



APRIL 19, 2022

BOARD OF TRUSTEES

BOARD PACKET

10:00 A.M.

Courtyard By Marriott  
Sacramento-Midtown, Magnolia Room  
4422 Y Street  
Sacramento, CA 95817

AND

704 West Main Street  
Winters, CA 95694

**SACRAMENTO/YOLO MOSQUITO  
& VECTOR CONTROL DISTRICT  
BOARD OF TRUSTEES REGULAR MEETING**  
Courtyard By Marriott-Sacramento Midtown-Magnolia Room  
4422 Y Street  
Sacramento, CA 95817  
AND  
704 West Main Street  
Winters, CA 95694

**AGENDA  
April 19, 2022  
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).*

**CALL TO ORDER:**

- Roll Call
- Pledge of Allegiance

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

- a. Minutes of the March 15<sup>th</sup> Board of Trustees Meeting
- b. Expenditures for March 2022

**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. Report from AMCA Annual Conference Attendee
- c. Reports from District Departments
  - Lab/Surveillance
  - Ecological Management
  - Biological Control
  - Larval and Adult Control
  - Public Outreach

4. **Board Review and Consideration of Prepayment to Farm Air for Aerial Larviciding Services**
5. **Closed Session- Provide Instruction to Designated Labor Representatives (Gov. Code s. 54957.6-Labor Negotiations)**  
**Agency Designated Representatives : [Gary Goodman, Shelley Eckler, Samer Elkashef, Kim Bogard]**  
**Employee Organization: [Operating Engineers Local Union #3]**
6. **Board/Staff Reports and Requests**
7. **Adjournment**

**MINUTES OF THE MARCH 15, 2022  
MEETING OF THE BOARD OF TRUSTEES OF THE  
SACRAMENTO-YOLO MOSQUITO & VECTOR CONTROL DISTRICT**

**Location:** 8631 Bond Road, Elk Grove, CA 95624

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

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

**Trustees Present:**

Marcia Mooney	President	Galt
Gar House	Vice President	Winters
Sean Denny	Secretary	Woodland
Janell Darroch		West Sacramento
Bruce Eldridge		Yolo County
Raymond LaTorre		Sacramento
Robert McGarvey		Rancho Cordova
Staci Gardiner		Isleton
Craig Burnett		Folsom
Christopher Barker		Davis
Lyndon Hawkins		Elk Grove

**Trustees Absent:**

Jayna Karpinski-Costa		Citrus Heights
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**Legal Counsel Present:** Jennifer Buckman

**Staff Present:**

Gary Goodman	Manager
Samer Elkashef	Assistant Manager
Shelley Eckler	Administrative Manager
Sarah Wheeler	Laboratory Director
Marty Scholl	Eco Management Supervisor
Tony Hedley	Fisheries Supervisor
Luz Robles	Public Information Officer
Steve Ramos	Program Manager

**Roll Call**

This meeting was held and attended by Video Teleconference. Attendance was taken by Roll Call. All Trustees except one were in attendance; therefore, a quorum was present.

**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 Consideration to Authorize the Board Meeting be Conducted by Teleconference.**

On a motion by Secretary Denny and seconded by Trustee Darroch, the Board voted to approve Item 1. The vote was taken by roll call and the motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 1.

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

On a motion by Trustee Burnett and seconded by Secretary Denny, the Board voted to approve General Consent Items a and b. The vote was taken by roll call and the motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 1.

- a. Minutes of the February 15, 2022 Board of Trustees Meeting
- b. Expenditures for February 2022

3. **Opportunity for Public Comment**

Felix Huerta, Business Representative of OE3, noted three items he wanted to bring to the Board's attention

- The request to meet and confer over the MOU
- The scheduled unfair labor practices file set to be heard on June 24, 2022
- A grievance filed and that he will be filing a follow up unfair practices case with PERB

4. **Reports to the Board**

**Manager's Report:** The weather has started to warm up and we are beginning to see more mosquito activity. Staff did an excellent job with their presentations at the MVCAC Annual Conference earlier this month. The District gave five talks at the meeting. Staff has submitted the National Pollutant Discharge Elimination System (NPDES) Annual Report to the State Water Resources Control Board.

The MVCAC Legislative days are scheduled virtually for March 29th and 30th. The main ask is for increased funding for the California Department of Fish and Wildlife to maintain and implement best management practices on their properties.

The AMCA Legislative days are planned for May 16-19 and will be in person. Increased funding for the CDC and monies to fund a more accurate drift model are the main talking points.

Gary mentioned that he had been involved in discussions with PAMCA while he was in Florida for AMCA regarding an exchange project where they send people to the United States to learn about mosquito control. They are asking for funding to send 2 – 3 people to shadow SYMCVD staff.

**Reports from Trustees Attending the AMCA Annual Conference:**

Janell Darroch appreciated that the focus was more of a worldview, not just local and state. She said the standout presentations were around planetary health in regards to vector control. The lightning rounds were very informational. Janell also mentioned the helicopters used in mitigation and noticed different storage methods for the insecticides.

Chris Barker said the District's representatives all did excellent in their presentations. Gary Goodman informed all that the recorded versions of the presentations would be available soon.

**Reports from District Departments:** Written reports were provided in the Board packet from each department. Department supervisors gave an oral presentation and were available to answer any questions.

**Lab/Surveillance:** Sarah Wheeler stated that numbers are still low and that affords her and her team time to get ready for the season. The West Nile Virus pre-trapping will start in April, as will the monitoring of chickens. Sarah noted they were informed of one human malaria case but it was from traveling and no vector was found. The team is actively working on BG Counter traps to use with the rice program.

**Ecological Management:** Marty Scholl spoke about his experience at the AMCA Conference, and an overview of his presentation on trials and drone usage.

**Biological Control:** Tony Hedley provided a review of the fisheries' numbers for February. He also stated that they have started a fish moving program to move fish into the ponds and the seine of the ponds during this time of year.

**Larval and Adult Control:** Steve Ramos said that the District is taking a proactive process on survey zones and the pool program. They are in the process of sending out more mailers for green pools that include information on how residents can reach out for more information. Steve provided an update on the training processes. The catch basis team is mostly doing inspections now and is not finding high numbers, mostly surface water sources.

**Public Outreach:** Luz Robles mentioned the city council presentations have been scheduled and they are moving forward on the advertising campaign that was approved at the previous board meeting. She is in the process of securing more pro bono media exposure opportunities. The Fight the Bite drawing contest is underway and the informational flyers were sent to all regional schools. The deadline to submit a drawing is April 6, 2022.

