

Sacramento-Yolo
MOSQUITO & VECTOR
CONTROL DISTRICT

October 17, 2023

REGULAR MEETING
BOARD OF TRUSTEES

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
AND
704 West Main Street
Winters, CA 95694

**AGENDA
October 17, 2023
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.

CALL TO ORDER:

- **Roll Call**
- **Pledge of Allegiance**

1. Items for Approval by General Consent:

- a. Minutes of the September 19, 2023 Board of Trustees Meeting**
- b. Expenditures for September 2023**
- c. Annual Cooperative Agreement Between the California Department of Public Health and the Sacramento-Yolo Mosquito and Vector Control District**

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 Review and Consideration to Install Fencing Around Two Fish Ponds**
5. **Board/Staff Reports and Requests**
6. **Adjournment**

**MINUTES OF THE SEPTEMBER 19, 2023
MEETING OF THE BOARD OF TRUSTEES OF THE SACRAMENTO-
YOLO MOSQUITO & VECTOR CONTROL DISTRICT**

Location: Virtual Meeting via Zoom / 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 Marcia Mooney at 10:01 a.m.

Trustees Present:

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

Staff Present:

Gary Goodman	Manager
Jeni Buckman	Legal Counsel
Steve Ramos	Assistant Manager
Tony Hedley	Assistant Manager
Marty Scholl	Program Coordinator
Sarah Wheeler	Lab Director
Kevin Combo	Ecological Management Supervisor
Luz Robles	Public Information Officer

Roll Call

This meeting was both in person and by video teleconference. 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

On a motion by Trustee Craig Burnett and seconded by Trustee Sean Denny, the Board voted to approve the General Consent Items. The vote was taken by roll call and the motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 2

- a. Minutes of the August 14, 2023 Board of Trustees Meeting
- b. Expenditures for August 2023
- c. District Investment Report for Period Ending June 30, 2023
- d. Board Consideration of Resolution Honoring Tom Price for His Years of Service

2. Opportunity for Public Comment

This item is reserved for members of the public who wish to speak on items not on the agenda. None

3. Reports to the Board

Manager's Report:

The Manager discussed the state of West Nile virus activity and the new findings of Saint Louis Encephalitis in the mosquito population outside of Woodland. He also highlighted the increase in Anopheles mosquitoes as the rice begins to drain and harvest. He discussed the CalPERS valuations that were recently released and indicated that the return from our portfolio was less than CalPERS predicted and that our rates for FY 24-25 will increase. The audit is scheduled to begin in December due to the availability of our auditor.

Reports from District Departments: Written reports were provided in the Board packet from each department.

- Lab/Surveillance
- Ecological Management
- Biological Control
- Larval and Adult Control
- Public Outreach

Lab/Surveillance:

Lab Director Sarah Wheeler updated the board that the abundance of Culex tarsalis in Sacramento and Yolo counties has decreased to levels similar to the five-year mean. West Nile virus continues in both counties. Thus far, 6,599 pools of Culex tarsalis and Culex pipiens were collected and tested for West Nile (WNV), Saint Louis encephalitis (SLEV), and western equine encephalitis viruses (WEEV). As of 9/8/2023 there were 323 and 281 WNV-positive pools collected in Sacramento and Yolo Counties, respectively. Additionally, there were two pools of Culex tarsalis that tested positive for

SLEV. Thus far in 2023, 508 dead birds were collected and tested for WNV, SLEEV, and WEEV; 219 tested positive for WNV (Sacramento County-172; Yolo County-47). Sentinel chickens at Isleton, Knights Landing, and Dunnigan flocks have tested positive for WNV antibodies. Invasive Aedes surveillance for 2023 has found both Aedes aegypti (Carmichael, Elk Grove, Rancho Cordova, Sacramento, West Sacramento, and Winters) and Aedes albopictus (Carmichael and Sacramento). Surveillance for these invasive species is ongoing.

Ecological Management:

Ecological Management Department (ECO) supervisor Kevin Combo informed the Board on progress of two Best Management Practices (BMP) projects at Serra Wetlands (Elk Grove) and Cache Creek (Yolo County). Kevin explained that the Serra Project drained about 40-50 acres of wetland habitat that was flooded up due to beaver (Castor canadensis) activity. The Cache Creek basin vegetation control project allowed Control Operations technicians access and the ability to apply liquid larvicide in lieu of using residual granular products. Kevin gave a summary of the recent Yolo Basin Wildlife Area (YBWA) Fall Flooding meeting that discussed the proposed wetland flooding timelines and acreages. Kevin updated the Board on the current status of the Planning/Environmental Program. Ecological Management staff are focusing their efforts on some of the larger projects (The New Zoo, Bird Returns Program, Staten Island Wetland Project) that may affect mosquito control activities if not addressed in the preliminary planning stages of the projects.

Biological Control:

Ken Harris submitted a written report.

Larval and Adult Control:

Program Coordinator Marty Scholl reported the status of rice being grown in Yolo and Sacramento County. Marty provided an update on the fall flooding program treatments being performed by UAV and Farm Air flying services. Marty gave an update on the continued aerial adulticide treatments for both counties. Invasive aedes detections have been made in the areas of Rosemont, South Natomas, Winters, Land Park, Carmichael and recently in West Sacramento as well as the community of Anatolia. Aedes focused treatments are being performed in and around these areas.

Public Outreach:

During the Public Information and Outreach update Luz talked about the various news stories and media coverage obtained recently specifically about the recent WNV deaths and increase in cases. She also talked about the various events we will be part of in September, the advertising campaign which will continue thru October, keeping local elected officials informed of all of our District activities and a presentation to the Elk Grove Rotary Club.

4. Board Review and Consideration of New Accounting Software

Staff introduced the item highlighting the District's need to update our new accounting software to Quickbooks. The Board discussed the item and a motion was made by Trustee Denny and seconded by Trustee Karpinski-Costa to accept the staff's recommendation. The vote was taken by roll call and the motion passed by the following vote: Ayes: 12, Noes: 0, Absent: 1.

5. Board/Staff Reports and Requests / General Discussion

The Manager discussed the upcoming MVCAC meeting in January. He also highlighted the District's upcoming meeting with the City of Davis on better communication strategies when future aerial applications are needed. The Manager reminded the Board that the November meeting will be held on November 14th.

6. ADJOURNMENT

The meeting adjourned at 11:04 a.m.

I certify that the above minutes substantially reflect the general business and actions taken by the Board of Trustees at the September 19, 2023, meeting.

Gary Goodman, Manager

Approved as written and/or corrected by the Board of Trustees at the October 17th, 2023, meeting.

Charles Duty, Board Secretary

Check History Report
Sorted By Check Number
Activity From: 9/1/2023 to 9/30/2023

Sacramento Yolo MVCD (SYC)

