

**PLACER MOSQUITO & VECTOR CONTROL DISTRICT
BOARD OF TRUSTEES**

2021 Opportunity Drive
Roseville, CA 95678

**REGULAR BOARD MEETING
AGENDA**

February 26, 2024 4:30 PM

www.placermosquito.org

This meeting will be conducted in person and via teleconference. Trustees may, as provided by law, participate remotely under some circumstances. The Board encourages the public to participate remotely by calling (408) 638-0968 and when prompted, enter the Meeting ID: 821 3406 9048 or
<https://us06web.zoom.us/j/82134069048>

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Board of Trustees

Sandy Bendorf
City of Auburn

Will Stockwin
City of Colfax

Peter Gilbert
City of Lincoln

Russ Kelley
Town of Loomis

Merry L. Holliday-
Hanson, Ph.D.
Placer County

Jill Gayaldo
City of Rocklin

Ross Hutchings
City of Roseville

General Manager
Joel Buettner

- | | | |
|----------------|-----------|---|
| | 1 | Call to Order |
| | 2 | Roll Call |
| | 3 | Pledge of Allegiance |
| | 4 | Introduction of Guests
A. Catherine MacLeod, FSA, FCA, EA, MAAA, Principal & Consulting Actuary, MacLeod Watts, Inc. |
| | 5 | Agenda Review |
| | 6 | Public Comment
<i>Members of the public shall be allowed to address the Board of Trustees on items which are of interest to public and which are within the jurisdiction of the Board, before or during the Board's consideration of the item; however, no action shall be taken on any item not appearing on the agenda unless otherwise authorized by the Board pursuant to Government Code Section 54954.2(b). It is requested that comments be limited to no more than 5 minutes.</i> |
| | 7 | Consent Agenda – Action item
A. Minutes of the January 29, 2024 Regular Board Meeting
B. Acknowledge Warrants Issued January 2024
C. Financial Report: Fiscal Year to Date January 31st, 2024 |
| | 8 | Presentation - Catherine MacLeod, MacLeod Watts, Inc. |
| 13
Attach A | 9 | Board Review and Consideration to Accept other Post-Employment Benefits June 30, 2023, Actuarial Valuation and GASB 75 Report for Fiscal Year Ending June 30, 2024 – Action item |
| 15-18 | 10 | Board Review and Consideration of Resolution 2024-01 Delegating Authority to the General Manager to Settle Claims and Litigation Against the District – Action item |
| 19-20 | 11 | Board Review and Consideration to Purchase Ground-Based Mosquito Adulticide Flow Control Systems – Action item |

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12 Staff Reports

- A. Eastern Placer Report- Angella Falco
- 21-25 B. Public Information and Outreach Report – Meagan Luevano
- 27-28 C. Field Operations and Surveillance Report – Jake Hartle
- 29-39 D. General Manager’s Report – Joel Buettner

13 Board/Staff General Discussion

14 Closed Session

- A. Public employee performance evaluation: General Manager
(pursuant to Government Code Section 54957).
- B. Closed Session: Conference with District designated labor
negotiator Joel Buettner regarding negotiations with employee
organizations: Placer Mosquito and Vector Control District
Employees Association and Placer Mosquito and Vector Control
District Association of Managerial Employees (pursuant to
Government Code Section 54957.6)

Reconvene from Closed Session

15 Report from Closed Session

16 Announcements

- A. The next regular Board meeting will be held March 18, 2024 at 4:30
PM, at 2021 Opportunity Dr., Roseville, CA 95678

17 Adjournment

In compliance with the Americans with Disabilities Act, if you are a disabled person and you need a disability-related modification or accommodation to participate in this meeting, please contact the District at (888) 768-2343, fax (916) 380-5455, and/or send e-mail to info@placermosquito.org. Requests must be made as early as possible and at least one-full business day before the start of the meeting. Documents and materials relating to an open session agenda item that are provided to the PMVCD Board less than 72 hours prior to a meeting will be available for public inspection and copying at 2021 Opportunity Drive, Roseville, CA 95678.

Placer Mosquito & Vector Control District
Board of Trustees Regular Board Meeting – Minutes
January 29, 2023 4:30 PM
Placer Mosquito & Vector Control District Office
2021 Opportunity Drive, Roseville, CA 95678

Pursuant to Assembly Bill 2449 this meeting will be conducted via teleconference. In the interest of maintaining appropriate social distancing, the Board encourages the public to participate by calling (408) 638-0968 and when prompted, enter the Meeting ID: 878 7181 5325
or <https://us06web.zoom.us/j/87871815325>

1. **Call to Order:** President Gayaldo called the meeting to order at 4:30 PM.
2. **Roll Call:** Trustees Sandy Bendorf, Jill Gayaldo, Peter Gilbert, Merry Holliday-Hanson, Ross Hutchings, Russ Kelley and Will Stockwin were present.
District Employees Present: Manager Joel Buettner, Jake Hartle, Isabel Alvarez, Angella Falco, and Meagan Luevano.
3. **Pledge of Allegiance** was led by Trustee Gayaldo.
4. **Introduction of Guests:** Will Portello, VCJPA was presented.
5. **Introduction of New Trustee:** Manager Buettner Introduced Sandy Bendorf, City of Auburn appointed Trustee.
6. **Agenda Review:** There was a consensus to move Item #16 Board/Staff General Discussion after Item #13 Staff Reports.
7. **Public Comment:** There were none.
8. **Consent Agenda**
Minutes of the December 21, 2023, Regular Meeting. Item E Accept Strategic Plan report 2023 was pulled from the consent agenda for further discussion.
 - A. Minutes of the December 21, 2023, Regular Board Meeting
 - B. Acknowledge Warrants Issued December 2023
 - C. Financial Report: Fiscal Year to Date December 30th, 2023
 - D. Board Review and Consideration to Designate Selected District Property as Surplus
 - E. Accept Strategic Plan Report 2023

A motion to acknowledge warrants issued December 2023, approve financial report: fiscal year to date December 30th 2023, to designate selected property as surplus was made by Trustee Gilbert seconded by Trustee Holliday- Hanson, unanimously approved, no abstentions.

Ayes: Trustees Bendorf, Gayaldo, Gilbert, Holliday-Hanson, Hutchings, Kelley and Stockwin
Noes: ∅ Abstain: ∅ Absent: ∅

A motion to approve the Minutes of the December 21, 2023, regular meeting was made by Trustee Gilbert seconded by Trustee Holliday- Hanson, unanimously approved, no abstentions.

Ayes: Trustees Bendorf, Gayaldo, Gilbert, Hutchings, Kelley and Stockwin
Noes: ∅ Abstain: Holliday Hanson (Absent) Absent: ∅

A motion to accept strategic plan report 2023 as amended was made by Trustee Gilbert seconded by Trustee Holliday- Hanson, unanimously approved, no abstentions.

Ayes: Trustees Bendorf, Gayaldo, Gilbert, Holliday-Hanson, Hutchings, Kelley and Stockwin
Noes: ∅ Abstain: ∅ Absent: ∅

9. Board Review and Consideration of Election of Board Officers

A motion to elect Trustee Ross Hutchings as President was made by Trustee Gilbert, seconded by Trustee Holliday-Hanson, unanimously approved, no abstentions.

Ayes: Trustees Bendorf, Gayaldo, Gilbert, Holliday-Hanson, Hutchings, Kelley and Stockwin
 Noes: ∅ Abstain: ∅ Absent: ∅

A motion to elect Trustee Will Stockwin as Vice President was made by Trustee Gilbert, seconded by Holliday-Hanson, unanimously approved, no abstentions.

Ayes: Trustees Bendorf, Gayaldo, Gilbert, Holliday-Hanson, Hutchings, Kelley and Stockwin
 Noes: ∅ Abstain: ∅ Absent: ∅

A motion to re-appoint Isabel Alvarez, District Secretary, as Board Secretary, was made by Trustee Hutchings, seconded by Trustee Gilbert unanimously approved, no abstentions.

Ayes: Trustees Bendorf, Gayaldo, Gilbert, Holliday-Hanson, Hutchings, Kelley and Stockwin
 Noes: ∅ Abstain: ∅ Absent: ∅

10. Board Review and Consideration of Committees for 2024

A motion to approve the Committees for 2024 removing Trustee Gayaldo and adding Trustee Hutchings was made by Trustee Stockwin, seconded by Trustee Gilbert, unanimously approved, no abstentions.

Ayes: Trustees Bendorf, Gayaldo, Gilbert, Holliday-Hanson, Hutchings, Kelley and Stockwin
 Noes: ∅ Abstain: ∅ Absent: ∅

<u>Personnel Committee:</u> (Meets on the 4 th Monday of April at 3:30 PM) Trustee Merry Holliday-Hanson Trustee Ross Hutchings	<u>Finance Committee:</u> (Meets on the 1 st Tuesday of May Time: TBD) Trustee Russ Kelley Trustee Peter Gilbert Trustee Will Stockwin
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11. Board Review and Consideration of Replacement of Laboratory Freezer

A motion to approve the purchase of the replacement freezer not to exceed \$18,000 was made by Trustee Holliday-Hanson, seconded by Trustee Gilbert, unanimously approved, no abstentions.

Ayes: Trustees Bendorf, Gayaldo, Gilbert, Holliday-Hanson, Hutchings, Kelley and Stockwin
 Noes: ∅ Abstain: ∅ Absent: ∅

12. Board Review and Consideration of Placer County Local Agency Formation Commission (LAFCO) Nomination of Special District Alternate Voting Member

A motion to Nominate Trustee Peter Gilbert for the Regular Voting Member and Trustee Jill Gayaldo for Alternate Voting Member for Special District Representative to the Placer County Local Agency Formation Commission (LAFCO) was made by Trustee Hutchings, seconded by Trustee Kelley, unanimously approved, no abstentions.