**5. Board Review and Consideration for Renewal of Leading Edge Contract for Aerial Larviciding Services by UAS.**

General Manager Gary Goodman presented an overview of the Leading Edge Contract and the services and pricing offered. On a motion by Trustee Burnett and seconded by Secretary Denny, the Board voted to approve Item 5. The vote was taken by roll call and the motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 1

**6. Closed Session – Consideration and Appointment of Bargaining Team (Gov. Coe s. 54957 (b) (1) and Provide Instruction to Designated Labor Representatives (Government Code Section 54957.6 – Labor Negotiations)**

The Board went into closed session at 11:10am and came out of it at 11:41am. On a motion moved by President Mooney and seconded by Trustee Darroch, the board approved the negotiating team as presented. The vote was taken by roll call and the motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 1

**7. Board/Staff General Discussion**

Gary noted that we are in the process of obtaining architect bids for some restructuring of the office space, and potentially joining the two buildings. Gary also mentioned the ongoing negotiations taking place with CDPH regarding the building lease. If they choose not to renew that opens up 2500 square feet of usable space in lieu of engaging an architect.

Gary discussed moving the board meetings back to being in-person and we are looking into alternate meeting spaces to accommodate social distancing guidelines.

**8. Adjournment**

With no further business to conduct the meeting was adjourned at 12:01 pm.

# ***Sacramento/Yolo M.V.C.D.***

## ***STATEMENT OF OPERATION***

	<i><b>9Months Ended March31 2022</b></i>	<i><b>Annual Budget</b></i>	<i><b>Unused</b></i>
<b>Revenue</b>			
REVENUE	8,136,322.91	0.00	8,136,322.91
TOTAL Revenue	8,136,322.91	0.00	8,136,322.91
<b>Expenditures</b>			
<b>SALARIES/BENEFITS/WC</b>			
SALARIES/BENEFITS/WC	8,399,613.40	9,136,769.78	737,156.38
TOTAL Salaries	8,399,613.40	9,136,769.78	737,156.38
<b>OPERATIONAL</b>			
LIABILITY INSURANCE	212,157.00	215,825.00	3,668.00
AUDITING/FISCAL	16,000.00	16,000.00	0.00
COMMUNICATIONS	63,864.61	93,500.00	29,635.39
PUBLIC INFORMATION	205,207.64	572,000.00	366,792.36
STRUCTURE & GROUNDS	73,703.33	83,000.00	9,296.67
MEMBER/TRAINING	68,616.67	119,000.00	50,383.33
DISTRICT OFFICE EXPENSES	18,526.95	17,500.00	(1,026.95)
PROFESSIONAL SERVICES	109,112.79	220,250.00	111,137.21
MATERIALS & SUPPLIES	11,816.82	22,000.00	10,183.18
RENTS & LEASES - Admin	6,963.91	11,550.00	4,586.09
SAFETY PROGRAM	2,296.46	5,000.00	2,703.54
UTILITIES	80,248.48	110,000.00	29,751.52
AIRCRAFT SERVICES	650,432.09	1,020,000.00	369,567.91
ECOLOGICAL MANAGEMENT	3,312.21	18,500.00	15,187.79
MICROBIAL	836,219.34	1,550,000.00	713,780.66
INSECT GROWTH REGULATOR	621,492.94	1,100,000.00	478,507.06
INSECTICIDES	373,238.36	1,100,000.00	726,761.64
FISHERIES	17,269.92	32,000.00	14,730.08
GEOGRAPHIC INFO SYSTEMS	3,768.00	9,000.00	5,232.00
INFORMATION TECHNOLOGY	37,865.57	66,680.00	28,814.43
CONTROL OPERATIONS	22,655.71	47,000.00	24,344.29
VEHICLE PARTS/LABOR	88,034.55	101,000.00	12,965.45
LAB SERVICES	145,520.63	185,000.00	39,479.37
GAS & PETROLEUM	128,992.38	170,000.00	41,007.62
TOTAL Total Operational	3,797,316.36	6,884,805.00	3,087,488.64



**SYC Balance Sheet**  
**As of 3/31/2022**

**Sacramento Yolo MVCD (SYC)**

**Assets**

**Current Assets**

Cash in Bank-FSA	15,555.46
Cash with LAIF	5,212,206.89
Petty Cash	600.00
US Bank	5,430,235.31
Accounts Receivable	(1,374.00)
Interest Receivable	8,352.00
Assigned - Cash With VCJPA	1,665,077.00
Employee Advance	145.00
Inventory	1,347,050.17

**Total Current Assets:** 13,677,847.83

**Fixed Assets**

LAND, BLDG., IMPROVEMENT	1,175,092.88
EQUIPMENT	4,715,197.45
BOND ROAD	5,061,395.00
WOODLAND FACILITY	708,574.00
ACCUMULATED DEPRECIATION	(7,638,941.07)

**Total Fixed Assets:** 4,021,318.26

**Other Assets**

Deferred Outflows of Resources	4,520,441.00
Deferred Outflows of Resources-GASB 75	889,066.00

**Total Other Assets:** 5,409,507.00

**Total Assets:** 23,108,673.09

**Liabilities**

**Current Liabilities**

Accounts Payable	9,298.16
Payroll Taxes Payable	(86,361.69)
Garnishments Payable	(350.00)
Deferred Compensation	(19,443.67)
Deferred Comp. Employee Loans Payable	(1,718.44)
Voluntary TL & AD&D	(1,216.59)
Voluntary STD	(762.51)
401(a) Deductions	(1,550.00)
Union Dues	(1,188.00)
FSA Deductions	35,803.61
P.E.R.S. Deductions	(79,898.23)
Suspense	(6,664.00)
Safety Program	(1,530.00)
Accumulated Vacation	395,995.26

**Total Current Liabilities:** 240,413.90

**Long-Term Liabilities**

Net Pension Liability	11,345,645.00
Net OPEB Liability	1,436,704.00
Deferred Inflow of Resources	2,046,550.00
Deferred Inflow of Resources-GASB 75	491,114.00

**Total Long-Term Liabilities:** 15,320,013.00

**Total Liabilities:** 15,560,426.90

**Equity**

INVESTMENT IN FIX ASSETS	4,021,317.96
RESERVED CASH (INS.)	1,665,077.00

**SYC Balance Sheet**  
**As of 3/31/2022**

		Sacramento Yolo MVCD (SYC)
Committed-Capital Outlay		700,000.00
Unassigned - Dry Financing		6,000,000.00
Retained Earnings-Current Year		(4,380,388.36)
GENERAL FUND		(2,537,080.38)
Committed - Vector/Disease Response		2,000,000.00
Prior Period Adjustment		79,319.97
Total Equity:		7,548,246.19
Total Liabilities & Equity:		23,108,673.09

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

## **April 19, 2022 Board Meeting**

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

- a. Manager's Report**
- b. Report from AMCA Annual Conference Attendee**
- c. Reports from District Departments**
  - **Lab/Surveillance (Sarah Wheeler)**
  - **Ecological Management (Marty Scholl)**
  - **Biological Control (Tony Hedley)**
  - **Larval and Adult Control (Steve Ramos)**
  - **Public Outreach (Luz Maria Robles)**

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

The season is picking up as our surveillance is showing an increase of mosquitoes in the field with the warm weather and the control crews are responding in kind. Our seasonal employees are beginning to come on board but we still have some left to hire.

