

Sacramento-Yolo  
MOSQUITO & VECTOR  
CONTROL DISTRICT

APRIL 15, 2025

BOARD OF TRUSTEES  
REGULAR MEETING

BOARD PACKET

10:00 A.M.

8631 BOND ROAD  
ELK GROVE, CA 95624

**SACRAMENTO/YOLO MOSQUITO  
& VECTOR CONTROL DISTRICT  
BOARD OF TRUSTEES REGULAR MEETING**

8631 Bond Road  
Elk Grove, CA 95624

**AGENDA  
April 15, 2025  
10:00 AM**

*In compliance with the Americans with Disability 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 office at (916) 685-1022 or (916) 685-5464 (fax). 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 SYMVCD Board less than 72 hours prior to a regular meeting will be available for public inspection and copying at 8631 Bond Road, Elk Grove, Ca 95624. The documents will also be available on the agency's website at [www.fightthebite.net](http://www.fightthebite.net).*

*IMPORTANT NOTICE REGARDING VIRTUAL PUBLIC PARTICIPATION: The District currently provides in person as well as virtual public participation via the Zoom link below until further notice. The public shall have the opportunity to directly address the Board on any item of interest before or during the Board's consideration of that item. Public comment on items within the jurisdiction of the Board is welcomed, subject to reasonable time limitations for each speaker.*

Zoom link and call in numbers are available at the meeting registration link on our website at <https://www.fightthebite.net/about/about-the-board/>

**CALL TO ORDER:**

- Roll Call
- Pledge of Allegiance

**1. Items for Approval by General Consent:**

- a. Minutes of the March 18, 2025 Board of Trustees Meeting
- b. Expenditures for March 2025

**2. Opportunity for Public Comment**

*This item is reserved for members of the public who wish to speak on items not on the agenda*

**3. Reports to the Board**

- a. Manager's Report
- b. Reports from District Departments
  - Lab/Surveillance
  - Ecological Management
  - Biological Control

- Larval and Adult Control
- Public Outreach

4. **Board/Staff General Discussion**
5. **Closed Session- Provide Instruction to Designated Labor Representatives (Gov. Code s. 54957.6 (a)-Labor Negotiations)**
6. **Adjournment**

**MINUTES OF THE MARCH 18, 2025  
MEETING OF THE BOARD OF TRUSTEES OF THE SACRAMENTO-YOLO  
MOSQUITO & VECTOR CONTROL DISTRICT**

**Location:** In Person @ 8631 Bond Rd, Elk Grove, California

**Time:** 10:00 a.m.

**Call to Order:** The meeting was called to order by Board President Charles Duty at 10:02a.m.

**Trustees Present:**

Charles Duty	President	Sacramento County
Janell Darroch	Vice President	West Sacramento
Lyn Hawkins		Elk Grove
Jayna Karpinski-Costa		Citrus Heights
Raymond LaTorre		Sacramento
Robert McGarvey		Rancho Cordova
William Reisen		Yolo County
Gar House		Winters
Chris Barker		Davis
Tania Garcia-Cadena*		Woodland
Craig Burnett		Folsom
ABSENT		
Staci Gardiner	Secretary	Isleton
Marcia Mooney		Galt
*appeared remotely		

**Staff Present:**

Gary Goodman	Manager
Tony Hedley	Assistant Manager
Steve Ramos	Assistant Manager
Sarah Wheeler	Laboratory Director
Marty Scholl	Program Coordinator
Luz Maria Robles	Public Information Officer
Kevin Combo	Ecological Management Supervisor

## **Roll Call**

This meeting was in person. Attendance was taken by Roll Call.

## **Pledge of Allegiance**

*All phones and electronic devices are requested to be silenced during the Pledge of Allegiance and for the duration of the meeting.*

### **1. Board Review and Discussion of the 2023-2024 District Audit**

Justin Williams from MUN CPAS was on hand to discuss and review the District's annual audit. On a motion by Trustee Burnett and seconded by Trustee Darroch the Board voted to approve the 2023-2024 District Audit. The vote was taken and the motion passed 11-0 with 2 members absent.

### **2. Items for Approval by General Consent**

On a motion by Trustee Burnett and seconded by Trustee LaTorre, the Board voted to approve the General Consent Items. The vote was taken and the motion passed 11-0 with 2 members absent

- a. Minutes of the February 18, 2025 Board of Trustees Meeting
- b. Expenditures for February 2025

### **3. Opportunity for Public Comment**

None

### **4. Reports to the Board**

#### **Manager's Report:**

The Manager discussed the AMCA annual meeting held in Puerto Rico earlier this month. He highlighted the MVCAC Legislative Day scheduled for March 25<sup>th</sup> and will forward the association's position papers to the Board upon completion. He reminded the Board of the AMCA Washington Days will be May 12-15. He informed the Board that the District is scheduling presentations to the individual City Councils and County Board of Supervisors to educate the public on the upcoming mosquito season.

#### **Reports from District Departments:**

##### **Laboratory:**

Lab Director Sarah Wheeler updated the board on mosquito abundance trapping, reporting that *Culex tarsalis* and *Culex pipiens* abundance is average for this time of year but expects to see some increases in the next couple of months as temperatures warm. Sarah presented an overview of the Districts tick surveillance program focusing on the testing of *Ixodes pacificus* for *Borrelia burgdorferi* and the outreach efforts performed by the District in areas where ticks are collected. Sarah also presented on a potential program to incorporate the use of Sterile Insect Technique "SIT" and Incompatible Insect Technique "IIT" in control strategies against the growing number of *Aedes aegypti* detections in the District.

**Ecological Control:**

Ecological Management Department (Eco) Supervisor Kevin Combo updated the Board on several key Projects. Kevin highlighted the successful implementation of a Best Management Practices (BMP) project at Delta Meadows in Walnut Grove, where Control Operations staff, in collaboration with the Bureau of Reclamation, cleared emergent vegetation and debris improving accessibility for mosquito control technicians. In addition, Kevin detailed ongoing efforts within the Stormwater program, emphasizing collaborative work with the Cities of Rancho Cordova and Sacramento to mitigate mosquito breeding in stormwater retention areas. Kevin also updated Eco involvement in scoping meetings for the Notice of Preparation (NOP) of an Environmental Impact Report (EIR) related to the Delta Meadows Parks Project.

**Biological Control:**

Written report provided

**Larval and Adult Control:**

Program Coordinator Marty Scholl updated that the Yolo bypass has recently been flooding, potentially delaying rice field preparation. Woodland has been working on stripping their trucks to transfer into new trucks, calibrating what they can as the weather allows, putting fish in larger ponds and backyard sources as service requests come in and treating for anopheles mosquitoes. Sacramento crews have been finishing up some brush cutting out at Delta Meadows, stripping and rebuilding technician trucks as well as treating some seepage along the Cosumnes river and started treating tree holes. The Urban Operation Crews have been calibrating all the low volume backpacks. Catch Basin has been updating their Maps, getting organized for the season and waiting for new vehicles to come. District staff participated in our annual Pesticide Training Day last Wednesday with various stations going over calibration and product usage.

**Public Outreach:**

During the Public Information and Outreach update Luz talked about the media attention received from the increase in mosquito activity due to the warm weather. Luz also mentioned that she is currently putting together the list of outreach events for the season and including a few new events. In addition, March was very busy with presentations to service groups and meetings with various account executives to get proposals for the upcoming advertising campaign. Luz also indicated that repellent requests keep coming and deliveries are being made to all agencies that request it.

5. **Board Review and Consideration to Update the Existing ULV Control Modules**  
On a motion by Trustee Burnett and seconded by Trustee Karpinski-Costa, the Board voted to Update the Existing ULV Control Modules. The vote was taken and the motion passed 11-0 with 2 members absent.
6. **Board Review and Consideration of Supporting the AMCA Research Foundation in the Amount of \$50,000**  
On a motion by Trustee LaTorre and seconded by Trustee Burnett, the Board voted to support the AMCA Research Foundation in the amount of \$50,000. The vote was taken and the motion passed 11-0 with 2 members absent.
7. **Board Review and Consideration of CalPERS Audit Recommendations**  
On a motion by Trustee Burnett and seconded by Trustee McGarvey, the Board voted to Approve the District Salary Schedules from FY 2014-2015 to FY 2024-2025. The vote was taken and the motion passed 11-0 with 2 members absent.

