



AUGUST 19, 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  
August 19, 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 July 15, 2025 Board of Trustees Meeting**
- b. Expenditures for July 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. Closed Session- Provide Instruction to Designated Labor Representatives (Gov. Code s. 54957.6 (a)-Labor Negotiations)
5. Board/Staff Reports and Requests
6. Adjournment

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

## **August 19, 2025 Board Meeting**

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

- a. Minutes of the July 15, 2025 Board of Trustees Meeting;
- b. Expenditures for July 2025

### **Recommendation:**

**Approve the Items by General Consent**



**MINUTES OF THE JULY 15, 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 10:00 a.m.

**Trustees Present:**

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

**Staff Present:**

Gary Goodman	Manager
Gavin Ralphs	Legal Counsel
Lisa Pelletier	Administrative Manager
Tony Hedley	Assistant Manager
Steve Ramos	Assistant Manager
Sarah Wheeler	Laboratory Director
Marty Scholl	Program Coordinator
Ken Harris	Biological Control Supervisor
Luz Robles	Public Information Officer

**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. Items for Approval by General Consent**

- a. Minutes of the June 17, 2025 Board of Trustees Meeting
- b. Expenditures for June 2025

On a motion by Trustee Burnett and seconded by Trustee Darroch, the Board voted to approve the General Consent Items. The vote was taken and the motion passed 12 - 0 with 1 member absent.

**2. Opportunity for Public Comment**

None

**3. Reports to the Board**

Manager's Report: The Manager informed the Board that there were ten WNV positive pools and one positive bird yesterday, an indication that things are picking up as expected. However, WNV detection is still relatively slow for mid- July, which is consistent across California this year (except Tulare county). The District's SIT program is in its second week, and the 2<sup>nd</sup> round of mosquitoes arrived for release today. The District will release 600 male mosquitos per acre twice per week, Tuesdays and Fridays at 25 release points in our target area until mid-October. Overall, the response from the public has been positive. The Manager also met with the Sacramento County Health Department along with a contingent from Pakistan. The District offered to host the contingent for a training session in the future.

**Reports from District Departments:**

**Laboratory:**

Mosquito abundance for *culex tarsalis* and *culex pipiens* are in line with the 5-year mean. West Nile virus (WNV) activity remains low, 169 dead birds were tested for WNV and there were three positives from Sacramento County. Overall, 1,667 samples were collected and tested, thus far there was one positive pool from Sacramento County and two positive pools from Yolo County. *Aedes aegypti* is active and expanding its range, and we are monitoring this species throughout Sacramento and Yolo Counties. Releases of Wolbachia-carrying sterile *aedes aegypti* males have begun in a Natomas neighborhood.

**Biological Control:**

Biological Control Ken Harris provided an update on the Fisheries Department's activities through June. Fisheries staff continue to prepare for the upcoming rice season. The first fields should become available for stocking in early July, which is later than last season but still within the expected timeframe. To support the program, the Department continued to seine outside sources. So far this season, 84 pounds of mosquitofish have been collected from these locations. As part of the Sacramento Perch project in collaboration with the California Department of Fish and Wildlife (CDFW), a new aerator system was installed in the cement pond. Progress on the department's new tank and filtration system also continued throughout the month, along with facility and yard maintenance.

**Larval and Adult Control:**

Marty provided an overview of recent field activities in both counties. In Yolo County, crews continued to check rice fields, along with a few remaining wetland irrigations. Sacramento crews have been conducting pool inspections on known pools in Zone 29 at residences who have not responded to the pool mailers. South Sacramento crews monitored irrigated and managed pastures, shorebird irrigations in Cosumnes River Preserve, Stone Lakes, and Tyler Island wetlands, along with checking rice fields. Yellowjacket traps have switched to meat proteins to catch workers, though activity remained low.. The Aedes crew carried out numerous WALS treatments in Natomas, Citrus Heights, Fair Oaks, and Land Park, while responding to SIT service requests which resulted in numerous barrier treatments and backyard larval control treatments. Marty reported that installations and calibrations of the new VeeMac ULV fogger software and hardware is ongoing.

**Public Outreach:**

During the Public Information and Outreach update Luz talked about all of the media coverage and outreach efforts specific to the SIT program in South Natomas and the successful launch of it earlier in the month. A video was shown to the board members recapping all the activities that took place. She also talked about the education booth at the upcoming events in July which include Pear Fair and a Movie Night. Luz indicated that the Fight the Bite advertising campaign is in full swing and all elements have launched. The last presentation will be given during the West Sacramento city council and lastly, repellent requests have started to come in for National Night Out.

**4. Board Review and Consideration to Approve Job Descriptions for Two New Positions – Training Coordinator and Information Technology Specialist**

The Manager informed the Board that the District's IT needs are growing and becoming more complicated, hence the need for a Technology Specialist. The Training Coordinator position will be an intermediary between District Supervisors and Field Technicians, and will visit the field, ensure Technicians are properly trained and prepared, and will follow up on performance/treatment to ensure effectiveness. Trustee Burnett pointed out that the IT job description referred to this position as a "Technician", while the position is titled as "Specialist". The District will update the job description.

On a motion by Trustee Burnett and seconded by Trustee Mooney, the Board voted to approve the addition of both positions with the appropriate changes in the job description to include Specialist instead of Technician. The vote was taken and the motion passed 12 - 0 with 1 member absent.

**5. Board Review and Consideration to Approve District Budget for 2025-2026**

The Manager introduced the most recent Budget revisions: a 2.2% COLA, salaries/wages for the two new positions, expenditure numbers updated slightly due to increased larvicide and research donation. The District anticipates a surplus of approx. \$100k even after a significant UAL payment.

On a motion by Trustee Burnett and seconded by Trustee LaTorre, the Board voted to approve the proposed FY 25-26 District Budget. The vote was taken and the motion passed 12 - 0 with 1 member absent.

**6. Board Authorization to Pay CalPers Unfunded Liability in the amount of \$3,385,922**

The Manager explained that the District has a long history of making additional payments toward the Unfunded Liability. The prior investment returns plus the District's payment in FY 24-25 should have significantly reduced the liability. The District will receive the new valuation report in August and the Manager will keep the Board informed.

On a motion by Trustee Mooney and seconded by Trustee Burnett, the Board voted to approve the Unfunded Liability payment in the amount of \$3,385,922. The vote was taken and the motion passed 12 - 0 with 1 member absent.

**7. Board Authorization to Pay 2025/2026 Annual Premium Invoice of \$596,886 for Coverage through the Vector Control Joint Powers Agency**

The Manager explained that this is our insurance policy for general liability and workers' compensation. The rate increased about 8% from last year.