The MVCAC Legislative Days were held online on March 29 and 30. The Manager held virtual meetings with Senator Eggman, along with Assembly Members Aguiar-Curry, Assembly Member Cooley, and Assembly Member McCarty. Our main discussion points were the success of VectorSurv and trying to secure funding for CDFW to implement best management practices on their properties. I have attached the position papers that were discussed with our legislators.

Mosquito and West Nile Virus Awareness week is April 17-23. The week would normally be full of activities, but most community gatherings are not yet in full swing. We are looking to enhance our media outreach during the week to counteract our inability to host in-person events. We will be issuing press releases to educate the public on how we protect public health as well as distributing repellent to homeless shelters.

The District is working on compiling the annual budget for FY 22-23. A draft version will be presented at the May meeting.

The AMCA Legislative Day is scheduled for May 17-19. Sean Denny will be helping with the meetings. Our position papers will center on increasing federal funding to the CDC through the SMASH Act and the TICK Act and discussions on the impact of the Endangered Species Act. AMCA will also be asking for monies to help fund a more specific drift model related to public health applications.

#### **b. Report from AMCA Annual Conference Attendee**

#### **c. District Departments**

- **Lab/Surveillance (Sarah Wheeler)**
- **Ecological Management (Marty Scholl)**
- **Biological Control (Tony Hedley)**
- **Larval and Adult Control (Steve Ramos)**
- **Public Outreach (Luz Maria Robles)**

# STATE FUNDING NEEDED TO REDUCE MOSQUITOES ON MANAGED WETLANDS



## History of Cooperation

Mosquito control districts have worked with the California Department of Fish and Wildlife (CDFW) to ensure state lands do not create environments that lead to an overabundance of mosquito production.

Over the past 30 years there has been a significant decline in the abundance of summer-flooded wetlands, and this has likely impacted several species of wildlife that rely on these wetlands for part or all of their life cycle. As a result of this, the Central Valley Joint Venture's 2020 Implementation Plan has significantly increased acreage goals for semi-permanent wetlands (wetlands that are flooded during the summer months).

## Legislative Background

AB 1982 (Wolk – 2004) directed consultation between CDFW and local mosquito control districts to assess mosquito production on managed wildlife areas. AB 896 (Eggman – 2016) furthered that coordination. The state previously provided funding for CDFW to implement mosquito control plans and this request carries that historic cooperation forward.

The management of wetlands for waterfowl and other wetland-dependent species of wildlife has the potential to produce mosquito abundance that surpasses abatement thresholds of local mosquito abatement districts. MVCAC members have worked with CDFW to reduce the impact of those management activities, but strategies for effective mosquito abatement are often limited by inadequate staffing and funding levels in state Wildlife Areas. Those strategies, Best Management Practices, are an important step in reducing mosquito production using non-chemical means.

## \$3 Million One-Time and \$500,000 Ongoing State Funding is Needed

Current CDFW funding is inadequate to cover existing mosquito abatement costs. Additional funding is needed to maintain baseline activities and address issues related to added summer wetland acres.

## Best Management Practice Solutions

The AB 896 workgroup tested various BMPs, and recommends implementing projects to repair, maintain, and modernize water conveyance infrastructure on state Wildlife Areas, including:

- Removing invasive vegetation from canals and drainage ditches
- Repairing and replacing aging pumps and conveyance structures to improve speed and reliability of delivered water
- Maintaining swale systems so they fill and drain in ways to reduce mosquito production while meeting wildlife needs
- Promoting successional setback through disking and other mechanical techniques to control vegetation and increase diversity
- Establishing native mosquito predator reservoirs to naturally control abundance, but provide habitat for wetland-dependent wildlife

For questions, please contact MVCAC's legislative advocate  
Vanessa Cajina with KP Public Affairs at [vcajina@ka-pow.com](mailto:vcajina@ka-pow.com)



**MVCAC**  
Mosquito and Vector Control Association of California [www.mvcac.org](http://www.mvcac.org)

# PUTTING STATE FUNDING TO GOOD USE: PROTECTING THE PUBLIC FROM MOSQUITO-BORNE DISEASES



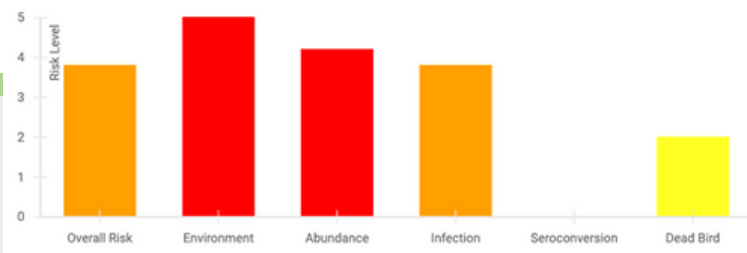
**The California Vectorborne Disease Surveillance Gateway (CalSurv)** -- an essential tool in fighting vector-borne diseases -- was included in the 2021-22 state budget as an annual appropriation. The state's ongoing support for this online interactive platform is critical as it enables real-time collection, visualization, and analysis of data on vector-borne diseases. CalSurv, which is housed at UC Davis, curates local and statewide data that enables 81 mosquito and vector control and public health agencies to make informed decisions on public health interventions to prevent the spread of mosquito-borne diseases.

## State funding has sustained CalSurv and enabled the addition of new capabilities:

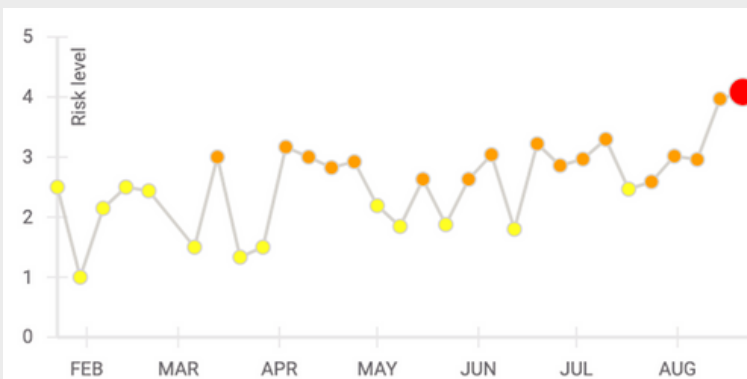
- New data tools to support surveillance for the vectors of Lyme and other tick-borne diseases.
- Open-data portal to accelerate research on the spread of invasive species and climate change-related impacts.
- Support for Integrated Vector Management practices through immediate reporting of mosquito and tick surveillance and pathogen test results.
- Improved interoperability with local, state, and national systems.