Ayes: Trustees Bendorf, Gayaldo, Gilbert, Holliday-Hanson, Hutchings, Kelley and Stockwin
 Noes: ∅ Abstain: ∅ Absent: ∅

13. Staff Reports

- A. Eastern Placer Report – Angella Falco gave a verbal update.
- B. Public Information and Outreach Report – A written report was submitted. No additional items were reported.
- C. Field Operations and Surveillance Report – Jake Hartle gave a verbal update.
- D. General Manager Report – A written report was submitted. No additional items were reported.

16. Board/Staff General Discussion:

Ms. Alvarez mention the following:

- The City of Colfax appointed Trustee Stockwin for a term of 2 years.
- The City of Rocklin appointed Trustee Gayaldo for a term of 2 years.
- The City of Lincoln appointed Trustee Gilbert for a term of 2 years.
- Form 700 is due April 1st
- Email will be sent if Ethics AB1234 and Sexual Harassment AB1825 has not been completed.

Adjourned to Closed Session at 5:15 PM

14. Closed Session

- A. Conference with legal counsel: Existing litigation pursuant to Paragraph (1) of subdivision (d) of Section 54956.9,
- B. Public employee performance evaluation: General Manager (*pursuant to Government Code Section 54957*).
- C. Closed Session: Conference with District designated labor negotiator Joel Buettner regarding negotiations with employee organizations: Placer Mosquito and Vector Control District Employees Association and Placer Mosquito and Vector Control District Association of Managerial Employees (*pursuant to Government Code Section 54957.6*)

Open Session reconvened at 6:25 PM.

15. Report from Closed Session: *No other reportable action was taken.*

16. Announcements

- A. The District office will be closed February 12, 2024 in observance of the Lincoln’s Birthday Holiday.
- B. The District office will be closed February 19, 2024 in observance of the President’s Day Holiday.
- C. The next regular Board meeting will be held February 26, 2024 at 4:30 PM., at 2021 Opportunity Dr., Roseville, CA 95678

17. Adjournment:

President Gayaldo adjourned the meeting at 6:25 PM.

Minutes approved by the Board and dated, this 26th day of February 2024 after passage.

Ross Hutchings, Board President: _____

Attest:

Isabel Alvarez, Board Secretary: _____

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Warrants January 2024

Payment Date	Payment Type	Payee	Invoice Amount
1/8/2024	Automatic Wire Payment	CALPERS	34,729.54
1/9/2024	Check	DELTEK INC	206.00
1/9/2024	Check	PRINCIPAL LIFE INSURANCE COMPANY - Remit-To: PO BOX 77202	4,474.14
1/9/2024	Check	TRIEPI SMITH & ASSOCIATES INC	8,964.00
1/9/2024	Check	ENG, ALVIN W	1,000.00
1/9/2024	Check	FIRST SOLUTIONS INC	252.50
1/9/2024	Check	ARAMARK UNIFORM & CAREER APPAREL GROUP INC	161.96
1/9/2024	Check	ARAMARK UNIFORM & CAREER APPAREL GROUP INC	220.39
1/9/2024	Check	ARAMARK UNIFORM & CAREER APPAREL GROUP INC	160.90
1/9/2024	Check	BURCHAM, KAREN LYNNE	864.41
1/9/2024	Check	ARNAUDO BROS LP	2,249.10
1/9/2024	Check	MEDPRO WASTE DISPOSAL LLC	222.21
1/9/2024	Check	TEXAS LIFE INSURANCE COMPANY	132.25
1/9/2024	Check	LIBERTY UTILITIES CO - Remit-To: Po Box 80374	449.13
1/9/2024	Check	AMERICAN FIDELITY ASSURANCE COMPANY	1,012.37
1/9/2024	Check	HUNT & SONS INC - Remit-To: PO BOX 101630	1,369.97
1/9/2024	Check	MIDAMERICA ADMINISTRATIVE & RETIREMENT SOLUTIONS	3,831.74
1/9/2024	Check	BUCKMASTER BUSINESS MACHINES	40.58
1/9/2024	Check	PACIFIC GAS & ELECTRIC COMPANY - Remit-To: PO BOX. 997300	1,833.38
1/9/2024	Check	VERIZON WIRELESS - Remit-To: PO. BOX 660108	1,852.95
1/9/2024	Check	VERIZON WIRELESS - Remit-To: PO. BOX 660108	74.18
1/9/2024	Check	CITY OF ROSEVILLE - Remit-To: PO BOX 619136	603.19
1/9/2024	Check	CITY OF ROSEVILLE - Remit-To: PO BOX 619136	2,476.67
1/9/2024	Check	CITY OF ROSEVILLE - Remit-To: PO BOX 619136	70.93
1/9/2024	Check	RIEBES AUTO PARTS LLC	58.49
1/12/2024	Check	BRYCE HR CONSULTING INC	760.00
1/12/2024	Check	HUNT & SONS INC - Remit-To: PO BOX 101630	683.31
1/12/2024	Check	CONSOLIDATED COMMUNICATIONS OF CALIFORNIA COMPANY	152.41
1/12/2024	Check	CONSOLIDATED COMMUNICATIONS OF CALIFORNIA COMPANY	676.24
1/12/2024	Check	OPENTRONS LABWORKS INC	397.60
1/12/2024	Check	JASSO, DAVID CELIO	425.00
1/12/2024	Check	CITIBANK NA - Remit-To: dba Home Depot Credit Services	751.45
1/12/2024	Check	KELSIE FIRE EXTINGUISHER SERVICE LLC	76.00
1/12/2024	Check	ARAMARK UNIFORM & CAREER APPAREL GROUP INC	219.33
1/12/2024	Check	US BANCORP	12,866.44
1/12/2024	Check	OPTIMUM	161.24
1/12/2024	Check	US BANK EQUIPMENT FINANCE	186.87
1/12/2024	EFT Child Support	CASDU - California State Disbursement Unit (SDU)	1,178.76
1/22/2024	Check	JASSO, DAVID CELIO	425.00
1/22/2024	Check	MIDAMERICA ADMINISTRATIVE & RETIREMENT SOLUTIONS	4,407.23
1/22/2024	Check	SOUTHWEST GAS CORP - Remit-To: PO BOX 24531	138.41
1/22/2024	Check	THE LEGACY GROUP INC	424.59
1/22/2024	Check	CLARK, PATRICK SPENCER	1,500.00
1/22/2024	Check	ALESHIRE & WYNDER LLP	1,420.50
1/22/2024	Check	ARAMARK UNIFORM & CAREER APPAREL GROUP INC	160.90
1/22/2024	Check	FUTURE FORD INC - Remit-To: 650 Auto Mall Dr	926.34
1/22/2024	Check	FUTURE FORD INC - Remit-To: 650 Auto Mall Dr	761.20
1/22/2024	Check	TEXAS LIFE INSURANCE COMPANY	132.25
1/22/2024	Check	O'REILLY AUTO ENTERPRISES LLC	30.15
1/26/2024	Check	DELTEK INC	197.76
1/26/2024	Check	HUNT & SONS INC - Remit-To: PO BOX 101630	981.15
1/26/2024	Check	WW GRAINGER INC - Remit-To: dba GRAINGER DEPT 857515290	202.80
1/26/2024	Check	BUCKMASTER BUSINESS MACHINES	44.37
1/26/2024	Check	ARAMARK UNIFORM & CAREER APPAREL GROUP INC	219.33
1/26/2024	EFT Child Support	CASDU - California State Disbursement Unit (SDU)	1,178.76
1/29/2024	Check	PRINCIPAL LIFE INSURANCE COMPANY - Remit-To: PO BOX 77202	4,473.57

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Placer Mosquito Vector Control District
Budget to Actuals YTD as of January 31, 2024

Ledger / Spend Account	Budget	Actuals	Balance	% of Budget
40010:Taxes - Current Secured Property				
RC0010 Taxes - Current Secured Property (GL40010)	(64,339.00)	(35,740.21)	(28,598.79)	55.55%
40040:Taxes - Railroad Unitary Property				
RC0040 Taxes - Railroad Unitary Property (GL40040)	(97.00)	(51.52)	(45.48)	53.11%
40050:Taxes - Unitary and Op Non-Unitary Property				
RC0050 Taxes - Unitary & Op Non-Unitary Property (GL40050)	(2,409.00)	(1,358.46)	(1,050.54)	56.39%
40060:Taxes - Current Unsecured Property				
RC0060 Taxes - Current Unsecured Property (GL40060)	(1,171.00)	(1,338.04)	167.04	114.26%
40070:Taxes - Delinquent Secured Property	(1.00)	0.00	(1.00)	0.00%
40090:Taxes - Delinquent Unsecured Property				
RC0090 Taxes - Delinquent Unsecured Property (GL40090)	(16.00)	(15.84)	(0.16)	99.00%
40100:Taxes - Current Supplemental Property				
RC0110 Taxes - Current Supplemental Property (GL40100)	(1,683.00)	(809.02)	(873.98)	48.07%
40110:Taxes - Delinquent Supplemental Property				
RC0120 Taxes - Delinquent Supplemental Property (GL40110)	(1.00)	(4.02)	3.02	402.00%
40180:Other Taxes				
RC0270 Parcel Taxes (GL40180)	(350,064.00)	(186,830.25)	(163,233.75)	53.37%
42010:Investment Income	(10,000.00)	(41,048.91)	31,048.91	410.49%
RC0560 Interest / Investment Income (GL42010)		(41,049.20)		
RC0561 5151 Interest (GL42010)		0.29		
42030:Short-Term Rents and Concessions	(6,000.00)	0.00	(6,000.00)	0.00%
44350:State Homeowners Property Tax Relief				
RC1440 Homeowners Property Tax Relief (GL44350)	(406.00)	(177.87)	(228.13)	43.81%
46030:Direct Charges				
RC1720 Direct Charges (GL46030)	(5,385,420.00)	(3,019,467.66)	(2,365,952.34)	56.07%
46430:Insurance - Other				
RC2930 Insurance - Other (GL46430)	0.00	(62,354.64)	62,354.64	0.00%
48030:Miscellaneous				
RC3080 Miscellaneous Other Revenue (GL48030)	(20,000.00)	(16,543.69)	(3,456.31)	82.72%
49030:Proceeds from Sale of Capital Assets				
RC3170 Proceeds from Sale of Capital Assets (GL49030)	0.00	(6,238.00)	6,238.00	0.00%
Total Revenue	(5,841,607.00)	(3,371,978.13)	(2,469,628.87)	57.72%
51010:Salaries and Wages				
SC1010 Salaries and Wages (GL51010)	2,383,746.88	1,322,707.44	1,061,039.44	55.49%
51040:Overtime and Call Back				
SC1040 Overtime and Call Back (GL51040)	16,049.13	10,558.75	5,490.38	65.79%
51210:Retirement	301,691.19	174,868.01	126,823.18	57.96%
SC1210 CalPERS (GL51210)		124,220.01		
SC1852 CalPERS (GL51210)		50,648.00		
51220:Payroll Tax				
SC1220 FICA (GL51220)	46,793.63	27,838.29	18,955.34	59.49%
51240:Other Postemployment Benefits (OPEB)				
SC1858 Other Post Employment Benefits (OPEB) (GL51240)	120,047.00	13,115.72	106,931.28	10.93%
51350:Emp Benefits Other Agencies				
SC1888 Employee Benefits Other Agencies (GL51350)	457,348.53	303,156.41	154,192.12	66.29%
51380:Other Benefits				
SC1897 Other Benefits (GL51380)	1,362.00	456.87	905.13	33.54%
52020:Pesticides				
SC2030 Poisons, Pesticides and Chemicals - Agricultural and Industrial (GL52020)	591,224.36	272,915.08	318,309.28	46.16%