On a motion by Trustee Burnett and seconded by Trustee Barker, the Board voted to approve the payment of \$596,886 to Vector Control Joint Powers Agency. The vote was taken and the motion passed 12-0 with 1 member 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 11:03 a.m. and finished at 11:24 a.m. District Counsel reported out of closed session that “there were no reportable actions taken in closed session.”

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

The General Manager proposed postponing the October meeting which conflicts with a mosquito presentation. The Board discussed moving the meeting to October 14<sup>th</sup>, 2025 and October 28<sup>th</sup>, 2025, and settled on October 28, 2025.

The Manager confirmed “business as usual continues at the District” and promised to keep the Board informed of any updates.

**10. ADJOURNMENT**

The meeting adjourned at 11:26 a.m.

I certify that the above minutes substantially reflect the general business and actions taken by the Board of Trustees at the July 15, 2025, meeting.

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Lisa Pelletier, Administrative Manager

Approved as written and/or corrected by the Board of Trustees at the August 19, 2025, meeting.

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Staci Gardiner, Board Secretary

# Sacramento-Yolo Mosquito and Vector Control District

## STATEMENT OF OPERATION

July 2025

	Jul 25	Budget	\$ Over Budget
Ordinary Income/Expense			
Income	14,502.43	22,592,564.00	-22,578,061.57
Gross Profit	14,502.43	22,592,564.00	-22,578,061.57
Expense			
5000 · SALARIES/BENEFITS/WC	4,352,532.35	13,576,494.00	-9,223,961.65
5200 · OPERATIONAL			
5210 · LIABILITY INSURANCE	360,492.00	360,492.00	0.00
5250 · AUDITING/FISCAL	0.00	20,000.00	-20,000.00
5270 · COMMUNICATIONS	7,315.11	100,000.00	-92,684.89
5310 · PUBLIC INFORMATION	59.35	678,000.00	-677,940.65
5340 · STRUCTURE & GROUNDS	9,071.14	183,000.00	-173,928.86
5370 · MEMBER/TRAINING	495.01	170,000.00	-169,504.99
5390 · DISTRICT OFFICE EXPENSES	665.04	25,000.00	-24,334.96
5430 · PROFESSIONAL SERVICES	15,407.06	350,000.00	-334,592.94
5440 · MATERIALS & SUPPLIES	1,064.09	16,000.00	-14,935.91
5450 · RENTS & LEASES	47,284.18	91,000.00	-43,715.82
5470 · SAFETY PROGRAM	190.00	5,000.00	-4,810.00
5480 · UTILITIES	10,857.16	140,000.00	-129,142.84
6120 · AIRCRAFT SERVICES	143,975.08	1,179,000.00	-1,035,024.92
6140 · ECOLOGICAL MANAGEMENT	0.00	23,000.00	-23,000.00
6160 · MICROBIAL	1,025,957.82	1,800,000.00	-774,042.18
6170 · BIORATIONALS	83,424.60	1,200,000.00	-1,116,575.40
6180 · INSECTICIDES	272,504.45	950,000.00	-677,495.55
6220 · FISHERIES	528.09	35,000.00	-34,471.91
6280 · GEOGRAPHIC INFO SYSTEMS	0.00	9,000.00	-9,000.00
6320 · INFORMATION TECHNOLOGY	35,207.22	180,000.00	-144,792.78
6350 · CONTROL OPERATIONS	302.28	55,000.00	-54,697.72
6370 · SHOP DEPT	13,991.76	134,250.00	-120,258.24
6420 · LAB SERVICES	31,600.08	244,500.00	-212,899.92
6450 · GAS & PETROLEUM	20,828.90	200,000.00	-179,171.10
Total 5200 · OPERATIONAL	2,081,220.42	8,148,242.00	-6,067,021.58
Total Expense	6,433,752.77	21,724,736.00	-15,290,983.23
Net Ordinary Income	-6,419,250.34	867,828.00	-7,287,078.34
Other Income/Expense			
Other Income			
67005 · Gain(Loss) on Sale of Assets	31,947.00		
Total Other Income	31,947.00		

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	Jul 25	Budget	\$ Over Budget
Other Expense			
7000 · CAPITAL ACCOUNTS			
70010 · CAPITAL OUTLAY	0.00	258,500.00	-258,500.00
70070 · RESEARCH FUND	0.00	100,000.00	-100,000.00
70080 · BUILDING IMPROVEMENT	0.00	395,000.00	-395,000.00
Total 7000 · CAPITAL ACCOUNTS	0.00	753,500.00	-753,500.00
Total Other Expense	0.00	753,500.00	-753,500.00
Net Other Income	31,947.00	-753,500.00	785,447.00
Net Income	-6,387,303.34	114,328.00	-6,501,631.34