On top of the ongoing threat of West Nile virus, invasive *Aedes* mosquitoes continue to spread throughout the state. First detected in 2013, these mosquitoes, which can transmit Zika, dengue, chikungunya, and animal heartworm, are now in more than 20 counties. CalSurv is an important part of controlling invasive mosquitoes as it helps identify pesticide resistance and visualize disease outbreak risks.

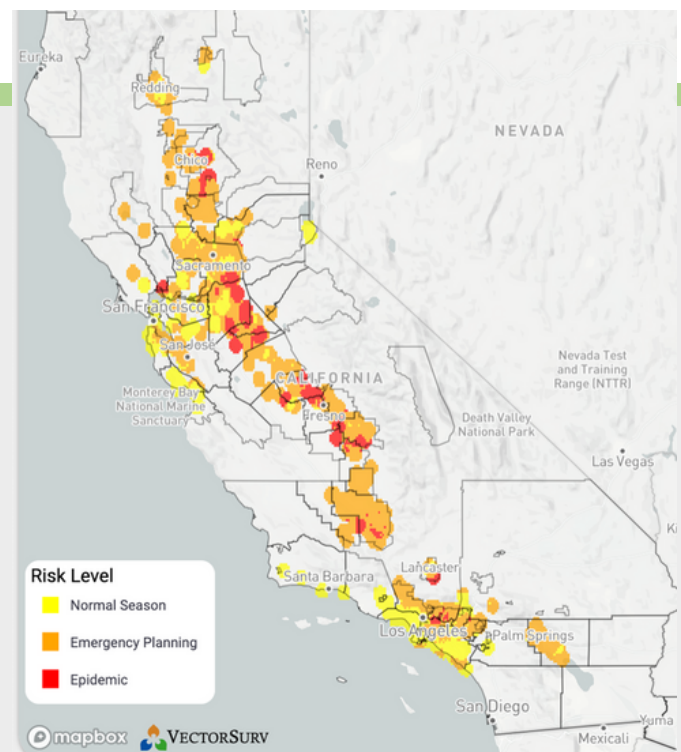
## Risk Components for Week Ending August 21, 2021



## Overall Risk Levels By Week For 2021



## West Nile Virus Human Infection Risk Assessment for the Week Ending August 21, 2021



**CalSurv is recognized by California (AB 320 – Quirk) as the statewide surveillance database critical to preventing the spread of mosquito-borne diseases.**

**Turns data into evidence for public-health decision-makers.**

- Compare past and present results of arbovirus surveillance, including West Nile virus and St. Louis encephalitis virus.
- Track the spread of invasive mosquitoes.

**Enables state and national reporting and risk assessment.**

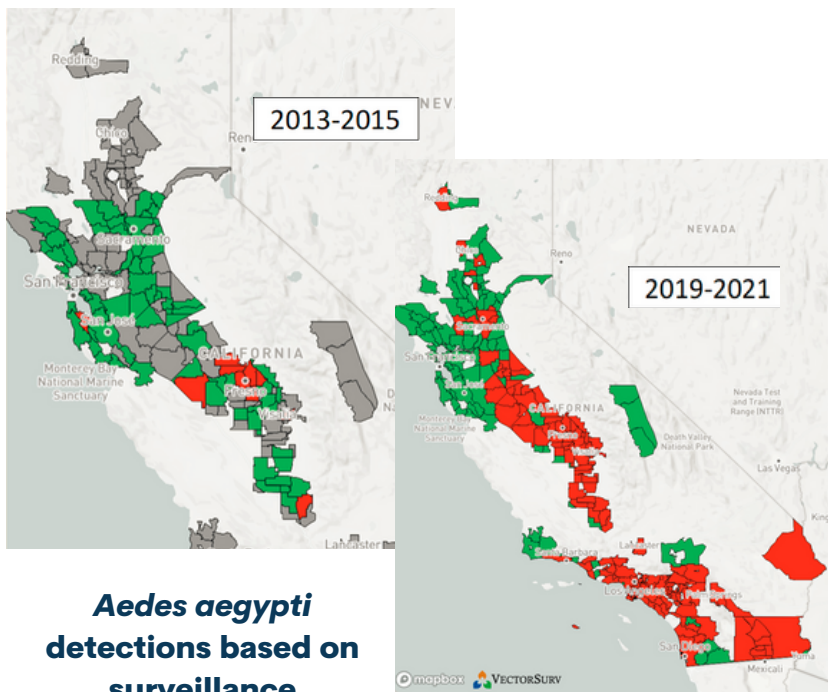
- CA Dept. of Public Health uses CalSurv data on mosquito abundance, mosquito infection rates, dead birds, sentinel chickens, and weather to provide statewide reports and assess transmission risk for vector-borne diseases.

**Reduces health disparities.**

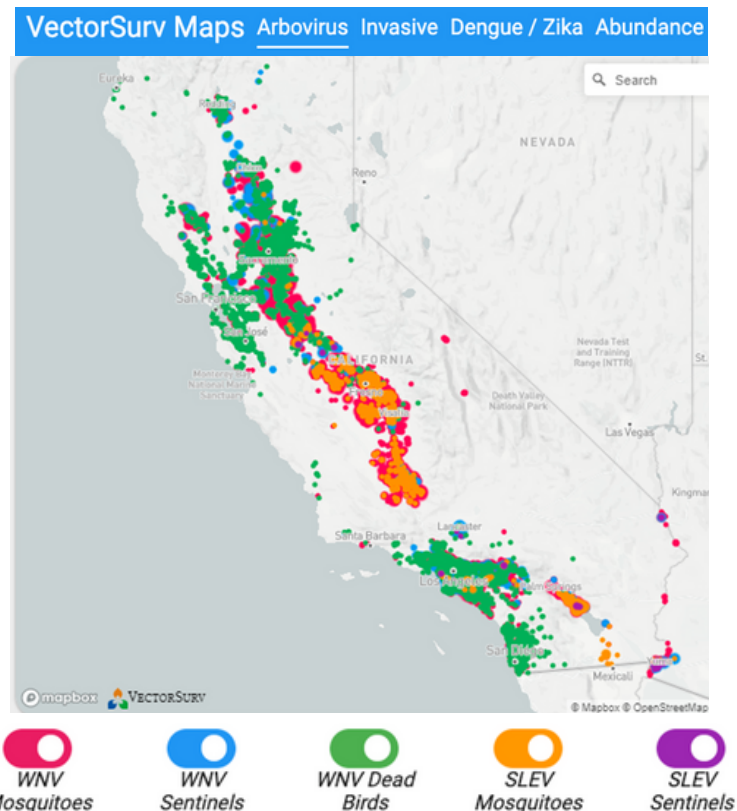
- Local vector control programs vary greatly in funding and operational capacity.
- CalSurv provides a complete software solution for surveillance data in smaller rural communities that often have proportionally higher risk of arbovirus transmission but limited vector control resources.

**Supports cutting-edge research.**

- Provides information that can be used for research to improve surveillance and control strategies and predict new disease outbreaks.