Placer Mosquito Vector Control District
Budget to Actuals YTD as of January 31, 2024

52030:Clothing and Personal				
SC2040 Work Clothes (GL52030)	6,500.00	4,231.81	2,268.19	65.10%
52040:Communication Services Expense				
SC2085 Communication Services - Telephone (GL52040)	70,466.94	18,824.02	51,642.92	26.71%
52050:Food				
SC2110 Food and Water, All Types (GL52050)	800.00	338.87	461.13	42.36%
52060:Janitorial Supplies	1,592.34	0.00	1,592.34	0.00%
52080:Insurance				
SC2140 Insurance and Insurance Services (GL52080)	215,189.96	210,867.00	4,322.96	97.99%
52140:Parts				
SC2200 Automotive Accessories, Equipment and Parts (GL52140)	6,000.00	7,141.72	(1,141.72)	119.03%
52160:Maintenance	20,876.00	27,661.20	(6,785.20)	132.50%
SC2260 Equipment Maintenance and Repair for Vehicles & Aircraft (GL52160)		27,273.65		
SC2270 Equipment Maintenance and Repair Services (GL52160)		387.55		
52161:Maintenance - Building				
SC2861 Maintenance - Building - 1099 Reportable (GL52161)	36,961.00	22,737.11	14,223.89	61.52%
52170:Fuels & Lubricants				
SC2340 Gasoline, All Types (GL52170)	51,750.00	26,996.62	24,753.38	52.17%
52180:Materials - Buildings & Improvements	1,500.00	0.00	1,500.00	0.00%
52190:Maintenance - Janitorial				
SC2430 Janitorial Management Services - 1099 Reportable (GL52190)	9,280.00	2,825.00	6,455.00	30.44%
52210:Services				
SC2455 Airplane/Helicopter Services NOC - 1099 Reportable (GL52210)	356,430.00	239,962.75	116,467.25	67.32%
52220:Laboratory Supplies	79,300.00	30,514.51	48,785.49	38.48%
SC2480 Clinical Laboratory Reagents and Tests (GL52220)		12,100.91		
SC2500 Gases, Lab / Medical / Welding (GL52220)		4,904.39		
SC2521 Laboratory Supplies (GL52220)		13,509.21		
52240:Professional / Membership Dues				
SC2550 Membership / Registration / Association / Warranties (GL52240)	30,745.00	29,234.00	1,511.00	95.09%
52245:Warranties	5,024.00	0.00	5,024.00	0.00%
52260:Misc Expense				
SC2570 Misc Expense (GL52260)	0.00	14,615.46	(14,615.46)	0.00%
52330:Other Supplies	15,918.00	2,225.02	13,692.98	13.98%
SC2650 First Aid and Safety Equipment and Supplies (GL52330)		1,183.45		
SC2660 Office Supplies - Paper - Should meet 30% min. Recycled Content (GL52330)		956.43		
SC2661 Office Supplies Excluding Paper Goods (GL52330)		85.14		
52340:Postage				
SC2790 Postage (GL52340)	275.00	164.81	110.19	59.93%
52360:Professional and Special Services - General	175,731.88	123,351.18	52,380.70	70.19%
SC2820 Personnel Services - 1099 Reportable (GL52360)		10,797.60		
SC2840 Collection Charges - 1099 Reportable (GL52360)		81,185.52		
SC2860 SB2557 Property Tax Admin Costs - 1099 Reportable (GL52360)		1,165.24		
SC2940 Consulting Services - 1099 Reportable (GL52360)		15,570.00		
SC2945 Uniform Rental and Laundry Services - 1099 Reportable (GL52360)		5,664.65		
SC3010 Alarm Services - 1099 Reportable (GL52360)		3,837.54		
SC3070 AB2838 - LAFCO Fees - 1099 Reportable (GL52360)		5,130.63		
52370:Professional and Special Services - Legal				
SC3130 Legal Services - 1099 Reportable (GL52370)	15,000.00	12,210.50	2,789.50	81.40%
52380:Professional and Special Services - Technical, Engineering and Environmental	39,911.00	25,202.34	14,708.66	63.15%
SC3150 Grounds Maintenance Services - 1099 Reportable (GL52380)		2,945.00		
SC3280 Security, Fire, Safety, and Emergency Services (GL52380)		461.00		
SC3320 Environmental and Ecological Services - 1099 Reportable (GL52380)		20,000.00		
SC3322 Hazardous Waste (GL52380)		1,796.34		

Placer Mosquito Vector Control District
Budget to Actuals YTD as of January 31, 2024

52390:Professional and Special Services - County				
SC4705 Internal Professional and Special Services (Non-Interfund Transfer) (GL52390)	12,601.58	15,321.76	(2,720.18)	121.59%
52400:Professional and Special Services - Information Technology	148,066.00	75,553.52	72,512.48	51.03%
SC3370 Data Processing, Computer, Programming, and Software Services (GL52400)		30,099.31		
SC3380 Computer Management Services - 1099 Reportable (GL52400)		45,454.21		
52440:Short-Term Rents and Leases - Equipment				
SC3460 Short-Term Equipment Rental or Lease Services - 1099 Reportable (GL52440)	2,647.00	1,323.59	1,323.41	50.00%
52450:Short-Term Rents and Leases - Buildings & Improvements				
SC3480 Short-Term Real Property Rental or Lease - 1099 Reportable (GL52450)	26,989.20	15,743.70	11,245.50	58.33%
52460:Small Tools & Instruments				
SC3530 Hardware and Related Items (GL52460)	17,500.00	14,869.59	2,630.41	84.97%
52480:PC Acquisition				
SC3560 Computers, Handheld, Laptop, and Notebook (GL52480)	19,550.00	5,956.75	13,593.25	30.47%
52520:Trustee Meetings Compensation				
SC3630 Trustee Meetings Compensation - 1099 Reportable (GL52520)	8,400.00	3,900.00	4,500.00	46.43%
52560:Small Equipment				
SC3710 Electronic Equipment, Parts, and Accessories (GL52560)	15,000.00	843.80	14,156.20	5.63%
52570:Advertising	75,156.88	44,088.32	31,068.56	58.66%
SC3890 Marketing Services - 1099 Reportable (GL52570)		43,789.60		
SC3895 Publications and Legal Notices (GL52570)		298.72		
52590:Tuition Reimbursement				
SC4070 Tuition Reimbursement (GL52590)	4,000.00	1,608.71	2,391.29	40.22%
52785:Training / Education				
SC4000 Educational/Training Services - 1099 Reportable (GL52785)	8,450.00	4,683.98	3,766.02	55.43%
52790:Transportation and Travel	25,860.00	10,946.76	14,913.24	42.33%
SC4280 Travel & Transportation (GL52790)		9,862.41		
SC4290 Mileage (GL52790)		1,084.35		
52800:Utilities				
SC4340 Utilities (GL52800)	79,545.61	34,852.81	44,692.80	43.81%
53040:Lease Purchase Principal				
SC4720 Lease Purchase Principal (GL53040)	288,000.00	288,000.00	0.00	100.00%
53080:Lease Purchase Interest				
SC4760 Lease Purchase Interest (GL53080)	52,326.00	28,366.20	23,959.80	54.21%
Total Expenses (Non Capital Assets)	5,841,606.11	3,470,779.98	2,370,826.13	59.41%
54450:Equipment	0.00	121,970.49	(121,970.49)	0.00%
SC2680 CA Aircraft and Airport Equipment (GL54450)	0.00	52,335.13	(52,335.13)	0.00%
SC5210 CA Vehicles, All Types (GL54450)	0.00	69,635.36	(69,635.36)	0.00%
Total Capital Assets	0.00	121,970.49	(121,970.49)	0.00%
Total Expenses	5,841,606.11	3,592,750.47	2,248,855.64	61.50%

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Board Review and Consideration to Accept other Post-Employment Benefits June 30, 2023, Actuarial Valuation and GASB 75 Report for Fiscal Year Ending June 30, 2024

Background

Actuarial reports are required for assessing the financial health and future obligations of pension and other post-employment benefits (OPEB) plans. Conducted every two years, these reports provide a detailed analysis of the plan's liabilities and funding status, ensuring that the plan remains sustainable and capable of meeting its obligations to retirees. They help in understanding the impact of demographic and economic changes on the plan and guide strategic decisions regarding funding and benefits policy to maintain fiscal responsibility and compliance with regulatory requirements.

