito abundance by trap site evaluated using EVS CO₂ traps. Pie charts over trap sites indicate the distribution of mosquito species collected at the trap site. The size of the pie charts indicates the relative number of mosquitoes at each site during September 2020. (A) Entirety of Alameda County. The largest orange pie chart in the bayside region of Union City represents 328 adult *Cx. erythrothorax*. (B) East county region where the two WNV-positive American crows were collected during September. The largest orange pie chart in the eastern region of the county represents 135 adult *Cx. erythrothorax*.

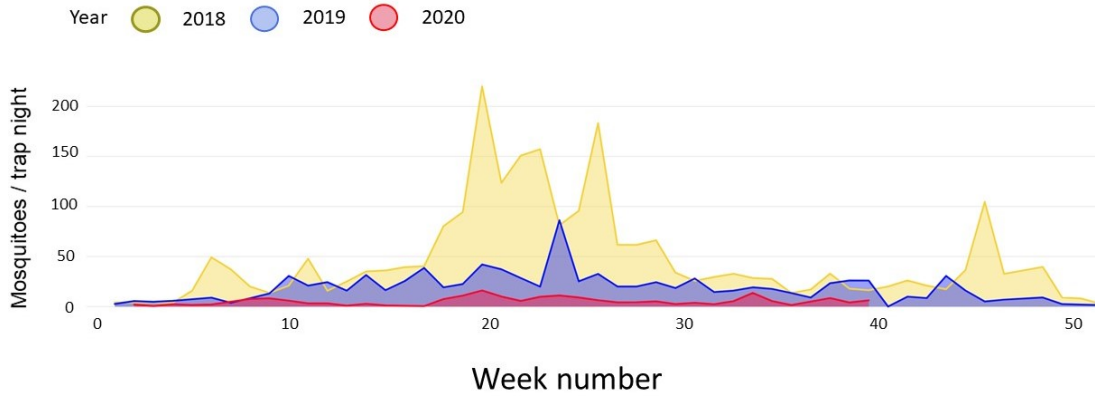


Figure 4. Mosquitoes captured in NJLT from 2018-2020. A total of 144 mosquitoes were captured in NJLT.

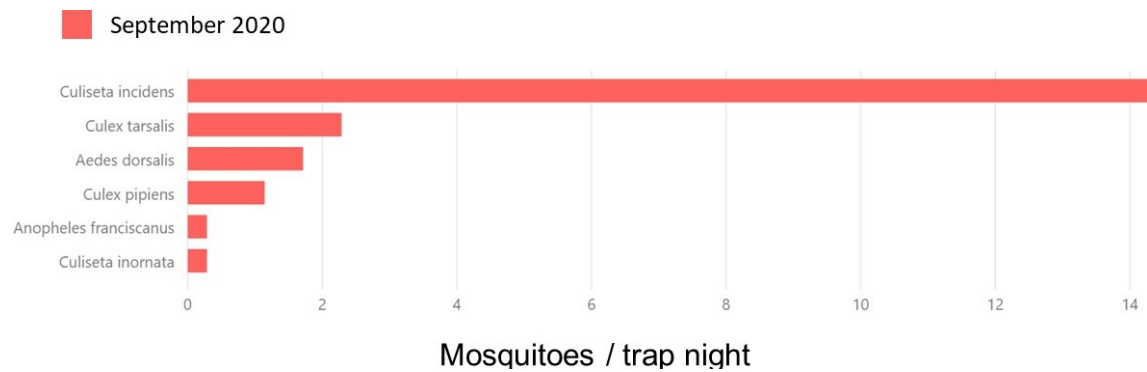


Figure 5. The most abundant species of mosquito captured in NJLT.