**CalSurv Map Showing Mosquito-Borne Virus Activity Detected by Surveillance  
January 2012- January 2022**







## WHAT WE DO

### ADVOCACY

MVCAC is the leading voice for mosquito and vector control in the California Legislature. Each year, the organization hosts a Legislative Day at the State Capitol where participants meet with legislators to promote the importance of mosquito and vector control. MVCAC's legislative committee and advocates monitor legislation that could potentially affect mosquito and vector control and mobilize member agencies to take action. MVCAC members also engage in grassroots advocacy at the district level.

### REGULATION & PERMITTING

MVCAC collaborates with state and federal regulatory agencies to ensure that the best vector management practices are implemented across the state in order to protect public health and the environment.

### CERTIFICATION & CONTINUING EDUCATION

MVCAC partners with the CA Department of Public Health to provide mosquito and vector control certification and continuing education. This partnership ensures that technicians receive training based on the latest science allowing them to use the most advanced techniques as well as products registered with the U.S. Environmental Protection Agency.

### PUBLIC EDUCATION

MVCAC works to increase public awareness and educate Californians about the importance of mosquito and vector control through a variety of activities including "Mosquito & Vector Control Awareness Week," which takes place each spring. MVCAC also collaborates with stakeholders to promote Best Management Practices and increase education about mosquito and vector-borne disease prevention.

### MOSQUITO RESEARCH

MVCAC works with the University of California, CA Department of Public Health and the Mosquito Research Foundation to secure funding and support essential research projects benefiting member agencies and public health throughout the state.

### COLLABORATION

MVCAC provides a forum for its members to collaborate and support advancements in surveillance, laboratory techniques, and mosquito and vector control and management. MVCAC's annual conference provides an important venue for mosquito and vector professionals to stay abreast of changing trends in the industry.



# MVCAC

Mosquito and Vector Control Association of California

**ASSOCIATION WEBSITE:** [www.mvcac.org](http://www.mvcac.org)

**AGENCY LOCATOR BY ZIP CODE:** [westnile.ca.gov](http://westnile.ca.gov)

**CALSURV WEBSITE:** [www.calsurv.org](http://www.calsurv.org)



# MOSQUITO CONTROL MATTERS

Over a century ago, California enacted legislation to combat mosquito threats in the state. The California Mosquito Abatement Districts Act of 1915 (AB 1590) aimed to control the dangers that mosquitoes posed to California's economic development and health and well-being of its residents.

More than 100 years later, the threat is just as great, and California mosquito and vector control agencies are on the front lines of protecting public health and promoting prevention strategies for mosquito-transmitted diseases such as West Nile, St. Louis encephalitis, dengue, chikungunya, or Zika viruses.

Today, global commerce, travel, and climate change pose an ever-greater public health threat and require complex monitoring and prevention strategies. MVCAC agencies use Integrated Vector Management (IVM), an evidence-based, data-driven decision making tool used to suppress vector-borne diseases.

IVM prioritizes surveillance of mosquito populations, removal of breeding sites, and public outreach and education campaigns. It incorporates various tools to target mosquitoes at different life stages which can include physical, biological and chemical control. When implementing a control program, districts continually evaluate the strengths, weaknesses, risks, and resource cost of each type of intervention to determine what combination in each area is most appropriate for the current risk posed to public health from vectors and the pathogens they transmit.

Throughout the state, mosquito and vector control districts work to protect Californians from the discomforts, health risks and economic impacts of vector-borne diseases.

## PARTNERSHIPS

### CALSURV GATEWAY

MVCAC played an integral role in the development of the CalSurv Gateway, an online data management and visualization platform that has been used since 2006 by public health and vector control agencies. MVCAC works to secure ongoing support for the CalSurv Gateway so that agencies can better track and predict the emergence of mosquitoes, prioritize problematic areas and develop the most effective responses to mitigate the risks of vector-borne diseases.

### WEST NILE VIRUS CALL CENTER

MVCAC collaborates with the CA Department of Public Health to provide information about West Nile virus activity in California and how residents can protect themselves from mosquito-transmitted diseases. Dead birds are often the first indication that West Nile virus is active in an area. Californians are encouraged to report dead birds online at [www.westnile.ca.gov](http://www.westnile.ca.gov) or by calling toll-free 1-877-WNV-BIRD (968-2473).

### AMERICAN MOSQUITO CONTROL ASSOCIATION

MVCAC partners with the American Mosquito Control Association on federal regulatory and legislative issues that impact mosquito and vector control as well as shares information about innovative research and control techniques in California. MVCAC also helps promote "National Mosquito Awareness Week" which takes place each summer.



One Capitol Mall, Suite 800, Sacramento, CA 95814

p (916) 440-0826 e [mvcac@mvcac.org](mailto:mvcac@mvcac.org)

## MEMBERS

More than sixty mosquito and vector control agencies throughout the state are members of MVCAC. Our membership represents a diverse group of experts with varied interests, all committed to protecting public health and the advancement of the science of mosquito control.

### CORPORATE MEMBERS

Mosquito control districts and entities engaged in mosquito and vector control in California

### ASSOCIATE MEMBERS

Employees of the universities of California, the state of California, or public agencies outside of California

### AFFILIATE MEMBERS

Individuals with mosquito research interest or expertise who do not qualify as Associate members

### SUSTAINING MEMBERS

Individuals, organizations, or businesses who desire to contribute financially to benefit mosquito and vector control

### HONORARY MEMBERS

Individuals who have contributed exceptional and distinguished service in the interest of mosquito or vector control in California





# LABORATORY

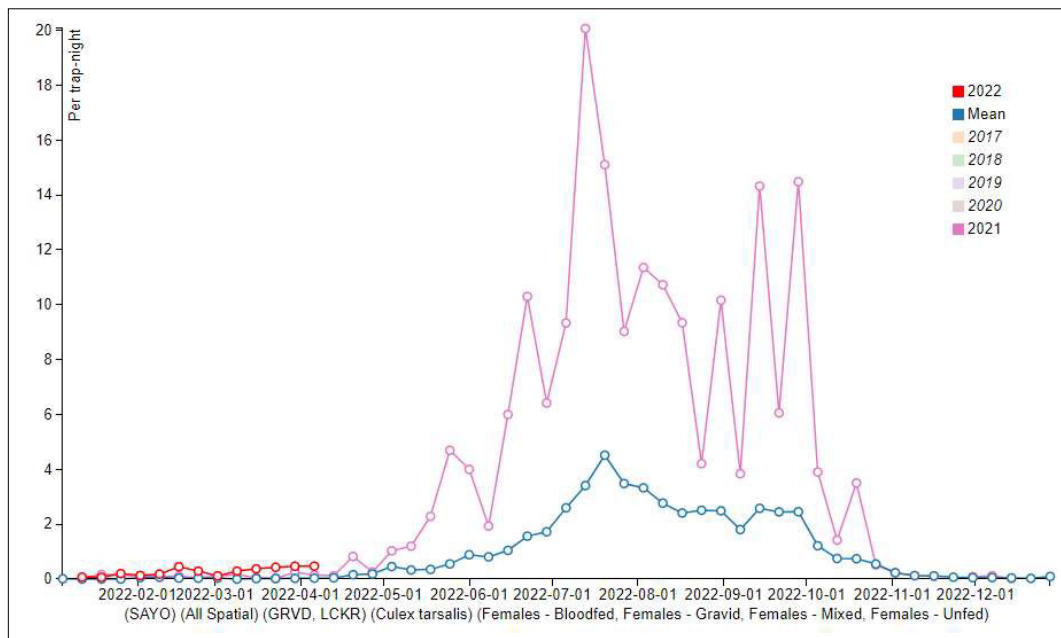
## Monthly Report for the April 2022 Board Meeting