Bank Code: U US Bank

Check Number	Check Date	Vendor Number	Name	Check Amount	Check Type
056969	9/1/2023	0000504	US Bank	31,382.44	Auto
056970	9/7/2023	0002428	Benefit Coordinators Corp.	9,630.60	Auto
056971	9/7/2023	0002653	Hanlees Davis Chevrolet	37,261.44	Auto
056972	9/7/2023	0000267	Kaiser Foundation Health Plan	50,391.33	Auto
056973	9/7/2023	0000957	Sutter Health Plus	9,191.86	Auto
056974	9/11/2023	0000013	Airgas USA LLC	89.08	Auto
056975	9/11/2023	0000026	ArcSource	1,063.25	Auto
056976	9/11/2023	0000006	Azelis - Adapco Inc	234,426.51	Auto
056977	9/11/2023	0002541	Barnes Welding	1,161.34	Auto
056978	9/11/2023	0001011	Buckmaster Office Solutions	230.05	Auto
056979	9/11/2023	0000117	City of Woodland	421.67	Auto
056980	9/11/2023	0000119	Clarke Mosquito Control Products Inc	136,095.98	Auto
056981	9/11/2023	0002608	Cleanit Maintenance Systems LLC	2,995.00	Auto
056982	9/11/2023	0000128	Consolidated Communications	2,234.39	Auto
056983	9/11/2023	0000181	Elk Grove Dodge	207.98	Auto
056984	9/11/2023	0000186	Elk Grove Water District	355.77	Auto
056985	9/11/2023	0000198	Factory Motor Parts Co	464.17	Auto
056986	9/11/2023	0000199	Farm Air Flying Service	154,612.21	Auto
056987	9/11/2023	0000202	Ferrellgas	25.56	Auto
056988	9/11/2023	0000958	GreatAmerica Financial Services	508.43	Auto
056989	9/11/2023	0002540	Hippensteel Group	3,083.75	Auto
056990	9/11/2023	0000240	Hunt & Sons Inc	17,112.48	Auto
056991	9/11/2023	0000285	Lazer Broadcasting Corporation	750.00	Auto
056992	9/11/2023	0000306	Maita Chevrolet	7,605.50	Auto
056993	9/11/2023	0000356	OReilly Automotive Stores Inc	1,398.64	Auto
056994	9/11/2023	0000562	RKL eSolutions, LLC	3,950.00	Auto
056995	9/11/2023	0002652	Sierra Striping Inc.	39,150.00	Auto
056996	9/11/2023	0000451	SMUD	5,311.45	Auto
056997	9/11/2023	0000475	Target Specialty Products	40,567.46	Auto
056998	9/11/2023	0002407	Valley Fire & Security	69.50	Auto
056999	9/11/2023	0000518	Vector Disease Control International	53,125.00	Auto
057000	9/11/2023	0000526	VWR International Inc	526.47	Auto
057001	9/12/2023	0000531	Western Health Advantage	6,453.14	Auto
057002	9/12/2023	0000531	Western Health Advantage	1,088.41	Auto
057003	9/14/2023	0000083	CA Department of Tax and Fee Administration	6,207.99	Auto
057004	9/18/2023	0002541	Barnes Welding	961.34	Auto
057005	9/21/2023	0000013	Airgas USA LLC	79.03	Auto
057006	9/21/2023	0000034	AutoZone Inc	2,395.23	Auto
057007	9/21/2023	0000006	Azelis - Adapco Inc	174,443.43	Auto
057008	9/21/2023	0002541	Barnes Welding	3,528.07	Auto
057009	9/21/2023	0000038	Bartkiewicz Kronick & Shanahan	690.00	Auto
057010	9/21/2023	0001011	Buckmaster Office Solutions	20.00	Auto
057011	9/21/2023	0001019	Cintas Corporation	3,652.35	Auto
057012	9/21/2023	0000119	Clarke Mosquito Control Products Inc	168,108.53	Auto
057013	9/21/2023	0000202	Ferrellgas	28.83	Auto
057014	9/21/2023	0002656	Fourlane	29,276.00	Auto
057015	9/21/2023	0000240	Hunt & Sons Inc	14,230.53	Auto
057016	9/21/2023	0000277	Kimball Midwest	43.81	Auto
057017	9/21/2023	0000308	Mann Urrutia Nelson CPAs & Assoc LLP	9,000.00	Auto
057018	9/21/2023	0000320	Mettler Toledo Rainin LLC	3,018.74	Auto
057019	9/21/2023	0000367	PG & E	15.27	Auto
057020	9/21/2023	0000418	Sacramento LaFCo	1,873.00	Auto
057021	9/21/2023	0000424	Safe Side Security	95.00	Auto
057022	9/21/2023	0000427	Safety Kleen Corp	122.65	Auto

Check History Report
Sorted By Check Number
Activity From: 9/1/2023 to 9/30/2023

Sacramento Yolo MVCD (SYC)

Bank Code: U US Bank

Check Number	Check Date	Vendor Number	Name	Check Amount	Check Type
057023	9/21/2023	0000448	Sigma-Aldrich Inc	1,055.39	Auto
057024	9/21/2023	0000461	Stericycle Inc	94.61	Auto
057025	9/21/2023	0000475	Target Specialty Products	580.13	Auto
057026	9/21/2023	0000515	Valley Tire Center	26.00	Auto
057027	9/21/2023	0000518	Vector Disease Control International	44,946.93	Auto
057028	9/21/2023	0000529	Waste Management	247.93	Auto
057029	9/27/2023	0000084	CA State Disbursement Unit	350.00	Auto
057030	9/27/2023	0000209	Franchise Tax Board Court Ordered Debt Collections	180.00	Auto
057031	9/27/2023	0001035	Operating Engineers Local Union No. 3	952.00	Auto
057032	9/27/2023	0002657	Awards Trophies and More	139.20	Auto
W00373	9/1/2023	0000339	Nationwide Retirement Solutions	3,925.00	Wire Transfer
W00374	9/1/2023	0000339	Nationwide Retirement Solutions	2,300.00	Wire Transfer
W00378	9/29/2023	0000176	EDD	20,557.28	Wire Transfer
W00379	9/29/2023	0000511	US Treasury Internal Revenue Service	79,293.13	Wire Transfer
W00380	9/29/2023	0000087	CalPERS Financial Reporting & Accounting Services	97,681.49	Wire Transfer
W00381	9/29/2023	0000086	CalPERS 457 Plan	17,481.84	Wire Transfer
W00382	9/29/2023	0000339	Nationwide Retirement Solutions	3,925.00	Wire Transfer
W00383	9/29/2023	0000339	Nationwide Retirement Solutions	2,300.00	Wire Transfer
Bank U Total:				<u>1,546,766.59</u>	
Report Total:				<u><u>1,546,766.59</u></u>	

I hereby authorize the use of my signature plate on the above-listed warrants, 056969-057032, and EFTs

Signature

Date

Marcia Mooney, President of the Board



TOMÁS J. ARAGÓN, M.D., Dr.P.H.
Director and State Public Health Officer

State of California—Health and Human Services Agency
California Department of Public Health



GAVIN NEWSOM
Governor

October 2, 2023

TO: Agencies Signatory to the Cooperative Agreement with the California Department of Public Health

SUBJECT: COOPERATIVE AGREEMENT WITH THE DEPARTMENT OF PUBLIC HEALTH

Please find enclosed a copy of the Cooperative Agreement between local agencies applying pesticides for public health purposes and the California Department of Public Health. The current Cooperative Agreement between our agencies shall expire on December 31, 2023. If your agency is interested in renewing this Cooperative Agreement for another year (through December 31, 2024), please return the enclosed form by December 31, 2023 to the Vector-Borne Disease Section (VBDS). Include the agency manager's signature in the appropriate space and the operator ID and/or license number to be listed on Monthly Summary Pesticide Use Reports (PR-ENF-060) for 2024. Please send to:

DEPARTMENT OF PUBLIC HEALTH
CDPH – Vector Borne Disease Section
850 Marina Bay Parkway
Richmond, CA 94804

If you prefer to email your signed agreement, please email Margaret Kerrigan:
MargaretC.Kerrigan@cdph.ca.gov.

VBDS will endorse the Cooperative Agreement and return a copy to your agency immediately. If your agency is not interested in continuing the Cooperative Agreement, please notify VBDS as soon as possible.

Thank you for your cooperation in this matter. If you require additional information or clarification, please contact your VBDS regional office or the Sacramento headquarters at (916) 552-9730.

Vicki L. Kramer, Ph.D., Chief
Vector-Borne Disease Section

Enclosure



COOPERATIVE AGREEMENT

(PURSUANT TO SECTION 116180, HEALTH AND SAFETY CODE)

Date _____

This Agreement between the California Department of Public Health and

(name and address of local vector control agency)

is effective on January 1, 2024 or on the subsequent date shown above, and expires December 31, 2024. It is subject to renewal by mutual consent thereafter.

Operator ID and/or license number to be listed on Monthly Summary Pesticide Use Reports (PR-ENF-060) for 2024:

Operator ID # _____ License # _____

This agreement may be canceled for cause by either party by giving 30 days advance notice in writing, setting forth the reasons for the termination.

Part I. Pesticides

The vector control agency named herein agrees:

1. To calibrate all application equipment using acceptable techniques before using, and to maintain calibration records for review by the County Agricultural Commissioner.
2. To seek the assistance of the County Agricultural Commissioner in the interpretation of pesticide labeling.
3. To maintain for at least two years for review by the County Agricultural Commissioner a record of each pesticide application showing the target vector, the specific location treated, the size of the source, the formulations and amount of pesticide used, the method and equipment used, the type of habitat treated, the date of the application, and the name of the applicator(s).
4. To submit to the County Agricultural Commissioner each month a Pesticide Use Report, on Department of Pesticide Regulation form PR-ENF-060. The report shall include the manufacturer and product name, the EPA registration number from the label, the amount of each pesticide used, the number of applications of each pesticide, and the total number of applications, per county, per month.
5. To report to the County Agricultural Commissioner and the California Department of Public Health, in a manner specified, any conspicuous or suspected adverse effects upon humans, domestic animals and other non-target organisms, or property from pesticide applications.
6. To require appropriate certification of its employees by the California Department of Public Health in order to verify their competence in using pesticides to control pest and vector organisms, and to maintain continuing education unit information for those employees participating in continuing education.
7. To be inspected by the County Agricultural Commissioner on a regular basis to ensure that local agency activities are in compliance with state laws and regulations relating to pesticide use.

