AGENDA

1103rd MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT JULY 13TH, 2022

TIME: PLACE:	5:00 P.M. Hybrid Meeting of the Board of Trustees Physically held at the Office of the District 23187 Connecticut Street, Hayward, CA 94545 and Teleconferencing at <u>https://us02web.zoom.us/j/84465467124</u> see below for additional details.
TRUSTEES:	Subru Bhat, President, City of Union City Victor Aguilar, Vice-President, City of San Leandro Cathy Roache, Secretary, County-at-Large Tyler Savage, City of Alameda Preston Jordan, City of Albany P. Robert Beatty, City of Berkeley Shawn Kumagai, City of Berkeley Shawn Kumagai, City of Dublin Courtney Welch, City of Emeryville George Young, City of Fremont Elisa Márquez, City of Fremont Elisa Márquez, City of Hayward Steven Cox, City of Livermore Eric Hentschke, City of Newark Jan O. Washburn, City of Oakland Hope Salzer, City of Piedmont
	Julie Testa, City of Pleasanton

- 1. Call to order.
- 2. Roll call.
- 3. President Bhat 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 1102nd Regular Meeting held June 8th, 2022 (**Board action required**).
- 5. Presentation by Public Outreach Coordinator, Judith Pierce, MPH: *Education and Outreach Update* (Information only).
- 6. Presentation by Lab Director, Eric Haas-Stapleton, PhD: *Will AI Brick the Entomologist....or change their roles substantially?* (Information only).
- 7. Financial Reports as of June 30th, 2022: (Information only).
 - a. Check Register
 - b. Income Statement
 - c. Investments, reserves, and cash report
 - d. Balance Sheet
- 8. Presentation of the Monthly Staff Report (Information only).
- 9. Presentation of the Manager's Report (Information only).

- a. Staff Anniversary Recognition
- b. Joint Meeting of Alameda and Contra Costa CSDA Chapters: Monday, July 11th
- c. CDPH Weekly Arbovirus report
- d. The General Manager selected by the CSDA of Directors to represent special districts on the California CLASS JPA Board of Directors for a 4-year term https://californiaclass.com/
- e. Training due: AB 1825: Trustee Kumagai
- 10. Board President asks for reports on conferences and seminars attended by Trustees.
- 11. Board President asks for announcements from members of the Board.
- 12. Board President asks trustees for items to be added to the agenda for the next Board meeting.
- 13. Adjournment.

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

Please Note: Board Meetings are accessible to people with disabilities and others who need assistance. Individuals who need special assistance or a disability-related modification or accommodation (including auxiliary aids or services) to observe and/or participate in this meeting and access meeting-related materials should contact Ryan Clausnitzer at least 48 hours before the meeting at 510-783-7744 or accmad@mosquitoes.org.

IMPORANT NOTICE REGARDING MEETING PARTICIPATION:

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

In Person: Attend in person at the Office of the District located at 23187 Connecticut Street, Hayward, CA 94545. Telephone: Listen to the meeting live by calling Zoom at (669) 900-6833 Enter the Meeting ID# 844 6546 7124 followed by the pound (#) key.

Computer: Watch the live streaming of the meeting from a computer by navigating to <u>https://us02web.zoom.us/j/84465467124</u>

Mobile: Log in through the Zoom mobile app on a smartphone and enter Meeting ID# 844 6546 7124 HOW TO SUBMIT PUBLIC COMMENTS:

Before the Meeting: Please email your comments to <u>acmad@mosquitoes.org</u>, write "Public Comment" in the subject line. In the body of the email, include the agenda item number <u>and</u> title, as well as your comments. If you would like your comment to be read aloud at the meeting (not to exceed three minutes at staff's cadence), prominently write "Read Aloud at Meeting" at the top of the email. All comments received <u>before 12:00 PM the day of the meeting</u> will be included as an agenda supplement on the District's website under the relevant meeting date and provided to the Trustees at the meeting. Comments received after this time will not be read aloud but will be added to the record after the meeting.

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

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

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

PUBLIC RECORDS:

Public records that relate to any item on the open session agenda for a meeting are available for public inspection. Those records that are distributed after the agenda posting deadline for the meeting are available for public inspection at the same time they are distributed to all or a majority of the members of the Board. The Board has designated the District's website located at https://www.mosquitoes.org/board-of-trustees-regular-meetings as the place for making those public records available for inspection. The documents may also be obtained by emailing acmad@mosquitoes.org.

MINUTES

1102nd MEETING OF THE BOARD OF TRUSTEES OF THE ALAMEDA COUNTY MOSQUITO ABATEMENT DISTRICT

June 8th, 2022

TIME: PLACE: TRUSTEES:	5:00 P.M. Zoom Teleconference Only Subru Bhat, President, City of Union City Victor Aguilar, Vice-President, City of San Leandro Cathy Roache, Secretary, County-at-Large Tyler Savage, City of Alameda Preston Jordan, City of Albany P. Robert Beatty, City of Berkeley Shawn Kumagai, City of Berkeley Shawn Kumagai, City of Dublin Courtney Welch, City of Emeryville George Young, City of Fremont Elisa Márquez, City of Hayward Steven Cox, City of Livermore Eric Hentschke, City of Newark Jan O. Washburn, City of Oakland Hope Salzer, City of Piedmont
	Julie Testa, City of Pleasanton

- 1. Board President Bhat called the regularly scheduled board meeting to order at 5:00 P.M.
- 2. Trustees Bhat, Aguilar, Roache, Jordan, Beatty, Kumagai, Márquez, Cox, Hentschke, Washburn, and Salzer were present on the Zoom conference. Trustees Welch and Young arrived at 5:08 P.M. Trustees Savage and Testa were absent.
- Board President Bhat invited members of the public to speak on any issue relevant to the district. Information Technology Director Robert Ferdan was remote for technical support. Vector Biologist Jeremy Sette was present to record the minutes. No public comments were submitted. President Bhat congratulated Trustee Kumagai on his primary election results.
- Resolution 1102-1 Authorizing Remote Teleconference Meetings of the Legislative Bodies of the Alameda County Mosquito Abatement District Pursuant to Brown Act Provisions. Discussion: The General Manager explained the Resolution and the updates involved. Motion: Secretary Roache moved to approve Resolution 1102-1 Second: Trustee Beatty Vote: motion carries: unanimous.
- Approval of the minutes of the 1101st meeting held May 11th, 2022.
 Motion: Trustee Kumagai moved to approve the minutes Second: Trustee Jordan

Vote: motion carries: unanimous.

6. Public Hearing on the proposed tax rate.

Discussion:

The General Manager gave a background of the public hearing and noted that he did not receive any public comments and no members of the public were present to give comment.

 Resolution 1102-2, a resolution ordering the levy of assessments for fiscal year 2022-23 for the Alameda County Mosquito Abatement District Mosquito and Disease Control Assessment.

Discussion:

The General Manager discussed Resolution 1102-2 and fielded the following discussion. Trustee Salzer asked for clarification on language concerning the public hearing announcement (the General Manager clarified) and asked for a confirmation that the assessment amount had not changed since last year (confirmed). Trustee Salzer also asked what the vote on the Resolution signified exactly (to continue the assessment). Trustee Salzer noted her disappointment with the engineering report and asked for guidance on how to vote (President Bhat provided the methods to vote: aye, nay, or abstention). **Motion:** Trustee Hentschke moved to approve Resolution 1102-2 **Second:** Trustee Washburn **Vote:** motion carries: 12-1 (Salzer: nay)

- 8. Closed session to discuss the General Manager's twelve-month evaluation pursuant to Government Code Section 54957.6.
- 9. Compensation recommendation of General Manager Ryan Clausnitzer based on a recommendation from the Manager Evaluation Committee and according to the employee contract.