10:42 AM

08/12/25

Accrual Basis

# Sacramento-Yolo Mosquito and Vector Control District

## Check Register

### July 2025

Num	Date	Name	Credit	Type
<b>Jul 25</b>				
59682	07/01/2025	Audacy, Inc.	2,900.00	Bill Pmt -Check
59696	07/01/2025	Benefit Coordinators Corporation	4,995.47	Bill Pmt -Check
59683	07/01/2025	Clarke Mosquito Control Products Inc	489.38	Bill Pmt -Check
59684	07/01/2025	Hippensteel Group	2,587.50	Bill Pmt -Check
59685	07/01/2025	Hunt & Sons Inc	4,926.43	Bill Pmt -Check
59686	07/01/2025	Nadel	17,846.92	Bill Pmt -Check
59687	07/01/2025	NEOGOV - Governmentjobs.com, Inc.	33,220.00	Bill Pmt -Check
59688	07/01/2025	PG & E	179.39	Bill Pmt -Check
59689	07/01/2025	Republic Services #922	360.72	Bill Pmt -Check
59690	07/01/2025	SMUD	5,407.13	Bill Pmt -Check
59691	07/01/2025	Spark Creative Design	6,844.75	Bill Pmt -Check
59692	07/01/2025	T-Mobile	3,381.96	Bill Pmt -Check
59693	07/01/2025	Target Specialty Products	22,968.00	Bill Pmt -Check
59694	07/01/2025	Tender Corporation	24,570.98	Bill Pmt -Check
59695	07/01/2025	Verizon Wireless	447.08	Bill Pmt -Check
59697	07/02/2025	O'Reilly Automotive, Inc.	866.36	Bill Pmt -Check
59698	07/03/2025	American Mosquito Control Association	14,000.00	Bill Pmt -Check
59699	07/03/2025	AutoZone, Inc.	94.33	Bill Pmt -Check
59700	07/03/2025	Azelis - Adapco Inc	97,777.68	Bill Pmt -Check
59701	07/03/2025	Barnes Welding	1,845.51	Bill Pmt -Check
59702	07/03/2025	CA Department of Tax and Fee Administrati	521.00	Bill Pmt -Check
59703	07/03/2025	City of Woodland	381.70	Bill Pmt -Check
59704	07/03/2025	Cleanit Maintenance Systems LLC	2,995.00	Bill Pmt -Check
59705	07/03/2025	Elk Grove Water District	589.81	Bill Pmt -Check
59706	07/03/2025	Hunt & Sons Inc	4,716.89	Bill Pmt -Check
59707	07/03/2025	Luken Benjamin & Associates, LLC	3,750.00	Bill Pmt -Check
59708	07/03/2025	Safe Side Security	414.00	Bill Pmt -Check
59709	07/03/2025	Stericycle, Inc.	133.06	Bill Pmt -Check
59710	07/07/2025	Cintas Corporation	6,976.17	Bill Pmt -Check
59711	07/07/2025	AutoZone, Inc.	1,419.62	Bill Pmt -Check
59712	07/07/2025	Azelis - Adapco Inc	38,796.24	Bill Pmt -Check
59713	07/07/2025	Enterprise Fleet Management	46,610.44	Bill Pmt -Check
59714	07/07/2025	GreatAmerica Financial Services	376.28	Bill Pmt -Check
59715	07/07/2025	Kimball Midwest	784.23	Bill Pmt -Check
59716	07/07/2025	Sacramento Control Systems, Inc.	504.00	Bill Pmt -Check
59717	07/07/2025	Stericycle, Inc.	98.11	Bill Pmt -Check
59718	07/07/2025	Valley Fire & Security Alarms, Inc	69.50	Bill Pmt -Check
59719	07/01/2025	Sutter Health Plan	14,676.72	Bill Pmt -Check
59720	07/01/2025	Benefit Coordinators Corp.	9,442.70	Bill Pmt -Check
59721	07/01/2025	P & A Administrative Services Inc	121.50	Bill Pmt -Check
59722	07/09/2025	Airgas USA, LLC	96.54	Bill Pmt -Check
59723	07/09/2025	Azelis - Adapco Inc	2,885.76	Bill Pmt -Check
59724	07/09/2025	Barnes Welding	2,319.26	Bill Pmt -Check
59725	07/09/2025	Buckmaster Office Solutions	211.38	Bill Pmt -Check
59726	07/09/2025	Grow West	212.33	Bill Pmt -Check
59727	07/09/2025	N & S Tractor	1,712.82	Bill Pmt -Check
59728	07/09/2025	Safety Kleen Systems, Inc.	415.00	Bill Pmt -Check
59729	07/09/2025	T-Mobile	7,483.26	Bill Pmt -Check
59730	07/09/2025	Waste Management C & R, Inc.	232.76	Bill Pmt -Check
59731	07/10/2025	Azelis - Adapco Inc	211,921.79	Bill Pmt -Check
59732	07/10/2025	Barnes Welding	2,394.57	Bill Pmt -Check
59733	07/10/2025	Cintas Fire Protection	902.56	Bill Pmt -Check
59734	07/10/2025	Clarke Mosquito Control Products Inc	48,189.60	Bill Pmt -Check
59735	07/10/2025	Hunt & Sons Inc	2,511.18	Bill Pmt -Check
59736	07/10/2025	Primo Brands	51.46	Bill Pmt -Check
59737	07/10/2025	Safe Side Security	236.95	Bill Pmt -Check
59738	07/10/2025	U.S. Bank	80,266.56	Bill Pmt -Check
59739	07/10/2025	Western Health Advantage	9,713.96	Bill Pmt -Check
59740	07/10/2025	Western Health Advantage	2,433.03	Bill Pmt -Check
59741	07/16/2025	Airgas USA, LLC	109.50	Bill Pmt -Check
59742	07/16/2025	Azelis - Adapco Inc	71,764.08	Bill Pmt -Check
59743	07/16/2025	City of Woodland (WFD)	258.00	Bill Pmt -Check
59744	07/16/2025	Elk Grove Lock and Safe Company	54.37	Bill Pmt -Check
59745	07/16/2025	Mitchell 1	3,132.00	Bill Pmt -Check
59746	07/16/2025	Overhead Door Company of Sacramento, Inc.	5,121.00	Bill Pmt -Check
59747	07/16/2025	PG & E	16.81	Bill Pmt -Check
59748	07/16/2025	Safety Kleen Systems, Inc.	268.78	Bill Pmt -Check
59749	07/16/2025	UC Davis Regents	1,149.12	Bill Pmt -Check
59750	07/16/2025	Vector Control Joint Powers Agency	596,886.00	Bill Pmt -Check
59751	07/16/2025	Vector Disease Control International	55,275.00	Bill Pmt -Check
59752	07/21/2025	Kaiser Foundation Health Plan	64,186.48	Bill Pmt -Check
59753	07/21/2025	Barnes Welding	1,480.63	Bill Pmt -Check
59754	07/21/2025	BKS Law Firm, PC	900.00	Bill Pmt -Check
59755	07/21/2025	Hunt & Sons Inc	7,349.36	Bill Pmt -Check
59756	07/21/2025	Kimball Midwest	234.06	Bill Pmt -Check
59757	07/21/2025	Maita Chevrolet	8.38	Bill Pmt -Check
59758	07/21/2025	NW Mosquito and Vector Control Assoc.	250.00	Bill Pmt -Check

10:42 AM

## Sacramento-Yolo Mosquito and Vector Control District

08/12/25

## Check Register

Accrual Basis

July 2025

Num	Date	Name	Credit	Type
59759	07/21/2025	Sacramento County EMD	2,579.00	Bill Pmt -Check
59760	07/25/2025	ArcSource	5,218.60	Bill Pmt -Check
59761	07/25/2025	Azelis - Adapco Inc	132,250.71	Bill Pmt -Check
59762	07/25/2025	Barnes Welding	2,156.75	Bill Pmt -Check
59763	07/25/2025	Buckmaster Office Solutions	86.08	Bill Pmt -Check
59764	07/25/2025	Factory Motor Parts Co	132.77	Bill Pmt -Check
59765	07/25/2025	PG & E	1,863.91	Bill Pmt -Check
59766	07/25/2025	Veseris - ES Opco USA LLC	35,235.00	Bill Pmt -Check
59767	07/28/2025	U.S. Bank	65,636.07	Bill Pmt -Check
59770	07/29/2025	Airgas USA, LLC	221.49	Bill Pmt -Check
59771	07/29/2025	Azelis - Adapco Inc	518,448.03	Bill Pmt -Check
59772	07/29/2025	Hunt & Sons Inc	4,040.18	Bill Pmt -Check
59773	07/29/2025	Jim Hesselstine's Tire Service, Inc.	73.24	Bill Pmt -Check
59774	07/29/2025	MVCAC-	44.00	Bill Pmt -Check
59775	07/29/2025	N & S Tractor	1,273.02	Bill Pmt -Check
59776	07/29/2025	Stericycle, Inc.	98.11	Bill Pmt -Check
59777	07/30/2025	Benefit Coordinators Corporation	5,009.43	Bill Pmt -Check
W00485	07/21/2025	CalPERS Financial Reporting & Accounting	549,207.00	Check
W00486	07/21/2025	CalPERS Financial Reporting & Accounting	2,836,715.00	Check
59768	07/31/2025	Operating Engineers Local Union No. 3	1,120.00	Check
59769	07/31/2025	CA State Disbursement Unit	350.00	Check
W00487	07/31/2025	Nationwide Retirement Solutions	3,300.00	Check
W00488	07/31/2025	Nationwide Retirement Solutions	2,525.00	Check
W00489	07/31/2025	CalPERS 457 Plan	15,974.60	Check
1829	07/31/2025	McGarvey, Robert - V	92.35	Check
Jul 25			<b>5,745,371.24</b>	



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

## **August 19, 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**

The West Nile virus season is significantly slower than last year, and crews are responding with additional surveillance and control efforts when locations of activity are found.