Part II. Environmental Modification

The vector control agency named herein agrees:

To comply with requirements, as specified, of any general permit issued to the California Department of Public Health as the lead agency, pertaining to physical environmental modification to achieve pest and vector prevention.

For California Department of Public Health

For Local Agency

Vicki Kramer, Ph.D.
Chief, Vector-Borne Disease Section

Print Name and Title

Signature

Sacramento-Yolo Mosquito and Vector Control District

October 17, 2023 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 District's West Nile season is almost over. We typically only see a few positives throughout October and then will cease testing operations over the winter. Staff is following the Mosquito Borne Disease Management Plan to help respond to the remaining positive locations when the weather allows.

We are continuing to address the invasive species detections. All of our detections are being handled with increased surveillance, door to door inspections, and both larvicide and adulticide treatments where feasible. We anticipate that the behavior of the *Aedes aegypti* mosquito will slow down significantly as the weather cools.

Staff is working on a front office remodel with new work spaces and a better use of the footprint in the administration building.

The District is working with our benefit broker, Alliant, on open enrollment healthcare rates.

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)**

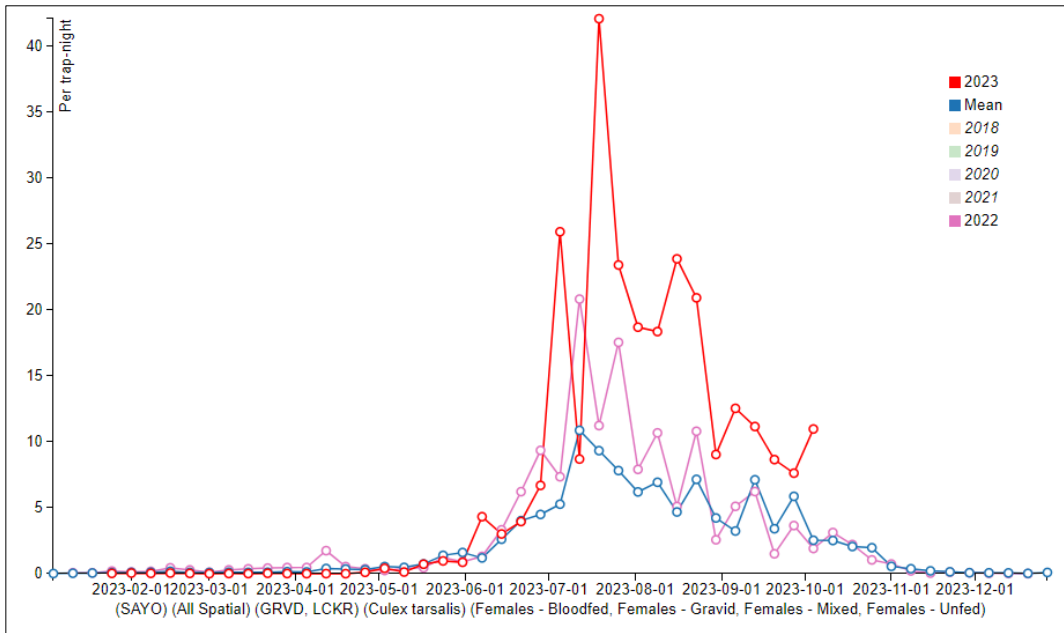
LABORATORY Monthly Report October 2023 Board Meeting

Insectary:

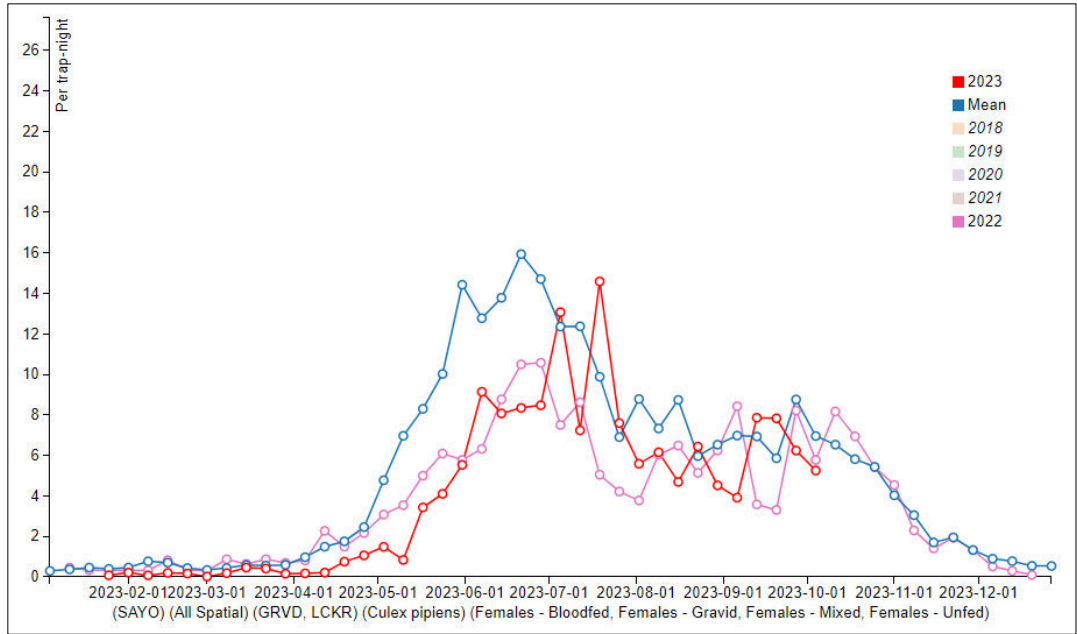
Species	Name	Origin	Resistance Status
<i>Culex tarsalis</i>	KNWR	Kern National Wildlife Refuge (2009)	susceptible
<i>Culex quinquefasciatus</i>	CQ1	Merced, CA (1950s)	susceptible
<i>Culex pipiens</i>	WCP	Woodland, CA (2017)	resistant: pyrethrins/pyrethroids, methoprene, and spinosad
<i>Culex tarsalis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

2023 Surveillance update through 10/6/2023

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.

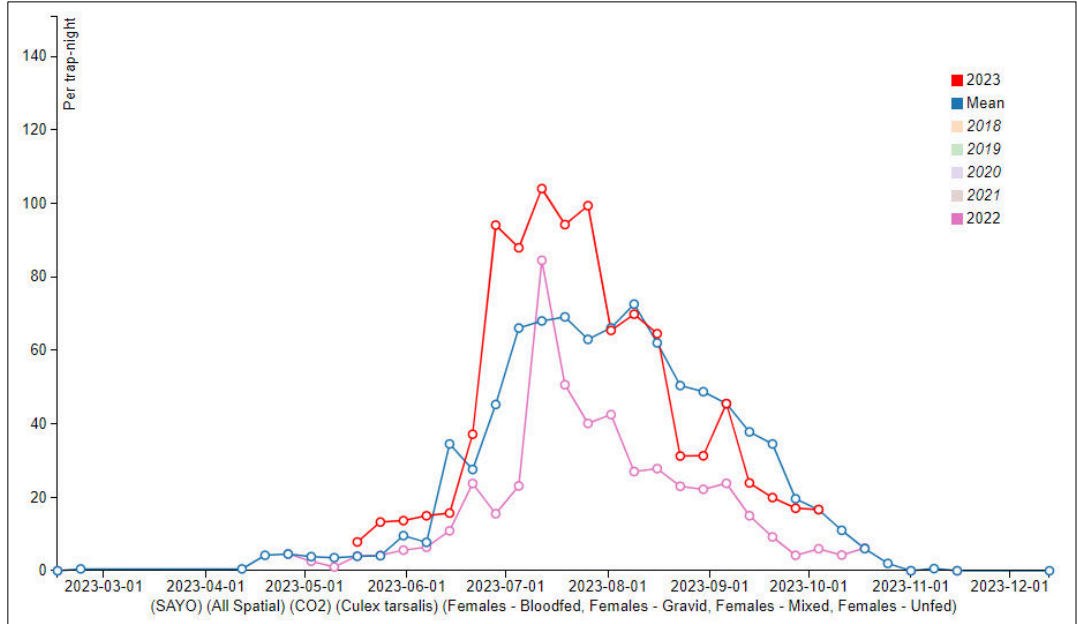


Weekly *Culex tarsalis* abundance traps in locker and gravid traps.