Discussion:

The Board returned from closed session. President Bhat gave praise to the General Manager in his management of the district and its national reputation. The Board recommended the following compensation proposal: health insurance reimbursement comparable to staff (from 100/90 to 100/100), and a 5% increase in base salary compensation for each of the next two years and a 4% increase, along with a 1% performance compensation in the third year.

Motion: Trustee Beatty moved to approve the recommendation of a health insurance reimbursement of 100% dependent care at the plan rate used by most employees (currently, Kaiser) and a 5% increase in base salary compensation in July 2022 and July 2023, and a 4% increase in base salary compensation, along with a 1% performance compensation bonus in July of 2024.

Second: Secretary Washburn

Vote: motion carries: unanimous.

10. Report from the National Association of City & County Health Officers: Vector Surveillance and Control at the Local Level: Findings from the 2020 Vector Control Assessment. **Discussion:**

The General Manager presented the report from the National Association of City & County Health Officers and fielded the following discussion. Trustee Salzer asked the General Manager his opinion on bringing forth legislation requiring resistance testing for mosquito control districts (the General Manager sympathized with the sentiment and will report back in August more on the regulatory landscape of mosquito control with Regulatory & Public Affairs Director Erika Castillo). President Bhat suggested that the district has no authority to campaign for additional regulations in other states. Trustee Washburn noted the remarkable contributions from ACMAD's lab including published studies on resistance testing.

11. Financial Reports as of May 31st, 2022. **Discussion:**

The General Manager presented the Financial Reports.

- 12. Presentation of the Monthly Staff Report. **Discussion:** The General Manager gave the Monthly Staff Report.
- 13. Presentation of the Manager's Report. **Discussion:** The General Manager presented the Manager'

The General Manager presented the Manager's Report. The General Manager commended Vector Scientist Dereje Alemayehu for his 23-year anniversary of District service.

- 14. Board President Bhat asked for reports on conferences and seminars attended by Trustees. The General Manager announced a joint special district chapter meeting on July 11th in Dublin. President Bhat expressed his interest.
- 15. Board President Bhat asked for announcements from the Board. None.
- 16. Board President Bhat asked trustees for items to be added to the agenda for the next Board meeting. The General Manager announced that Laboratory Director, Eric Haas-Stapleton, and Public Outreach Coordinator, Judi Pierce, will present on projects they are working on. Trustee Salzer asked if the graduate student would also present (the project is still underway, but most likely in July or August).
- 17. The meeting adjourned at 6:37 P.M.

Respectfully submitted,

Approved as written and/or corrected at the 1103rd meeting of the Board of Trustees held July 13th, 2022 Cathy Roache, Secretary BOARD OF TRUSTEES

Subru Bhat, President BOARD OF TRUSTEES



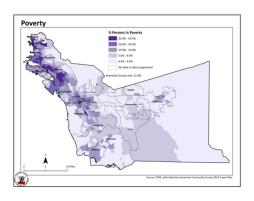




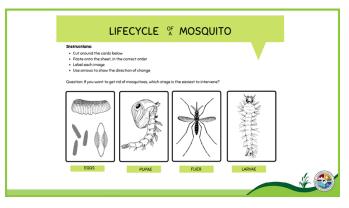




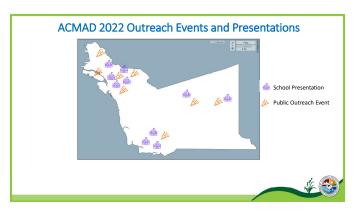










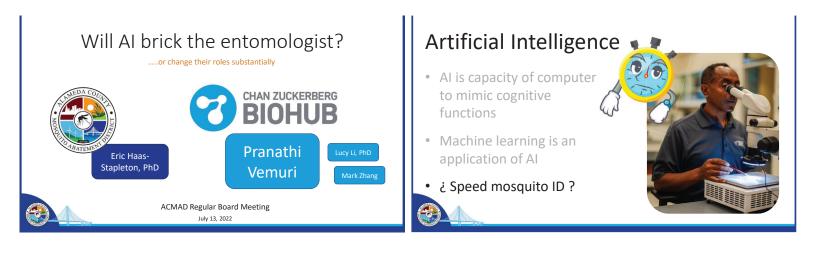


Questions? Comments?



Thank you for your time! Judith Pierce, MPH





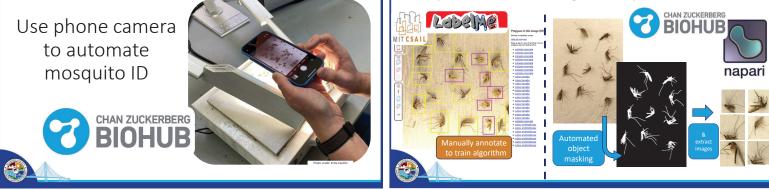


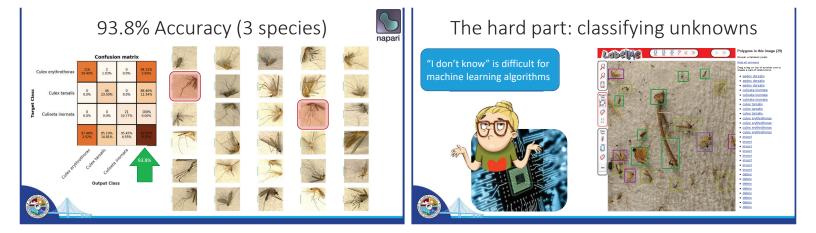


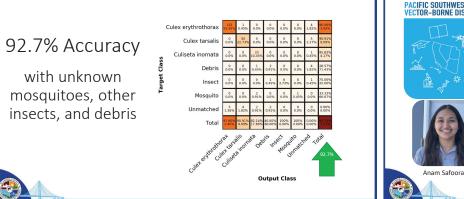
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Filter Criteria includes: Report order is by Date.

Check #	Date	Payee	Amount
3167	6/14/22	Alameda County Mosquito Abatement Dist (Payroll)	153,576.16
3168	6/14/22	Airgas	1,003.84
3169	6/14/22	Alco Sheet Metal and Heating, Inc.	225.00
3170	6/14/22	Alemayehu, Dereje	101.80
3171	6/14/22	All Bay Electric	2,200.00
3172	6/14/22	AMCA	3,176.23
3173	6/14/22	AT&T	69.97
3174	6/14/22	BARTKIEWICZ, KRONICK & SHANAHAN	1,120.00
3175	6/14/22	Beck's Shoes	190.00
3176	6/14/22	Cintas	1,001.37
3177	6/14/22	Coverall North America, Inc.	495.00
3178	6/14/22	Delta Dental	4,679.81
3179	6/14/22	Dublin GMC	31,249.97
3180	6/14/22	Grainger	85.41
3181		Hayward Water System	625.83
3182	6/14/22	Hentschke, Eric Armin	100.00
3183		Industrial Park Landscape Maintenance	243.00
3184		Leading Edge Associate, Inc.	6,500.00
3185		Life Technologies Corporation	107.39
3186		Long, Rick	40.88
3187		Visalia Times Delta	2,499.99
3188		NBC Supply Corp	438.57
3189		NRAAA Janitorial Services	675.00
3190		PFM Asset Management LLC	1,743.54
3191	6/14/22	-	194.51
3192	-	Schaeffer MFG.Co.	222.49
3193		U.S Bank Corporate Payment System	11,005.03
3194		Voya Institutional Trust Company	179.93
3195		Waste Management of Alameda County	297.04
3196		Young, George	100.00
ACH		Aguilar, Victor	100.00
ACH		Beatty, Robert .P	100.00
ACH		Bhat, Subrahmanya Y	100.00
ACH		CalPERS Retirement	15,390.33
ACH		CalPERS 457	2,980.17
ACH	-	Cox, Steven	100.00
ACH		Jordan, Preston	100.00
ACH		Kumagai, Shawn	100.00
ACH		Marquez, Elisa	100.00
ACH		Roache, Cathy J Pinkerton.	100.00
АСП АСН		Salzer, Hope	100.00
ACH		Walsh Courtney	100.00
ACH	0/14/22	Welch, Courtney	100.00

Total Expenditures - June 15, 2022

Alameda County Mosquito Abatement Dist. Check Register For the Period From Jun 16, 2022 to Jun 30, 2022

Filter Criteria includes: Report order is by Date.