The SIT releases are going well as we are about one third of the way through the sixteen week project.

We are preparing for the annual audit with our consultants and internal staff.

#### **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

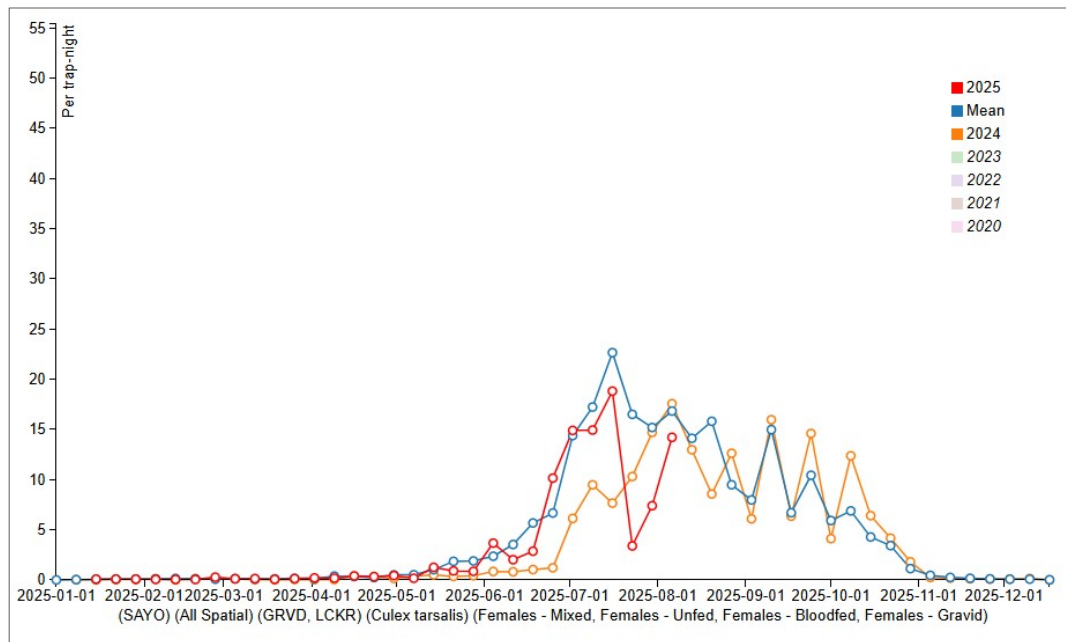
## Monthly Report, August 2025 Board Meeting

### Insectary:

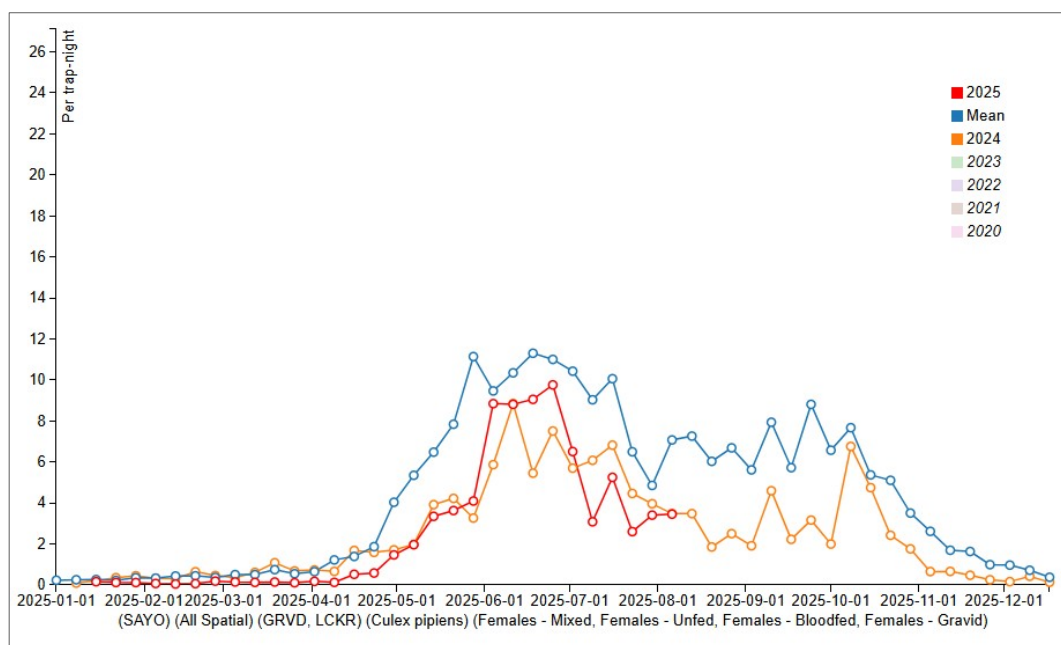
Species	Name	Origin	Resistance Status
<i>Culex tarsalis</i>	KNWR	Kern National Wildlife Refuge (2009)	susceptible
<i>Culex quinquefasciatus</i>	CQ1	Merced, CA (1950s)	susceptible
<i>Culex quinquefasciatus</i>	Sebring	Florida (1988)	susceptible
<i>Culex pipiens</i>	WCP	Woodland, CA (2023)	resistant: pyrethrins/pyrethroids, 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 8/11/2025