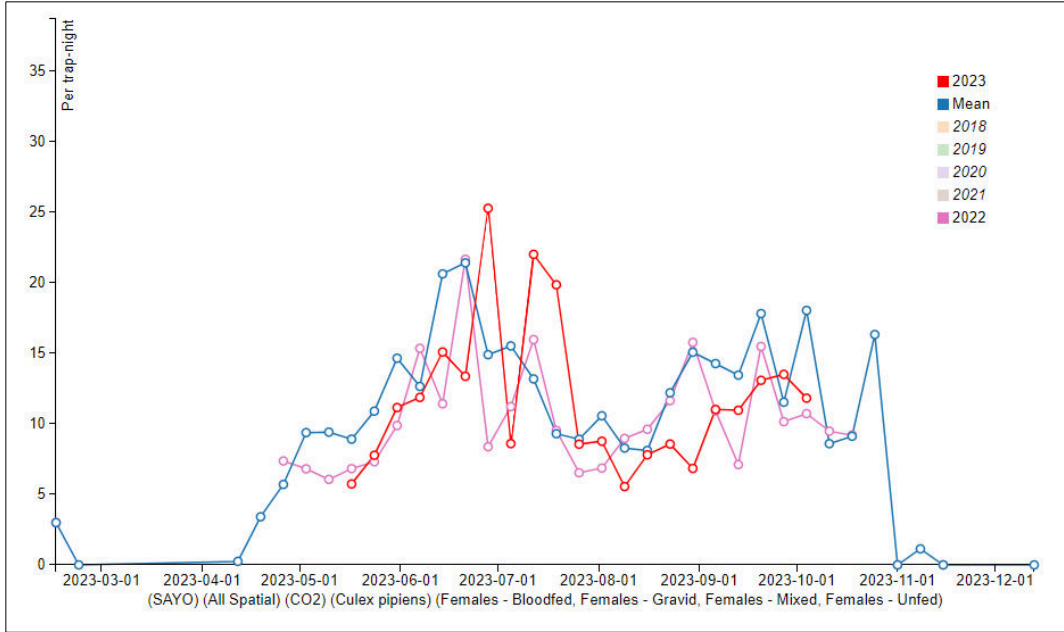


Weekly *Culex pipiens* abundance traps in locker and gravid traps.

Encephalitis Vector Surveillance (EVS) – The following graphs show the number of *Culex tarsalis* and *Culex pipiens* that were collected in CO₂-baited EVS traps that were set in established and response locations throughout Sacramento and Yolo Counties. *Culex tarsalis* and *Culex pipiens* were tested for West Nile (WNV), western equine encephalitis (WEEV), and Saint Louis encephalitis viruses (SLEV).

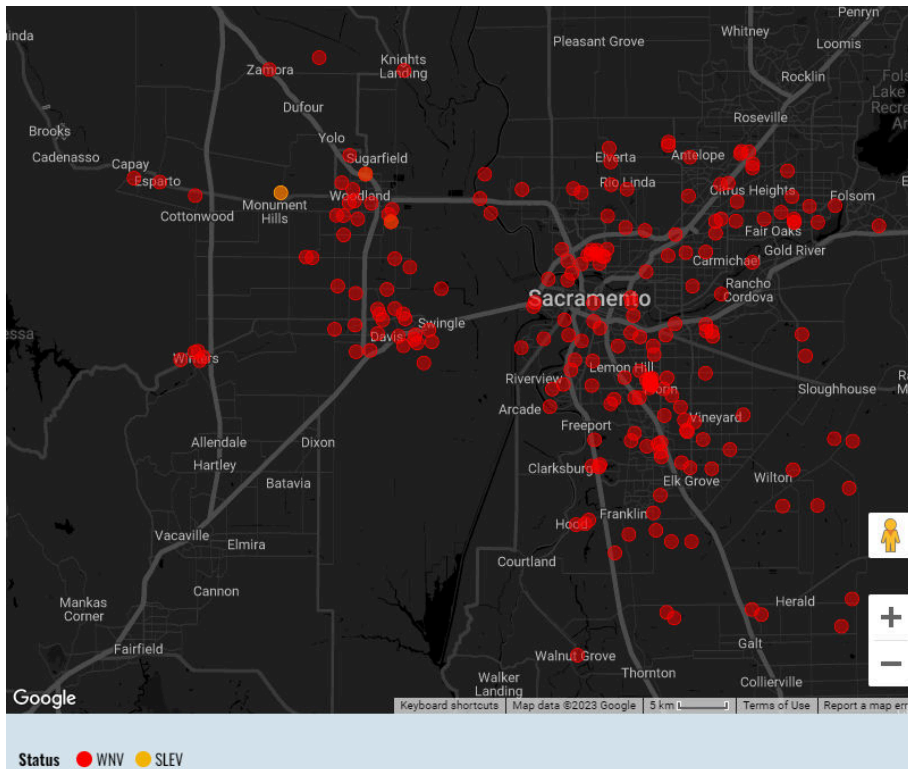


Female *Culex tarsalis* collected in EVS traps



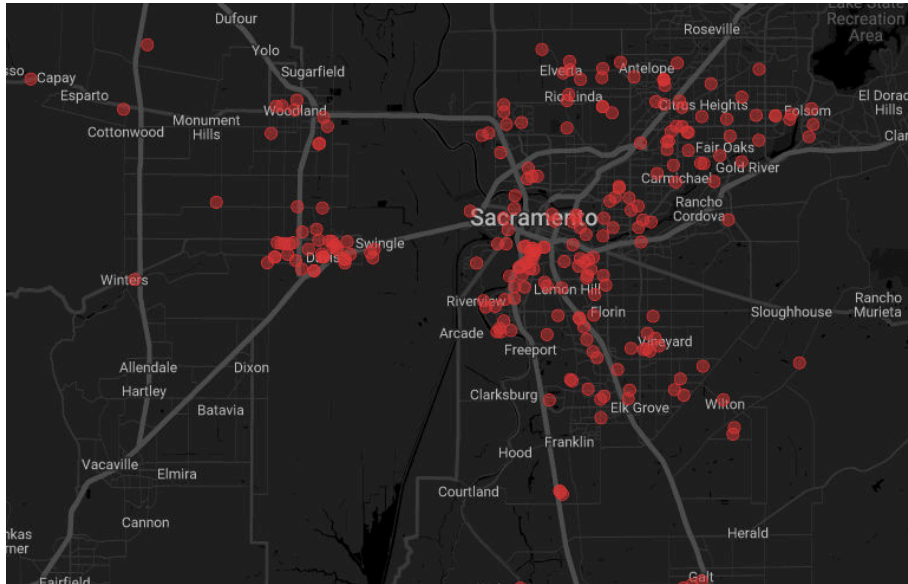
Female *Culex pipiens* collected in EVS traps

Mosquito-borne virus testing – Thus far 7,571 pools of *Culex tarsalis* and *Culex pipiens* were tested for WNV, WEEV, and SLEV. Of the tested pools there were 340 and 292 WNV-positive pools collected in Sacramento and Yolo Counties, respectively. Additionally, 3 pools of *Culex tarsalis* from Yolo County were positive for SLEV.



2023 positive pool collection locations

Dead birds – To date, 564 dead birds were collected and tested for WNV, SLEEV, and WEEV. Overall, 251 birds tested positive for WNV (Sacramento County: 190, Yolo County: 61).



2023 WNV-positive dead bird collection locations

Sentinel chickens – Sentinel chickens were deployed to five sites in Sacramento (Isleton, Sacramento, and Rancho Murieta) and Yolo (Dunnigan and Knight’s Landing) counties. Testing results are below.

Flock location	County	Flock size	WNV seroconversions	Date of first seroconversion
Isleton	Sacramento	5	5	8/3/2023
Sacramento	Sacramento	5	0	
Rancho Murieta	Sacramento	5	2	9/28/2023
Knights Landing	Yolo	5	4	8/14/2023
Dunnigan	Yolo	5	4	7/31/2023

Rice Surveillance – Rice field Counter traps were deployed to Conaway, Vic Fazio, Winters, Natomas, and District 108 rice fields. These traps provide real-time mosquito abundance data, allowing for remote monitoring of rice field mosquito populations. Most rice fields are now in the process of draining. Couter traps will be collected for the season by the end of October.

