

Sacramento-Yolo
MOSQUITO & VECTOR
CONTROL DISTRICT

JANUARY 18, 2022

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

**AGENDA
January 18, 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.

CALL TO ORDER:

- **Roll Call**
 - **Pledge of Allegiance**
- 1. Board Review and Consideration to Authorize the Board Meeting be Conducted by Teleconference**
 - 2. Items for Approval by General Consent:**
 - a. Minutes of the December 14, 2021 Board of Trustees Meeting**
 - b. Expenditures for December 2021**
 - c. Board Review and Consideration of District Annual Safety Committee Report**
 - 3. Opportunity for Public Comment**

This item is reserved for members of the public who wish to speak on items not on the agenda
 - 4. 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**
 - **Information Technology**

- 5. Board Review of District 5 Year Plan**
- 6. Board Review and Consideration for Approval of Additional Supervisor Position to Head the Aedes Department**
- 7. Closed Session-Public Employee Performance Evaluation (Gov. Code § 54957): Manager**
- 8. Board Consideration and Approval of District Officers for President, Vice President, and Secretary and Delegating the Manager to Perform the Responsibilities of the Secretary**
- 9. Board/Staff General Discussion**
- 10. Adjournment**

Sacramento-Yolo Mosquito and Vector Control District

January 18, 2022 Board Meeting

1. Board Review and Consideration to Authorize the Board Meeting be Conducted by Teleconference

Staff Report:

Consider finding by a majority vote under Gov. Code § 54953, subd. (e)(1)(B) that as a result of the COVID-19 emergency: (i) meeting in person would present imminent risks to the health or safety of attendees; and (ii) the meeting is authorized to be held by teleconference pursuant to Gov. Code, § 54953, subd. (e)(1)(C).

In light of the Governor's declaration that a state of emergency exists due to the incidence and spread of the novel coronavirus, and the pandemic caused by the resulting disease COVID-19, the Board should consider whether meeting in person would present imminent risks to the health or safety of meeting attendees.

The Centers for Disease Control indicates that COVID-19 is a highly transmissible virus that is spread when an infected person breathes out droplets and very small particles that contain the virus, and such droplets and particles are breathed in by other people.¹

Conducting meetings by teleconference would directly reduce the risk of transmission among meeting attendees, including members of the public and agency staff, which has the ancillary effect of reducing risk of serious illness and death as well as reducing community spread of the virus.

If the authorization to meet by teleconference is not approved by a majority vote, then the meeting will adjourn after this item and the remaining agenda items will be rescheduled to a future in-person meeting.

This authorization will be in effect for 30 days from approval.

Recommendation:

Move that the board find that, as a result of the COVID-19 emergency, meeting in person would present imminent risks to the health or safety of attendees, and the meeting should be held by teleconference as authorized by subdivision (e)(1)(C) of section 54943 of the Government Code.

¹ www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-covid-spreads.html

**MINUTES OF THE DECEMBER 14, 2021
SPECIAL 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 Craig Burnett at 10:00 a.m.

Trustees Present:

Craig Burnett	President	Folsom
Gar House	Vice President	Winters
Marcia Mooney	Secretary	Galt
Christopher Barker		Davis
Janell Darroch		West Sacramento
Sean Denny		Woodland
Lyndon Hawkins		Elk Grove
Jayna Karpinski-Costa		Citrus Heights
Raymond LaTorre		Sacramento
Susan Maggy		Sacramento County
Robert McGarvey		Rancho Cordova
Staci Gardiner		Isleton

Trustees Absent:

Bruce Eldridge, Yolo County

Legal Counsel Present:

Jennifer Buckman

Staff Present:

Gary Goodman	Manager
Samer Elkashef	Assistant Manager
Janna McLeod	Administrative Manager (Outgoing)
Shelley Eckler	Administrative Manager (Incoming)
Marcia Reed	Laboratory Director (Outgoing)
Sarah Wheeler	Laboratory Director (Incoming)
Steve Ramos	Program Coordinator
Luz Robles	Public Information Officer
Kara Kelley	Microbiologist
Debbie Dritz	Vector Ecologist
Ruben Rosas	GIS Administrator
Kevin Combo	North Sacramento Supervisor
Brett Day	North Yolo County Supervisor
Demetri Dokos	South Sacramento Supervisor
Will Hayes	South Yolo County Supervisor
Ryan Wagner	Catch Basins Supervisor
Tom Price	Shop Supervisor
Marty Scholl	Ecological Management Supervisor

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. Trustee Maggy left the meeting at 10:45 a.m.