The attached document is an actuarial report on the Other Post-Employment Benefits (OPEB) liabilities of the Placer Mosquito and Vector Control District as of June 30, 2023, for the fiscal years ending June 30, 2024 and June 30, 2025. It aims to remeasure plan liabilities, develop Actuarially Determined Contributions (ADC) levels for prefunding plan benefits, provide information for the California Employers' Retiree Benefit Trust (CERBT), and fulfill GASB 75 reporting requirements. The report assumes the District will continue contributing 100% or more of the ADC annually and is based on employee data, plan benefits, retiree benefit payments, and the assumption that OPEB trust assets remain in CERBT Asset Allocation Strategy 2.

Fiscal Impact

The attached report calculates a Total Expected Employer Contribution of \$171,425 for FY 2024-25 which is over \$50,000 higher than this contribution in FY 2023-24. The explanation for this increase can be found in Section E. Funding Information on pages 22- 25 in the attached document.

Staff Recommendation

Staff recommends the board accept the attached actuarial report and direct the General Manager to implement the funding strategy for the fiscal years ending in 2024 and 2025.

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Board Review and Consideration of Resolution 2024-01 Delegating Authority to The General Manager to Settle Claims and Litigation Against the District

Background

Fortunately, the District has had extremely few claims or litigation over the past 15 years. Recently, claims arising from vehicle accidents have required the District to develop more detailed processes to coordinate with the District's liability insurance provider, Vector Control Joint Powers Association (VCJPA), and comply with the Government Claims Act. Part of this process is to ensure that the District can respond to claims in a timely manner. Under current policy, the General Manager must bring all claims to the Board of Trustees for consideration. To improve the timely processing of claims in the future, with the advice of the District's General Counsel, we are proposing that the Board of Trustees delegate authority to the General Manager to settle claims and litigation against the District under certain circumstances.

Fiscal Impact

None

Staff Recommendation

Staff and District General Counsel recommend that the board approve Resolution 2024-01 Delegating Authority to the General Manager to Settle Claims and Litigation Against the District as presented.

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RESOLUTION NO. 2024-01 - DRAFT

**A RESOLUTION OF THE BOARD OF TRUSTEES OF THE
PLACER COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT
DELEGATING AUTHORITY TO THE GENERAL MANAGER TO SETTLE CLAIMS
AND LITIGATION AGAINST THE DISTRICT**

WHEREAS, the Government Claims Act (California Government Code Section 900 et. seq.) (Act) establishes general provisions regarding the processing of tort claims filed against public agencies, and authorizes public agencies to adopt local procedures not in conflict with state law;

WHEREAS, California Government Code Section 935.4 permits the Board of Trustees of the Placer County Mosquito and Vector Control District (District), by resolution, to authorize an employee of the District to perform claims administration functions under the Act and to allow, compromise, or settle pending tort claims against the District in an amount not to exceed fifty thousand dollars (\$50,000);

WHEREAS, California Government Code Section 949 further permits the Board of Trustees to delegate its authority to compromise or settle all other pending actions against the District, including lawsuits;

WHEREAS, consideration by the Board of Trustees of each and every claim or action against the District can be inefficient, untimely, and prevent the District from considering other important matters of District business; and

WHEREAS, the Board of Trustees desires to (i) delegate settlement authority to the General Manager in amount of twenty five thousand (\$25,000) pertaining to tort claims and other pending actions, including litigation; and (ii) establish a maximum limit on the delegation of settlement authority pertaining to tort claims and other pending actions, including litigation, to the General Manager and General Counsel in consultation with each other in amounts that exceed twenty five thousand dollars (\$25,000), but do not exceed fifty thousand dollars (\$50,000).

NOW, THEREFORE, BE IT RESOLVED, by the Board of Trustees of the Placer County Mosquito and Vector Control District as follows:

Section 1. The General Manager, or the General Manager's designee, is authorized to allow, compromise, or settle any tort claims or other pending actions, including litigation against the District that do not exceed twenty-five thousand dollars (\$25,000).

Section 2. Both General Manager, or the General Manager's designee, and General Counsel, or General Counsel's designee, are authorized, in consultation with each other, to jointly allow, compromise, or settle any tort claims or other pending actions, including litigation against the District that exceed twenty-five thousand dollars (\$25,000), but do not exceed fifty thousand dollars (\$50,000).

Section 3. The General Manager, or General Counsel, shall report on actions resolved pursuant to this delegation on no less than a quarterly basis, or as otherwise required by law.

Section 4. To the extent any provision of this Resolution conflicts with the provisions of any prior District resolution, the provisions of this Resolution shall govern.

Section 5. This Resolution shall take effect immediately upon its adoption by the Board of Trustees.

PASSED AND ADOPTED by the Board of Trustees of the Placer Mosquito and Vector Control District on the 26th day of February 2024 by the following vote:

AYES: Ø
NOES: Ø
ABSTAIN: Ø
ABSENT: Ø

Ross Hutchings, Board President

Attest:

Isabel Alvarez, Board Secretary

Board Review and Consideration to Purchase Ground-Based Mosquito Adulticide Flow Control Systems

Background

The District operates three truck-based Ultra Low Volume mosquito adulticide sprayers and one truck-based A1 mist blower to make wide area larvicide applications. During truck applications the best practice is to use a flow-control system that ensures that the amount of material being sprayed remains consistent even if the speed of the truck changes. In addition to the flow control system, it is highly desirable to have a navigation system that allows the driver to keep track of where they are in the spray area, and which roads have been treated and which have not. Currently, our trucks do not have flow control, and the navigation system is not reliable.

Many flow control and truck application navigation systems are proprietary to the spray equipment or the data management system, which makes it difficult and expensive to upgrade. We recently learned about a new system that is offered by a company called VeeMac that will attach to any spray system and has its own data management system that will handle truck-based spray operations. The data from the spray operations would then be easily available for our standard reporting systems to access.

Fiscal Impact

Typically, we budget for large equipment purchases, however given the lead time to receive the spray systems, installation, and training, we would ideally purchase the systems as soon as possible to have them ready for use in 2024. Given that these systems will be used at least half the time to address our invasive mosquito infestation areas, with the remainder of the time used for WNV mosquito treatments, we propose purchasing these systems with funds from the emergency/invasive mosquito designation. Currently the balance of the Emergency Designation is \$537,516 and the estimated cost to equip four truck-based spray systems with the VeeMac system is \$17,237.

Staff Recommendation

Staff recommends the board approve the purchase of four VeeMac flow control and navigation systems and associated equipment and software licensing as presented on the attached cost estimate not to exceed \$19,000 using funds from the Emergency Designation to be appropriated by a journal entry prior to the end of the FY 2023-24.

VeeMAC, LLC

377 Tybrisa Ct
Cantonment, FL 32533

Invoice

Date	Invoice #
1/29/2024	Placer0124

Bill To
Placer Mosquito & Vector Control District Joel Buettner 2021 Opportunity Drive Roseville, CA 95678

Ship To
Placer Mosquito & Vector Control District Joel Buettner 2021 Opportunity Drive Roseville, CA 95678

P.O. Number	Terms	Rep	Ship	Via	F.O.B.	Project
	Due on receipt		1/29/2024			
Quantity	Item Code	Description			Price Each	Amount
1	Server Node	Pump Sprayer control boxes Annual Cloud Central Server Yearly maintenance			1,100.00	1,100.00
5	Remote Node				1,100.00	5,500.00
4	control boxes				1,750.00	7,000.00
1	Cloud Server				1,200.00	1,200.00
6	service				300.00	1,800.00
1	Sales tax				637.00	637.00
Yearly maintenance is from 2/1/24 to 1/31/25					Total	\$17,237.00

Public Information and Outreach Report

Reporting period: January 2024

Prepared by: Meagan Luevano, Public Information Officer

SERVICE REQUESTS

We saw an enormous increase in service requests because of consecutive warm days in January. In the history of our service request reporting, the most requests we've received in a day is 26. During January, we received 111 requests in a single day for mosquito activity. We shared *Anopheles freeborni* information through phone, email, social media and eblasts.

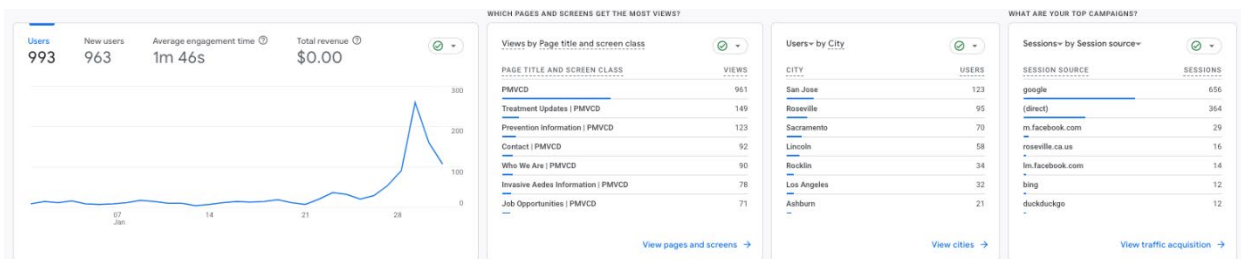
In January 2024, a total of 282 service requests were submitted.