Human disease response surveillance –As of 10/6/2023 there were 19 confirmed human cases of WNV in Sacramento County, and 16 cases in Yolo County. Since the last report there was also a single human case of chikungunya reported in Sacramento County.

Tick surveillance – Tick surveillance is complete for the spring 2023 season and will resume in November 2023.

***Aedes aegypti* trapping effort in Sacramento and Yolo Counties** – Surveillance for *Aedes aegypti* and *Aedes albopictus* continues, the program is focused both on monitoring known populations and identifying emerging areas of activity. Both species are active in Sacramento County. The following table shows the cumulative 2023 trapping effort and detections of *Aedes aegypti* and *Aedes albopictus* in Sacramento and Yolo Counties. During September *Aedes aegypti* was detected in two new areas, Rancho Murieta and Sloughhouse. Surveillance for these two invasive species will continue through October.

City	County	Trap nights	Total males and females collected	
			<i>Aedes aegypti</i>	<i>Aedes albopictus</i>
Antelope	Sacramento	8		
Carmichael	Sacramento	81	2	36
Citrus Heights	Sacramento	83		
Elk Grove	Sacramento	107	56	
Elverta	Sacramento	7		
Fair Oaks	Sacramento	27		
Folsom	Sacramento	70		
Galt	Sacramento	30		
Gold River	Sacramento	8		
Mather	Sacramento	2		
North Highlands	Sacramento	7		
Orangevale	Sacramento	17		
Rancho Cordova	Sacramento	47	1	
Rancho Murieta	Sacramento	68	19	
Rio Linda	Sacramento	34	2	
Sacramento	Sacramento	910	1508	22
Sloughhouse	Sacramento	68	9	
Davis	Yolo	46		
West Sacramento	Yolo	79	174	
Winters	Yolo	234	113	
Woodland	Yolo	54		

The California Arbovirus Surveillance Bulletin #26 Week 40 Friday, October 6, 2023

2022 & 2023 YTD West Nile Virus Comparisons		
	2022	2023
Total No. Dead Bird Reports	4,262	5,883
No. Positive Counties	32	41
No. Human Cases	90	205
No. Positive Dead Birds / No. Tested	173 / 1,165	743 / 1,764
No. Positive Mosquito Pools / No. Tested	2,987 / 35,648	4,223 / 47,331
No. Seroconversions / No. Tested	127 / 4,547	167 / 3,226

YTD WNV Activity by Element and County, 2023					
County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			62	15	3
Butte	17	1	2	69	32
Calaveras					3
Colusa	1		2	2	5
Contra Costa	2		61	18	7
El Dorado	2		4		
Fresno	5	2	1	225	
Glenn	4			1	
Imperial				3	
Inyo				2	
Kern	4	2		103	
Kings	6	1		66	
Lake	4		7	25	
Los Angeles	18		36	475	19
Madera	4	1	1	207	
Marin	1		2		
Merced	8	2		43	22
Napa		1	3	7	
Nevada	1		1		2
Orange	2	1		144	
Placer	5	1	43	177	
Riverside	10	1	64	130	
Sacramento	19	3	190	340	5
San Benito			1		4
San Bernardino	15	1	11	149	
San Diego			7	1	
San Joaquin	12	2	20	601	
San Luis Obispo		2	1		
San Mateo			8		
Santa Clara	1	1	98	16	
Shasta	5		2	151	5
Siskiyou		1			
Solano	4		17	24	11
Sonoma			13	3	
Stanislaus	14	2	6	292	
Sutter	5		6	66	19
Tehama					4
Tulare	15	1	5	550	10
Ventura			4		
Yolo	16		65	292	9
Yuba	5	1		26	7
Totals	205	27	743	4,223	167

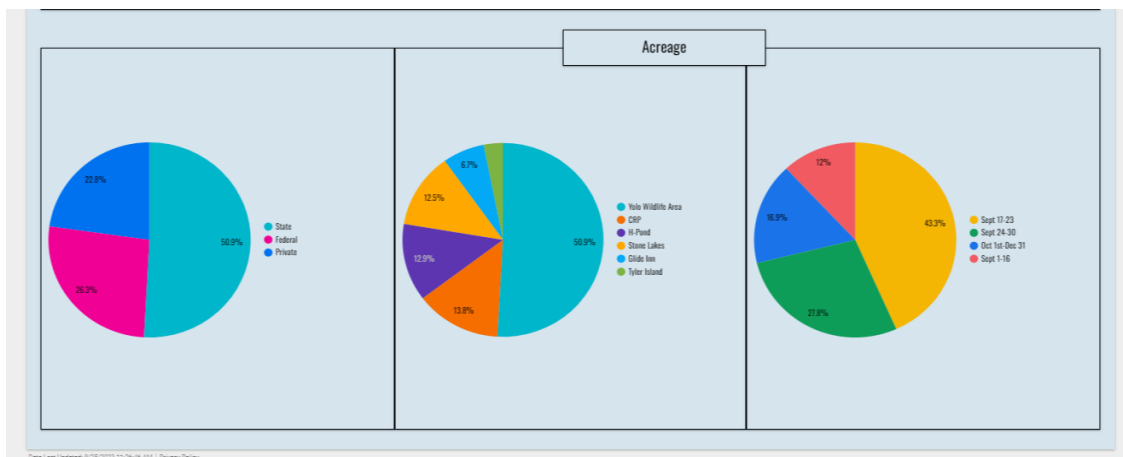
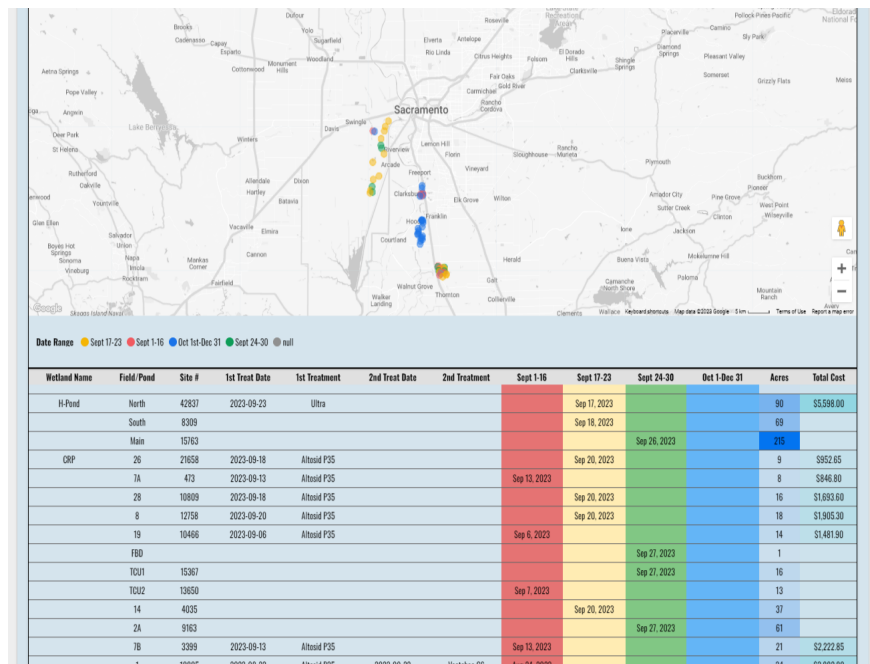
*Asymptomatic human infections are not included.

ECOLOGICAL MANAGEMENT DEPARTMENT

October 2023 Board Update

Overview

Ecological Management staff in coordination with Ryan Wagner developed a new desktop feature that will allow staff to see the status of the Fall Flooding Program. This program will illustrate which entities are flooding up particular ponds, the acreage of the ponds, estimated material to be used and the projected cost of the treatment. This program will also display the potential cost sharing for those wetland managers that flood their fields early so that information can be conveyed to them prior to flooding. This will be a valuable tool in making treatment plans when future Fall Flooding schedules are submitted to the District.



In September/October, Ecological Management staff supplemented the Control Operations Department in Zone 42 and Fisheries staff with pond cleaning projects as both Depts. are presently short of staff.

Ecological Management Projects

Pirates's Lair Marina (South Sacramento County)

Pirate's Lair Marina is located in south Sacramento County along the Mokelumne River. The marina is also a 50 parcel small residential community adjacent to a 15 acre organic property. Every mosquito season residents of the marina submit multiple Service Requests for adult mosquito populations. It was discovered that behind the marina several overgrown ditches were found to be breeding sites for *Aedes* and *Culex* species of mosquitoes. Staff utilized the track loader and the backhoe to expose and remove emergent vegetation from 2841' of drain ditches. This will allow access for Control Operations staff to effectively treat the drain ditches and reduce the mosquito populations in the area, in turn reducing the number of Service Requests submitted by patrons and residents of the marina.