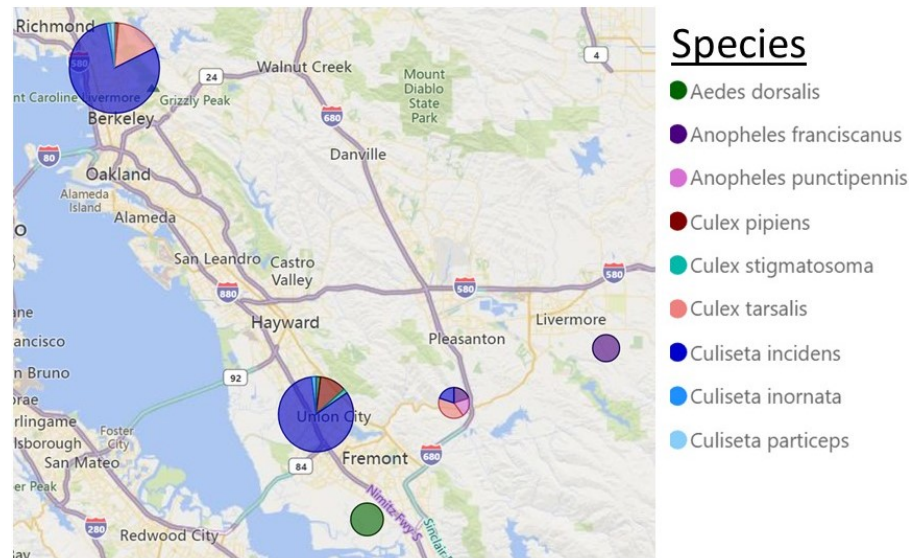


Figure 6. Geographic distribution of mosquito abundance in Alameda County evaluated using NJLT. Pie charts over trap sites indicate the distribution of mosquito species collected at the trap site. The largest pie chart in north Berkeley represents 68 adult mosquitoes.

3. PUBLIC EDUCATION

A. Events

i. Upcoming

- None

B. Google Analytics

Figure 1. Comparison of website users over the past two years.

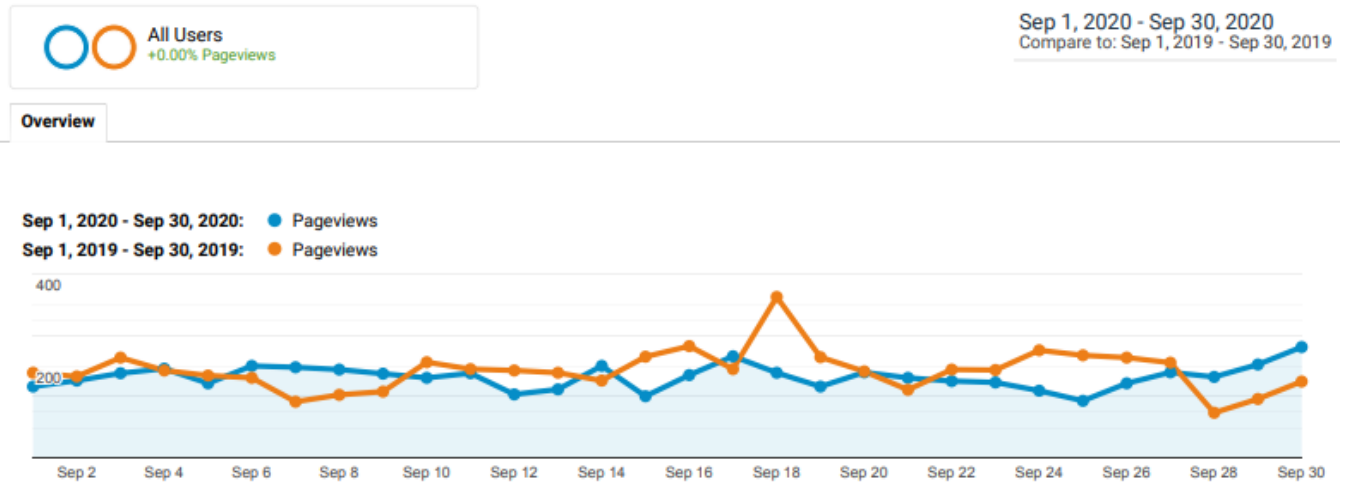
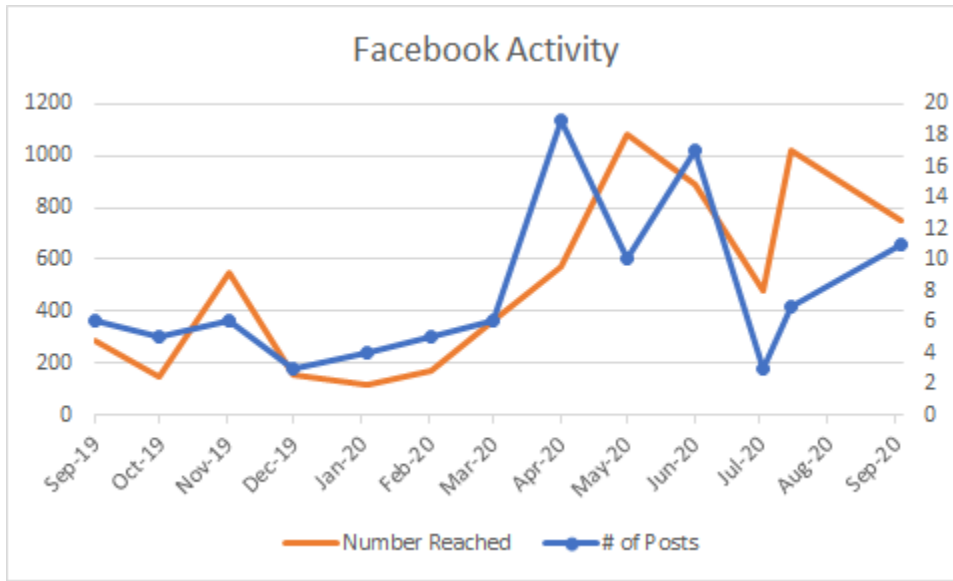