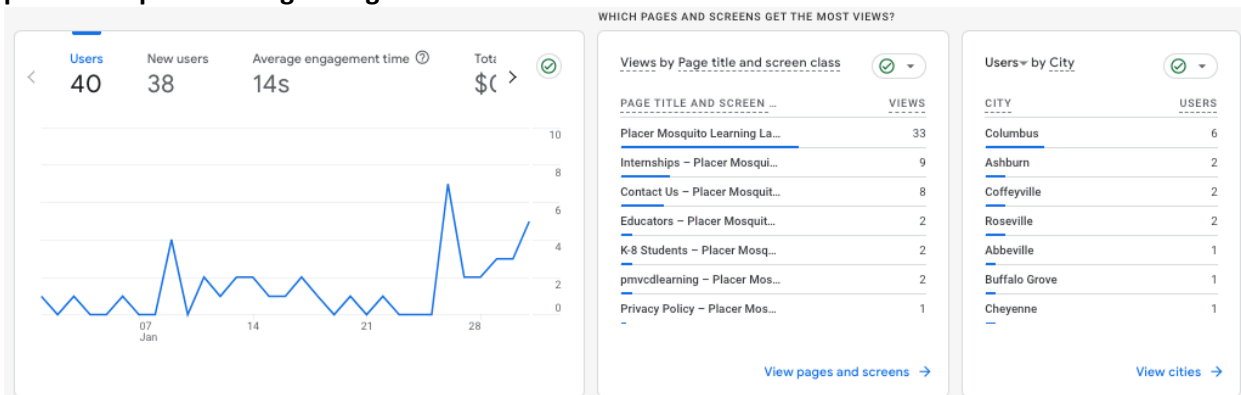
WEBSITE ANALYTICS

placermosquito.org

We can attribute the increase in website visitors due to service requests and an overall mosquito activity increase. The website headers were updated to reflect the most newsworthy information about the District.



placermosquitolearninglab.org



CITY COUNCIL PRESENTATIONS

- Planning for Spring/early Summer presentations.

COMMUNITY OUTREACH AND EDUCATION EVENTS

We are still working on building out our events schedule for 2024. The below photo is from the UNR STEM Career Fair. The spreadsheet is the planned events to date.



Category	Event Title	Date	Time	City
Career Fair	UNR STEM Career Fair	Wednesday, February 14, 2024	1-4 p.m.	Reno
Community Event	UC Master Gardeners Placer County Garden Faire	Saturday, April 13, 2024	9 a.m. - 3 p.m.	Roseville
Community Event	Placer Nature Center	Saturday, April 20, 2024	10 a.m. - 2 p.m.	Auburn
Community Presentation	National Association of Retired and Veteran Railway Employees	Friday, April 5, 2024	10:30 a.m. - 12 p.m.	Roseville
Community Presentation	The Club at WestPark by Del Webb	TBD	TBD	Roseville
Community Presentation	Heritage Placer Vineyards Community	TBD	TBD	Roseville
Media Event	Drone Demonstration Day	Wednesday, April 17, 2024	10 a.m. - 12 p.m.	Roseville

SCHOOL OUTREACH

Vinny and Violet are taking the What Bugs You School Tour back on the road! We are planning to do 8 assemblies in the county at schools in the different cities and towns. Five have been scheduled so far.



Category	Event Title	Date	Time	City
School Assembly	What Bugs You School Tour @ Thomas Jefferson Elementary School	Monday, February 12, 2024	9:45-10:45 a.m.	Roseville
School Assembly	What Bugs You School Tour @ Coyote Ridge Elementary School	Wednesday, February 14, 2024	9-10 a.m.	Roseville
School Assembly	What Bugs You School Tour @ Scott Leaman Elementary School	Thursday, February 22, 2024	9-10 a.m.	Lincoln
School Assembly	What Bugs You School Tour @ Antelope Creek Elementary School	Wednesday, March 6, 2024	TBD	Rocklin
School Assembly	What Bugs You School Tour @ Sheridan Elementary School	Tuesday, March 12, 2024	10-11 a.m.	Sheridan

ONGOING OUTREACH MATERIALS/SOCIAL MEDIA/ADVERTISING

- Weekly social media development
- Monthly eblasts
- Tahoe Basin Campaign



Profile	Audience	Net Audience Growth	Published Posts	Impressions	Engagements	Engagement Rate (per Impression)	Video Views
Reporting Period	3,203	25	8	853	39	4.6%	4
Jan 1, 2023 – Jan 31, 2023	↗ 0.8%	↗ 127.3%	↘ 60%	↘ 67.3%	↘ 61.8%	↗ 16.9%	↘ 42.9%
Compare to	3,178	11	20	2,607	102	3.9%	7
Dec 1, 2022 – Dec 31, 2022							
Placer Mosquito and ...	—	0	0	0	0	—	—
placermosquito	425	0	2	161	8	5%	0
@PlacerMosquito	1,127	4	3	335	17	5.1%	0
Placer Mosquito & Ve...	1,651	21	3	357	14	3.9%	4
Placer Mosquito	—	—	0	—	0	—	—

DISTRICT NEWS
placermosquito.org
(916) 380-5444

In the past week, we've received 60 service requests.

In the past week, we've received a record number of public service requests about mosquito activity. We appreciate our residents reporting unusually high mosquito activity in the county through our website and by phone. Our administrative and field staff have been working hard to respond quickly to your reports by returning calls and emails and conducting property inspections. *Anopheles freeborni*, the rice field mosquito, have been extremely active this last week.

Two important notes:

1. *Anopheles freeborni* mosquitoes do not spread disease in our county.
2. Your best protection from mosquito bites is using repellent with ingredients like DEET, Picaridin or IR3535, close doors and windows or check screens to make sure they are in good condition to keep these mosquitoes from coming inside your home.

DISTRICT NEWS
placermosquito.org
(916) 380-5444

Mosquitoes are Biting but Don't Spread Disease

Today, we've received over 60 service requests and many calls from our residents concerned about recent mosquito activity. The good news is these mosquitoes you're experiencing do not spread disease in our county. The bad news is that these mosquitoes have been overwintering in our communities since fall and have awakened because of our recent warm weather. These mosquitoes are aggressive biters and hungry for a blood meal after overwintering.

More good news ... with this week's coming rain and cooler temperatures, we expect this mosquito activity to pause for a few days. However, that does not mean we're in the clear from mosquito bites.

Unlike the West Nile virus carrying mosquitoes (*Culex* spp.) or our invasive mosquitoes (*Aedes* spp.), *Anopheles* mosquitoes typically use standing water in rural areas in the summer and fall to develop into adults, then the female adult mosquitoes overwinter in vegetation or around structures during the winter. A female *Anopheles* mosquito can travel many miles from where it develops to where it chooses to overwinter. When daytime temperatures get into the 60s, these mosquitoes awaken and look for a blood meal (i.e. bite you) to prepare to lay eggs later in the spring. They can be aggressive biters and try to get inside your home. When the weather is cold again, the *Anopheles* mosquitoes will become dormant again until the next time it is warm.

DISTRICT NEWS
placermosquito.org
(916) 380-5444

Experiencing mosquito bites in the winter? You're not alone!

Although it may seem odd to get mosquito bites in the winter, every year we receive calls from residents about mosquito activity in January and February. These mosquitoes biting you are *Anopheles freeborni*, the rice field mosquito. These adult mosquitoes become active after consecutive warm days and while they aggressively bite people in the winter, they do not spread disease.

Protect yourself from winter bites by checking the holes in window and door screens and making sure you have an EPA-registered repellent on hand. Remove all standing water completely. Watch this video for more information!

Tahoe Basin Campaign

We developed a webpage dedicated to the Tahoe Basin area – placermosquito.org/tahoe. We will start posting to social media once a week about our activities in the Tahoe Basin area.

Did you know?

WE SERVE THE TAHOE BASIN.

The Placer Mosquito and Vector Control District works hard to protect East Placer from mosquitoes, yellowjackets, and rodents. The northwest part of the Tahoe Basin is in Placer County and a part of the District's service area. The District's Tahoe Basin substation was opened in 2009 near Truckee to provide vector control services to eastern Placer County, help manage mosquitoes and yellowjackets, and assist the California Department of Public Health with the community-wide risk of rodent-borne diseases like plague and hantavirus.

Service Requests
We respond to public service requests. For the fastest service, submit problem reports in our website.

Mosquitoes
Mosquitoes are the most common vector for many diseases but are also a nuisance. We provide mosquito control services to help manage mosquito populations in agricultural areas, residential areas, and public areas. We provide mosquito control services to help manage mosquito populations in agricultural areas, residential areas, and public areas.

Yellowjackets
Yellowjackets are the most common vector for many diseases but are also a nuisance. We provide yellowjacket control services to help manage yellowjacket populations in agricultural areas, residential areas, and public areas. We provide yellowjacket control services to help manage yellowjacket populations in agricultural areas, residential areas, and public areas.

Rodents
Rodents are associated with serious diseases like plague and hantavirus. The District assists the California Department of Public Health with mitigating community-wide risk of exposure.

Drones
Trained and certified drone pilots can access areas that are environmentally sensitive or hard to reach in the field. Drones are an important tool to protect public health in the Tahoe Basin.

PLACERMOSQUITO.ORG/TAHOE

WE'RE HIRING IN THE TAHOE BASIN.

Seasonally, the substation hires temporary employees during the busiest months between May and September. We are currently hiring a Seasonal Vector Control Assistant and have created some flexible working arrangements for students who are interested in the position.

MEET ANGELLA.

Angella has been with Placer Mosquito and Vector Control District for over 15 years and has been the field station manager at the Tahoe Basin substation since 2014. Angella is the main point of contact for all activities in the Tahoe Basin area.