**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 year-round abundance data.

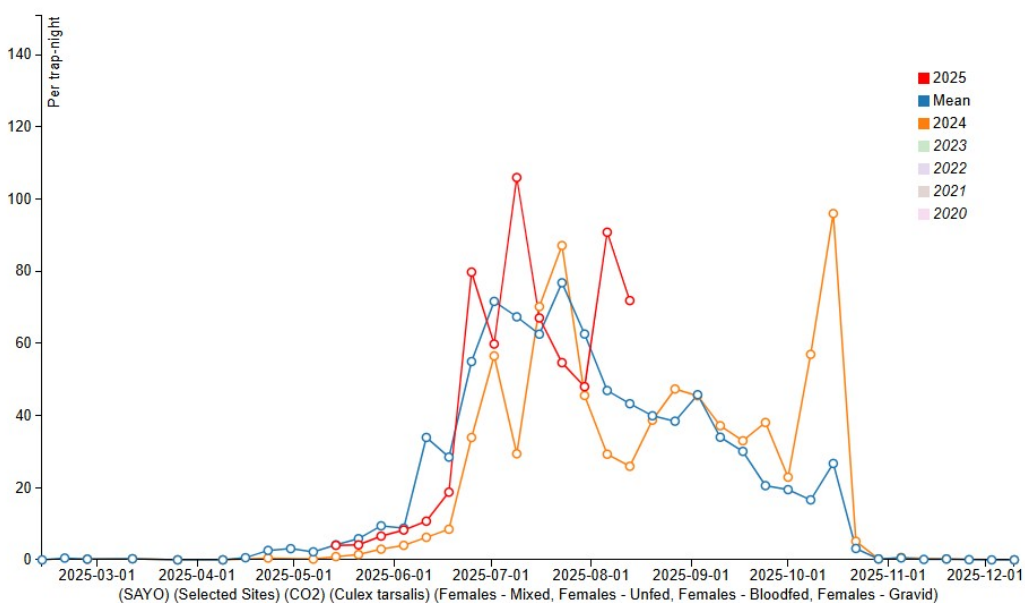


*Culex tarsalis* abundance in constant operation locker and gravid traps.

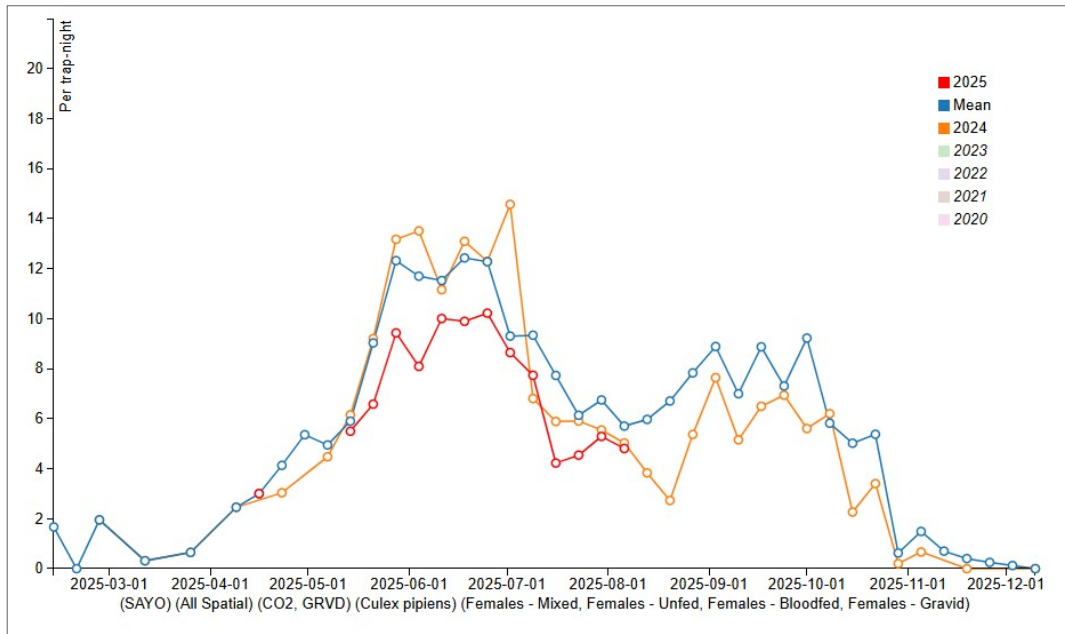


*Culex pipiens* abundance in constant operation locker and gravid traps.

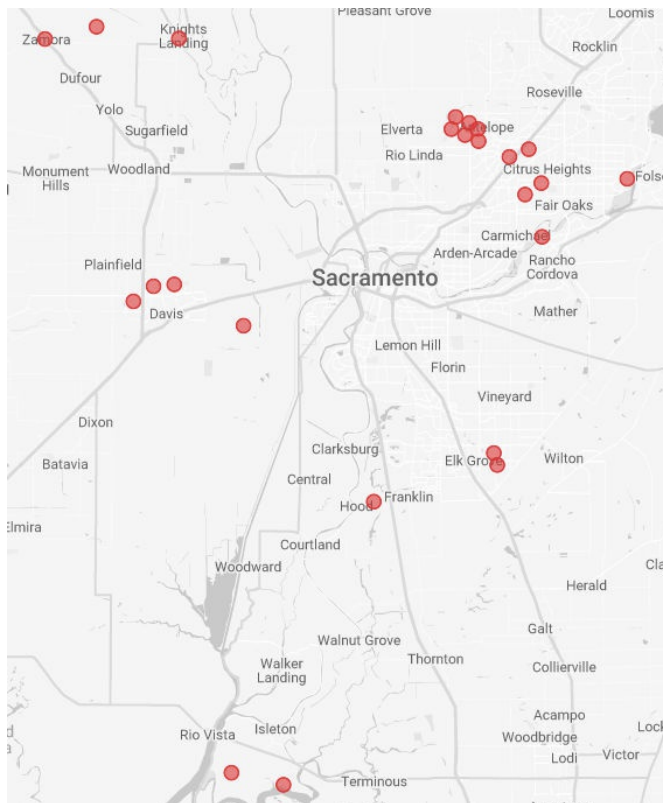
**Encephalitis Vector Surveillance (EVS)** – This program runs from May through October. *Culex pipiens* and *Culex tarsalis* are collected throughout Sacramento and Yolo Counties and tested for West Nile (WNV), Saint Louis Encephalitis (SLEV), and Western Equine Encephalitis (WEEV) viruses. Starting in August we began testing *Culex stigmatosoma* collected in gravid traps as well. Thus far 3,417 samples were tested from Sacramento (2,311) and Yolo (1,106) Counties. There were 25 positive samples from Sacramento and 7 from Yolo County, two of the positives from Sacramento country were from *Culex stigmatosoma*. All samples were negative SLEV and WEEV.