**8. Closed Session – Provide Instruction to Designated Labor Representatives (Government Code Section 54957.6(a)-Labor Negotiations).**

The Board went into closed session at 11:11 am and finished at 12:10. District Counsel reported out of closed session that direction was given to the negotiating team.

**9. Board/Staff Reports and Requests / General Discussion**

The Manager informed the Board of upcoming items that are currently being discussed and evaluated including the District's five year fire inspection, key card and security camera installation, tree trimming and potential roof repair at the Woodland facility. He also informed the Board that the first draft of the budget will be presented in May. A discussion of potential sterile/incompatible insect technique was discussed, and a proposal will be brought to the Board at a future meeting.

**10. ADJOURNMENT**

The meeting adjourned at 12:20 p.m.

I certify that the above minutes substantially reflect the general business and actions taken by the Board of Trustees at the March 18, 2025, meeting.

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Gary Goodman, Manager

Approved as written and/or corrected by the Board of Trustees at the March 18<sup>th</sup>, 2025, meeting.

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Staci Gardiner, Board Secretary

**Sacramento-Yolo Mosquito and Vector Control District**  
**STATEMENT OF OPERATION**  
July 2024 through March 2025

	Jul '24 - Mar 25	Budget	\$ Over Budget
<b>Ordinary Income/Expense</b>			
Income			
4000 · REVENUE	13,635,759.49	20,718,525.00	-7,082,765.51
Total Income	13,635,759.49	20,718,525.00	-7,082,765.51
Gross Profit	13,635,759.49	20,718,525.00	-7,082,765.51
Expense			
5000 · SALARIES/BENEFITS/WC	11,642,741.96	12,519,219.00	-876,477.04
5200 · OPERATIONAL			
5210 · LIABILITY INSURANCE	296,536.18	304,493.00	-7,956.82
5250 · AUDITING/FISCAL	0.00	25,000.00	-25,000.00
5270 · COMMUNICATIONS	63,244.34	100,000.00	-36,755.66
5310 · PUBLIC INFORMATION	272,500.13	700,000.00	-427,499.87
5340 · STRUCTURE & GROUNDS	54,358.67	150,000.00	-95,641.33
5370 · MEMBER/TRAINING	89,413.18	167,500.00	-78,086.82
5390 · DISTRICT OFFICE EXPENSES	14,927.66	25,000.00	-10,072.34
5430 · PROFESSIONAL SERVICES	197,861.42	341,000.00	-143,138.58
5440 · MATERIALS & SUPPLIES	13,461.48	16,000.00	-2,538.52
5450 · RENTS & LEASES	1,111,033.34	712,000.00	399,033.34
5470 · SAFETY PROGRAM	2,175.78	5,000.00	-2,824.22
5480 · UTILITIES	94,876.94	125,000.00	-30,123.06
6120 · AIRCRAFT SERVICES	811,145.71	1,179,000.00	-367,854.29
6140 · ECOLOGICAL MANAGEMENT	3,191.48	23,000.00	-19,808.52
6160 · MICROBIAL	609,476.25	1,200,000.00	-590,523.75
6170 · BIORATIONALS	879,804.24	1,200,000.00	-320,195.76
6180 · INSECTICIDES	627,906.42	900,000.00	-272,093.58
6220 · FISHERIES	18,379.66	35,000.00	-16,620.34
6280 · GEOGRAPHIC INFO SYSTEMS	3,330.00	9,000.00	-5,670.00
6320 · INFORMATION TECHNOLOGY	167,505.84	130,000.00	37,505.84
6350 · CONTROL OPERATIONS	19,434.79	55,000.00	-35,565.21
6370 · SHOP DEPT	87,985.17	159,500.00	-71,514.83
6420 · LAB SERVICES	128,936.85	204,000.00	-75,063.15
6450 · GAS & PETROLEUM	115,105.04	210,000.00	-94,894.96
Total 5200 · OPERATIONAL	5,682,590.57	7,975,493.00	-2,292,902.43
62600 · Ask Accountant	-1,965.00		
66000 · Payroll Expenses	-3,436.60		
Total Expense	17,319,930.93	20,494,712.00	-3,174,781.07
Net Ordinary Income	-3,684,171.44	223,813.00	-3,907,984.44
Other Income/Expense			
Other Income			
67001 · GASB 31 Fair Market Value	5,204.00		
Total Other Income	5,204.00		



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	Jul '24 - Mar 25	Budget	\$ Over Budget
Other Expense			
Sales Tax	0.00		
Shipping	0.00		
7000 · CAPITAL ACCOUNTS			
70010 · CAPITAL OUTLAY	164,735.18	330,000.00	-165,264.82
70070 · RESEARCH FUND	55,000.00	75,000.00	-20,000.00
70080 · BUILDING IMPROVEMENT	0.00	350,000.00	-350,000.00
Total 7000 · CAPITAL ACCOUNTS	219,735.18	755,000.00	-535,264.82
90999 · Suspense Expense	0.00		
Total Other Expense	219,735.18	755,000.00	-535,264.82
Net Other Income	-214,531.18	-755,000.00	540,468.82
Net Income	<u>-3,898,702.62</u>	<u>-531,187.00</u>	<u>-3,367,515.62</u>