Laguna Del Sol (Wilton)

Laguna Del Sol is an RV resort located in the rural town of Wilton. Next to the resort is a series of low areas that is the natural drainage for stormwater effluent. In the spring, the low areas are full of winter stormwater and begin to start breeding immature larvae. The dense vegetation coupled with deadfall and debris make the area hazardous and difficult for Control Operations staff to safely conduct surveillance and treatments. Ecological Management staff in cooperation

with Laguna Del Sol maintenance personnel used the track loader to remove the deadfall and vegetation giving Control Operations staff safe access to conduct mosquito control activities.



Agricultural Program

October typically signifies the end of the summer growing season. In the fall, the majority of the crops that are prevalent in Sacramento and Yolo Counties such as corn, rice, and tomatoes are being harvested. With low nighttime temperatures, farmers that typically irrigate pastures, alfalfa and clover have all but stopped irrigations as the crops are not growing with the mild temperatures. Historically, this time of year, staff notice an increase in the abundance of *Culex pipien* mosquito populations in and around dairies as the mosquitoes are making their last push for a blood meal before entering diapause. Ecological Management staff continue to coordinate with local dairy farmers on implementing Mosquito Reducing Best Management Practices to reduce mosquito populations and make chemical control more efficient and effective.



Cemeteries

Staff have completed all inspections and treatments of cemeteries within the District. In September/October, staff focused their efforts around recent West Nile Virus (WNV) activity in the cemeteries located in Woodland and Davis, Yolo County. To date, staff have treated approximately 18,741 cemetery vases in 21 different cemeteries. Staff continue to monitor the cemetery vase trial. The goal of the trial is to observe the efficacy of Sumilarv .05g (Pyriproxifen) in cemetery vases. Initial results indicate that approximately 8 weeks of control with about 98% mortality has been observed. Staff will continue to monitor to see at what length of time it starts to notice failure in the product.



Image: PAMCA representative treating cemetery vases with Watersorb

BIOLOGICAL CONTROL

Monthly Report for October 2023 Board Meeting

In September, the Fisheries Department provided 13.9 pounds of mosquitofish for use by field technicians. To date, we've distributed a total of 2,583 pounds of mosquitofish, covering 13,098 acres. These numbers are consistent with previous years and are expected to increase as we approach the fall flood-up season. We anticipate that a majority of duck clubs and wetlands will become available for fish planting early in October. However, this is contingent upon the environment and water quality, factors that our field personnel monitor on a regular basis. Our department continued with our pond cleaning and maintenance schedule. Currently, one pond has been completed and is in the process of being refilled and restocked with mosquitofish. We have plans to complete two more ponds in the month of October. Furthermore, our fisheries technicians worked with Urban Operations, assisting with invasive Aedes trapping, inspections, and treatments. Daily activities such as water quality testing and tank cleaning were continued to maintain high-quality fish. The Fisheries Department also collaborated closely with the shop to ensure all our equipment and small engines were maintained and serviced according to schedule.

Log of Treatment Applied for September

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Treatments</u>
Mosquitofish (<i>Gambusia affinis</i>)	13.95 lbs	17.621 Acres	128
Guppies (<i>Poecilia reticulata</i>)	.2 lbs	.009 Acres	1

Log of Treatment Applied for the year 2023

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Treatments</u>
Mosquitofish	2583.7 lbs	13080.5 Acres	2784
Guppies	.555 lbs	.037 Acres	7

Fisheries Budget

<u>Total</u>	<u>Spent</u>	<u>Remaining</u>	<u>% Spent</u>
41,000.00	9,460.16	31,539.84	23%



Left: Pond spoils being removed by dump truck.



Right: Pond being fertilized and refilled with water. Net replaced.

CONTROL OPERATIONS

Monthly Report for October 2023 Board Meeting

Culex and West Nile Virus (WNV) Control

While the weather has started to turn cooler, Control Operations continue to respond to West Nile virus positive locations, service requests, and known breeding sites with appropriate control methods. The rice growing season has come to an abrupt halt over the last few weeks, with most rice fields being drained by mid September, giving way to the start of Fall Flooding. Field Technicians have been looking at flooded habitat fields and have scheduled aerial treatments as appropriate.

Aerial Applications

The District continues to perform aerial adulticide applications over rice growing and wetland habitats areas of both Sacramento and Yolo Counties on an as needed basis. The cooler temperatures coupled with most rice fields being drained has begun to diminish aerial application frequencies as the mosquito season begins to wind down.

Seasonally fall flooded wetlands, recreational habitats, and remaining flooded rice fields have been and will continue to be treated with larvicides by the District contractors, using UAS and conventional aircraft.

Yellow Jacket Control

Sacramento Control Operations have been treating high population areas of yellow jackets around residential homes and trails with around two hundred nests treated this fall to date.



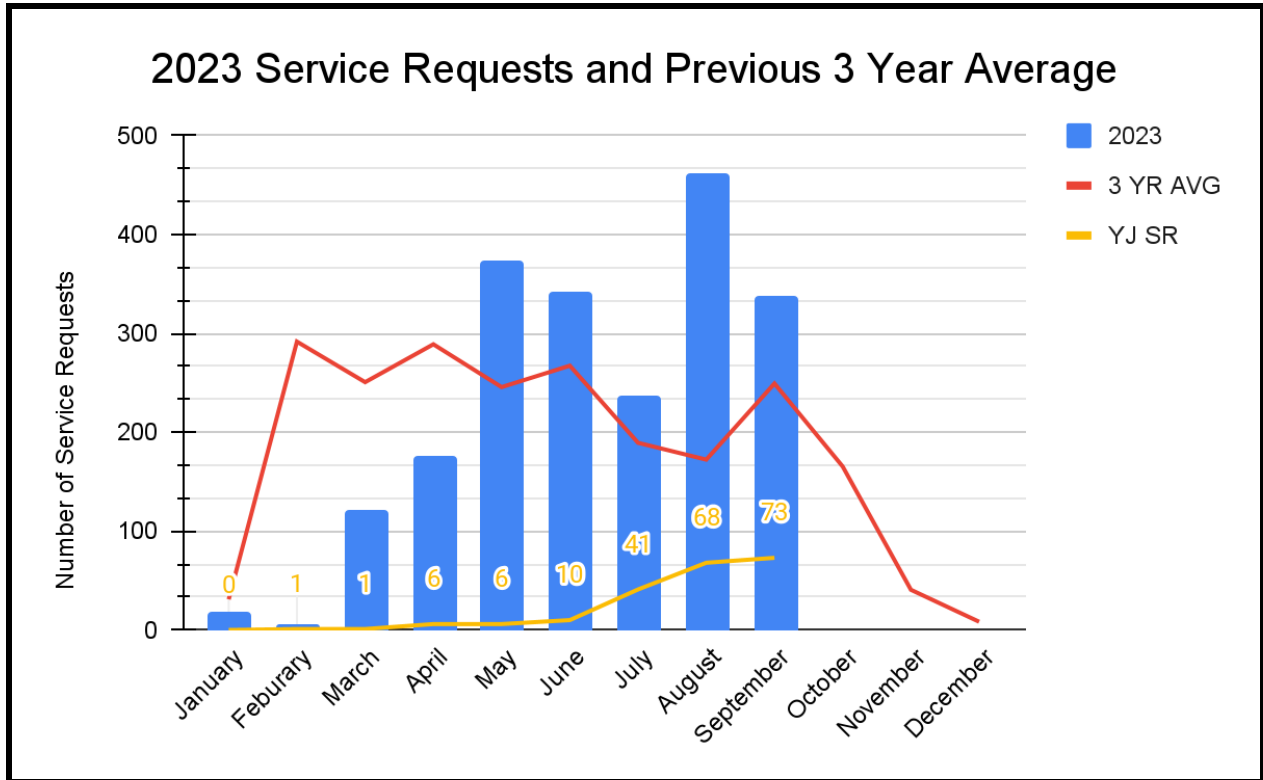
Invasive Aedes Control

Invasive Aedes continue to be found as the season progresses. One new detection area was found in Rancho Murieta and an additional previously known location but new for this season in Rio Linda. Staff perform backyard adult and larval control where detections are found. Wide Area Larviciding (WALS) treatments will continue to be performed in areas in the early morning hours where adult trap populations continue to rise until overnight temperatures prevent adult emergence or they are no longer detected.