Figure 2. Comparison of website users over the past two years for September.



C. Facebook



Total Number of Followers: 233 (Down 4 since August)

August's Most Popular Post: Bug spray is great to use, but not in your eyes! Instead, spray the repellent onto your hands and spread it on your face, neck, and outside of your ears, to [#FightTheBite](#)

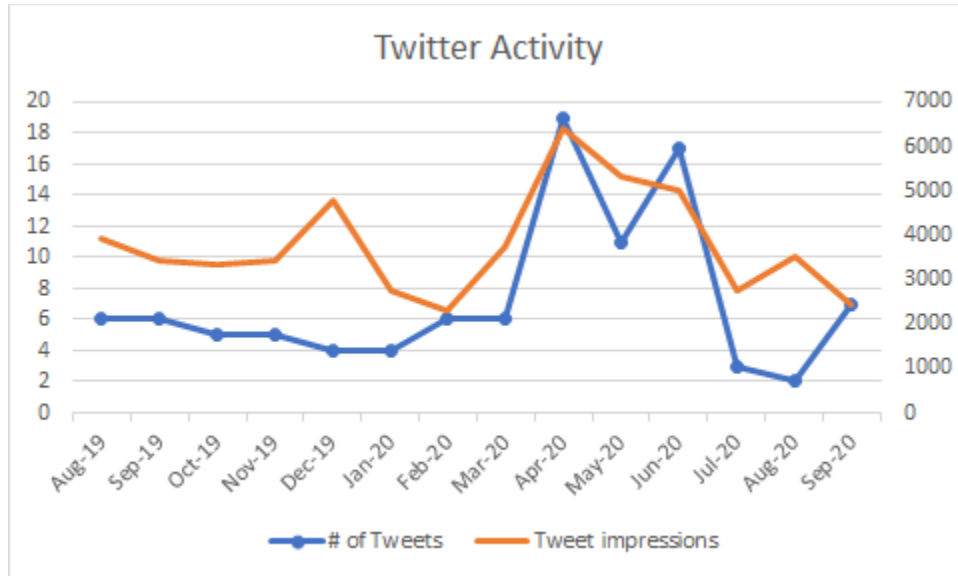
It's going to be a hot weekend! Make sure to wear insect repellent if you go outside.