Check #	Date	Payee	Amount
3197	6/28/22	Adapco	25,412.70
3198	6/28/22	Airgas	1,223.50
3199	6/28/22	Bay Alarm	4,401.71
3200	6/28/22	Bay Central Printing	637.92
3201	6/28/22	Beck's Shoes	364.61
3202	6/28/22	CCCMA Occupational Clinic	250.00
3203	6/28/22	Cintas	231.88
3204	6/28/22	Clausnitzer, Ryan	573.30
3205	6/28/22	Leading Edge Associate, Inc.	21,300.00
3206	6/28/22	Lemonlight Media, Inc.	6,300.00
3207	6/28/22	LifeSaver CPR	900.00
3208	6/28/22	Lowe, Carol	40.88
3209	6/28/22	NBC Supply Corp	797.40
3210	6/28/22	PG&E	48.46
3211	6/28/22	Pitney Bowes	95.69
3212	6/28/22	Regional Government	168.48
3213	6/28/22	Techniclean	122.82
3214	6/28/22	The Hartford	107.19
3215	6/28/22	VCJPA	245.16
3216	6/28/22	Verizon	515.20
3217	6/28/22	Veseris	15,777.06
3218	6/28/22	Voya Institutional Trust Company	179.93
3219	6/28/22	VSP	693.24
3220	6/28/22	WEX Bank	6,720.21
ACH	6/28/22	Alameda County Mosquito Abatement Dist (Payroll)	87,891.19
ACH	6/28/22	CalPERS Retirement	15,366.40
ACH	6/28/22	CalPERS 457	2,979.37
		Total Expenditures - June 30, 2022	193,344.30

Alameda County Mosquito Abatement District Income Statement June 30, 2022. (12 of 12 mth, 100%)

							•	Year to Date			Actual vs
REVENUES	A	ctual 2019/20	Α	ctual 2020/21	Curre	ent Month		2021/22	В	udget 2021/22	Budget
Total Revenue	\$	4,986,220.87	\$	5,150,753.15	\$	8,335.03	\$	5,387,940.16	\$	4,765,864.00	113%

	1						Year to Date		Actual vs
EXPENDITURES	Α	ctual 2019/20	A	ctual 2020/21 ¹	Cu	rrent Month ²	2021/22	Budget 2021/22	Budget
Salaries	\$	1,970,928.74	\$	2,029,103.97	\$	187,555.07	\$ 2,129,077.24	\$2,236,282	95%
CalPERS Retirement	\$	378,832.61	\$	423,110.21	\$	18,008.89	\$ 471,085.19	\$473,950	99%
Medicare & Social Security	\$	29,651.04	\$	27,866.82	\$	2,979.52	\$ 30,025.60	\$33,062	91%
Fringe Benefits	\$	465,466.14	\$	502,898.39	\$	5,480.24	\$ 484,487.10	\$579,596	84%
Total Salaries, Retirement, & Benefits	\$	2,844,878.53	\$	2,982,979.39		\$214,024	\$3,114,675	\$3,322,890	94%
Clothing and personal supplies (purchased)	\$	6,213.94	\$	4,859.20	\$	1,069.40	\$ 6,319.07	\$10,000	63%
Laundry service and supplies (rented)	\$	10,648.44	\$	9,124.98	\$	1,233.25	\$ 9,953.02	\$15,000	66%
Utilities	\$	25,962.21	\$	15,421.56	\$	1,165.84	\$ 17,767.47	\$17,000	105%
Communications-IT	\$	80,735.47	\$	71,771.02	\$	10,003.05	\$ 66,882.41	\$112,400	60%
Maintenance: structures & improvements	\$	16,678.86	\$	20,261.51	\$	3,385.07	\$ 25,410.86	\$35,000	73%
Maintenance of equipment	\$	20,599.88	\$	22,290.34	\$	736.65	\$ 23,351.76	\$35,000	67%
Transportation, travel, training, & board	\$	95,813.55	\$	74,653.03	\$	10,218.81	\$ 118,923.97	\$127,630	93%
Professional services	\$	111,224.89	\$	91,622.03	\$	3,282.02	\$ 92,363.85	\$203,450	45%
Memberships, dues, & subscriptions	\$	26,316.50	\$	22,906.45	\$	3,176.23	\$ 25,078.23	\$24,000	104%
Insurance - (VCJPA, UAS)	\$	134,833.60	\$	141,650.37	\$	245.16	\$ 160,932.64	\$150,611	107%
Community education	\$	23,283.51	\$	26,317.23	\$	8,846.92	\$ 21,744.30	\$39,500	55%
Operations	\$	179,304.00	\$	223,362.22	\$	64,795.24	\$ 182,404.83	\$239,000	76%
Household expenses	\$	14,817.21	\$	15,882.05	\$	5,104.94	\$ 25,346.07	\$17,350	146%
Office expenses	\$	13,760.57	\$	9,747.67	\$	2,104.55	\$ 6,895.79	\$12,000	57%
Laboratory supplies	\$	100,794.23	\$	64,135.55	\$	6,137.61	\$ 73,910.93	\$144,000	51%
Small tools and instruments	\$	2,055.54	\$	2,189.34	\$	65.91	\$ 1,628.49	\$3,000	54%
Total Staff Budget	\$	863,042.40	\$	816,194.55	\$	121,570.65	\$ 858,913.69	\$1,184,941	72%
Total Operating Expenditures	\$	3,707,920.93	\$	3,799,173.94	\$	335,594.37	\$ 3,973,588.82	\$4,507,831	88%

1 - As of June 30, 2021.

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

Alameda County Mosquito Abatement District Investment, Reserves, and Cash Balance Report June 30, 2022. (12 of 12 mth, 100%)

		Beginning	Deposits	Withdrawls	Earnings ¹	Ending
Account # Investment	Accounts	Balance			-	Balance
1004 LAIF ²	\$	3,321,678.92	\$ 1,665,000.00	\$ -	\$ -	\$ 4,986,678.92
1005 OPEB Fund	\$	4,725,263.09	\$ -	\$ -	\$ (245,308.27)	\$ 4,479,954.82
1006 VCJPA Member Contingency	y ³ \$	356,439.00	\$ -	\$ -	\$ -	\$ 356,439.00
1008 CAMP: Repair and Replace	\$	1,357,529.20	\$ -	\$ (31,249.97)	\$ 1,269.89	\$ 1,327,549.12
1009 CAMP: Public Health Emerge	ency \$	527,099.18	\$ -	\$ -	\$ 493.56	\$ 527,592.74
1010 CAMP: Operating Reserve	\$	1,947,576.17	\$ -	\$ -	\$ 1,823.64	\$ 1,949,399.81
1011 CAMP: Capital Reserve Fun	d \$	30,047.26	\$ -	\$ -	\$ 28.14	\$ 30,075.40
1012 PARS: Pension Stabilization	4 \$	1,689,933.80	\$ -	\$ -	\$ 4,382.23	\$ 1,694,316.03
Total	\$	13,955,566.62	\$ 1,665,000.00	\$ (31,249.97)	\$ (237,310.81)	\$ 15,352,005.84
		Beginning				Ending
Cash Ac	counts	Balance		Withdrawls	Activity	Balance
1001 Bank of America (Payroll Acc	count) * \$	5,803.13		-	-	\$ 159,825.95
1002 Bank of The West (Transfer	Account) * \$	492,585.97		-	-	\$ 435,957.52
1003 County Account ²	\$	2,441,544.02		\$ (2,071,326.17)	\$ 7,811.30	\$ 378,029.15
1013 Petty Cash	\$	401.13		\$ -	\$ (13.97)	\$ 387.16
Total	\$	2,940,334.25		\$ (2,071,326.17)	\$ 7,797.33	\$ 974,199.78

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

2 - \$2,071,326.17 transfered from County Fund to Bank of the West. \$1,665,000.00 transfered from Bank of the West to LAIF.