2:43 PM

## Sacramento-Yolo Mosquito and Vector Control District

04/02/25

## Check Register

Accrual Basis

March 2025

Num	Date	Name	Credit	Type
Mar 25				
	03/01/2025	Consolidated Communications		Bill Pmt -Check
	03/11/2025	Azelis - Adapco Inc		Bill Pmt -Check
59317	03/11/2025	Airgas USA, LLC	90.19	Bill Pmt -Check
59318	03/11/2025	Barnes Welding	446.96	Bill Pmt -Check
59319	03/11/2025	City of Woodland	153.90	Bill Pmt -Check
59320	03/11/2025	Cleanit Maintenance Systems LLC	2,995.00	Bill Pmt -Check
59321	03/11/2025	Elk Grove Water District	589.81	Bill Pmt -Check
59322	03/11/2025	Enterprise Fleet Management	247,641.16	Bill Pmt -Check
59323	03/11/2025	Ferrellgas	85.82	Bill Pmt -Check
59324	03/11/2025	Hippensteel Group	2,550.00	Bill Pmt -Check
59325	03/11/2025	Hunt & Sons Inc	1,647.93	Bill Pmt -Check
59326	03/11/2025	Kimball Midwest	289.44	Bill Pmt -Check
59327	03/11/2025	Kingsley Bogard, LLP	640.00	Bill Pmt -Check
59328	03/11/2025	Luken Benjamin & Associates, LLC	7,500.00	Bill Pmt -Check
59329	03/11/2025	Mann Urrutia Nelson CPAs & Assoc LLP	6,000.00	Bill Pmt -Check
59330	03/11/2025	PG & E	3,588.48	Bill Pmt -Check
59331	03/11/2025	Pitney Bowes Global Financial Services LL	262.03	Bill Pmt -Check
59332	03/11/2025	Sacramento SPCA	500.00	Bill Pmt -Check
59333	03/11/2025	SMUD	3,688.72	Bill Pmt -Check
59334	03/11/2025	Stericycle, Inc.	224.94	Bill Pmt -Check
59335	03/11/2025	T-Mobile	1,952.52	Bill Pmt -Check
59336	03/11/2025	Valley Fire & Security Alarms, Inc	69.50	Bill Pmt -Check
59337	03/11/2025	Vector Disease Control International	55,275.00	Bill Pmt -Check
59338	03/11/2025	Waste Management C & R, Inc.	232.76	Bill Pmt -Check
59341	03/12/2025	Benefit Coordinators Corp.	9,226.60	Bill Pmt -Check
59342	03/12/2025	Benefit Coordinators Corporation	5,025.89	Bill Pmt -Check
59343	03/12/2025	P & A Administrative Services Inc	121.50	Bill Pmt -Check
59344	03/12/2025	Sutter Health Plan	14,281.10	Bill Pmt -Check
59345	03/12/2025	Western Health Advantage	10,873.25	Bill Pmt -Check
59346	03/12/2025	Western Health Advantage	1,395.62	Bill Pmt -Check
59347	03/12/2025	Western Health Advantage	9,713.96	Bill Pmt -Check
59348	03/12/2025	Western Health Advantage	3,470.44	Bill Pmt -Check
59350	03/12/2025	US Bank	30,447.95	Bill Pmt -Check
59351	03/12/2025	Alhambra & Sierra Springs	76.44	Bill Pmt -Check
59352	03/12/2025	BKS Law Firm, PC	1,715.00	Bill Pmt -Check
59353	03/12/2025	Buckmaster Office Solutions	274.41	Bill Pmt -Check
59354	03/18/2025	Kaiser Foundation Health Plan	60,192.52	Bill Pmt -Check
59355	03/18/2025	AQUEHS Corp.	5,000.00	Bill Pmt -Check
59358	03/19/2025	Airgas USA, LLC	103.80	Bill Pmt -Check
59359	03/19/2025	Barnes Welding	565.44	Bill Pmt -Check
59360	03/19/2025	Culligan Quench	209.96	Bill Pmt -Check
59361	03/19/2025	GreatAmerica Financial Services	376.28	Bill Pmt -Check
59362	03/19/2025	Hunt & Sons Inc	389.52	Bill Pmt -Check
59363	03/19/2025	Kimball Midwest	1,216.88	Bill Pmt -Check
59364	03/19/2025	Maita Chevrolet	25.67	Bill Pmt -Check
59365	03/19/2025	PG & E	255.09	Bill Pmt -Check
59366	03/19/2025	Spark Creative Design	7,734.25	Bill Pmt -Check
59386	03/26/2025	AMCA Research Fund	50,000.00	Bill Pmt -Check
59387	03/26/2025	ArcSource	1,353.40	Bill Pmt -Check
59388	03/26/2025	Barnes Welding	190.64	Bill Pmt -Check
59389	03/26/2025	Buckmaster Office Solutions	20.00	Bill Pmt -Check
59390	03/26/2025	Hunt & Sons Inc	3,249.89	Bill Pmt -Check
59391	03/26/2025	Kimball Midwest	1,704.88	Bill Pmt -Check
59392	03/26/2025	Maita Chevrolet	1,508.06	Bill Pmt -Check
59393	03/26/2025	PG & E	2,106.77	Bill Pmt -Check
59349	03/12/2025	Donaldson, Brad	50.78	Check
59340	03/12/2025	Operating Engineers Local Union No. 3	1,120.00	Check
W00464	03/14/2025	Nationwide Retirement Solutions	500.00	Check
W00465	03/14/2025	Nationwide Retirement Solutions	2,800.00	Check
W00466	03/14/2025	Nationwide Retirement Solutions	4,075.00	Check
W00467	03/14/2025	CalPERS 457 Plan	16,732.70	Check
W00468	03/17/2025	CalPERS Financial Reporting & Accounting	107,112.69	Check
59356	03/18/2025	Goodman, Gary W.	2,384.01	Check
59357	03/19/2025	Rosas, Ruben - Vendor	139.38	Check
59367	03/26/2025	Smith, Helen	153.21	Check
59368	03/26/2025	Davis Cemetery	153.21	Check
59369	03/26/2025	Yolo County General Services	153.21	Check

2:43 PM

## Sacramento-Yolo Mosquito and Vector Control District

04/02/25

## Check Register

Accrual Basis

March 2025

Num	Date	Name	Credit	Type
59370	03/26/2025	Nakahara Farms	153.21	Check
59371	03/26/2025	Schene Enterprises	153.21	Check
59372	03/26/2025	Carmichael Park	53.64	Check
59373	03/26/2025	Natomas Mutual Water Co	53.64	Check
59374	03/26/2025	Donaldson, Brad	53.64	Check
59375	03/26/2025	Folsom Water Treatment	53.64	Check
59376	03/26/2025	Gramercy Court	53.64	Check
59377	03/26/2025	Raymond Coupe	53.64	Check
59378	03/26/2025	Rancho Murieta Association	53.64	Check
59379	03/26/2025	KTXL-TV Fox 40	53.64	Check
59380	03/26/2025	Nature Conservancy Cosumnes River Pre...	53.64	Check
59381	03/26/2025	Randy Johnson	53.64	Check
59382	03/26/2025	Steve Simunich	53.64	Check
59383	03/26/2025	Leona Beaver	53.64	Check
59384	03/26/2025	KCRA TV 3	53.64	Check
59385	03/26/2025	Morrow, Jason	53.64	Check
59394	03/28/2025	CA State Disbursement Unit	350.00	Check
59395	03/28/2025	Operating Engineers Local Union No. 3	1,120.00	Check
W00469	03/31/2025	Nationwide Retirement Solutions	4,150.00	Check
W00470	03/31/2025	Nationwide Retirement Solutions	2,800.00	Check
W00471	03/31/2025	CalPERS 457 Plan	16,123.77	Check

Mar 25

720,224.71

# **Sacramento-Yolo Mosquito and Vector Control District**

## **April 15, 2025 Board Meeting**

### **3. Reports to the Board**

#### **a. Manager's Report**

#### **b. Reports from District Departments**

- **Lab/Surveillance (Sarah Wheeler)**
- **Ecological Management (Kevin Combo)**
- **Biological Control (Ken Harris)**
- **Larval and Adult Control (Marty Scholl)**
- **Public Outreach (Luz Maria Robles)**

#### **a. Manager's Report**

Activity is starting to pick up as the weather gets warmer. We are in the process of filling our seasonal staff to help carry us through the next six months.

We are starting our budget process and will be presenting the first draft of the budget at the May meeting.

The AMCA Washington Conference is currently scheduled for May 12-15.

#### **b. Reports from District Departments**

- **Lab/Surveillance (Sarah Wheeler)**
- **Ecological Management (Kevin Combo)**
- **Biological Control (Ken Harris)**
- **Larval and Adult Control (Marty Scholl)**
- **Public Outreach (Luz Maria Robles)**

# LABORATORY

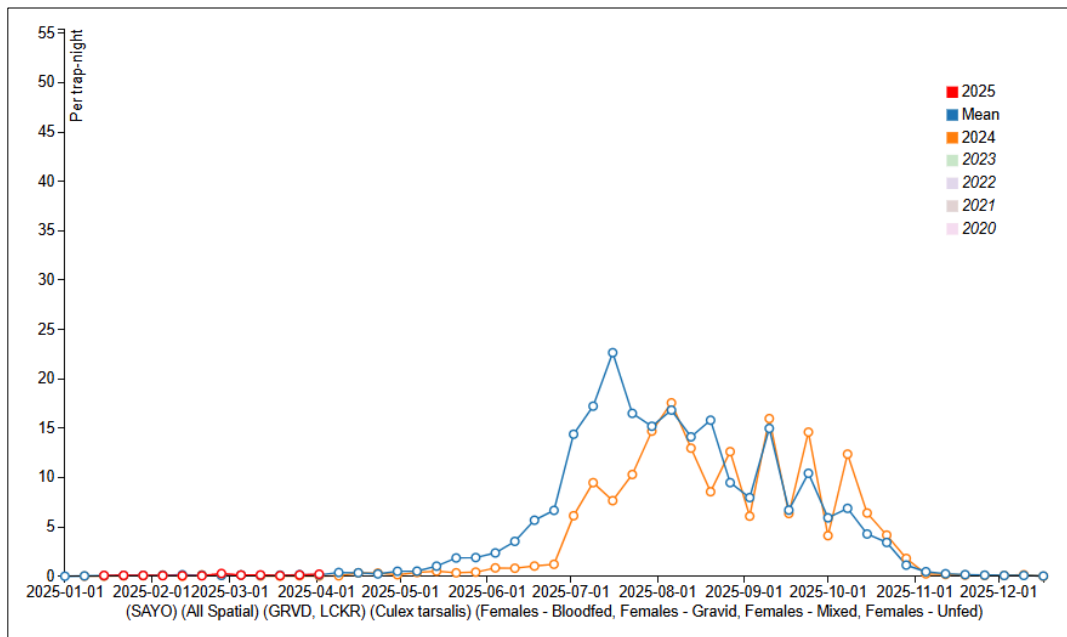
## Monthly Report, April 2025 Board Meeting