### Insectary:

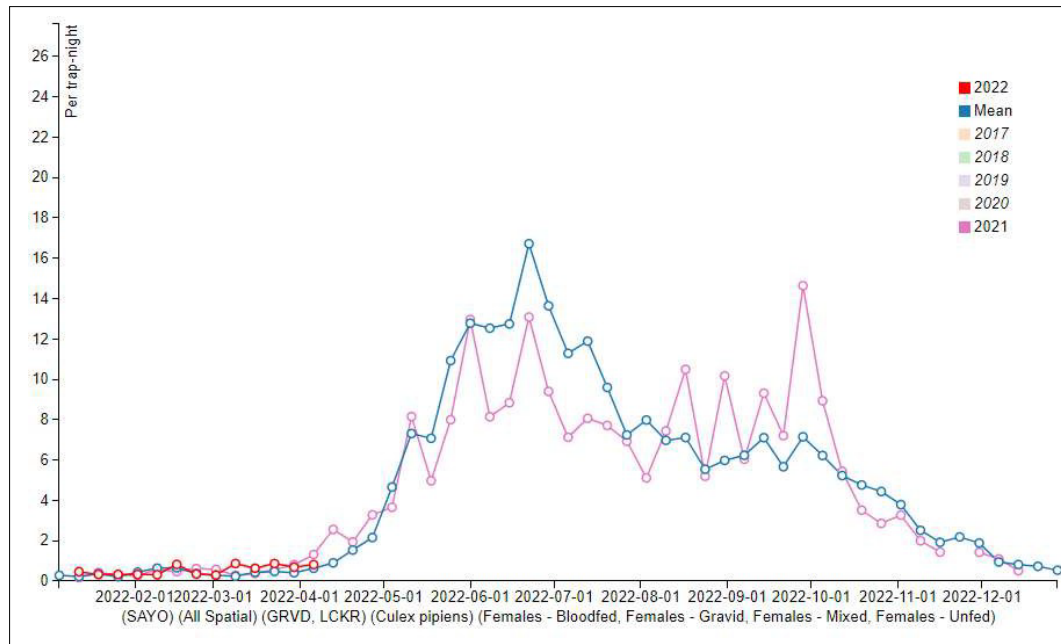
Species	Name	Origin	Resistance Status
<i>Culex tarsalis</i>	KNWR	Kern National Wildlife Refuge (2009)	susceptible
<i>Culex quinquefasciatus</i>	CQ1	Merced, CA (1950s)	susceptible
<i>Culex pipiens</i>	WCP	Woodland, CA (2017)	resistant: pyrethrins/pyrethroids, methoprene, and spinosad
<i>Culex tarsalis</i>	VFCT	Vic Fazio Yolo Wildlife Area (2020)	resistant: pyrethrins/pyrethroids
<i>Culex pipiens</i>		South Sacramento (2021)	status under investigation
<i>Aedes sierrensis</i>		Sonoma County (2016)	susceptible

### Surveillance:

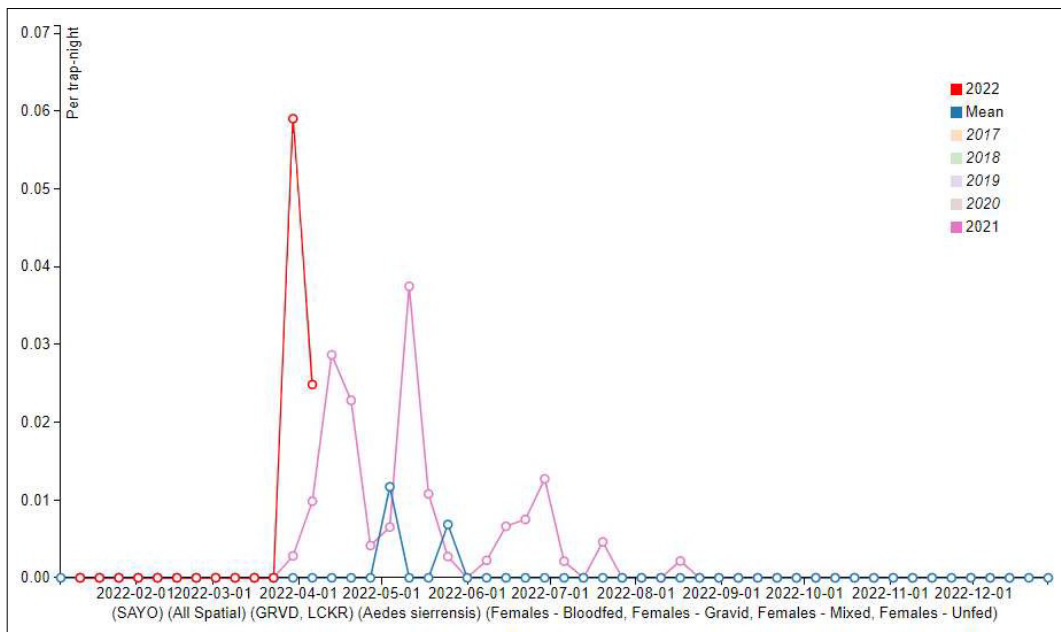
**Weekly mosquito collections** - The graphs below show overall *Culex tarsalis* and *Culex pipiens* abundance. Trap counts are currently low, which is typical for this time of year. *Aedes sierrensis* spring activity has begun.