But please, don't spray it directly on your face like this guy.



D. Twitter

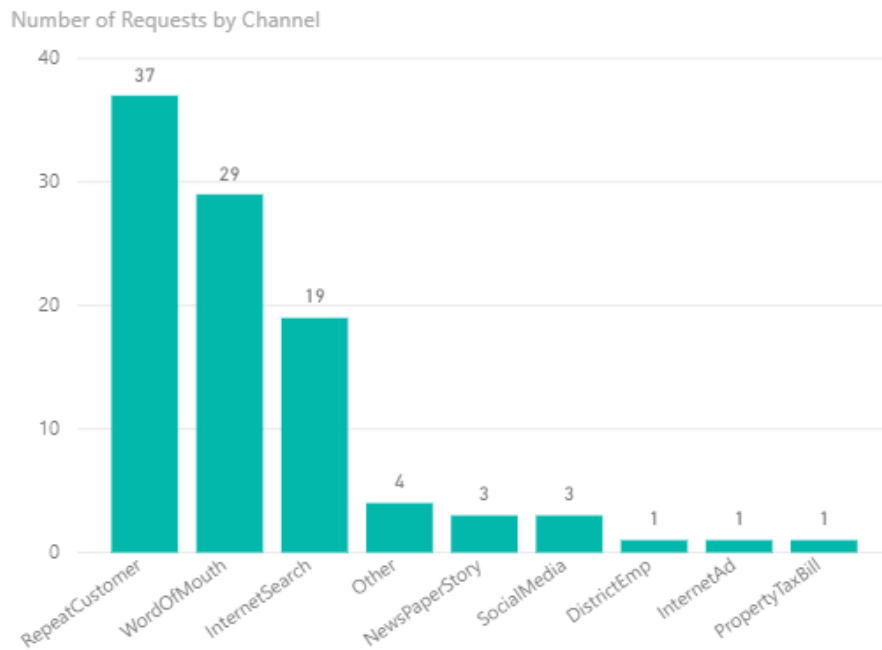


Number of Profile Visits in August: 30 (up 5 from August)

Total Number of Followers (New This Month): 733 (Up from 729 in August)

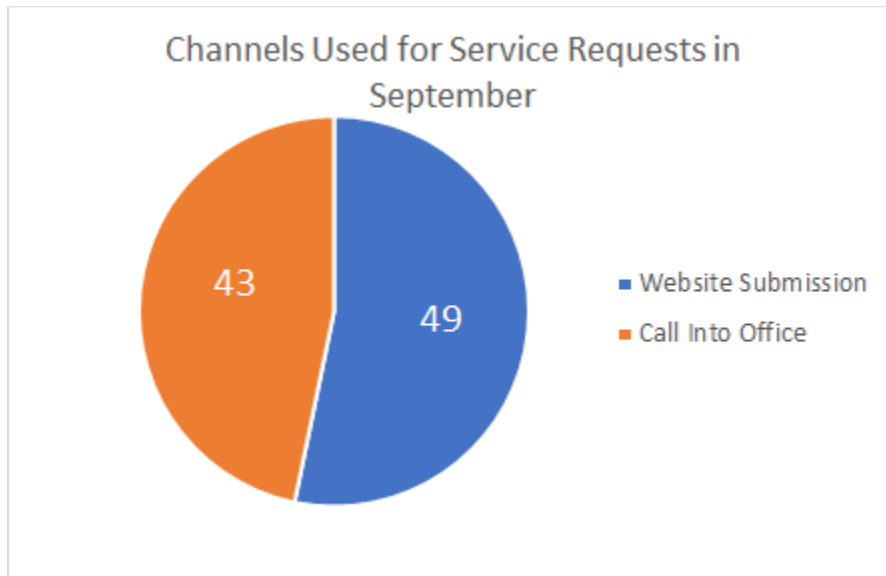
Top September Tweet: Bug spray is great to use, but not in your eyes! Instead, spray the repellent onto your hands and spread it on your face, neck, and outside of your ears, to [#FightTheBite](https://twitter.com/NXMtyHil73) pic.twitter.com/NXMtyHil73