3 - VCJPA Member Contingency balance is as of March 31, 2022.

4 - PARS - Pension Stabilization balance is as of May 31, 2022.

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

Alameda County Mosquito Abatement Balance Sheet Comparison June

ASSETS			
	6/30/2022	6/30/2021	6/30/2020
Current Assets			
Bank of America payroll	\$ 157,965.11	\$ 103,223.95	\$ 106,914.43
Bank of the West	448,182.58	330,296.82	301,318.89
County	378,029.15	374,744.30	349,672.59
Cash with LAIF	4,986,678.92	4,128,033.93	2,765,188.85
VCJPA- Member Contingency	356,439.00	373,610.00	374,772.00
CAMP - Repair and Replace	1,327,549.12	1,040,985.20	976,511.62
CAMP - Public Health Emergency	527,592.74	526,220.70	525,408.23
CAMP - Operating Reserve	1,949,399.81	1,944,330.24	1,941,328.27
CAMP - Capital Reserve Fund	30,075.40	19,992.53	128,402.05
PARS	1,694,316.03	1,849,337.44	1,631,978.20
Accounts Receivable	-	8,546.00	-
Petty cash	387.16	388.18	499.69
Total Current Assets	11,856,615.02	10,699,709.29	9,101,994.82
Property and Equipment			
Acc Dep - equipment	(1,479,068.00)	(1,479,068.00)	(1,479,068.00)
Acc Dep - stru & improv	(2,485,267.00)	(2,485,267.00)	(2,485,267.00)
Equipment	1,783,108.97	1,751,859.00	1,751,859.00
Structure/improvement	4,799,729.70	4,799,729.70	4,760,618.00
Land	61,406.00	61,406.00	61,406.00
Total Property and Equipment	2,679,909.67	2,648,659.70	2,609,548.00
Other Assets			
Net OPEB Asset	2,522,763.00	2,522,763.00	1,823,556.00
Total Other Assets	2,522,763.00	2,522,763.00	1,823,556.00
Total Assets	\$ 17,059,287.69	\$ 15,871,131.99	<u>\$ 13,535,098.82</u>
LIABILITIES AND CAPITAL			
Current Liabilities			
Accounts payable	\$ 104,526.08	\$ 186,764.89	\$ 155,576.76
Acc payroll/vacation	208,228.89	208,228.89	200,290.26
Def inflow - 75	1,254,695.00	1,254,695.00	931,786.00
Def inflow pen defer GASB 68	289,664.00	289,664.00	289,664.00
Defer outflow pen cont GASB 68	(1,056,534.00)	(1,056,534.00)	(1,056,534.00)
Net pension liability GASB 68	3,277,554.00	3,277,554.00	3,277,554.00
Total Current Liabilities	\$ 4,078,133.97	\$ 4,160,372.78	\$ 3,798,337.02
Total Liabilities	4,078,133.97	4,160,372.78	3,798,337.02
Capital			
Designated fund balances	4,816,355.25	4,816,355.25	4,440,610.19
Investment in general fixed as	6,894,403.96	5,296,151.61	4,637,374.11
Net Income	1,270,394.51	1,598,252.35	658,777.50
Total Capital	12,981,153.72	11,710,759.21	9,736,761.80
Total Liabilities & Capital	\$ 17,059,287.69	\$ 15,871,131.99	\$ 13,535,098.82



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MONTHLY STAFF REPORT -1103

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Ryan Clausnitzer General Manager

OPERATIONS REPORT

Α.

In June, operations staff continued to focus on our district's three main potential West Nile virus (WNV) vectoring mosquitoes: *Culex pipiens, Culex tarsalis,* and *Culex erythrothorax.* Over 4,000 treatments were conducted in June, most of those treatments are for those three species. Operations added our second seasonal employee in June and both seasonal employees spend much of their time on catch basin treatments. Many catch basins throughout Alameda County hold water throughout summer and well into fall even in drought years. Often heavily laden with leaves and other organic matter, these basins provide an ideal habitat for *Cx. pipiens.* This species will often enter homes and residences and seek bloodmeals from the inhabitants during the night. Well over 11,000 catch basins have been treated to date this season. Treatments for *Cx. tarsalis* were conducted in freshwater marshes, concrete lined canals, creeks, and unmaintained swimming pools. As for *Cx. erythrothorax,* this species is almost exclusively associated with freshwater marshes that have tule and/or bullrush growing in and along their margins. Treatments were conducted by hand, backpack blower, Argo, and two treatments were conducted with ACMAD operation's UAS (drone).

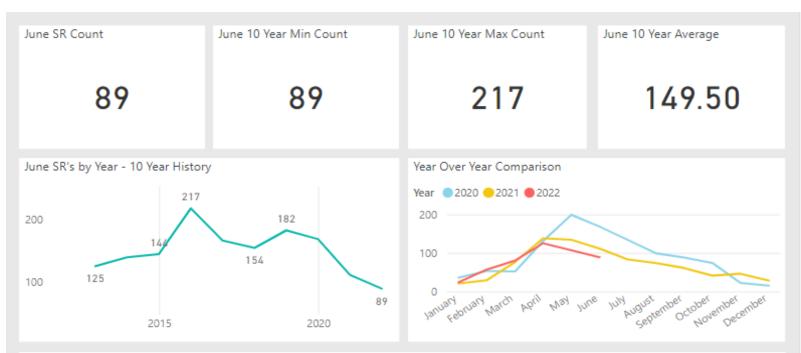
All three Cx. spp. will readily feed on both avian and mammalian blood. This is a significant ecological trait that makes them important in potential WNV transmission. To date, no WNV positive birds or adult mosquitoes have been detected by the ACMAD lab in our county, however, WNV positive mosquitoes were collected in our neighbor to the south, Santa Clara County, in late June. Operations staff will continue to focus extensively on larval inspections and treatments of the *Cx. spp.* in the months to come to lessen the number of adult mosquitoes entering the environment.

Another significant high tide event in June triggered the hatching of *Aedes dorsalis* eggs in several tidal salt-marsh habitats. Operations staff conducted numerous treatments to prevent the emergence of adults of this aggressive day-biting mosquito. These treatments of over 200 acres were conducted both by hand and by utilizing the ACMAD A-1 Super Duty mist blower. Post-treatment inspections, lab adult trapping data, and service request data all indicated that these treatments were effective. High tides will continue to be closely monitored for this species until at least October.

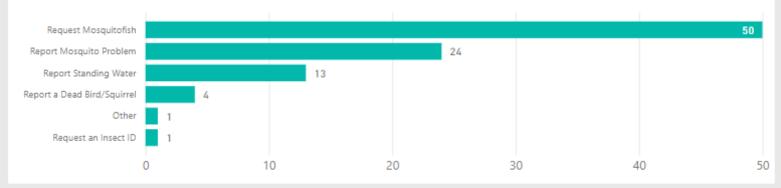
Service requests received from the public were the lowest for June in the last decade. Of the eighty-nine requests received, fifty were requests for mosquito fish for ornamental ponds, unmaintained swimming pools, and animal watering troughs. Fish placed in these types of sources are an effective long-term biological control method for larval mosquitoes. This is our preferred method for unmaintained swimming pools that will not be repaired in the near future. Unmaintained swimming pools can produce tens of thousands of mosquitoes in any given season if left untreated. Mosquito fish can consistently control larvae in this type of environment for many years. These pools are often a source for *Cx. tarsalis* and all our other treatment options have a limit of three months or less. An update on ACMAD's 2022 unmaintained swimming pool aerial survey program will be presented in an upcoming board report.