Weekly *Culex tarsalis* abundance traps in locker and gravid traps



Weekly *Culex pipiens* abundance traps in locker and gravid traps

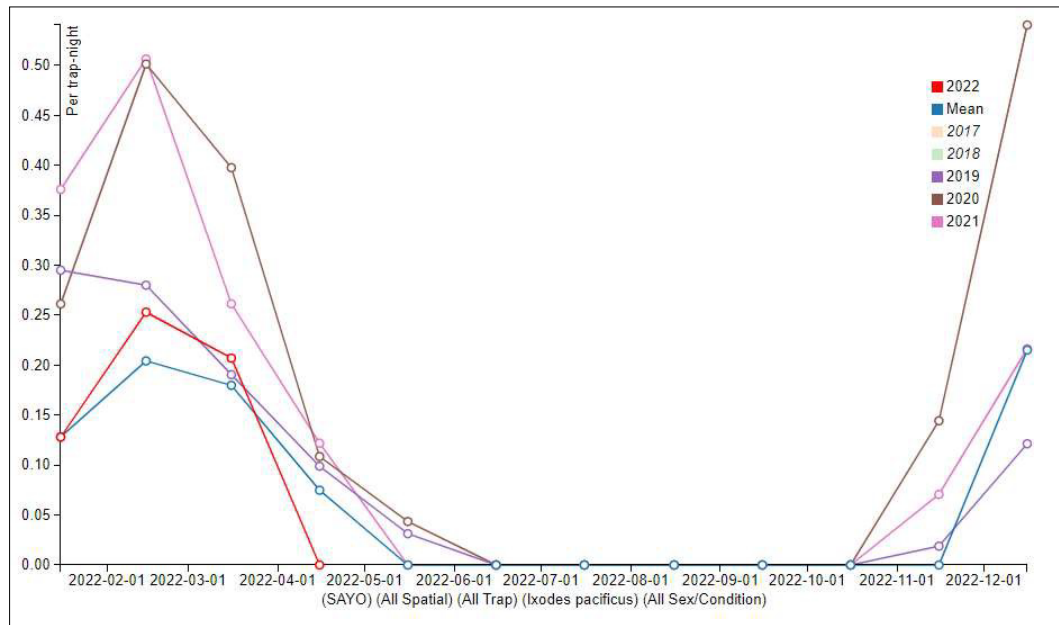


Weekly *Aedes sierrensis* abundance traps in locker and gravid traps

### Encephalitis Virus Aurveillance (EVS)

- **Mosquitoes** – We will start EVS trapping the last two weeks in April to get a first look at trap counts and to evaluate trap sites. Routine trapping and virus testing will begin again in May.
- **Sentinel chickens** – Sentinel chickens will arrive April 21<sup>st</sup>.
- **Dead birds** –The dead bird hotline opens April 11 and will mark the beginning of our annual dead bird surveillance program.

Map of all 2021 - 2022 tick collection locations



Total number of *Ixodes pacificus* collected across all sampling locations; April collections are not complete

Year	Month	Location	# <i>Borrelia burgdorferi</i> positive pools
2021	November	East Lake Natoma	2
		Upper Sunrise	1
	December	Nimbus Overlook	1
2022	January	Negro Bar	1
		Mississippi Bar	1
	February	Negro Bar	2
		Willow Creek	2
	March	Mississippi Bar	1
		Negro Bar	1
		Willow Creek	4

*Ixodes pacificus* pools positive for *Borrelia burgdorferi sensu stricto*

**Senecio Mosquito Counting and Pooling Machine** – The Senecio engineering team has assembled our machine and is currently conducting testing on the unit.

**Collaborations and District Studies** – We are scheduling meetings with collaborators and sketching out project plans for the 2022. Details will be provided as they develop.

**Staffing** – The lab is in the process of hiring seasonal helpers and we have a full-time laboratory technician position to fill. Our new Biologist, Dr. Mario Novelo Canto, has confirmed his first day will be May 23.



## **ECOLOGICAL MANAGEMENT DEPARTMENT**

### **Monthly Report for the April 2022 Board Meeting**

#### **Stormwater / Wetland Program**

Aerojet Rocketdyne: Over recent years classified operations have been winding down at the Rancho Cordova facility allowing for the District to conduct more supervised inspections and treatments. Staff met with the lead Environmental Engineer for the Rancho Cordova facility and inspected some ponds and ditches closest to the corporate offices. The District has submitted a proposal for treatment on two ponded areas and the proposal has been submitted for corporate review. District staff will continue meeting with Aerojet staff to develop a strong working relationship and to continue to survey the over ten-thousand-acre property.

Spring Mowing: Staff have begun mowing many of the duck club and wetland perimeter roads earlier than in years past due to early vegetation growth. District technicians needed access to the many still flooded ponds. This has provided an opportunity to begin seasonal management discussions with the involved wetland Managers.



#### **Planning Program**

Staff has received a handful of new planning projects that have been submitted to the District for review. Projects include:

Folsom Center for Health Draft EIR: UC Davis is proposing to build a new health and hotel center as part of the Folsom Ranch development south of Hwy 50 in Folsom. A proposed dry creek bed with ponds are included in the planning document as a means of stormwater treatment prior to connecting to the greater project stormwater system. Comments will be submitted as appropriate.

Toll Brothers at Folsom Ranch Phase 3: Staff submitted a Vector Control Plan Support Letter to Mackay & Soms Civil Engineers, Inc which is a requirement by the City of Folsom prior to the issuance of a grading permit.

Waterman Brinkman Logistics Center Project, Elk Grove: Staff received an Initial Study/Mitigated Negative Declaration for a series of new warehouses and shipping logistics buildings located on the southern portion of Waterman Road in South Elk Grove. Staff will be submitting comments regarding the proposed underground stormwater storage and infiltration, sediment pond, and water filtration cartridge vaults.

**Pool Program**

District staff has mailed sixty-three Final Notices to residences that have not responded to pool mailers. All locations have been verified to have a green pool as seen in recent nearmap imagery taken March 18, 2022.

Staff assisted Control Operations by verifying known green pool locations in remaining zones using the Match 18, 2022 Nearmap imagery. Mailers will be sent to all known pool locations that have been verified to have an unmaintained above or in-ground swimming pool.

## BIOLOGICAL CONTROL

### Monthly Report for the April 2022 Board Meeting

In the month of March the process of fish distribution to open ponds was completed. This process consists of monitoring water quality closely to determine the optimal time to transfer fish from the overwintering predatory exclusion ponds to the open grow out ponds. A few of the water quality parameters that we look for are water temperatures at or above 55 degrees and a good phytoplankton bloom. We seine our ponds as quickly and efficiently as possible to limit stressors on our fish stock to complete this process. The Fisheries Department continues to work toward having a self-sustaining fisheries program. With recent investments in predatory exclusions and additional pond aerations we are continuing to see an improvement in mosquitofish health and increased production. In addition, fisheries personnel will be able to potentially act as additional mosquito habitat inspectors. 48.975 lbs of mosquitofish were used in the month of March, an increase from February where the District used 10.55 lbs. Daily activities such as water quality testing, medical treatments as necessary and tank cleaning were performed to maintain high quality fish.

#### Log of Treatment Applied for March

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Treatments</u>
Mosquitofish ( <i>Gambusia affinis</i> )	48.975 lbs	190.220 Acres	518
Guppies ( <i>Poecilia reticulata</i> )	On hold until weather conditions warm up.		