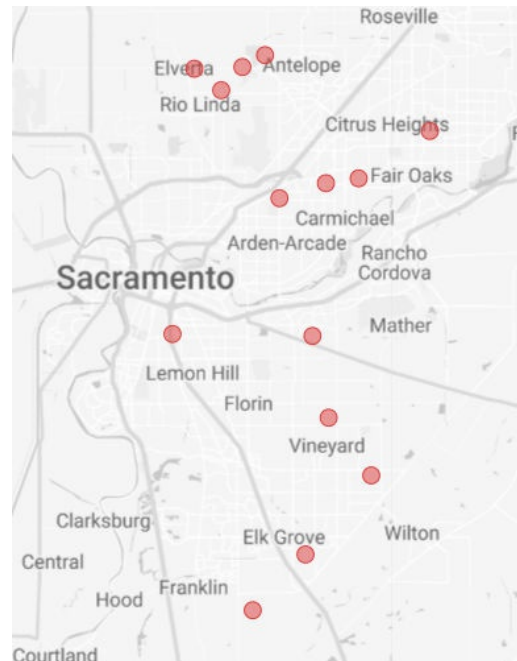
*Culex tarsalis* collected in single-night CO2 and gravid traps



*Culex pipiens* collected in single-night CO2 and gravid traps



Cumulative WNV-positive mosquito samples 2025



Cumulative WNV-positive dead birds 2025

**Rice surveillance** – Counter traps are now deployed in rice field agroecosystems (Winters, Natomas, Conaway, Yolo Bypass, and District 108) and are used to monitor mosquito abundance.

**Human disease response surveillance** – Two travel associated human cases are under investigation in Sacramento County for Dengue and Malaria.

***Aedes aegypti* trapping effort in Sacramento and Yolo Counties** – Surveillance for *Aedes aegypti* and *Aedes albopictus* has begun. *Aedes aegypti* activity was confirmed in Sacramento and Yolo Counties. The cumulative 2025 trapping effort is shown below.

City	County	Trap nights	2025 total males and females collected	
			<i>Aedes aegypti</i>	<i>Aedes albopictus</i>
Antelope	Sacramento	3		
Carmichael	Sacramento	36	16	
Citrus Heights	Sacramento	106	117	
Elk Grove	Sacramento	80	3	
Fair Oaks	Sacramento	15	44	
Folsom	Sacramento	103	15	
Galt	Sacramento	36	18	
Gold River	Sacramento	6	1	
Mather	Sacramento	2		
North Highlands	Sacramento	10		
Orangevale	Sacramento	48	304	
Rancho Cordova	Sacramento	65	34	
Rancho Murieta	Sacramento	56	1	
Sacramento	Sacramento	933	1242	
Sloughhouse	Sacramento	21		
Davis	Yolo	95	13	
West Sacramento	Yolo	33	112	
Winters	Yolo	140	281	
Woodland	Yolo	70	100	

**Sterile Insect Technique (SIT) Update Natomas** –Releases of *Wolbachia*-infected male *Aedes aegypti* began on July 8, 2025, as part of a targeted control program. These males cause sterile matings with wild-type females, reducing future mosquito populations.

To date, 150,000 males have been released in the Natomas study area at a rate of 1,200 males per acre per week. No complaints of swarming males have been received; however, in two cases, residents approached technicians during releases to request mosquito control services for their yards.

Extensive trapping is ongoing throughout the study area to assess program effectiveness, and evaluation of SIT releases is in progress.

**Tick surveillance** – Tick surveillance has concluded for the season and will resume in November 2025.

**The California Arbovirus Surveillance Bulletin Week 32, August 8, 2025**

<b>2024 &amp; 2025 YTD West Nile Virus Comparisons</b>		
	<b>2024</b>	<b>2025</b>
Total No. Dead Bird Reports	4,119	5,601
No. Positive Counties	28	27
No. Human Cases	9	9
No. Positive Dead Birds / No. Tested	218 / 1,138	76 / 1,123
No. Positive Mosquito Pools / No. Tested	838 / 27,888	1,162 / 28,517
No. Seroconversions / No. Tested	46 / 2,660	7 / 2,111

<b>YTD WNV Activity by Element and County, 2025</b>					
<b>County</b>	<b>Humans</b>	<b>Horses</b>	<b>Dead Birds</b>	<b>Mosquito Pools</b>	<b>Sentinel Chickens</b>
Alameda			5		
Butte				6	2
Colusa				1	
Contra Costa			1	1	
Fresno			6	42	
Imperial				1	
Inyo				1	
Kern	1		1	63	
Kings	2			27	
Los Angeles			1	25	
Madera				107	
Merced				11	
Orange			2	52	
Placer			2	80	
Riverside				1	
Sacramento			14	24	
San Bernardino				1	
San Diego			16	84	
San Joaquin			3	47	
Santa Clara			18		
Shasta				1	
Solano				2	
Stanislaus	1		1	67	
Sutter				3	1
Tulare	5		6	504	4
Yolo				7	
Yuba				4	
<b>Totals</b>	<b>9</b>		<b>76</b>	<b>1,162</b>	<b>7</b>

## ECOLOGICAL MANAGEMENT DEPARTMENT

### August 2025 Board Update

#### Ecological Management Projects-

##### Loretz Ranch (Elk Grove)

The Loretz Ranch, is a 775-acre property situated on the outskirts of Elk Grove, serves primarily as irrigated pastures for livestock grazing. However, the ranch's irrigation ditches, designed to convey water, had become severely obstructed by dense emergent vegetation. This blockage led to widespread pasture flooding, unfortunately creating ideal breeding grounds for *Aedes melanimon* and *Culex tarsalis* mosquitoes. To mitigate the mosquito breeding, the Ecological Management staff deployed heavy equipment to excavate the affected drainage ditches to grade, ensuring proper water flow back to a recovery sump. This project is projected to eliminate or substantially reduce approximately 7 acres of prime mosquito breeding habitat, and furthermore, it will enable control technicians to employ more cost-effective liquid larvicides for ongoing mosquito control.



##### Cosumnes River Preserve (Sacramento County)

The Ecological Management Department recently collaborated with the Cosumnes River Preserve (CRP) staff on Best Management Projects (BMPs) within the preserve. This partnership involved CRP providing essential equipment and materials for herbiciding invasive emergent vegetation, specifically water primrose (*Ludwigia hexapetala*) and water hyacinth (*Eichhornia crassipes*), found in the wetland complex's water conveyance ditches and water control boxes. These treatments will enable more efficient flood-ups and drawdowns of wetland cells, will remove harborage for mosquito larvae from predators, and will reduce the reliance on costly, extended-release larvicides for mosquito control.



## **Agricultural/Dairy Program-**

District Control Operations technicians continue to monitor and treat significant *Culex pipiens* mosquito breeding at dairies, particularly within Sacramento County. These mosquito sources encompass a range of areas including wastewater lagoons, washing areas, drain ditches, sumps, watering troughs, and irrigated pastures/crops. To mitigate this issue, technicians diligently monitor and treat these sites with residual larvicide applications. Ecological Management staff continue to collaborate closely with dairy farmers and land managers to implement effective Best Management Practices (BMPs) aimed at reducing mosquito populations. Key among these BMPs are maintaining vegetation-free edges for sumps and ditches, and controlling emergent (floating) vegetation, which prevents the harborage of mosquito larvae. Furthermore, staff strongly advocates for the utilization of a solid separation system, as separating solid from liquid materials significantly enhances the efficacy of granular larvicide materials.