Field Operations Supervisor Joseph Huston

Service Requests (June)



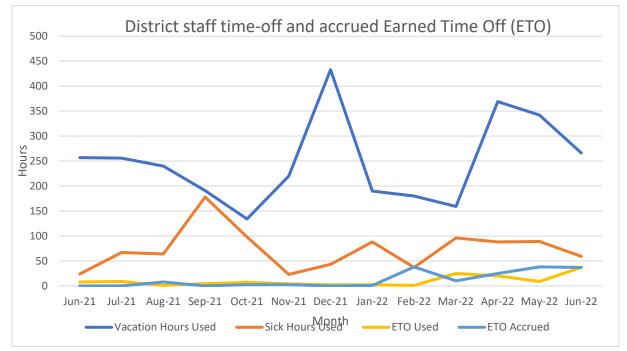
June Count by SR Type



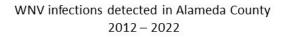


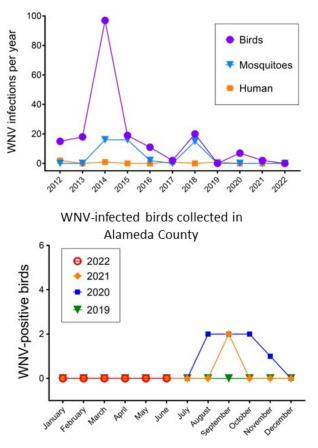
Report by Robert Ferdan, IT Director

Activity Report

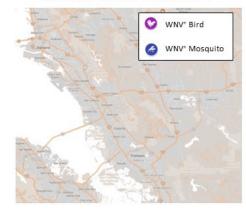


WNV Activity

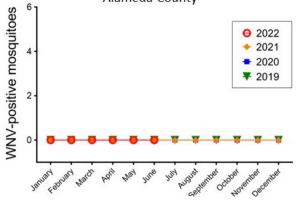




Locations of WNV-infected mosquitoes and birds in Alameda County during 2022



WNV-infected mosquitoes collected in Alameda County



B. <u>LAB</u>

Summary

- Arboviruses. West Nile virus (WNV) was not detected in birds during June 2022. Saint Louis encephalitis virus (SLEV) and Western equine encephalitis virus (WEEV) were not detected in Alameda County during the prior 5 years.
- Native mosquitoes. A total of 632 CO₂-baited encephalitis virus survey (EVS) traps were placed during June, catching 9,280 adult female mosquitoes (14.7 mosquitos per trap night). Three New Jersey Light Traps (NJLT) captured 161 adult mosquitoes during the same period.
- Sentinel chicken flocks are in Livermore and Newark. None of the chickens show signs of WNV, SLEV, or WEEV infection.
- Invasive Aedes mosquitoes were not detected in Alameda County during 2022.
- A manuscript that describes the use of our A1 Mister for controlling salt marsh mosquitoes was accepted in the peer-reviewed open-access journal, Journal of the American Mosquito Control Association (title: Mr. Mister: Rockin' the Aedes of the San Francisco Bay Salt Marshes). Of note, our Mechanical Specialist (Mark Wieland) is the first author with Joseph Huston (Operations Supervisor) and Ryan Clausnitzer (General Manager) as co-authors (Figure 1).

Arbovirus Monitoring

- WNV was not detected in birds or mosquitoes during June. WNV was last detected in birds collected in Alameda County during September 2021 (WNV Activity figure, above).
- This month, 86 collections of mosquitoes (*i.e.*, pools) were tested for the presence of WNV, SELV and WEEV
 using quantitative RT-PCR in the ACMAD lab. WNV was last detected in mosquitoes during 2018 (WNV
 Activity figure, above). SLEV and WEEV have not been detected in the County for over a decade.
- Sentinel chicken flocks in Livermore and Newark have not shown signs of infection with WNV, SLEV or WEEV (i.e., they had not seroconverted).
- Enhanced mosquito trapping in response to the WNV-positive mosquitoes that were detected at the northern boarder of Santa Clara County (which abuts our southern boarder), collected mosquitoes that had the potential to transmit WNV. However, our quantitative RT-PCR tests of those mosquitoes showed none were infected with WNV, WEEV or SLEV.

Native Mosquito Abundance

- The following three species are the principal transmitters of WNV, SLEV and WEEV in California: *Culex pipiens* (occurs predominantly in urban settings), *Culex tarsalis* (associated with marsh and peri-urban areas), and *Culex erythrothorax* (occurs exclusively in marsh but adults can disperse into nearby communities).
- 632 CO₂-baited EVS traps were placed during June. A total of 9,280 adult female mosquitoes were collected, which was 19 % more than the prior month (Figure 2). However, increased trapping efforts during June in regions with low mosquito abundance resulted in 5% fewer mosquitoes per trap relative to the prior month (14.7 and 15.5 mosquitoes per trap night, respectively). Adult mosquito abundance during 2022 was higher than prior years (Figure 2), predominantly due higher quantities *Cx. tarsalis* (Figure 3) and *Aedes vexans* (Figure 4). *Culex erythrothorax* abundance was lower this month relative to the same period of prior years (Figure 3), likely due to the intensified control efforts using the treatment drone. Similarly, the abundance of *Aedes dorsalis* was low (Figure 3, 4, 5A), likely also the result of enhanced control efforts using the A1 Mister. *Aedes washinoi* abundance was very low during June (N = 85), and historical data suggest that few of this species will be detected for the remainder of the year (Figure 3). The abundance of *Culex pipiens* may be increasing (Figure 3), but the addition of a second seasonal staff in Operations may limit the reproduction of that species.
- The three WNV vector species were most abundant in the western bayside region of the county, with Culiseta incidens becoming more dominant at inland trap sites that are often associated with riparian corridors (Figure 5A). Mosquito abundance in the northern part of the county (Figure 5B) was markedly lower than what was observed in the southern bayside region where *Cx. tarsalis* and *Cx. erythrothorax* were more common (Figure 5C). The eastern region of the county had relatively low mosquito abundance, but the diversity of species that were detected was high (Figure 5D). Del Valle Regional Park (south of Livermore) had high mosquito abundance and diversity Figure 5A), likely due to the convergence of multiple habitat types and high daytime temperatures.
- Forty-six of the EVS traps did not collect any mosquitoes (Figure 5A, upper right insert). The three NJ Light Trap sites captured a total of 161 adult female mosquitoes during the month (Figured 6).

Journal of the American Mosquito Control Association, 38(3):000-000, 2022 Copyright © 2022 by The American Mosquito Control Association, Inc.

OPERATIONAL NOTE

MR. MISTER: ROCKIN' THE AEDES OF THE SAN FRANCISCO BAY SALT MARSHES

MARK WIELAND, JOSEPH HUSTON, RYAN CLAUSNITZER AND ERIC J. HAAS-STAPLETON¹

Alameda County Mosquito Abatement District, 23187 Connecticut Street, Hayward, CA 94545

ABSTRACT. Mist sprayers (MS) are being rapidly adopted nationwide for applying larvicides to control peridomestic Aedes aegypti. Because MS can loft large quantities of larvicide over relatively long distances, we examined its efficacy in a tidal marsh habitat for controlling Ae, dorsalis. Liquid Vectobac 12AS larvicide, containing Bacillus thuringiensis israelensis, was applied at 1.16 liter/ha using a MS. Cards that change color when exposed to liquid were placed perpendicular to the path of the MS showed that the larvicide mist traveled up to 60 m from the MS and did not extend to 90 m. Use of the MS enabled a 4-fold increase in total hectares treated during 2020-21 relative to the prior 2 years without an increase in staff time. Notably, there was 83% reduction in the quantity of Ae. dorsalis larvae at 5 days posttreatment. Similarly, there was 63% reduction in adult female Ae. dorsalis that were collected in encephalitis virus surveillance traps from nearby communities relative to the prior 2 years. There were 2.3-fold fewer requests for service to address a mosquito problem from residents of cites that abut the tidal marshes, suggesting the applications had a positive impact on these communities. The MS offer an attractive alternative to hand treatments in tidal marshes where the use of unmanned aircraft or all-terrain vehicles is prohibited by national wildlife refuge managers.