#### Log of Treatment Applied for the Year 2022

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Treatments</u>
Mosquitofish	69.725 lbs	361.155 Acres	654

#### Fisheries Budget

<u>Total</u>	<u>Spent</u>	<u>Remaining</u>	<u>% Spent</u>
32,000.00	25,566.44	6,433.56	80%

The photo on the Right is the practice of counting Fish. One full scoop equals two pounds. One pound is equal to 400-450 fish

The photo below is an adult gravid female. Most average between 2- 5 centimeters and 1 - 3 grams.





# CONTROL OPERATIONS

## Monthly Report for the April 2022 Board Meeting

### Culex and West Nile Virus (WNV) Control

There continued to be no WNV detections in the month of March. Field Technicians are actively inspecting spring sources within their zones and responding to service requests.

### Yellowjacket Control

North Sacramento began trapping for Yellowjacket Queens with apple juice baited traps centered mostly around river corridors. To date, those traps have yielded over 500 queens trapped at the end of March. North Sacramento will continue Queen trapping through April and South Sacramento will begin Queen trapping in April.

### Invasive Aedes Control

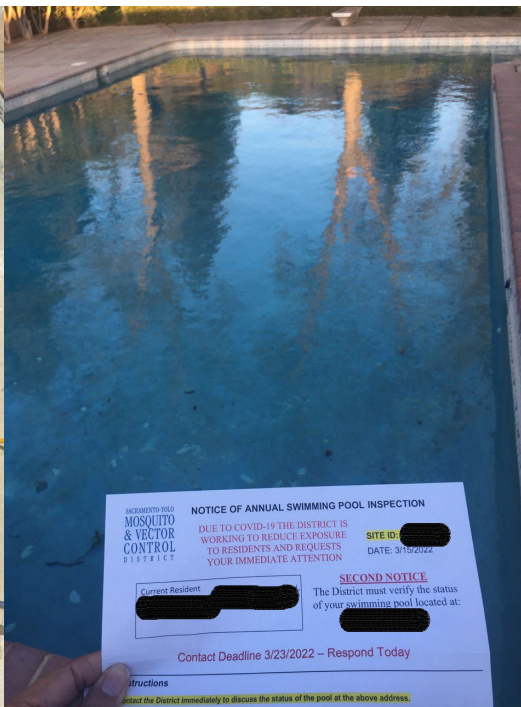
There were no invasive Aedes detected in any permanent trap areas in the month of March.

### Pool Program

The District's green pool program began sending mailers in February and the response from residents has been beneficial for the District in making contact with homeowners that have a green pool and updating pool sites that were green in the previous season that have now been turned blue and put back into use. (see pictures below)



Green Pool Text Response



Blue Pool Text Response





**PUBLIC INFORMATION AND EDUCATION**  
**Monthly Report for the April Board Meeting**

**Mosquito Awareness Week**

Mosquito Awareness Week (MAW) and the official launch of our public information and education campaign is April 17-23. The MVCAC Public Relations Committee developed an English and Spanish video to disseminate along with a daily social media theme that covers a range of topics including the 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. As part of the MAW kick off, the District will have an in studio media appearance on the ABC Channel 10 Your California Life morning segment. The District will also be participating in an Instagram Live segment with the San Gabriel Mosquito & Vector Control District. Other activities include delivering repellent to agencies that serve the homeless and announcing Fight the Bite contest winners.

**Advertising**

The 2022 advertising campaign will kick off during MAW and we will have commercials on English and Spanish radio stations to announce the beginning of the season. The general media campaign, which includes a wide mix of advertising, will 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.

**Government Affairs:**

As part of our government affairs and outreach to local elected officials, we have been reaching out to all city councils to set up our annual update and presentation given by Gary Goodman. Scheduled dates include:

April 13: Elk Grove  
April 18: Rancho Cordova  
April 19: Galt  
April 26: Folsom  
April 26: Sacramento County  
April 28: Citrus Heights  
May 03: Winters  
May 10: Davis  
May 24: Yolo County  
May 24: Isleton

Written reports were requested by the following cities: Sacramento, Woodland, and West Sacramento.

### **Fight the Bite Contest**

The deadline for the annual Fight the Bite Contest was on April 6<sup>th</sup>. Entries were sorted by grade levels and the winners will be selected soon. Winners will be announced during MAW. The three first place winners will receive a surprise visit in their classroom along with their framed artwork. All participants will receive a certificate and winning entries will be posted online. Many of the notable contest entries will also be featured on social media.

### **Canoemobile and Events:**

We recently participated in Canoemobile, a science program for children sponsored by the Cosumnes River Preserve and the Galt school district. We had an information table and we spoke to kids about the importance of preventing mosquitoes as the new season is almost here. It was a great event and we spoke to nearly 150 students over two days. Organizers were very pleased with our participation and said the students enjoyed learning how to fight the bite.

The regular community outreach and event season is upon us and we have received applications to return as sponsors for community events that we have attended in the past. Upcoming events include UC Davis Picnic Day and Youth Day in Winters.

### **Social Media**

Our social media efforts continue and content is focused on information regarding the upcoming MAW. 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.

### **2021 Annual Report:**

At the request of the board, extra copies of the 2021 annual report were printed and are currently being distributed to elected officials.

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

## **April 19, 2022 Board Meeting**

### **4. Board Review and Consideration of Prepayment to Farm Air for Aerial Larviciding Services**

#### **Staff Report:**

The District continues to use Farm Air Flying Services for its aerial larviciding needs. Farm Air has a strong history of being responsive to the District's needs and is a key factor to successfully suppressing both mosquito abundance and West Nile virus transmission in agricultural areas. In a typical year the District flies approximately 300 hours with Farm Air, at a \$435,000 cost. The current price of fuel will have a substantial impact on the cost of our aerial larvicide program, with the current cost of fuel increasing our hourly larviciding fees by 4% amounting to \$17,000 over the course of a season.

In an attempt to mitigate the rise in fuel prices District staff has engaged with Farm Air on creative ways to curb these increased costs. An option that has emerged from these discussions is for the District to pre-pay 138 hours of service, or \$200,000, and in exchange the District would get a 3% discount on all flights after the 138 hour mark is reached. This would save the District approximately \$7,000 this season based on typical larviciding work. District staff sees this as a good compromise as there is no escaping the rise in fuel costs and the negotiated fee is well below the \$435,000 that is typically paid to Farm Air over the course of the season.

#### **Recommendation:**

**Approve a \$200,000 payment to Farm Air so the District can receive a subsequent 3% discount on all flights**

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

## **April 19, 2022 Board Meeting**

5. **Closed Session- Provide Instruction to Designated Labor Representatives (Gov. Code s. 54957.6-Labor Negotiations)**  
**Agency Designated Representatives : [Gary Goodman, Shelley Eckler, Samer Elkashef, Kim Bogard]**  
**Employee Organization: [Operating Engineers Local Union #3]**