### Insectary:

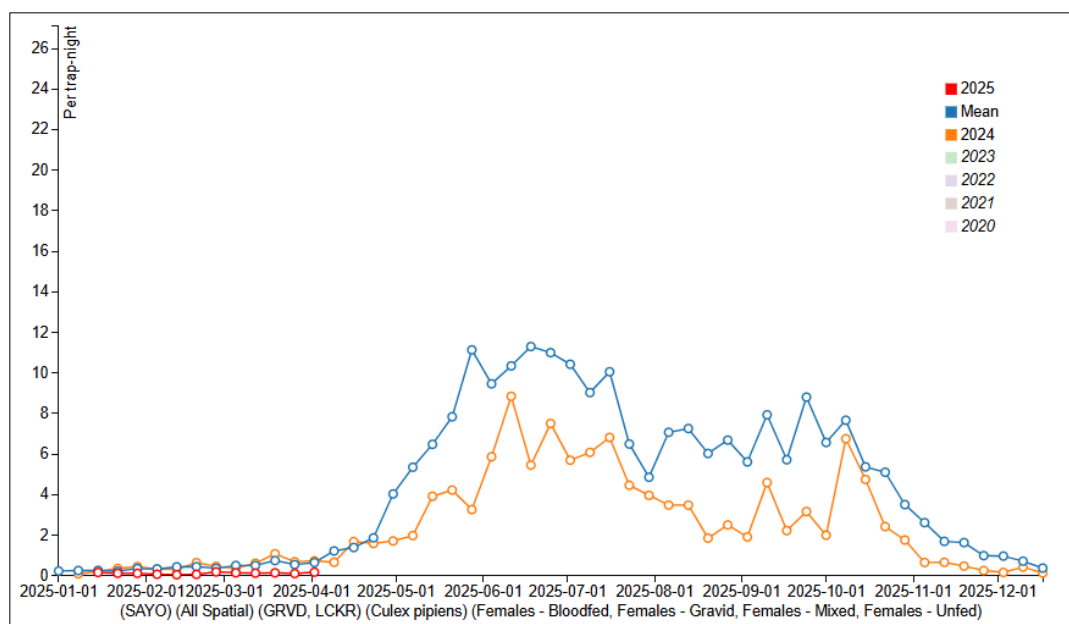
Species	Name	Origin	Resistance Status
<i>Culex tarsalis</i>	KNWR	Kern National Wildlife Refuge (2009)	susceptible
<i>Culex quinquefasciatus</i>	CQ1	Merced, CA (1950s)	susceptible
<i>Culex quinquefasciatus</i>	Sebring	Florida (1988)	susceptible
<i>Culex pipiens</i>	WCP	Woodland, CA (2023)	resistant: pyrethrins/pyrethroids, methoprene, and spinosad
<i>Culex tarsalis</i>	VFCT	Vic Fazio Yolo Wildlife Area (2024)	resistant: pyrethrins/pyrethroids
<i>Aedes sierrensis</i>		Sonoma County (2016)	susceptible

### Surveillance update through 4/7/2025

**Weekly mosquito collections** – The following graphs show overall *Culex tarsalis* and *Culex pipiens* abundance from gravid traps and locker traps placed in permanent locations throughout Sacramento and Yolo Counties. These traps run seven days a week and provide stable abundance data.



*Culex tarsalis* abundance in constant operation locker and gravid traps.



*Culex pipiens* abundance in constant operation locker and gravid traps.

**Encephalitis Vector Surveillance (EVS)** – This program will resume in May, 2025.

**Dead bird surveillance** – The dead bird call center is opening on April 15<sup>th</sup>, at which point we will begin collection and testing of dead birds in Sacramento and Yolo Counties.

**Rice surveillance** – Surveillance will resume in May 2025.

**Human disease response surveillance** – Since the last report, no new human cases were reported to the District.

***Aedes aegypti* trapping effort in Sacramento and Yolo Counties** – Surveillance for *Aedes aegypti* and *Aedes albopictus* will resume in April, 2025.

**The California Arbovirus Surveillance Bulletin updates will resume in May 2025**

**Tick surveillance** – Tick surveillance continues. Each permanent site is flagged once per month. Collections sites were selected based on land use and habitat. Over the last three months *Ixodes pacificus* were collected from each of the 20 surveillance sites. All *Ixodes pacificus* collections were separated by sex, collected in samples up to five ticks, and tested for *Borrelia burgdorferi*, the causative agent of Lyme disease. The following table shows the number of ticks collected November 2024 – March 2025 by city and the minimum infection prevalence for *Borrelia burgdorferi*.

***Ixodes pacificus* minimum infection prevalence (MIP\*) for *Borrelia burgdorferi***

City	County	Nov 2024		Dec 2024		Jan 2025		Feb 2025		Mar 2025	
		Total collected	MIP	Total collected	MIP	Total collected	MIP	Total collected	MIP	Total collected	MIP
Brooks	Yolo	1		8		15		6		10	
Carmichael	Sacramento	1				5		1		1	
Fair Oaks	Sacramento	25		32	6.3	33		7	14.3	8	
Folsom	Sacramento	31		139	4.3	182	1.1	38	7.9	22	9.1
Gold River	Sacramento	48	2.1	11	9.1	33	6.1	3		4	
Orangevale	Sacramento	4		82	6.1	55	1.8	6		1	
Rancho Cordova	Sacramento	25		4		14		2		2	
Rumsey	Yolo			8		24				3	
Winters	Yolo	6				1		1			

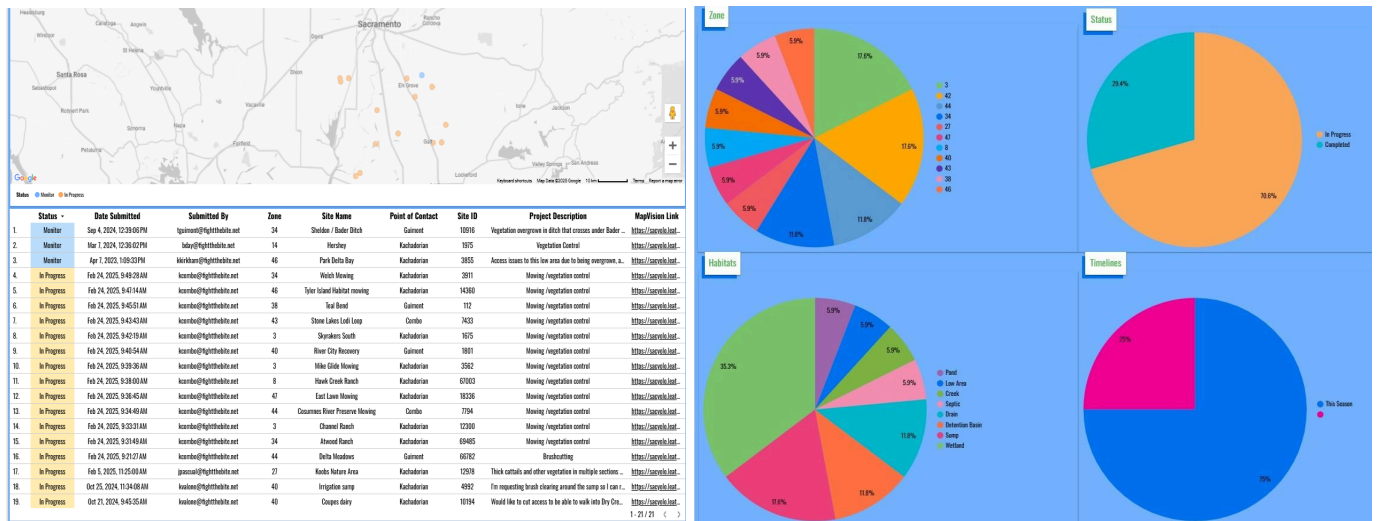
\*Minimum Infection Prevalence (MIP): MIP is equal to the number of positive pools divided by the number of ticks tested multiplied by 100.