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 Sean Denny and seconded by Trustee Ray LaTorre, the Board voted to approve General Consent Items a through g. The vote was taken by roll call and the motion passed by the following vote: Ayes: 12, Noes: 0, Absent: 1.

- a. Minutes of the November 16, 2021 Board of Trustees Meeting
- b. Expenditures for November 2021
- c. Deposit VCJPA Retrospective Adjustment of \$115,569 into District Member Contingency Fund
- d. District Investment Report for Period Ending September 30, 2021
- e. Board Review and Consideration of Legal Services Agreement Effective January 1, 2022
- f. Board Consideration of Resolution Honoring Marcia Reed for Her Years of Service
- g. Board Consideration to Surplus District Property

2. Opportunity for Public Comment

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

Mr. Felix Huerta Jr, representative of OE3, requested to speak during public comment. Mr. Huerta noted that they do have a scheduled unfair labor practice hearing on March 9-10.

3. Reports to the Board

Manager's Report: The year is at an end and staff are preparing for the upcoming 2022 season with planning, training, and equipment maintenance.

The Mosquito & Vector Control Association of California (MVCAC) planning meeting was held on December 7th and 8th. The goals of the association for the upcoming year will be to continue engaging with stakeholders on various issues relevant to vector control including educating our legislators and regulatory agencies on the importance of our role in protecting public health. The major topics for education and engagement include issues associated with storm water systems, wetland management, NPDES, cannabis cultivation, sterile insect technology, vector control research, and increasing the overall profile of MVCAC and public health. The MVCAC committees gave updates on their standing charges.

District staff is continuing the work on the five-year plan for future activities and direction of the District. Staff will provide an update to the Board in January on the items highlighted in the plan.

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:

Kara Kelley, Microbiologist: Kara reported on the lab findings throughout the year.

- Ticks: We found 433 pools of ticks out of 1831 tested with 18 positive which is very similar to last year's numbers.
- Chickens: 302 chickens tested – 5 positive
- Dead Bird Program: 478 tested, 110 positive birds (23%) as compared to last year with 402 birds tested and 120 positive making a 29% positivity rate.
- Mosquito Samples: 197 positive resulting in a 2.72% positivity rate

Debbie Dritz, Vector Ecologist: Debbie discussed how successful the surveillance program has been as well as how much more efficient the conversion to single battery traps is. Debbie also discussed how they are closing up some data gaps with the resistance testing program.

Sarah Wheeler, Laboratory Director: Sarah noted that it has been a very busy year in 2021 for the Lab and that she is looking forward to new challenges as Lab Director. Sarah gave an overview of the work that was performed on larvicides and adulticides. Lastly Sarah noted that many of the projects performed were in collaboration with either University and Industry partners and that the results of said studies would be presented at the upcoming annual conferences.

Ecological Management: Ecological Management Supervisor, Marty Scholl provided a written report in the Board packet.

Biological Control: Fisheries Supervisor, Tony Hedley provided a written report in the Board packet.

Larval and Adult Control:

Kevin Combo, North Sacramento Supervisor

Kevin shared a video of his team in action.

Kevin noted that he and his team are preparing for the 2022 season and maintaining equipment and staff are taking their vacations.

Brett Day, North Yolo County Supervisor: Brett discussed the monitoring efforts and inspected sources he and his team have been involved in throughout the year. The rice fields were their main focus for 2021. They treated over 6200 acres of organic rice and over 31K acres of conventional rice. The rice numbers are less than in 2020, largely due to water availability.

Brett and his team responded to 80 service requests, which is down by 40% compared to 2020. With the season winding down, the team is focused on building water soluble packets for catch basins.