*Image: Unmaintained Dairy Drain Ditch*



*Image: Solid Separator*

## **Fall Flooding-**

All annual Fall Flooding letters have now been distributed to landowners and land managers. Ecological Management staff are actively preparing to coordinate with these stakeholders, engaging in discussions regarding their specific fall flooding schedules. A key objective of these collaborations is to recommend and implement Best Management Practices (BMPs) that are specifically designed to mitigate mosquito breeding and reduce the need for residual treatments.



**BIOLOGICAL CONTROL**  
**Monthly Report for August 2025 Board Meeting**

In July, the fisheries department began our rice stocking program. Our first request came in on July 7th, which was a few weeks later than last season. Our immediate area of focus was the rice in North Natomas due to their proximity to more densely populated areas. Additional rice stocked during the month included Tyler Island, Cosumnes River Preserve, Winters, and the South Yolo Bypass.

During this period, the department seines all ponds on a rotation. Seined fish are held overnight in our inside tanks to reduce stress, and monitored for disease and health prior to being distributed to rice fields the following day.

For the month, the department stocked a total of 183 rice fields with 2,617 pounds of mosquitofish, covering 11,059 acres. This represents an increase of nearly 400 pounds over the same period last year, indicating higher productivity from our seine efforts.

The department also provided mosquitofish to the Grettenberger Lab at UC Davis, supporting their research at the California Rice Experiment Station in Butte City. The study is evaluating the effectiveness of mosquitofish as a biological control agent for tadpole shrimp, which damage young rice plants and disturb soil.

Looking ahead to August, the department will begin draining and cleaning ponds, performing general facility and yard maintenance, and preparing for fall flood-ups.

Log of Treatment Applied for July

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Treatments</u>
Mosquitofish ( <i>Gambusia affinis</i> )	2,659 lbs	11,170.6 Acres	489
Guppies ( <i>Poecilia reticulata</i> )	.1 lbs	.002 Acres	1

Log of Treatment Applied for the year 2025

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Treatments</u>
Mosquitofish	2,934 lbs	12,043.3 Acres	2,546
Guppies	.9 lbs	.34 Acres	12

Fisheries Budget

<u>Total</u>	<u>Spent</u>	<u>Remaining</u>	<u>% Spent</u>
35,000.00	2,675.95	32,324.05	8%

Top Left : *Technician painting the wall where the new tank system will be installed.*

Top Right: *Technician removing the last of an old tree that once stood over the fisheries building.*

Bottom : *Technicians seining a canal in South Sacramento.*



## CONTROL OPERATIONS

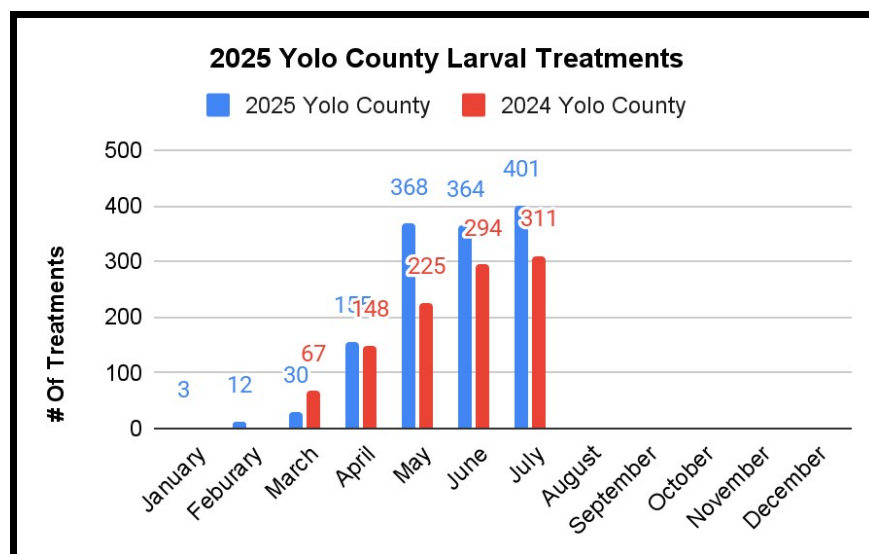
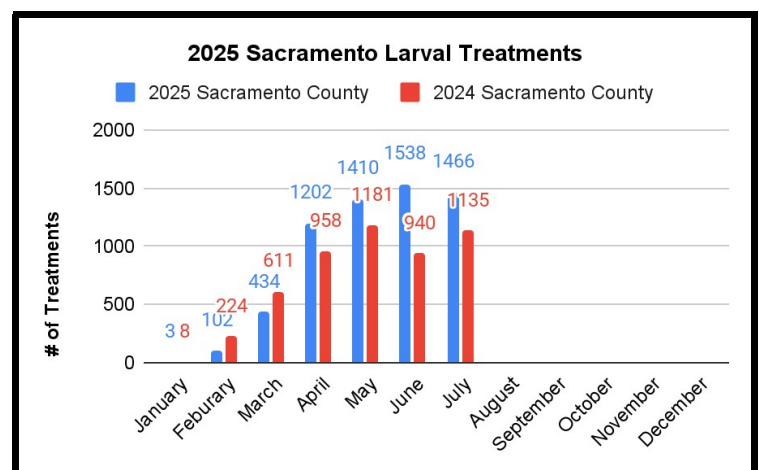
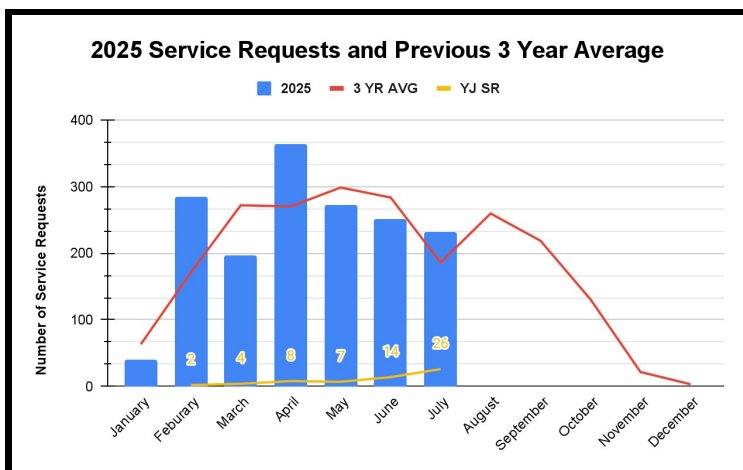
### Monthly Report for the August 2025 Board Meeting