# ECOLOGICAL MANAGEMENT DEPARTMENT

## April 2025 Board Update

### Ecological Management Projects

The Ecological Management Department is currently reviewing 21 Best Management Projects (BMPs) submitted by Control Operations technicians and supervisors. Ecological Management staff have completed 8 of those projects respectively. As spring approaches, the focus of these projects leans heavily towards vegetation management and improving technician access to significant mosquito breeding sites. These BMPs are designed to enhance the efficiency of mosquito control efforts by providing field staff with easier safer access to monitor and treat mosquito breeding sites. Removing or maintaining vegetation and debris, which often hinder larvicide applications, will directly contribute to reducing mosquito populations in a given area. Furthermore, these BMPs are expected to improve the overall efficacy of larvicides by allowing a greater proportion of the applied materials to reach the water surface, where mosquito larvae actively feed, ultimately leading to more effective control.



### Laguna Creek (Elk Grove)

Laguna Creek is the main waterway that traverses through Elk Grove. Laguna Creek serves as a drain for both seasonal runoff and urban discharge, ultimately feeding into Beach Lake before being pumped into the Sacramento River. The creek is prone to blockages caused by beaver dams and natural debris, leading to standing water and the creation of significant mosquito breeding sites in close proximity to residential areas. Historically, mosquito control efforts have involved nighttime adulticide applications in response to West Nile Virus detections and general nuisance mosquito control. To improve accessibility for integrated mosquito management, the Ecological Management team has established mowed pathways along sections of the creek, to allow Control Operations safe access for larvicide treatments and the deployment of truck and quad-mounted Ultra Low Volume (ULV) equipment. [Laguna Creek Mowing Video](#)



## Cemeteries



Ecological Management staff have distributed the annual BMP letters to address mosquito breeding in cemeteries to cemetery managers. These letters emphasize the importance of inverting vases after rainfall and utilizing polymer crystals (Watersorb) for vases that cannot be overturned. The department is actively recruiting for a seasonal Eco/Urban position, dedicated to conducting inspections and applying treatments to 32 cemeteries throughout Sacramento and Yolo Counties.

Technicians are scheduled to begin the initial round of inspections and treatments in May. Furthermore, based on the trial that was completed in 2023-2024, staff will implement the use of Sumilarv in conjunction with Watersorb in cemetery vases that get overturned often as the chemical component in Sumilarv adheres to the sides of the vase and continues to be efficacious during wet/dry cycles that comes with sprinkler irrigation.

## Wetland Program

BirdReturns Program- Staff are coordinating with staff from The Nature Conservancy (TNC) and the Audubon Society regarding the Spring/Summer BirdReturns Program. The spring program's goal is to create nesting habitats for waterfowl in the Central Valley. This season, approximately 267 acres have been enrolled and accepted in the program. To enhance mosquito control efforts, Ecological Management staff has advised TNC to expedite the bid awarding process, ideally in the fall. This would allow District staff ample time to develop and implement targeted treatment plans and introduce mosquitofish (*Gambusia affinis*) into the wetlands, ensuring a healthy population is established prior to the beginning of the mosquito breeding season in the spring.

## BIOLOGICAL CONTROL

### Monthly Report for April 2025 Board Meeting

In March, the Fisheries Department started the transfer of mosquitofish from our netted ponds to our open grow-out ponds. We determine the best time to move the fish by looking at various factors, such as water temperatures above 55 degrees and healthy phytoplankton blooms. The transferred fish will continue to mature in the open ponds and begin producing fry sometime in mid-April. This process also helps by thinning the populations in the netted ponds, allowing them more space to grow and reproduce. During this period, with the warmer weather and pool program just underway, the Fisheries department supplied technicians with 25.7 pounds of mosquitofish. Field Technicians made 224 fish plants, of which 33 were for swimming pool sources alone. Fisheries technicians also completed the construction of our outside tank bio-bead filter. This filtration system runs on supplied air only, eliminating the need for outdoor power sources. Lastly, our department continued with aerator maintenance, predatory exclusion fencing, and net repair as needed.

#### Log of Treatment Applied for March

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Treatments</u>
Mosquitofish ( <i>Gambusia affinis</i> )	25.71 lbs	72.6 Acres	224
Guppies ( <i>Poecilia reticulata</i> )	0 lbs	0 Acres	0

#### Log of Treatment Applied for the year 2025

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Treatments</u>
Mosquitofish	36.47 lbs	80 Acres	299
Guppies	0 lbs	0 Acres	0

#### Fisheries Budget

<u>Total</u>	<u>Spent</u>	<u>Remaining</u>	<u>% Spent</u>
35,000.00	16,735.28	18,264.72	48%

Bottom Left : *Picture of technicians checking DO levels and turbidity.*

Bottom Right : *Picture of new bio-bead filtration system.*

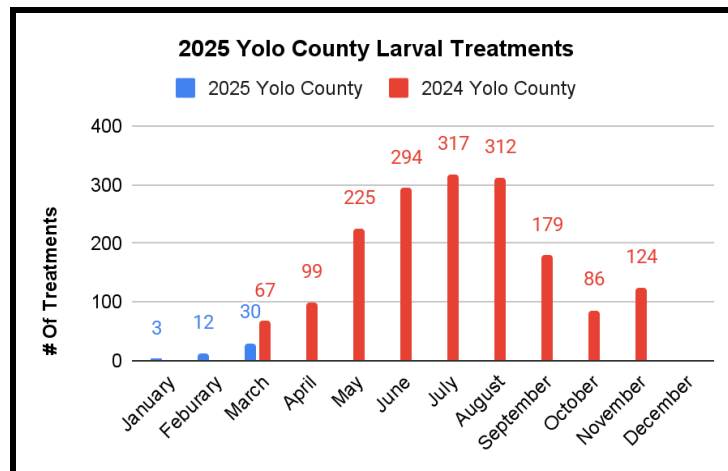
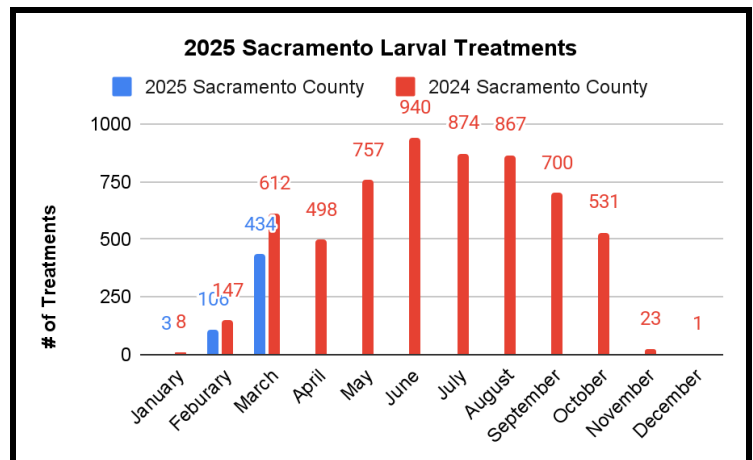
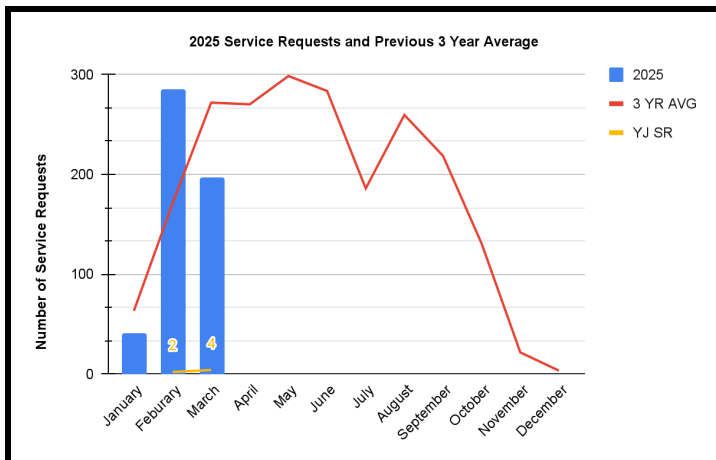


## CONTROL OPERATIONS

### Monthly Report for the April 2025 Board Meeting

#### Culex, West Nile Virus (WNV) and General Mosquito Control

No response was needed for WNV control in the month of March. Early spring sources, treeholes, and other small areas were treated in addition to some residential barrier treatments made in response to the service requests received in both counties.