MEDIA RELATIONS

Although we did not send a press release on Anopheles out, we did include the media in our email blast and Sac-Yolo MVCD did interviews that covered our increase in mosquito activity.

Date	Source	Type	URL	Subject
2/6/2024	Placer Sentinel	Online	https://www.placersentinel.com/2024/02/06/480578/placer-mosquito-vector-control-district-receives-record-public-service-requests-for-anopheles-mosquitoes	Anopheles
2/9/2024	SacBee	Online	https://www.sacbee.com/news/local/article285248412.html	Anopheles

PROFESSIONAL TRAININGS & CONFERENCES

- MVCAC Legislative Days – February 21 and 22, 2024
 - Met with legislators to discuss state of mosquito control in CA.
- Sacramento State MPPA Culminating Project Presentation – May 14

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Field Operations and Surveillance Report

Prepared February 18, 2024

Assistant Manager: Jake Hartle

Supervisors: Mike Ashley, Casey Hubble, Scott Schon

Mosquito Surveillance & Vector-borne Disease Testing

- **Adult Mosquito Abundance**

- Winter adult mosquito trapping continues to collect low numbers. *Culiseta inornata* and *Culiseta incidens* (Figure 1) mosquitoes are some of that are being collected. These mosquitoes primarily develop in low lying areas such as roadside ditches and retention ponds. These types of sources are being prioritized by vector control technicians (VCTs) during their day-to-day activities.
- We also continue to collect adult *Anopheles freeborni*. While these species emerge as adults during the summer and fall, they shelter in structures, such as attics and garages during the colder months. On warm days, they come out from these structures in search of a blood meal typically leading to an increase of online service requests and phone calls to the district. The fluctuation of abundance from year to year and week to week is displayed in Figure 1. There were 371 service requests closed in January, which is a record-breaking month for requests. Most of these requests were due to adult *Anopheles* mosquitoes.

Operations

- **Mosquito Source Work**

- Along with responding to a record number of service requests in January, VCTs continued to check mosquito sources in their zones. During January, they visited 1408 sources and treated 75 of them.

- **UAS Update**

- Supervisor Scott Schon and Lead VCT Ev Ortiz continue to evaluate our new Hylio Ag-210 by analyzing multiple swath widths and application rates.
 - In January they made 19 flights and 52 flights thus far in February.
- The Hylio AG-230 UAS is expected to be delivered to the District later this week.

- **Rice Maps**

- Brian Ghilarducci will be taking on the task of collecting the data from rice farmers needed to create our annual rice maps that display total acres of conventional and organic rice field. Brian will be working directly with supervisors Scott Schon and Mike Ashley along with Jake Hartle.



Projects

- **Vectech**
 - Our multiyear calibration with Vectech is going well. The lab team is currently using the IDX imaging machine to identify ticks and are planning to switch back to mosquitoes in the spring.
 - Supervisor Casey Hubble is reaching out to other districts with the goal of collecting mosquito species that are not as abundant in our county. These species will also be used to help train the IDX identification software program.
- **USDA: Agricultural Research Service (ARS) biting fly**
 - USDA-ARS, is studying the overwintering of primarily cattle-related disease called vesicular stomatitis virus. This disease is vectored by biting midges and blackflies. They have asked the District to provide any midges or blackflies as part of their study. The lab staff will be sorting out these species from our regular mosquito trap by-catch and sending them to USDA-ARS through the end of March.

General Updates

- **Laboratory (-80°) freezer**
 - The replacement laboratory freezer has been purchased and received. Installation is scheduled for the week of February 18.
- **Regional Government Services (RGS)**
 - As part of Casey Hubble's supervisor training, Casey is currently participating in RGS' supervisor academy. This is a 10-week virtual course that runs through April 2. It is designed for new or experienced supervisors in local government and allows for online interaction and discussions with peers from local government agencies.
- **VCJPA**
 - February 29-March 1, Isabel Alvarez, and Jake Hartle will be attending the VCJPA workshop.
- **VDCI**
 - Aerial adulticide contractor VDCI has increased their price per acre this year from \$0.6375 to \$0.6503 per acre. This 2% increase is allowed by the contract.

General Manager's Report

Joel Buettner, General Manager

02/20/2024

- **MVCAC Legislative Day and Spring Meeting** will be held on February 21 and 22.
- **Placer County LAFCO** notified the district that elected officials were not eligible to serve on the LAFCO board. Because of this, only Trustee Peter Gilbert's nomination for special district representative was submitted.
- **Idaho Mosquito Control Association** has invited me to speak at their spring meeting in May.
- **AMCA Drone Program** will be formally rolled out at the AMCA annual conference in Dallas in May. I have presented a proposal to the AMCA board to make necessary administrative policy changes to deliver regulatory support, training, and regulatory and industry advocacy for use of drones in mosquito control to AMCA members. I have attached slides of a presentation that I gave at the recent MVCAC annual meeting outlining this program.

UPCOMING EVENTS

- AMCA Annual Conference – March 4-8, 2024 – Dallas, TX
- Drone Demo Day – April 22, 2024 – Roseville, CA
- AMCA Washington Conference – May 13-15, 2024 – Washington D.C.

AMCA drone program: Removing barriers and encouraging innovation

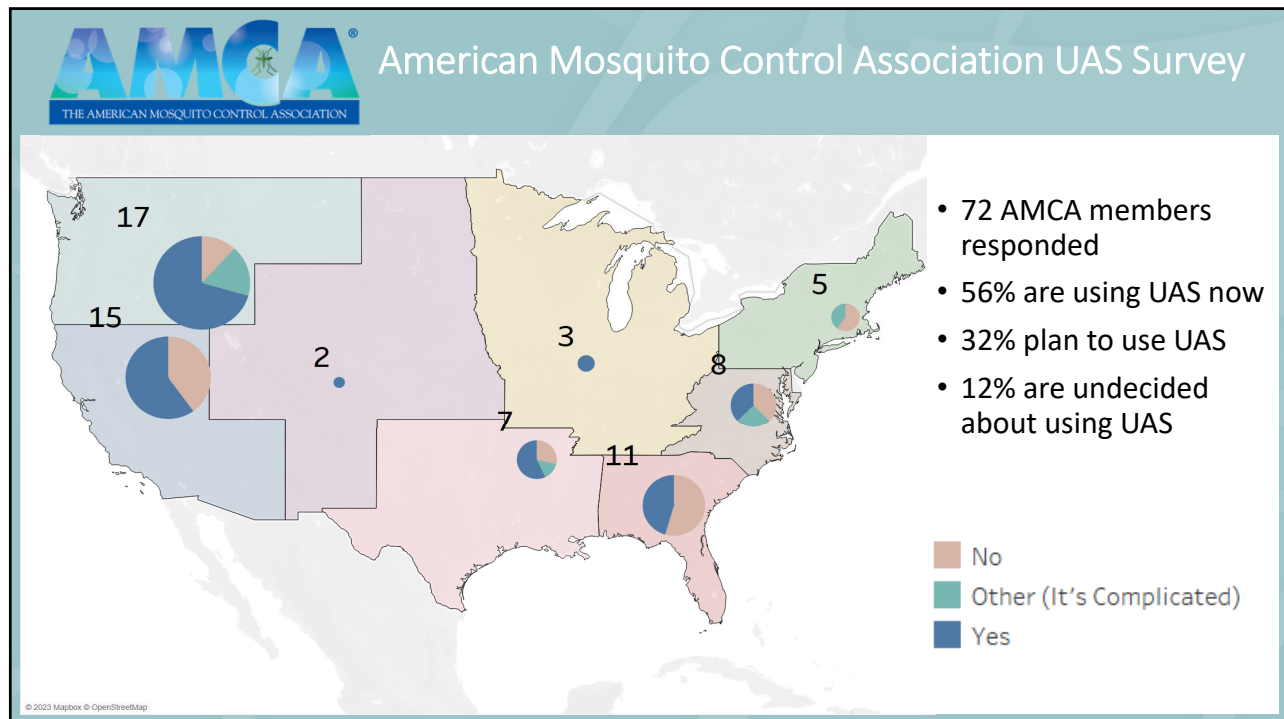
Joel Buettner, General Manager,
AMCA L&R UAS subcommittee Chair