?1

Figure 1. Title page and abstract of proofs for manuscript that was recently accepted in the Journal of the American Mosquito Control Association

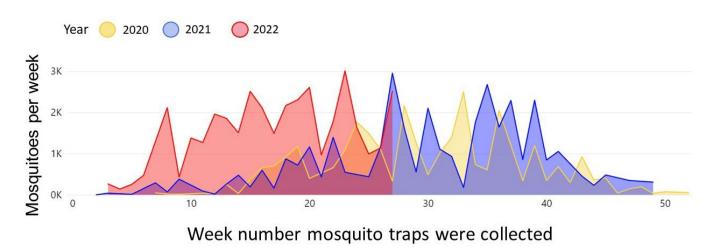
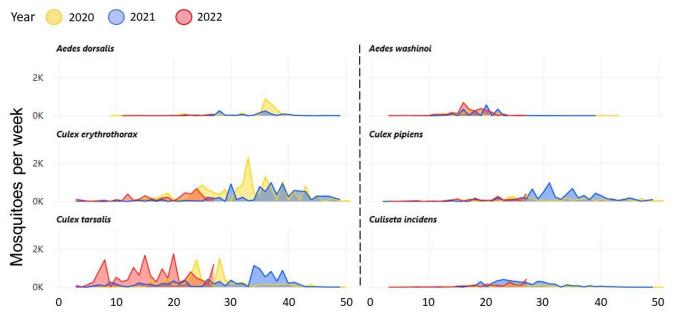
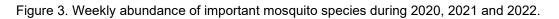


Figure 2. Mosquitoes captured in EVS CO₂ traps from 2020 – 2022. A total of 9,280 adult female mosquitoes were captured in EVS CO₂ traps during June of 2022 and identified to species. Week 24 was excluded from the graph because the high anomalous abundance during 2021 skewed the y-axis.



Week number mosquito traps were collected



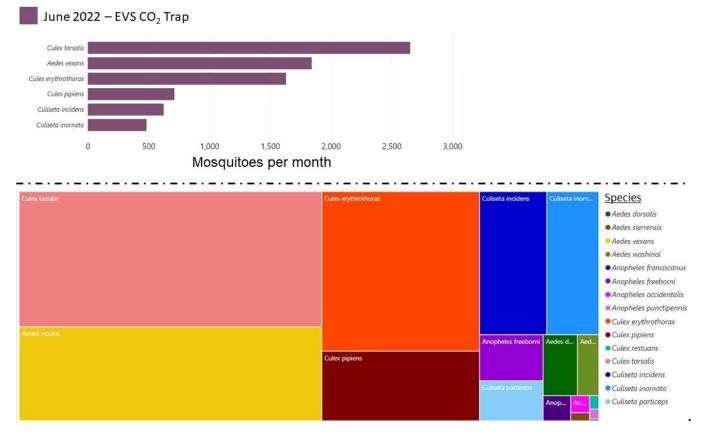
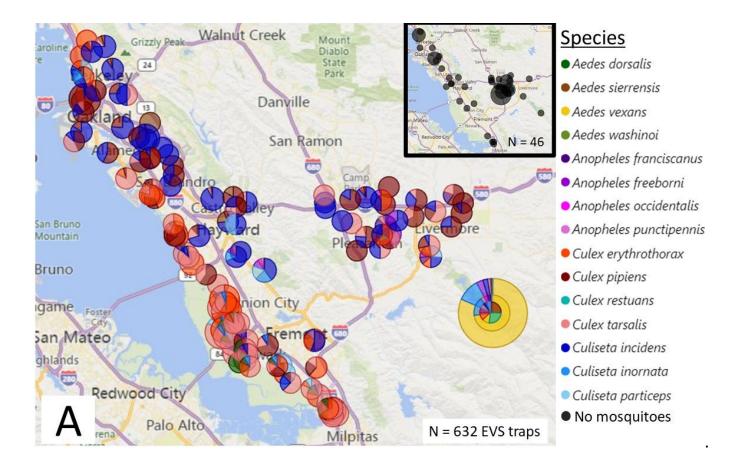


Figure 4. The most abundant species of mosquito captured using EVS CO₂ traps. Larger squares and rectangles indicate higher abundance of that species.



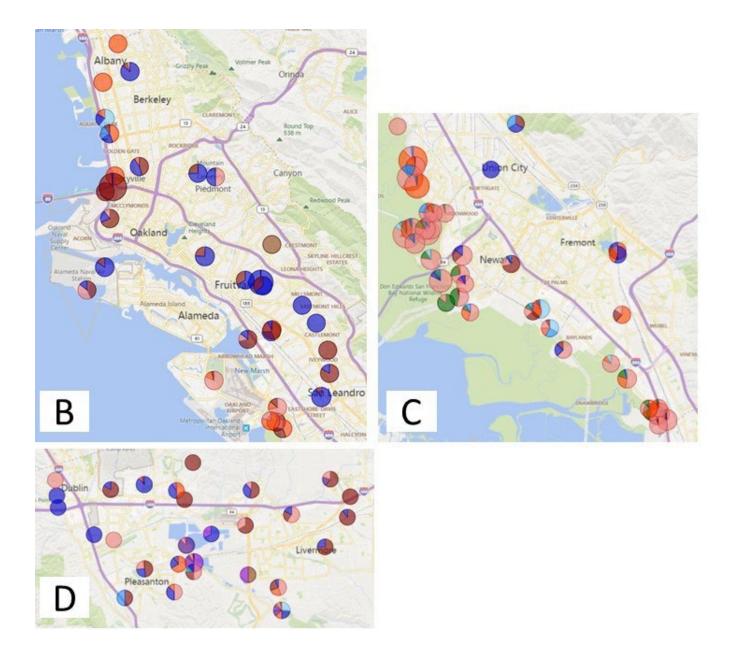
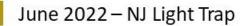


Figure 5. Mosquito abundance by trap site evaluated using EVS CO₂ **traps.** Pie charts over trap sites indicate the distribution of mosquito species collected at the trap site. The size of each pie chart indicates the relative number of mosquitoes at each site during May of 2022. (A) Alameda County (the insert shows traps that were placed but did not collect mosquitoes), (B) the northern region of the county, (C) the southern region, and (D) the eastern region.



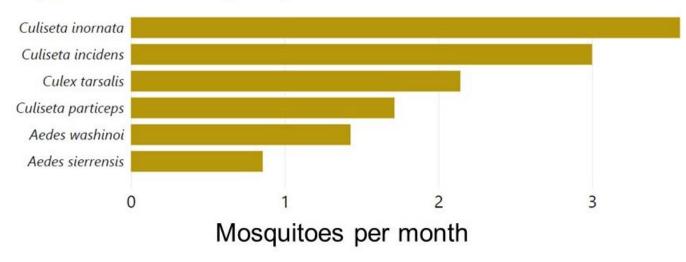
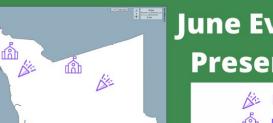


Figure 6. The most abundant species of mosquito captured in NJLT. A total of 161 mosquitoes were captured in NJLT.