No aerial applications have been performed yet in 2025.

#### Urban Control Operations: Catch Basin Program

Catch basin Program has treated 8 and Inspected 457 Basins to date. In 2024 a total of 3,569 were treated at this time. As new vehicles become available the department will continue normal treatment and surveillance operations. The Catch Basin Program will continue its efficacy sampling sites to monitor efficacy of each product throughout the District.



## **Invasive Aedes Control Program**

While there have been no Aedes detections yet this year, in response to some early service requests and known previous hot spots, staff have performed some backyard larvicide treatments. The Department will continue to respond to requests while actively monitoring known detection areas.

## **Pool Program**

The District's green pool mailer program sent one hundred and eighty four notices to homeowners in Zone 27 in late March. In response to the mailers, property owners have begun updating the District on the current status of their pool including requesting assistance in treating mosquito larvae if it is not maintained as an operational blue pool. Subsequent zones will continue to be mailed out in sequential order in April and May.

## **Yellow Jacket Control**

Both Sacramento Control crews will be setting out baited yellow jacket traps to catch emerging yellowjacket queens looking to start a new nest beginning later this month. Last year's trapping was very successful in reducing Fall yellowjacket populations.

## **Other Activities**

The District hosted 5 guests from the Country of Benin for one week in Mid March to help them learn how to develop sustainable mosquito control in their tourist areas around the City of Cotonou.



## **PUBLIC INFORMATION AND EDUCATION**

### **Monthly Report for April Board Meeting**

#### **Mosquito Awareness Week**

Mosquito Awareness Week (MAW) and the official launch of our public information and education campaign was April 13-19. That week we participated in a science fair at Zamora Elementary where we set up our educational table and also included microscopes with a variety of slides for children to look thru. As part of the MAW kick off, we also conducted media interviews, and delivered repellent to agencies that serve homeless populations.

In addition, the MVCAC Public Relations Committee developed an English and Spanish video to disseminate along with a daily social media themed messages that covered a range of topics including awareness week launch, mosquito transmitted diseases, mosquito myths, source reduction and general protection tips. The video and messaging was developed in an effort to have a unified voice across the state.

#### **Advertising**

The 2025 advertising campaign launched during Mosquito Awareness Week, featuring pro bono radio commercials in both English and Spanish to mark the start of the season. These spots aired exclusively during that week. The broader media campaign which is set to include a diverse range of advertising platforms is scheduled to begin at the end of May. The plan is currently being finalized and contracts are being negotiated by media consultant Gary Benjamin and District staff.

#### **Events:**

April is an extremely y busy month for events, with our team scheduled to participate in a total of 11 community gatherings. Early in the month, we took part in two new events: *Touch a Truck* in Galt and *Be My Neighbor*, hosted in partnership with KVIE, the local public broadcasting station. Both were well attended by families with young children, who enjoyed exploring the mosquito life cycle display and climbing aboard our featured equipment.

One of the season's most active events is *Picnic Day* at UC Davis, where we engaged and educated hundreds of visitors throughout the day at our booth. Another notable event is the *Doggie Dash*, sponsored by the Sacramento SPCA, which provides a unique opportunity to raise awareness about heartworm prevention in dogs. Other events included:

April 19: West Sacramento Earth Day

April 22: Earth Day at the California Department of Water Resources

April 26: Spring into Fun

April 26: Duck Days in partnership with the Yolo Bypass Foundation

April 26: Winters Youth Day

April 27: ECOS Earth Day

### **School Program**

Our school program continues and the “What Bugs You” assemblies coordinated by Red Shoe Productions are underway at a variety of different schools. In March, six assemblies were held reaching a total of 1995 kids plus teachers and school staff.

The following assemblies are currently scheduled:

#### **April:**

4/4: Florence Markofer Elementary

4/8: Carroll Elementary

4/8: Prairie Elementary

4/25: Jefferson Elementary

### **Government affairs:**

As part of our government affairs and outreach to local elected officials, we have reached out and scheduled presentations with all cities to provide our annual District update.

### **Social Media**

Our social media efforts continue and content is focused on information regarding the upcoming Mosquito Awareness Week and messages previously mentioned. Other messages being disseminated include tick prevention, requesting mosquitofish, promotion of general District services and we will also soon start to promote the dead bird hotline so residents can call in dead birds.

# **Sacramento-Yolo Mosquito and Vector Control District**

## **April 15, 2025 Board Meeting**

### **4. Board Review and Consideration of Contract With MosquitoMate to Implement an Incompatible Insect Technique Program**

#### **Staff Report:**

The District has been exploring various options to enhance our control efforts as it relates to the invasive Yellow Fever mosquito (*Aedes aegypti*). This invasive mosquito is an aggressive daytime biter, identifiable by distinctive black and white stripes on their legs, and are known vectors for diseases such as dengue, Zika and chikungunya.

Our staff has been studying the effectiveness of a new, EPA approved method to control the Yellow Fever mosquito. This method is non-GMO, chemical free and uses the release of incompatible male mosquitoes to reduce populations of this invasive insect. Male mosquitoes do not bite or spread disease. When incompatible males mate with local female mosquitoes, the resulting eggs do not hatch, thereby reducing future mosquito populations without using chemicals or genetic modification.

We have included a quote from MosquitoMate along with some informational sheets on the product and the approved EPA label for review.

The project will run from July to October, and we have identified areas within Natomas and Rosemont as potential study sites for this project. We plan to compare this new method to currently utilized methods involving wide area larviciding and adulticiding. We hope that the comparison of all available tools will help guide the future of the program for both cost effectiveness and efficacy.

#### **Recommendation:**

Authorize the Manager to engage in a contract with MosquitoMate for an incompatible insect technique program not to exceed \$40,000.



## ESTIMATE

210 Malabu Drive  
Suite 110  
Lexington, Kentucky 40502  
(859) 488-1125  
accounting@mosquitomate.com

## ATTENTION:

Gary Goodman  
Manager  
Sacramento-Yolo Mosquito & Vector Control District  
8631 Bond Road  
Elk Grove, CA 95624

April 4, 2025

**Project Title:** 2025 WB1 Pesticide

### Description:

Weekly shipments for 16 weeks: two boxes, one arriving on Tuesdays, one arriving on Fridays, each with 25 x 600C tubes. Twice during the release period (e.g., once in August, once in September), The District will send to MosquitoMate, eggs collected from ovicups placed at the release site. The District will use the provided, pre-paid return labels to ship tubes/boxes back to MosquitoMate for re-use.

Pesticide Cost:	\$ 20,804
Software:	\$ 2,500
Estimated Taxes* and Fees:	\$ 2,776
Shipping:	\$ <u>6,400</u>
Total:	\$ 32,480

Payment structure: three 30% payments in April, June, and August, and then the final 10% at the conclusion.

Please let us know if you have any questions.