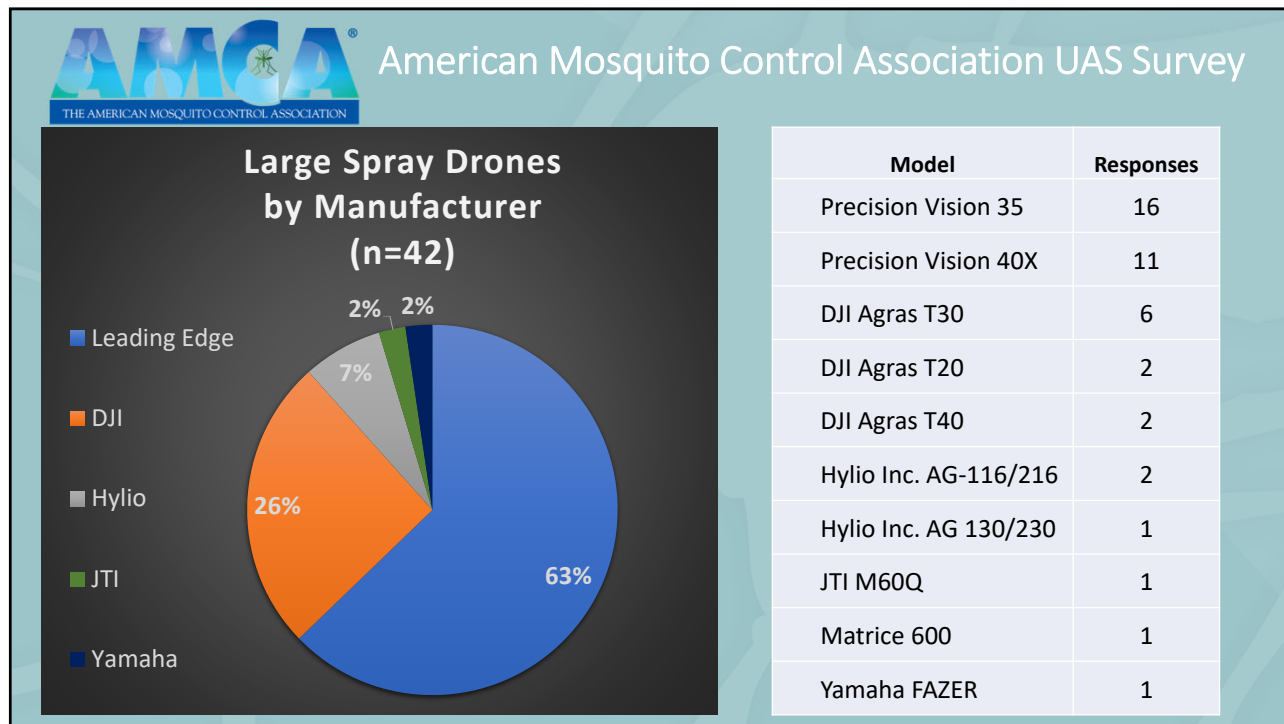
PLACER
MOSQUITO
& VECTOR
CONTROL
DISTRICT



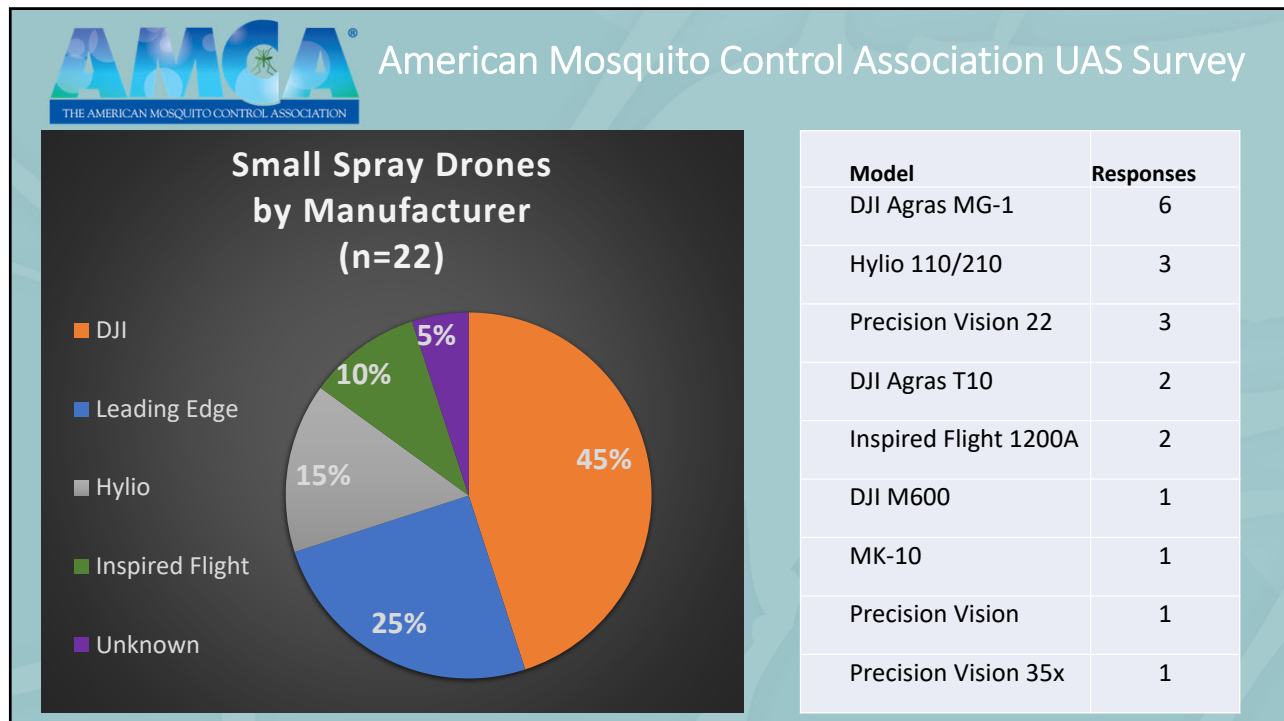
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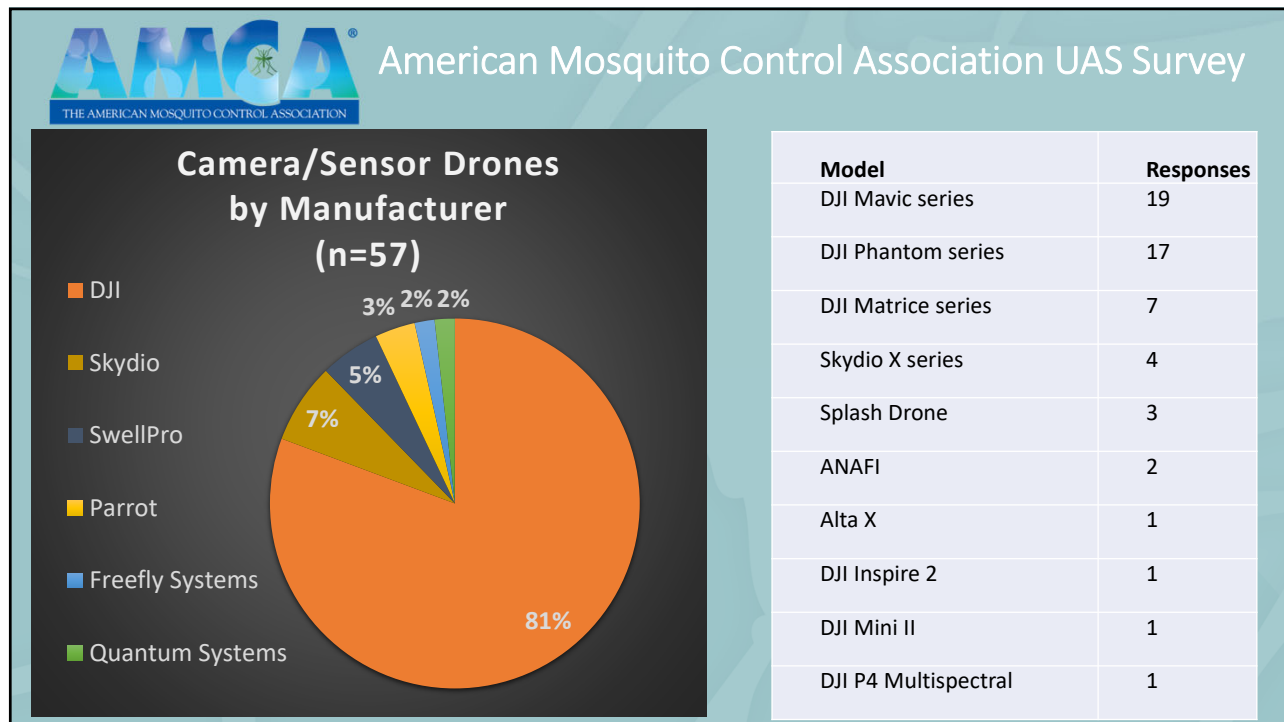
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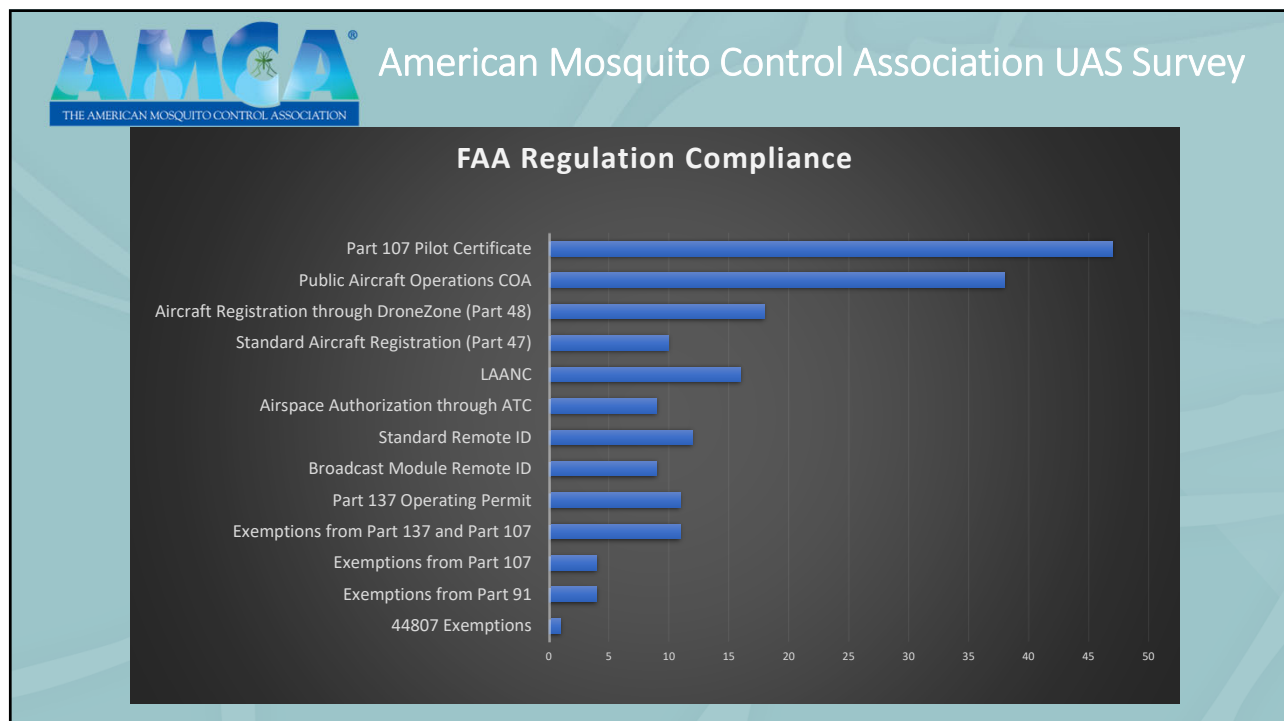
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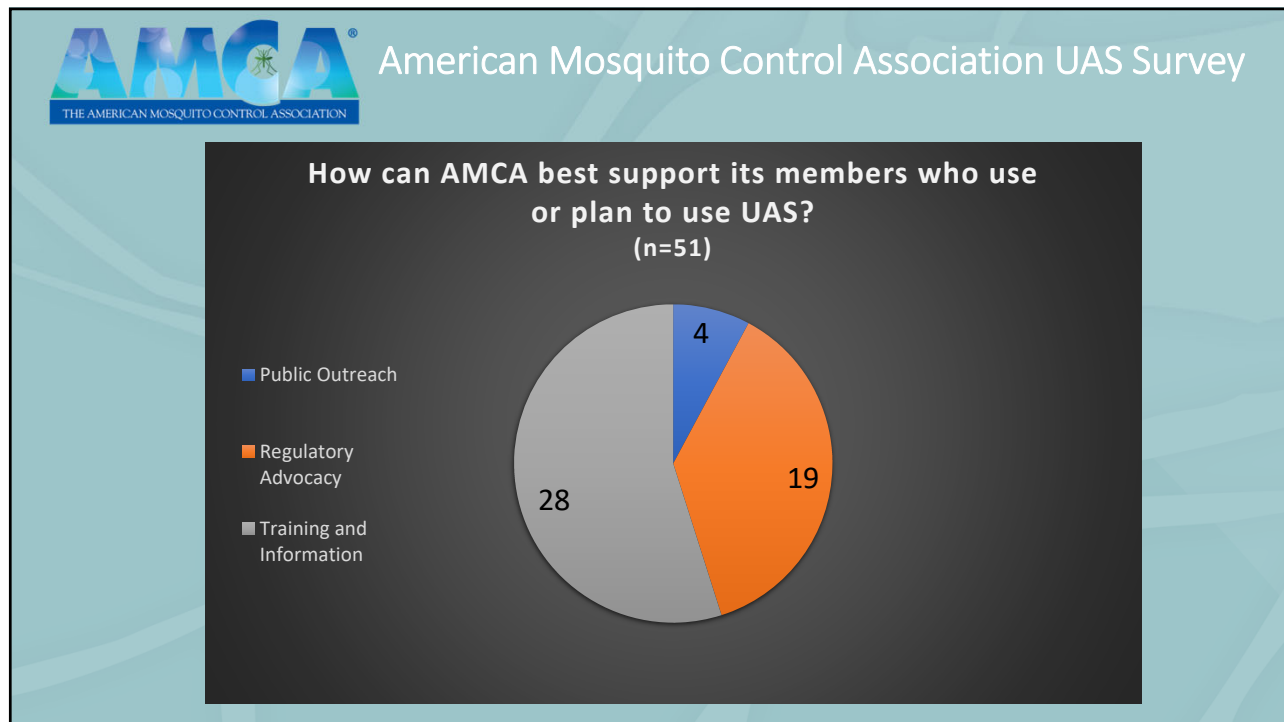
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7