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

C. PUBLIC EDUCATION



June Events and Presentations

EventPresentation

Cherry Parade in San Leandro June 4 ACE Camp in Fruitvale, Oakland June 14 and 21 Adventure Time in Castro Valley June 30 Alameda County Fair in Pleasanton June 17- July 10 Juneteenth Festival in South Berkeley June 19th



Upcoming Events and Presentations

- July 4th Parade in Alameda
- Peralta Hacienda ACE Camp Presentations
- Alameda County Fair Display June 17- July 10

School Program

• Survey sent out to teachers, waiting for feedback

Google Analytics

Audience Overvie	w 🥏									SAVE		< SHAR	E	INSIGHTS
All Users 100.00% User	rs			+ Add Se	egment						Jun	1, 2022 -	Jun 30,	2022 🔻
Overview														
Users 🔻 VS. Selec	t a metric											Hourly D	ay Week	Month
 Users 														
1,000														
500														
				-									/	1
Jun 3	Jun 5	Jun 7	Jun 9	Jun 11	Jun 13	Jun 15	Jun 17	Jun 19	Jun 21	Jun 23	Jun 25	Jun 27	Jun 2	9

Figure 1: June website users 2022

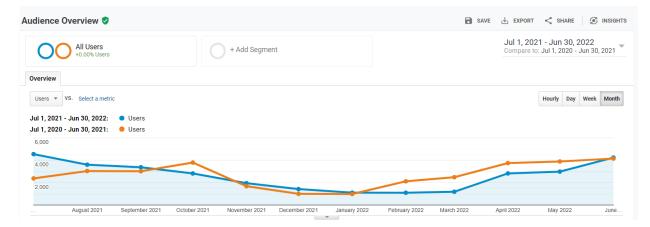
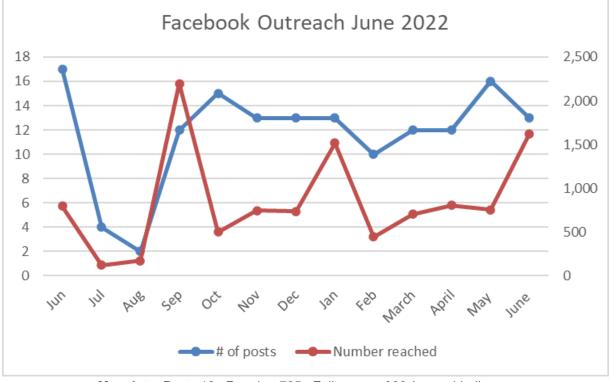


Figure 2: 2-year website comparison



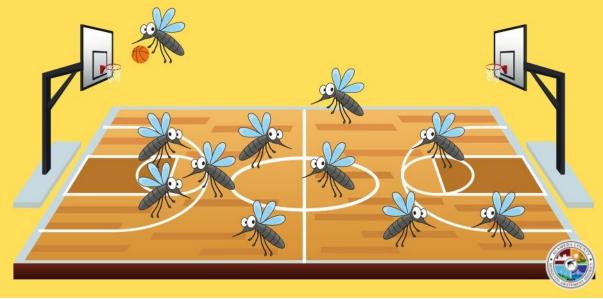


May data: Posts 10 Reach - 785 Followers - 333 (one added)

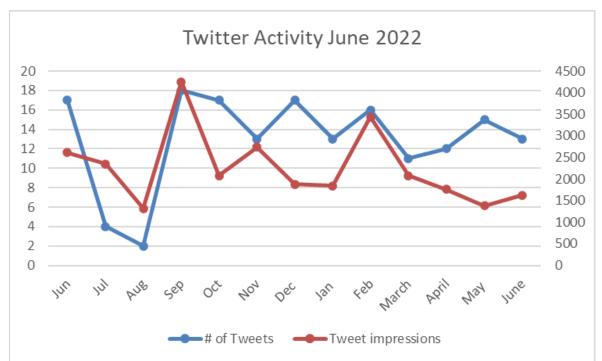
Happy Mosquito Control Awareness Week, DUB Nation!



Pro tip: Toss away standing water after four days water just like Steph tosses the ball into the hoop, and you'll stay golden!



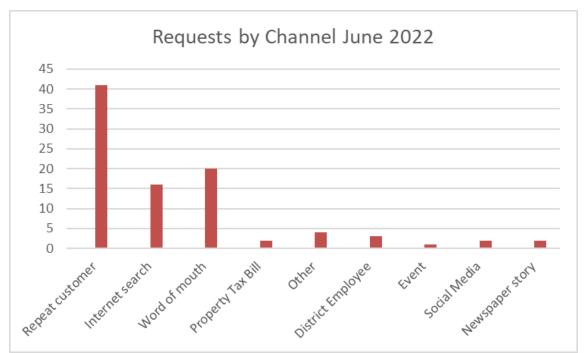
Top June Facebook Post: It's almost parade time! Stay golden by avoiding mosquitoes.



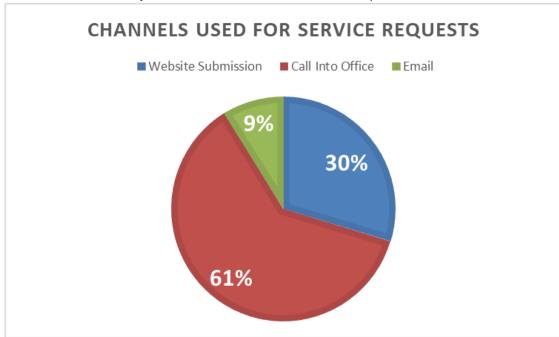
<u>Twitter</u>



Top June Twitter Post: Stop by our display in the Ag building at the Alameda County Fair over the next few weekends. What other time of the year do you get to look like a hitchhiking mosquito?



Service Request Referral Summary for June



91 requests in total: 56 calls, 27 website requests, 8 emails

Report by Judith Pierce MPH, Public Health Coordinator



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Ryan Clausnitzer

General Manager

Staff Anniversary Recognitions:

Background:

ACMAD is pleased to recognize and thank the following employees on their anniversary in July.

Employee	Job Title	Years of Service	Anniversary Date
Joseph Huston	Field Operations Supervisor	31	July 1 st
Eric Haas-Stapleton	Lab Director	7	July 1 st
Ryan Clausnitzer	General Manager	7	July 2 nd
Robert Ferdan	IT Director	7	July 16 th
Judith Pierce	Public Outreach Coordinator	2	July 20 th

California Arbovirus Surveillance Bulletin #13

Week 26 Friday, July 1, 2022



Weekly Update

Humans

No human infections have been reported in 2022.

Dead Birds

A total of 2 West Nile virus (WNV) positive dead birds were reported this week from 2 counties: Sacramento (1) and Merced (1). To date this year, 14 WNV positive dead birds have been reported from 6 counties. At this time last year, 35 WNV positive dead birds had been reported from 5 counties.

Mosquito Pools

West Nile virus

A total of 51 WNV positive mosquito pools were reported this week from 13 counties: Fresno (13), Kern (3), Kings (8), Los Angeles (7), Madera (1), Orange (1), Placer (1), Riverside (2), Sacramento (2), San Joaquin (4), Santa Clara (1), Solano (1), and Tulare (7). **This is the first detection of WNV activity in Kings, Madera, Santa Clara, and Solano counties this year.** In 2022, 138 WNV positive mosquito pools have been reported from 15 counties. At this time last year, 115 WNV positive mosquito pools from 13 counties had been reported.

St. Louis encephalitis virus

Two St. Louis encephalitis virus (SLEV) positive mosquito pools were reported this week from Imperial (1) and Kings (1) counties. **This is the first detection of SLEV activity in California this year.** At this time last year, no SLEV positive mosquito pools had been reported.

Sentinel Chickens

No seroconversions have been reported in 2022.