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

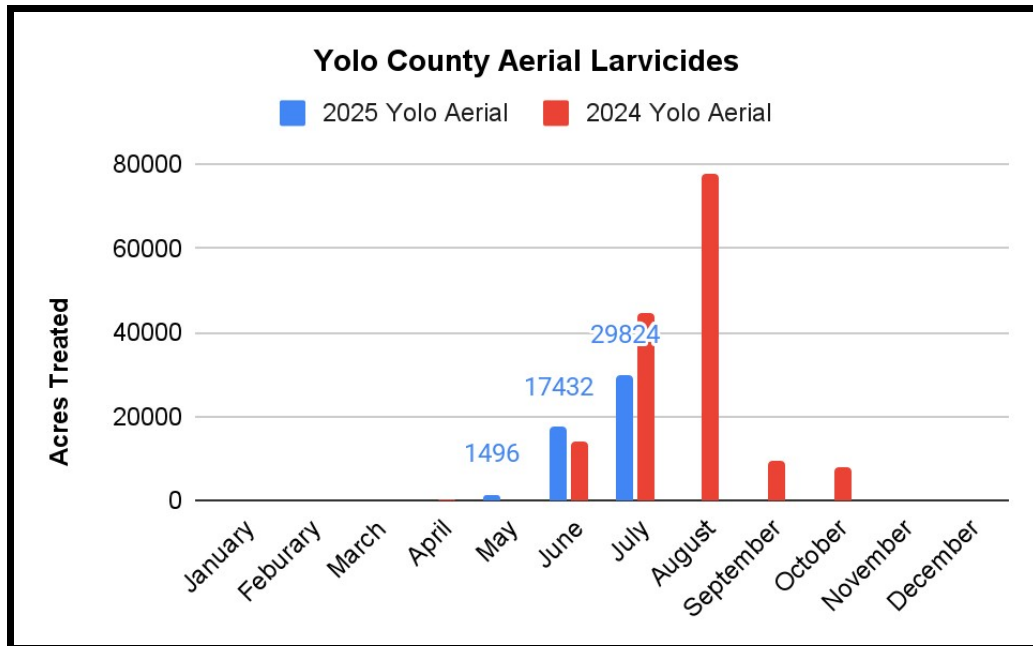
Sixty nine ground based ULV applications were conducted in the month of July. Twenty of those applications were in response to West Nile virus positive mosquito sample locations. Control Operations will continue to respond with localized ground based applications in response to high trap counts and or West Nile positive mosquito samples.

Larval applications and adult treatments continue to be made based upon routine inspections and local service requests in both counties.

Vector Control Disease International (VDCI) performed nineteen aerial adulticide applications over rural agricultural areas in the Month of July, and will continue to fly on a weekly basis as adult mosquito abundance or West Nile virus positives dictate treatments.







### Rice Program

The District has been larviciding and adultciding over rice growing areas on a weekly basis based upon larval dip and adult trap counts. Wild rice harvest has begun and will continue into mid August with the majority of conventional rice to begin harvest in mid to late September.

### Urban Control Operations: Catch Basin Program

Catch basin Program has treated 38,175 and Inspected 122,100 Basins to date. In 2024 a total of 51,542 were treated at this time. Additional basins are treated around West Nile virus positive locations in addition to normal treatment areas. Product selection will continue to be rotated throughout the season.

### Invasive Aedes Control Program

In the month of July Technicians conducted 247 inspections in which ninety three potential *Aedes aegypti* larval sources were found and treated. Along with the larval detections, Technicians also performed 144 barrier adulticide treatments, and ten early morning WALs applications. Staff set out 302 BG sentinel traps gathering 180 adult detections in previously known detection areas throughout Sacramento and Yolo Counties. Staff continued surveillance in the SIT Pilot Program area of South Natomas with weekly releases of 30,000 sterile Wolbachia-infected male mosquitoes.



## **Yellow Jacket Control**

Both Sacramento Control crews will continue to monitor and re-bait yellow jacket traps in known and new service request locations. All traps have been switched to a protein based bait to attract adult workers.

## **UAS larvicide Operations**

Leading Edge Aerial Technologies (LEA) performed nine applications over Sacramento County last month. At the time of this report just over 2,379 acres have been treated by LEA so far this year.

## **PUBLIC INFORMATION AND EDUCATION**

### **Monthly Report for August Board Meeting**

#### **National Night Out Repellent and Materials Distribution:**

A press release was sent out indicating that free repellent wipes were available for National Night Out. The response to the free wipes was extremely positive and various neighborhood associations, cities, and residents received the wipes. We also participated in two National Night Out events—one hosted by the South Land Park Neighborhood Association in an area with recent West Nile virus activity, and another in North Natomas, where invasive mosquitoes continue to spread. Both events were well attended, and participants expressed appreciation for the mosquito prevention information and free repellent wipes provided.

#### **Events:**

In addition to National Night Out, August is packed with community events. Earlier this month, we participated in the UC Davis Master Gardener Harvest Day, an event focused on gardening education with presentations on composting, herbs, tree pruning, green waste container use, and other practical tips. It was a highly successful day, giving us the opportunity to share detailed information about invasive mosquitoes with an engaged audience that understands the importance of addressing the issue. Many community organizations were also present, and our repellent wipes and educational materials were well received.

Later this month, we will spend five days at the Yolo County Fair, participate in the Banana Festival for the first time, and attend Celebrate Natomas—an excellent opportunity to connect with residents and share updates about our SIT South Natomas project.

#### **Advertising**

Our advertising campaign is in full swing, with *Fight the Bite* messages running consistently on radio and television. The media schedule is organized into flights, rotating our ads across multiple stations to maintain a strong, constant presence in the market. Beyond broadcast, the campaign also includes billboards and a variety of digital ads, extending our reach throughout the District.

As part of our media buy, our partner Bonneville Radio coordinated the filming of two video segments at a local golf course—one featuring a local golf expert and the other a popular radio host. Both segments highlight tips and recommendations for golfers, outdoor enthusiasts, and residents, and will be shared on social media to further amplify our outreach.

In addition, another radio partner invited us to collaborate on a video with the Sacramento Chamber of Commerce to showcase the benefits of advertising on Hispanic radio, offering another avenue to connect with diverse audiences in our community.

**World Mosquito Day**

To commemorate World Mosquito Day on August 20<sup>th</sup> the MVCAC Public Relations Committee put together a video and a social media calendar with info graphics in both English and Spanish. All materials will be disseminated to media outlets and other districts throughout the state so we can all have a unified message. In addition, as part of AMCA's education and outreach efforts, we are also creating "A Day in the Life" social media videos showcasing the day to day work of mosquito control professionals.

**Repellent and Materials Distribution:**

We continue to receive requests for mosquito repellent wipes and recently supplied them to a coach in Greenhaven Soccer to help keep children protected during practice. Wipes were also delivered to the Rio Linda Farmers Market and to Colonial Heights for a community event, ensuring residents had access to protection while enjoying outdoor activities.

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

## **August 19, 2025 Board Meeting**

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