*The MosquitoMate Team*

*\* If Organization is Tax Exempt, please provide the IRS 501(c)(3) Determination Letter or other Tax Exemption Certificate.*



# Terms and Conditions

## **Quality Assurance**

We take great care in handling and packaging our product to ensure quality upon shipment. However, we are not responsible for any deterioration or changes to the product due to shipping delays, improper storage after delivery, or other factors beyond our control.

## **All Sales Final**

Due to the nature of our product, all sales are final once an order has been processed. We do not accept returns or cancellations after payment has been received.

## **Order Processing & Shipment**

Orders are shipped via FedEx to the provided address.

## **Customer Responsibility**

It is the customer's responsibility to track their shipment and retrieve their package upon delivery. We are not responsible for stolen packages or issues arising after a package has been marked as "Delivered" by FedEx. It is the customer's responsibility to provide accurate shipping details and ensure that someone is available to receive the shipment upon delivery. If a package is returned due to an incorrect address or failure to pick up, the customer will not be reimbursed for the product cost or shipping fees.

## **Delivery Delays & Lost Shipments**

Once your order is handed over to FedEx, we are not responsible for delays, lost shipments, or damage incurred during transit. If your order is lost or undeliverable due to FedEx error, we will not be able to replace it immediately. Instead, a no-cost replacement of equivalent size may be added to the end of the season's delivery schedule.

## **Weather & Unforeseen Circumstances**

We cannot control delays caused by extreme weather, natural disasters, or other unforeseen events affecting FedEx's delivery schedule. We are not liable

for any failure or delay in fulfilling orders due to circumstances beyond our control, including but not limited to natural disasters, labor strikes, transportation disruptions, or supply chain issues.

## **Damaged Shipments**

If your product arrives damaged, please contact us within 24 hours of delivery with photos of the damage. We will review the issue and determine the best course of action, which may include a replacement at the end of the season.

## **Box/Tube Returns**

After pesticide application, MosquitoMate relies on customers to use the pre-paid return label to ship boxes/tubes back for re-use. See the 'Sustainability & Return Packaging Policy' for additional information.

## **Liability Limitation**

By purchasing from us, you agree that our liability is limited solely to the amount paid for your order.

## **Authorized Use Only**

The product sold under this agreement is intended solely for the purchaser's use in accordance with its intended purpose. Resale, transfer, reproduction, or redistribution to any third party—including competitors—is strictly prohibited.

## **No Reproduction or Redistribution**

The purchaser shall not share, donate, sell, or otherwise distribute this product to any third party for any purpose other than its intended use. Any unauthorized use may result in legal action and liability for damages.

## **Payment Terms & Late Fee Policy**

Payment is due in full by the due date specified on your invoice. Any invoice that remains unpaid after 30 days past the due date will be subject to a late fee of 1.5% per month, applied to the outstanding balance. If payment is not received within 60 days after the due date, we reserve the right to suspend future shipments or services until the balance is paid in full.

## **All Rights Reserved**

All content, materials, and products associated with this agreement are proprietary to MosquitoMate, Inc. Unauthorized use, reproduction, distribution, or modification of any part of this product, its components, or associated materials is strictly prohibited. We reserve the right to modify these terms. By purchasing and using this product, you agree to abide by these Terms and Conditions. - Version February 2025 -

## **Sustainability & Return Packaging Policy**

MosquitoMate, Inc. is committed to reducing waste and minimizing our ecological footprint. To support this mission, we have implemented a reusable packaging system for our product shipments.

### **Customer Responsibility for Returns**

Each shipment includes a prepaid return label for the Styrofoam shipping box and empty tubes. Customers are expected to return the original packaging and empty tubes to MosquitoMate, using the provided return label. Simply follow the provided instructions and drop the package off at any FedEx location.

This return process is built into the cost of the product, so there is no additional charge to the customer for returning the materials.

### **Why This Matters**

By returning the packaging, you help us reduce waste, lower costs, and maintain an environmentally responsible business model. Failure to return packaging may increase material usage and affect our ability to keep this system sustainable.

### **Compliance & Future Orders**

Continued participation in this return system is an expectation of all customers. If packaging is not returned, we reserve the right to adjust future orders, charge a deposit for packaging, or modify terms for repeat non-compliance.

We appreciate your commitment to sustainability and your cooperation in making this system successful!

## *Wolbachia pipientis*, wAlbB Strain

# WB1 Males

The *Wolbachia* bacterium prevents the development of  
Yellow Fever (*Aedes aegypti*) mosquito eggs

**ACTIVE INGREDIENT:** The Active Ingredient is *Wolbachia pipientis*, wAlbB Strain\*, contained in live adult *Aedes aegypti* mosquitoes..... < 0.001% \*\*

\* Cytoplasmic Incompatibility (CI) confirmation: egg hatch from incompatible matings < 0.2%  
\*\* Percent (w/w) of adult male mosquitoes

## KEEP OUT OF REACH OF CHILDREN

**Contains live male mosquitoes**

**[600C] NET UNIT CONTENTS:** *Wolbachia pipientis*, wAlbB strain, contained in 600 ± 60 adult male *Aedes aegypti* mosquitoes.

Contains 

See Shipping Box for	See Shipping Box for	See Shipping Box for
Details	Details	Details

 units. Net weight 

Details	ounces (	Details	-	Details	oz. packets)
---------	----------	---------	---	---------	--------------

Use as soon as possible and within 72 hours of receipt.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For use only by MosquitoMate, Inc.; persons under direct contract with MosquitoMate, Inc., for the purpose of application of this pesticide; or by federal, state, tribal, or local government officials responsible for public health or vector control; or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform mosquito control applications.

### INSECTS SUPPRESSED

*WB1 Males* reduce populations of *Aedes aegypti* (Yellow Fever mosquito). If used in accordance with this label, *WB1 Males* have shown to reduce female yellow fever mosquito populations. Reduced suppression levels will be observed in release areas that are within 100 meters of a non-release area, e.g., along the outside edge of the release area, due to the immigration of females from outside the release area.

### RESTRICTIONS

- For use only in locations with *Ae. aegypti* (Yellow Fever mosquito)
- For outdoor use only.
- To be applied at contiguous areas that are 20 acres or larger in size.
- Use as soon as possible and within 72 hours of receipt.
- Do not apply in wind speeds exceeding 15 mph.
- Do not use at a time when aerial mosquito adulticides are actively being applied in the WB1 Male treatment area.

### WHEN TO USE

Start releases of *WB1 Males* at the beginning of the yellow fever mosquito season, which helps ensure

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EPA Registration Number 89668-8

highest possible efficacy (greatest population suppression). If the initial release of *WB1 Males* is delayed, efficacy may be reduced. In case of delay, it is highly advisable to first reduce the existing yellow fever mosquito population prior to releasing *WB1 Males* by using other pesticides registered for mosquito control. Contact MosquitoMate, Inc. at +1-859-429-0501 to determine the start and end of the yellow fever mosquito season in your area.

### APPLICATION RATE

Application rates are based on area. Apply a minimum of 1,200 males per acre per week across a contiguous area that is 20 acres or larger. For multiple units, divide the number of WB1 males by 1,200 to determine the number of acres to be treated. If multiple units are used, distribute mosquito releases evenly over the area to be treated. Adhere to this regimen until the end of the mosquito season to ensure highest possible efficacy.

- Two [600C units] (1,200 WB1 Males) are adequate WB1 males for one acre of the total treatment area, which is 1/20<sup>th</sup> of the minimum 20 contiguous acre treatment area.

Overflooding ratio in treatment areas should be used to adjust release rates as required to maintain desired overflooding ratio of WB1:Wild type male *Ae. aegypti* of >10:1 and to compensate for estimated higher levels of *Ae. aegypti* in treatment areas as appropriate. Overflooding ratio is determined by comparing the pre- and post-release average male trap counts in treatment areas or by using molecular methods on males sampled from treatment areas (to differentiate WB1 males from Wild Type see Crawford et al 2020<sup>1</sup> for similar methods). Contact MosquitoMate for more information on how to determine overflooding ratio.