8



Create clear and consistent regulatory compliance processes for AMCA members to use UAS safely and responsibly

Support Standard UAS application operations of AMCA members

- ✓ Small UAS exemption for spraying under Parts 107/137
- ✓ Large UAS exemption for spraying under Parts 91/137
- ✓ Exemption to support UAS spraying under a Public COA

9



Provide Accessible and Relevant Training Resources for AMCA members

- Best Practices for UAS Operations for Mosquito Control Document
- On-line Training Programs
- Continuing education units

10



Encourage advancement of technologies that benefit AMCA members.

- Articulate specific uses of drone technology used by AMCA members
- Establish and maintain relevance of AMCA members in the UAS industry
- Annual Drone conference with a focus on matching operational needs with current and developing technologies.
- Federal Legislative and Regulatory Advocacy

11

Advanced Operations

- **Scaling up Larvicide Applications**
 - Bigger UAS – 55lbs +
 - Multiple UAS with one pilot – “Swarm”
 - Maintain a two-three-person ground crew
- **Beyond Visual Line of Sight (BVLOS)**
 - With or without Visual Observer
 - Main concern is air risk (deconfliction of airspace)
 - < 55lbs easier than 55+lbs – Shielded operations vs “See and Avoid”
 - May require certain system features
- **Over-populated areas, Structures, Roads, Vehicles**
 - Part 91.119 - 500’ spray buffer from structures and roads...
 - What does “over people” mean?
 - Main concern is ground risk mitigation
 - Parachute? Min deployment altitude?
 - Risk model that shows mission is acceptably low risk?
- **Adulticide Applications**
 - Target areas where disease positive mosquitoes pose a risk to public health.
 - Fly over or near populated areas, BVLOS, at night, applying adulticide
 - EPA Label requirements – Lack of drone-specific drift model



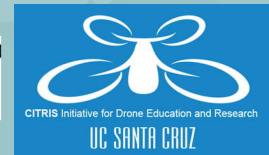
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Workforce Development

How do we staff our UAS operations now and in the future?

- Train existing staff as pilots
- Hire UAS pilots to do missions
- Hire UAS service provider

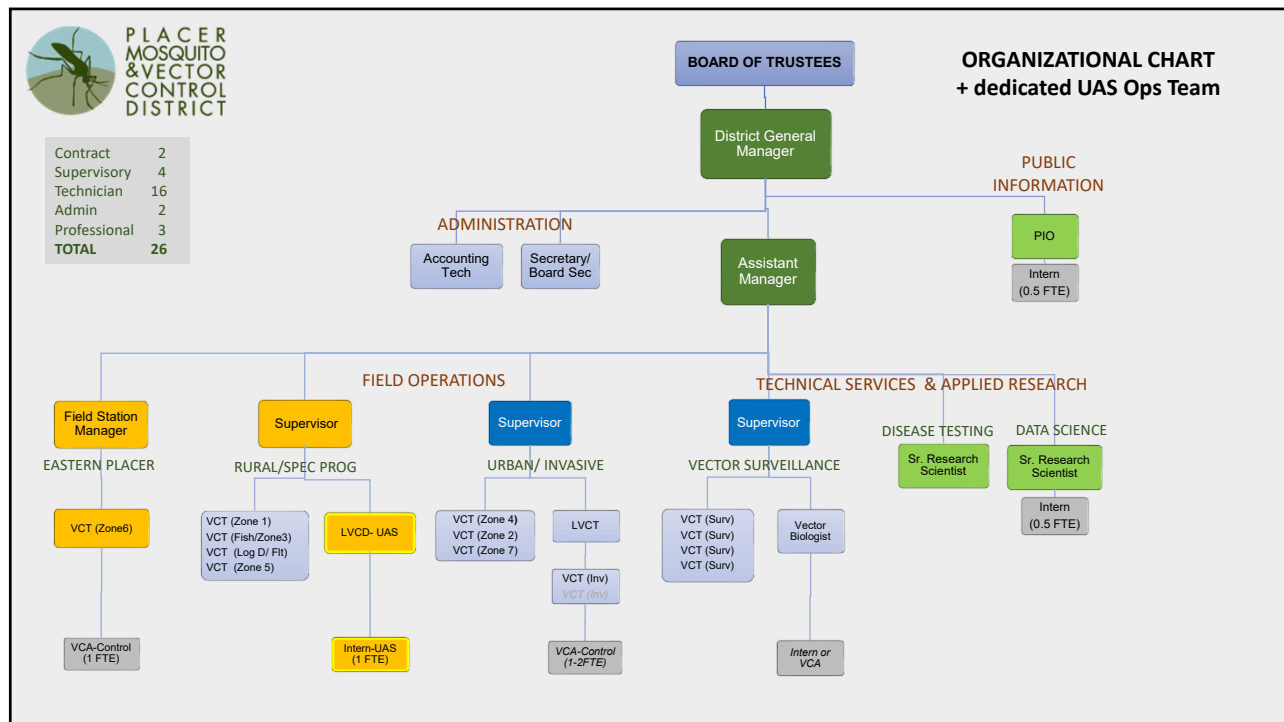
- Create a new UAS workforce through collaboration with schools and workforce development organizations



13



14




15

Measuring Return on Investment

Does using drones save money?

- UAS replacing traditional manned aviation operations?
- UAS replacing traditional ground operations?
- UAS treating areas not previously accessible?

How do we justify investment in equipment, training, staffing?



16

Application over tree canopy



- Smaller Mosquito Sites: 1.5 - 5 acres
- Difficult to maintain visual line of sight



17

Measuring Return on Investment

What challenges do UAS help us meet?

- Access to complex habitats that are not safe or easily accessible to ground or manned aircraft?
- Make smaller scale treatments more efficiently and timely?
- Lower environmental impact?
- SIT or similar mosquito releases?
- Insecticide resistance management?
- Platform for future innovation of mosquito control/surveillance tech



18

Challenges for Mosquito UAS Operations

1. Many UAS spray systems are not specific to mosquito control operations.
2. Pesticide labels are not yet specific to UAS applications.
3. Flight rules for UAS applications can be unclear and difficult to ensure full-compliance.
4. Understanding staffing needs and training for UAS operations is in its infancy.
5. The UAS industry in the U.S. has been developing quickly and will continue to do so. We need to keep our current and future uses of UAS relevant to regulators, industry, and the public.

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