2021 & 2022 YTD West Nile Virus Comparisons								
	2021	2022						
Total No. Dead Bird Reports	2,826	2,390						
No. Positive Counties	14	18						
No. Human Cases	0	0						
No. Positive Dead Birds / No. Tested	35 / 814	14 / 567						
No. Positive Mosquito Pools / No. Tested	115 / 11,905	138 / 11,535						
No. Seroconversions / No. Tested	0 / 2,154	0 / 1,585						

YTD WNV Activity by Element and County, 2022									
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens				
Contra Costa			1						
Fresno				48					
Kern				27					
Kings				8					
Los Angeles			5	10					
Madera				1					
Merced			1	1					
Nevada			1						
Orange				3					
Placer				3					
Riverside				6					
Sacramento			5	3					
San Joaquin				10					
Santa Clara				1					
Solano				1					
Sutter				1					
Tulare				15					
Yolo			1						
Totals	0	0	14	138	0				

TESTING SUMMARIES

Humans

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

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	35	2
	YTD	567	14

Sentinel Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	162	0	0	0
	YTD	1,585	0	0	0

Mosquito Pools

		Positive / Total Tested								
Mosquito Pools		WNV	SLEV	WEEV	СНІК	DENV	ZIKA			
	Week	51 / 1,373	2 / 1,234	0 / 1,233	0 / 0	0 / 0	0 / 0			
	YTD	138 / 11,535	2 / 11,291	0 / 11,256	0 / 212	0 / 212	0 / 212			

POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Merced	Merced Co MAD	Merced	95340	Hawk	6/26/2022	WNV
Sacramento	Sacramento - Yolo MVCD	Sacramento	95821	American Crow	6/28/2022	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	CNSL1072	532	Culex quinquefasciatus	Fresno	50	GRVD	6/24/2022	WNV
Fresno	CNSL1119	534	Culex quinquefasciatus	Fresno	50	GRVD	6/24/2022	WNV
Fresno	FRNO10	423	Culex tarsalis	Fresno	50	CO2	6/28/2022	WNV
Fresno	FRNO156	399	Culex quinquefasciatus	Fresno	50	GRVD	6/23/2022	WNV
Fresno	FRNO156	400	Culex quinquefasciatus	Fresno	50	GRVD	6/23/2022	WNV
Fresno	FRNO259	404	Culex quinquefasciatus	Fresno	50	GRVD	6/23/2022	WNV
Fresno	FRNO259	405	Culex quinquefasciatus	Fresno	50	GRVD	6/23/2022	WNV
Fresno	FRNO273	421	Culex quinquefasciatus	Fresno	50	GRVD	6/28/2022	WNV
Fresno	FRNO31	422	Culex quinquefasciatus	Fresno	50	GRVD	6/28/2022	WNV
Fresno	FRNO35	394	Culex quinquefasciatus	Fresno	50	GRVD	6/23/2022	WNV
Fresno	FRNO35	395	Culex quinquefasciatus	Fresno	50	GRVD	6/23/2022	WNV
Fresno	FRNO64	397	Culex quinquefasciatus	Fresno	21	GRVD	6/23/2022	WNV
Fresno	FRWS5110	138	Culex tarsalis	Tranquillity	50	CO2	6/28/2022	WNV
Imperial	IMPR102	74	Culex quinquefasciatus	Winterhaven	9	BGSENT	6/22/2022	SLEV
Kern	KERN2030	323	Culex quinquefasciatus	Bakersfield	50	GRVD	6/23/2022	WNV
Kern	KERN2051	329	Culex quinquefasciatus	Bakersfield	36	GRVD	6/24/2022	WNV
Kern	KERN3001	327	Culex quinquefasciatus	Bakersfield	30	CO2	6/23/2022	WNV
Kings	KNGS3028	5	Culex tarsalis	Hanford	50	CO2	6/21/2022	WNV
Kings	KNGS3028	6	Culex tarsalis	Hanford	50	CO2	6/21/2022	WNV
Kings	KNGS3028	7	Culex tarsalis	Hanford	44	CO2	6/21/2022	WNV
Kings	KNGS3028	8	Culex pipiens	Hanford	16	CO2	6/21/2022	WNV
Kings	KNGS3072	40	Culex tarsalis	Hanford	50	CO2	6/24/2022	WNV
Kings	KNGS3072	44	Culex tarsalis	Hanford	50	CO2	6/24/2022	WNV
Kings	KNGS3072	46	Culex erythrothorax	Hanford	20	CO2	6/24/2022	WNV
Kings	KNGS3122	4	Culex tarsalis	Hanford	45	CO2	6/21/2022	SLEV
Kings	KNGS3127	15	Culex tarsalis	Corcoran	50	CO2	6/22/2022	WNV
Los Angeles	GRLA2592	5458	Culex quinquefasciatus	San Marino	50	GRVD	6/23/2022	WNV
Los Angeles	GRLA2593	5459	Culex quinquefasciatus	San Marino	50	GRVD	6/23/2022	WNV
Los Angeles	SGVA291	620	Culex quinquefasciatus	El Monte	22	GRVD	6/29/2022	WNV
Los Angeles	SGVA4	589	Culex quinquefasciatus	Arcadia	50	GRVD	6/21/2022	WNV

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Los Angeles	SGVA491	585	Culex quinquefasciatus	El Monte	50	GRVD	6/21/2022	WNV
Los Angeles	SGVA898	616	Culex quinquefasciatus	San Gabriel	50	GRVD	6/29/2022	WNV
				South				
Los Angeles	SGVA996	622	Culex quinquefasciatus	Pasadena	50	GRVD	6/29/2022	WNV
Madera	MADR3334	156	Culex quinquefasciatus	Madera	50	CO2	6/23/2022	WNV
Orange	ORCO326	1663	Culex quinquefasciatus	La Habra	20	GRVD	6/28/2022	WNV
Placer	PLCR197802	574	Culex tarsalis	Elverta	50	CO2	6/28/2022	WNV
Riverside	COAV48	3333	Culex tarsalis	Mecca	50	CO2	6/28/2022	WNV
Riverside	COAV48	3538	Culex tarsalis	Mecca	50	CO2	6/30/2022	WNV
Sacramento	SAYO214008	1665	Culex pipiens	Carmichael	20	CO2	6/24/2022	WNV
Sacramento	SAYO214008	1666	Culex pipiens	Carmichael	33	GRVD	6/24/2022	WNV
San Joaquin	SJCM8018	705	Culex tarsalis	Stockton	100	CO2	6/28/2022	WNV
San Joaquin	SJCM8018	712	Culex tarsalis	Stockton	100	CO2	6/28/2022	WNV
San Joaquin	SJCM8204	649	Culex tarsalis	Stockton	50	CO2	6/28/2022	WNV
San Joaquin	SJCM8204	653	Culex tarsalis	Stockton	50	CO2	6/28/2022	WNV
Santa Clara	STCL31810	1555	Culex pipiens	Sunnyvale	2	GRVD	6/29/2022	WNV
Solano	SOLA143	101	Culex tarsalis	Elmira	33	CO2	6/28/2022	WNV
Tulare	DLTA64071	1140	Culex stigmatosoma	Dinuba	11	BGSENT	6/28/2022	WNV
Tulare	DLTA741632	1176	Culex quinquefasciatus	Monson	50	CO2	6/29/2022	WNV
Tulare	DLTA84242	1199	Culex quinquefasciatus	Visalia	35	BGSENT	6/29/2022	WNV
Tulare	DLTA8508	1056	Culex quinquefasciatus	Visalia	44	BGSENT	6/23/2022	WNV
Tulare	DLTA8527	1058	Culex quinquefasciatus	Visalia	28	GRVD	6/23/2022	WNV
Tulare	DLTA94023	1047	Culex quinquefasciatus	Visalia	11	GRVD	6/23/2022	WNV
Tulare	DLTA95063	1060	Culex quinquefasciatus	Visalia	24	BGSENT	6/23/2022	WNV

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, <u>https://westnile.ca.gov</u>, or the California Vector-Borne Disease Surveillance System website, <u>https://maps.vectorsurv.org</u>.

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

California CLASS Board of Trustees

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