### METHOD OF APPLICATION

- If receipt of the shipment is delayed by more than 48 hours or if the males appear damaged, then release any viable mosquitoes and discard dead mosquitoes in the trash. Contact MosquitoMate for a new shipment to replace the delayed or damaged material.
- Keep container closed until ready to release the *WB1 Males*.
- The male mosquitoes should appear vigorous within the container. If males do not appear vigorous or appear damaged, then release any viable mosquitoes and discard dead mosquitoes in trash. Contact MosquitoMate for a new shipment to replace the delayed or damaged material.
- Multiple release points are required to cover the treatment area that is 20 acres or larger in size, and the user must ensure that treatment areas overlap.
- Determine the release point(s) and release routes to ensure even coverage and adhere to this regimen until the end of the yellow fever mosquito season to ensure the highest possible efficacy
- For point releases, when ready to release:
  - Carry the container to the predetermined release site.
  - Point opening of container away from face and open lid.
  - Gently shake or rotate the container to facilitate release of the WB1 Males.
- Vehicle releases are to be performed only at contiguous areas that are 20 acres or larger in size.
  - Vehicle release WB1 Males from roads immediately adjacent to (within 40 yards of) the desired treatment locations.
  - Vehicle release strips proceed from an initial release point along the release route and cover up to 120 yards from the initial release point, i.e. two acres (120 x 80 yds<sup>2</sup>) centered on the driving route. Each 8400C unit can be used to treat multiple release strips, and multiple units may be required to treat an area, depending on the size of the treatment area and desired weekly treatment rate.
  - To compute the number of mosquitoes that will be applied at each release strip, divide the number of mosquitoes in the 8400C container by the number of segments in the container (56, unless otherwise indicated on the container). For example, 8,400 mosquitoes divided by 56 segments = 150 mosquitoes per segment. Use this mosquito number to determine how many segments to apply over the desired treatment area. For example, for a one-acre release strip,

<sup>1</sup> Crawford, J.E., Clarke, D.W., Criswell, V. et al. (2020). Efficient production of male *Wolbachia*-infected *Aedes aegypti* mosquitoes enables large-scale suppression of wild populations. *Nat Biotechnol* 38, 482–492. doi: <https://doi.org/10.1038/s41587-020-0471-x>

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EPA Registration Number 89668-8

- eight segments at 150 mosquitoes per segment are required to achieve 1,200 males per acre.
- Vehicle releases may be initiated manually by the user or automatically by the release equipment, as the vehicle reaches release points along the release routes.
- Conduct releases when Vehicle is moving at <25 mph.
- Ensure that all planned release locations have been covered by the vehicle releases, adding manual releases from the vehicle or on foot as necessary to complete the planned treatment.
- Contact MosquitoMate for more information on vehicle releases and vehicle release planning, and to enable automated releases.

#### USE IN INTEGRATED VECTOR MANAGEMENT PROGRAMS

*WB1 Males* are meant to be used as part of an integrated vector management program. This includes the use of source reduction, larvicides, and adulticides. Any integration of mosquito adulticiding must be timed to minimize potential negative effects on the *WB1 Males* that are released into the treatment area. Consult the pesticide label of the adulticide to determine the most appropriate timing of release of *WB1 Males* between pesticide treatments.

#### STORAGE AND DISPOSAL

**Do not contaminate water, food or feed by storage or disposal.**

##### STORAGE

Keep container closed until ready to use. Keep in original container. Store *WB1 Males* out of direct sunlight and at moderate temperatures 45°F - 95°F (7°C - 35°C).

##### PESTICIDE DISPOSAL

Release all living *WB1 Males* present in container as soon as possible and within 72 hours of receipt. Discard dead individuals in trash. If *WB1 Males* are not released within 72 hours of receipt, if the males exceed the minimum or maximum allowed temperatures [45°F - 95°F (7°C - 35°C)], or if the males are damaged, kill males by freezing or allow them to die by keeping inside closed container for a minimum of 7 days, then discard dead mosquitoes in trash.

##### CONTAINER HANDLING

**Refillable container:** Do not reuse this container for any other purpose. Return to point of sale by calling +1-859-429-0501 for instructions on returning the empty container or offer for recycling if available or dispose of in trash, or in a sanitary landfill, or by incineration. If not returning to the manufacturer, cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean, remove the cap from both ends of the tube, and then use a dry brush to remove any mosquitoes stuck to the inside of the container. Do not burn, unless allowed by state and local ordinances.

#### WARRANTY STATEMENT CONDITIONS

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of MosquitoMate, Inc. All such risks shall be assumed by the user or buyer.

#### DISCLAIMER OF WARRANTIES

To the extent consistent with applicable law, MosquitoMate, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of MosquitoMate, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, MosquitoMate, Inc. disclaims any liability whatsoever for special, incidental, or consequential damages resulting from the use or handling of this product.

#### LIMITATIONS OF LIABILITY

To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries, or damages resulting from the use or handling of this product, whether in contract,

MosquitoMate, Inc. - WB1 MALES  
EPA Registration Number 89668-8

warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at MosquitoMate, Inc.'s election, the replacement of product.

**Manufactured by:**  
**MosquitoMate, Inc.**  
**210 Malabu Drive, Suite 110**  
**Lexington, KY 40502**  
**Phone: (859) 429-0501**

**EPA Registration No. 89668-8**  
**EPA Est. No.: 89668-KY-2**  
**Batch Code:** [See Shipping Box for Details](#)



MosquitoMate, Inc. - WB1 MALES  
EPA Registration Number 89668-8

## Fact Sheet

A new EPA approved,<sup>1</sup> non-GMO and chemical-free approach for the control of Yellow Fever mosquito infestations in California.

### How Does it Work?

Vector Control will release sterile male Yellow Fever mosquitoes (*Aedes aegypti*) in the area of [LOCATION]. Male mosquitoes do not bite and will mate with female Yellow Fever mosquitoes. The resulting eggs laid by these mated female mosquitoes will not hatch. The males will die soon after mating. This program is being integrated into our overall Yellow Fever mosquito control program.

### Why is this Method Needed?

Yellow Fever mosquitoes are being detected in an increasing number of neighborhoods. Despite intensive traditional mosquito control efforts, they have continued to spread. As they expand their presence, it increases the risk for local disease outbreaks of dengue and other pathogens.

### Are These Mosquitoes Safe for People and the Environment?

Male mosquitoes do not bite. The released males pose no risk to people, other animals, or the environment. These males carry the Wolbachia bacterium that naturally occurs in our local mosquitoes. When mating with the invasive females, the presence of two different Wolbachia causes 'cytoplasmic incompatibility' and the eggs will not hatch. This reduces the Yellow Fever mosquito population. The released males in this program are not genetically-modified.

### How Effective is the Method?

The sterile males are "self-delivering," which means they will seek out the female Yellow Fever mosquitoes. This is beneficial because the males are more effective at locating females compared to wind-carried chemical droplets. This control approach has been shown to be highly effective. The CA Department of Pesticide Regulation (DPR) and U.S. Environmental Protection Agency (EPA) have both approved this method.

### Local Virus Outbreak Risk:

The threat of exotic disease outbreaks in California has increased due to the presence of invasive Aedes mosquitoes. Infected travelers entering an area where Aedes are present can start a local outbreak.

Dengue ("Breakbone Fever"):

- About half the world's population is at risk, including residents in California where Aedes mosquitoes are present.
- 647 travel-related cases and 18 local-transmission in California in 2024<sup>2</sup>
- There is no vaccine or treatment available.

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<sup>1</sup> <https://www.regulations.gov/document/EPA-HQ-OPP-2020-0028-0010>

<sup>2</sup> Source: <https://www.cdc.gov/dengue/data-research/facts-stats/historic-data.html>

## For More Information

Organization Name

Contact Information

Website

Logo

## **Sacramento-Yolo Mosquito and Vector Control District**

### **April 15, 2025 Board Meeting**

5. **Closed Session- Provide Instruction to Designated Labor  
Representatives (Gov. Code s. 54957.6 (a)-Labor Negotiations)**