Field Trials

One last efficacy trial was conducted at the end of September to quantify the effectiveness of the District's most commonly used ground based ULV adulticides. UAS units were utilized for trial design, documentation, and wind speed verification.





Larvicide Applications thru September 30 th				
Locations/Roles	2023		2022	
	Treatments	Acres	Treatments	Acres
Sacramento County		14,225	6,901	13,556
Sac County Aerial		27,893	24	19,295
Sac County Drone Treatments	14	1,403.23	39	1,699
Yolo County		2,600	1,254	4,385
Yolo County Aerial		134,744	41	74,970
Yolo County Drone Treatments	9	1,137.11	14	1,560
CB Treated	113,622	--	88,355	--
CB Inspected -not treated	99,933	--	130,309	--

Aerial Adulticide Summary thru September 30th				
	<u>2023</u>		<u>2022</u>	
<u>County</u>	<u># Applications</u>	<u>Acres</u>	<u># Applications</u>	<u>Acres</u>
Sacramento Ag	17	119,219	21	146,574
Sacramento Urban	0	0	0	0
Yolo Ag	88	559,224	52	313,186
Yolo Urban	4	46,584	0	0

Totals

Adulticide Summary through September 30, 2023

Compared to: 2022

Contract Acres (our portion) =	530,000	530,000
Acres used =	725,026	459,760
Acres remaining =	(-195,026)	(70,240)
% Acres used =	136%	86%
% Acres remaining =	0%	14%

San Joaquin County MVCD has used 218,519 acres of their 190,000 acre contract commitment.

Placer MVCD has used 125,801 acres of their 100,000 acre commitment.

Turlock MAD has used 176,351 acres of their 180,000 acre commitment.

Merced MAD had used 63,414 acres of their 75,000 acre commitment.

PUBLIC INFORMATION AND EDUCATION
Monthly Report for the October 2023 Board Meeting

Events:

October has become a very busy month for events especially this year with the intense West Nile virus season and ongoing detections of invasive Aedes. Events will continue until the end of the month when the season traditionally ends and the weather cools down significantly. One of the largest events we have attended this month is the Giant Pumpkin Festival in Elk Grove. This is a very popular community event that draws huge crowds and is one of our most successful events. Recently we also attended the 14th Annual Rosemont Community Celebration which was very diverse and many people stopped by the booth to ask about invasive mosquitoes and the mosquito control work in their neighborhood. We were glad to be there to answer questions and encourage signing up for email notifications. In response to the intense WNV this season and questions from Davis residents and local elected officials, we will be hosting a table at an upcoming Farmers Market in partnership with the city.

October events:

October 7- 8: Elk Grove Giant Pumpkin Festival
October 8: Effie Yaw Nature Fest
October 14: Folsom Family Expo
October 14: Winters Public Safety Festival
October 21: Davis Farmers Market
October 30: Natomas Autumn Festival

Advertising Campaign

The advertising campaign will come to an end towards the end of the month and we will begin evaluating the 2023 advertising buy with our media consultant Luken Benjamin. In addition, we are having preliminary meetings with advertising representatives from various media outlets to review the campaign and begin discussing ideas for next year.

Repellent and Materials Distribution:

We continue to receive requests for materials and repellent from community organizations. Most recently we donated items to a 5K run sponsored by a non-profit organization called My Sister's House which seeks to eliminate domestic violence in the Asian and Pacific Islander community. Repellent and materials were also provided a Land Park soccer club, Fog Willow Farms for their pumpkin patch attendee's and the Sacramento airport.

Social media

Our social media efforts continue and to date we have 14,029 followers on Facebook. Content is focused on ongoing mosquito prevention despite the cooler temperatures, invasive mosquitoes, promotion of media coverage and other mosquito related stories.

Government affairs:

As part of our ongoing detection of invasive mosquitoes as well as WNV activity, we continue to keep local elected officials informed by sending them email updates with our findings and response activities as needed.

Presentations:

Classroom presentations are back and this month I gave 4 presentations at 2 different schools. Children were excited to learn about the mosquito lifecycle, mosquito predators and look alikes. In addition, they enjoyed the bug box with various insects and receiving activity books to continue learning. A presentation will also be given to the Sacramento Master Gardner's and to staff at the Effie Yaw Nature Center.

MVCAC Public Relations Committee

As part of the PR Committee standing charges, I continue to be involved in a variety of projects including updating the MVCAC website with all materials and resources produced by the committee, reviewing Spanish language materials, and enhancing a photography database that includes high resolution and quality photos of mosquitoes, field technicians at work, mosquito breeding sources and other photos to be used for materials and social media by all member districts.

Sacramento-Yolo Mosquito and Vector Control District

October 17, 2023 Board Meeting

4. Board Review and Consideration to Fence Two Ponds

Staff Report:

The District is actively researching ways to produce more mosquitofish (*Gambusia affinis*) on the Elk Grove property. The District currently has 12 fenced ponds that help prevent predators from accessing the fish and reducing our yield. Staff would like to add two additional fenced ponds this year. A fenced pond typically produces an average yield of 250 lbs of fish, while an unfenced pond yield is 175 lbs on average. The cost is approximately \$100 per pound.

The District sought out quotes and interviewed contractors to perform the work which would include installing high strength poles and fencing on two ponds. A summary of the quotes for the services is below and the quotes are attached for your reference. The quotes were all given with the provisions of prevailing wages.

S & S Fence Company Inc.	\$78,600
Stockton Fence & Material Co.	\$96,960
Benson Fence Corp.	\$98,315

Recommendation:

Authorize the Manager to engage in a contract with S&S Fence Company Inc. to perform the pond fencing installation not to exceed \$100,000.

CONTRACT NUMBER

Project Name & Address:
Name Sac Yolo Mosquito and Vector Phone 916 405-2065
Street 3631 Bond Rd.
City Eik Grove State CA Zip 95624

S & S Fence Company Inc.
fencing-contractors.com
7448 Reese Road
Contractor License #910283 Sacramento, California 95828
Insured • Bonded 916-882-1100 / FAX 916-682-4433

Total Length	Total Height	Fabric Gauge	Diam. Term. Posts	Diam. Gate Posts	Diam. Line Post	Top Rail	Bracing	Barb/Raz	Line Post Spacing	Set Instr.
1788' + gates	6'	11ga KK CL	2 7/8 Sch 40	4" Sch 40 2 7/8 Sch 40	2 7/8 Sch 40	2 1/2 coll top + bot	Box 1 5/8	—	10'	3'

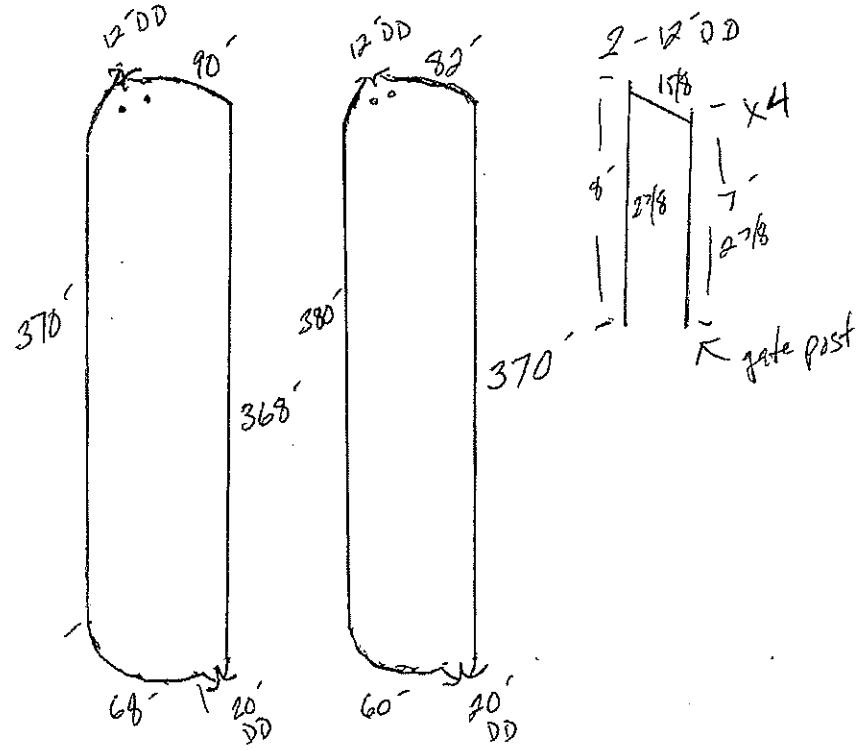
- Prevailing Wage
- Pre Lien
- Water / Electrical Avail.
- Needs USA Called
- Meet Cust. At Site
- Corners Marked
- Obstructions Marked
- Haul Off Dirt
- Salvage

Billing Name _____ Billing Address _____

Comments: _____

Gates/Locks/Hold Backs:
2-12' DD
2-20' DD

Diagram: NO 21085



***Progress Payments May Be Required**

We hereby propose to furnish labor and materials - complete in accordance with the above specifications, for the sum of: _____ dollars (\$ 78,600), with payment to be made as follows: _____

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs, will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accident or delays beyond our control. This proposal subject to acceptance within _____ days and is void thereafter at the option of the undersigned. Terms of invoices are net 30 days. All bills not paid within 30 days will incur a 1.5% late charge. *If contract is not paid in full within 30 days property is subject to lien.