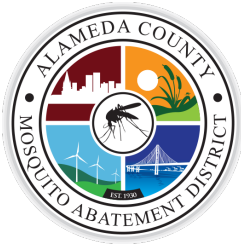
E. Service Request Referral Summary



Note: Those who selected “Other” heard about us from their doctor, Alameda County Vector Control Service District, Oakland 311, and the Union City Planning Department.

F. Channels Used by Residents to Request Service





23187 Connecticut Street
Hayward, CA 94545

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

acmad@mosquitoes.org

Trustee Anniversary Recognitions:

Board of Trustees

President

Wendi Poulson

Alameda

Vice-President

Robert Beatty

Berkeley

Secretary

Betsy Cooley

Emeryville

Cathy Roache

County at Large

Peggy McQuaid

Albany

Shawn Kumagai

Dublin

George Young

Fremont

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Hayward

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Jan O. Washburn

Oakland

Eric Hentschke

Newark

Andrew Mingst

Piedmont

Julie Testa

Pleasanton

Victor Aguilar

San Leandro

Subru Bhat

Union City

Ryan Clausnitzer

General Manager

Background:

ACMAD is pleased to recognize and thank the following Trustee on their anniversaries in October.

Trustee	City	Years of Service	Anniversary Date
Wendi Poulson	Alameda	5	October 20 th

* Per District Policy §107.1, Staff and Trustees are awarded a pewter belt buckle engraved with the District logo for their May 5-year anniversary.

From: [Ryan Clausnitzer](#)
To: [ALL ACMAD](#)
Subject: COVID-19 quarantine rules
Date: Thursday, October 1, 2020 11:22:13 AM
Importance: High

Hello-

Michelle and I were in a webinar yesterday sponsored by our insurance company's legal team which provided updates to COVID-19 rules and regulations, which are constantly changing.

I copied this slide below as it nicely (and unfortunately) sums up what we must do if we or someone we know were exposed to COVID-19.

One main point to consider is, **if you are exposed to anyone confirmed with COVID-19, you must quarantine (e.g. not coming into work) for 14 days since the exposure EVEN IF YOU TEST NEGATIVE.**

This is a reminder that even though the numbers are decreasing, the individual health risk and financial impact is still the same.

An "exposure" in this context means being within 6 feet of a masked (or unmasked) individual for more than 15 minutes.

So, to avoid being placed in quarantine because of the habits of others, please follow that distance rule at work and in your personal life, and keep your social bubble tight.

Thank you-

Management of Employees with COVID-19 Related Employment Issues:

- Minimum Criteria to Return to Work

Employee Status	Minimum Criteria for Return to Work
Symptomatic Positive	"Recovery": (1) 24 hours since resolution of fever without the use of fever-reducing medications; (2) improvement in symptoms; and (3) at least 10 days have passed since symptoms first appeared.
Asymptomatic Positive	A minimum of 10 days have passed since the date of their first positive COVID-19 test.
Symptomatic Negative	Individual satisfies "recovery" criteria.
Asymptomatic Negative	Quarantine at home for 14 days after the last known close contact with the case patient.
Symptomatic Untested	Testing recommended. If testing is not possible, individual satisfies "recovery" criteria.
Asymptomatic Untested	CDPH recommends testing and quarantine at home for 14 days after the last known close contact with the case patient. Note: CDC does not "necessarily" recommend testing in this circumstance.



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