Date of Proposal 9/14/23 Authorized Signature Paul S. [Signature]

ACCEPTANCE OF PROPOSAL

The above prices, specifications, payment terms and conditions are hereby accepted. S & S Fence Company is authorized to perform the work as described above. Upon acceptance of proposal, please sign and return white copy.

Signature _____ Date _____
Accepted this _____ day of _____

****Customer Please Note**** It is the responsibility of the customer to clearly mark sprinkler lines. Broken sprinkler lines not marked will be repaired at the expense of the customer. S & S Fencing will exercise caution to those areas marked.

Contractors are required by law to be licensed and regulated by the Contractor's State License Board. Any questions concerning a contractor may be referred to the registrar of the board whose address is: Contractors State License Board 1020 N. Street, Sacramento, California 95814

~CHAIN LINK ~ ORNAMENTAL IRON ~ VINYL~AG FENCE~ CUSTOM GATES ~ DOG KENNELS ~ GATE OPERATORS ~ BOLLARDS~

PROPOSAL AND CONTRACT

Stockton Fence & Material Co.

2007 N. Wilson Way ~ P.O. Box 8314, Stockton, CA 95208 PHONE (209) 466-3166 FAX (209) 466-5202
State Contractor's Lic. No. 393334 ~ Expires 08.31.24 ~ (C13, C61/D28) ~ DIR 1000002543

Date: 10.04.2023

Name: Kenneth Harris @ Sacramento Yolo Mosquito & Vector Control District

Mailing/Billing Address: 8631 Bond Road, Elk Grove, CA 95624

Job Address: 8631 Bond Road, Elk Grove, CA 95624

The undersigned agrees to furnish and provide necessary labor, materials, tools, implements, and appliances to do, perform and complete in a good workmanlike manner the following:

To furnish and install approx. 1,806 lf of 6' high chain link fence with two 12' double drive gate (with extra posts/brace to match existing), and two 20' double drive gates.
Specifications: 11 ga, 6' high chain link fabric, 1 5/8" sch 40 braces, 4" sch 40 gate posts (20' double gates), 2 7/8" sch 40 gate, terminal, and line posts, 7 ga top & bottom tension wire.
All posts to be set 12"x36" in concrete.

All the above work to be completed for the sum of ninety-six thousand nine hundred sixty dollars and no cents.
\$96,960.00

Any alterations or deviation from the above, involving extra cost of material or labor, will be executed only on written orders for same and will become an extra charge over the sum mentioned above. All agreements must be in writing. In the event that it becomes necessary to institute suit or to employ an attorney in connection with any provisions of this agreement, the prevailing party shall be paid such sum as the court adjudge as reasonable attorney's fees. Interest at the standard prevailing rate shall be charged on all overdue balances. All warranty work does not include labor.

Terms of payment shall be as follows: **Balance Due Upon Completion**

This proposal is void if not accepted within 7 days.

Owner responsible for location of property line, permits, underground lines and cables.

No removal included in quotation, unless noted.

Respectfully submitted,
By: AMANDA COMBIE

ACCEPTANCE

You hereby authorize Stockton Fence to furnish all materials and labor required to complete the work mentioned in the above proposal for which Sacramento Yolo Mosquito & Vector Control District agrees to pay the amount mentioned in said proposal and in accordance with the terms thereof.

ACCEPTED AND AUTHORIZED BY

Date: _____ Signed: _____

Property Owner: _____ Lender: _____

(If any)

NOTICE TO OWNER

NOTICE TO OWNER PROVIDED IN ACCORDANCE WITH SECTION 7018.5 OF THE BUSINESS AND PROFESSIONS CODE

Under the California Mechanics' Lien Law, any contractor, subcontractor, laborer, supplier, or other person or entity who helps to improve your property, but is not paid for his or her work or supplies, has a right to place a lien on your home, land, or property where the work was performed and to sue you in court to obtain payment. This means that after a court hearing, your home, land, and property could be sold by a court officer and the proceeds of the sale used to satisfy what you owe. This can happen even if you have paid your contractor in full if the contractor's subcontractors, laborers, or suppliers remain unpaid. To preserve their rights to file a claim or lien against your property, certain claimants such as subcontractors or material suppliers are each required to provide you with a document called a "Preliminary Notice." Contractors and laborers who contract with owners directly do not have to provide such notice since you are aware of their existence as an owner. A preliminary notice is not a lien against your property. Its purpose is to notify you of persons or entities that may have a right to file a lien against your property if they are not paid. In order to perfect their lien rights, a contractor, subcontractor, supplier, or laborer must file a mechanics' lien with the county recorder which then becomes a recorded lien against your property. Generally, the maximum time allowed for filing a mechanics' lien against your property is 90 days after substantial completion of your project.



Residential - Commercial - Industrial

2800 - 47th Avenue • Sacramento, California 95822 • Phone (916) 428-9292 • Fax (916) 428-9293

PROPOSAL SUBMITTED TO: kharris@fightthebite.net		PHONE: 916-240-0537	DATE: 9/22/23
NAME: Sacramento - Yolo Mosquito & Vector Control		JOB NAME: Chain Link Fence Installation	
STREET: 8631 Bond Road		STREET:	
CITY: Elk Grove		CITY:	STATE:
STATE: CA. 95624		ARCHITECT:	DATE OF PLANS:

We hereby submit specifications and estimates for:

Furnish and install approximately 950 linear feet of 6 ft tall chain link fencing at two separate ponds (1900 ft +/- total) including one 20 ft and one 12 ft double swing gate (at two separate ponds) for the total price of \$98,315.00. Posts at 12 ft double swing gates will have taller hinge posts and two posts installed at +/- 12-14 ft for allowing gates to open in toward ponds without effecting the netting cover. Netting cover installed by others. Price includes prevailing wages, all necessary labor materials and sales tax.

Specifications;

- 4" gate posts for 20 ft double swing gates
- 2 7/8" terminal, line and gate posts for 12 ft double swing gates
- 1 5/8" box bracing and swing gate frames
- 2" mesh 11 ga. chain link fencing
- 7 ga. top and bottom tension wire

We hereby propose to furnish labor and materials --- complete in accordance with the above specifications, for the sum of:

see above----- Dollars (\$ see above) with payment to be made as follows:
upon completion -----

Benson Fence Co. will not be responsible for permits, payment or performance bonding, electrical power, conduits, unmarked irrigation lines, utility lines, or property lines. Prevailing wages not included unless noted above.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices, full payment therefor shall be made by 10th of the month following installation unless otherwise stated. Interest of 1% Per Month after 30 days. If Suit to Collect is filed I promise to pay Attorney's Fees as fixed by the Court. Any alteration or deviation from above specifications involving extra costs, will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance.

Materials delivered to jobsite are considered billable and installed.

NOTICE — "Under the Mechanics' Lien Law (California Code of Civil Procedure Section, 1181 et seq.), any contractor, subcontractor, laborer, supplier or other person who helps to improve your property but is not paid for his work or supplies, has a right to enforce a claim against your property. This means that after a court hearing, your property could be sold by a court officer and the proceeds of the sale used to satisfy the indebtedness. This can happen even if you have paid your own contractor in full, if the subcontractor, laborer, or supplier remains unpaid."

Authorized Signature Ryan Hudson

NOTE: This proposal may be withdrawn by us if not accepted within 15 days.

Commercial General Liability Insurance
Agent - Jones, Brand & Hullin
Contact # 1 (916) 488-1400

Acceptance of Proposal Add 3.5% fee for credit card payments.

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Accepted:

Signature _____

Date _____

Signature _____