Demetri Dokos, South Sacramento Field Supervisor: Demetri noted that his team is currently staffed with eight full-time team members and he will hire two seasonal employees in April. His region covers Elk Grove down to Sherman Island in the Delta. This year's numbers are similar to the 2020 findings. In April Demetri and his team sent out pool mailers to 97 residents with historically unmaintained pools. They saw 75 % of the mailers were responded to before tech needed to visit in person. From those mailers and follow up they made contact with 24 residents.

Demetri noted West Nile Virus in his area started with positive mosquitoes detected in Galt in June of 2021. Demetri also stated that they had 526 service requests which is up from 521 in 2020.

Will Hayes, South Yolo County Supervisor: Will took over for Garth Ehrke in August of 2021 and is covering areas in and around Davis, Winters, and West Sacramento.

Will stated that in his area conventional rice numbers are up but organic numbers are down. Overall 51K total acres between treatments and retreats have been covered. Service requests went from 252 to 156. West Nile Virus positive numbers dropped compared to last year – as did dead bird positives. Will saw a large difference from South to North with invasive species found in Winters this year in May versus finding them in September in 2020. With help from Kevin's teams, Will and his team were able to get in to backyards they would not have otherwise been able to.

Ryan Wagner, Catch Basin Supervisor: Ryan shared a video that highlighted the acquisition of the right-handed jeeps, as well as the App development that was put in place to replace hard copy reports and the many projects he and his team have been working on.

In February Ryan's will present some of the recent projects that his team has been working on at the upcoming AMCA and MVCAC annual meetings.

Ruben Rosas, GIS Coordinator: Ruben stated that the biggest changes this year were the reduction of rice planted that showed a 37% decrease from last year. The largest reduction was seen in Yolo County.

Ruben highlighted the work he has been doing on the Navigation system In Route. Ruben then discussed the Aerial survey being used for neglected swimming pools. Over 230 mailers asking residents to send photo of their pools went out and we saw a high response rate of 80% in targeted areas. For the upcoming season the team will coordinate sending notices to known neglected pools.

Tom Price, Shop Supervisor: Tom shared a video highlighting the shop operations that he narrated in real-time. The video showcases the outfitting of the right-hand jeeps and the modifications made to the ATV's as well as footage of team members out in the field using the various vehicles.

Public Outreach: Public Information Officer Luz Robles provided a written report in the Board packet.

Administration

Janna McLeod, Administrative Manager (Outgoing): Janna gave an overview of the latest Covid protocols and discussed the testing availability options. She also reported that we hired 34 employees for 2021, most of them seasonal employees. Janna stated that one of the major projects listed in the 5-year plan, The Records Retention Management project, has been completed

Janna mentioned that she was involved in Labor negotiations through meetings with OE3 throughout the year and in July 2021 the most recent MOU was agreed upon. The Annual Audit was completed in November and resulted in an unmodified – clean opinion. Janna noted that in all of her 10 years with the district all audits have received unmodified status and she has faith that will continue with the support of Kellee and Raj.

Shelley Eckler, Administrative Manager (Incoming): Shelley provided a brief overview of her career path and noted some of the industries she's worked in and what she hopes to be able to provide the District.

Samer Elkashef, Assistant Manager: Samer noted how busy the year has been and discussed some housekeeping items specifically that an auxiliary car port was completed and upgrades were made to the fire alarm system.

Samer has been busy representing the District at both the National and State levels He is part of the Chemical and Control committee. Samer is also the Chair of the MVCAC Regulatory Affairs Committee where they tackle a number of topics of concern to vector control agencies.

Gary Goldman thanked everyone for their department summaries and noted that the common theme seen in all of the presentations is how prevalent the inter-department collaborative efforts are.

4. BOARD REVIEW AND CONSIDERATION FOR PURCHASE OF A NEW UTILITY VEHICLE FOR DISTRICT OPERATIONS

Gary explained that the team had tried the mist blower equipment on the existing ATVs and it is too heavy. The team wants to be able to use the mist blower on a more heavy duty vehicle. Tom Price tracked down two vendors that have the vehicles that will work for the District

Trustee Jayna Karpinski-Costa moved to approve the purchase and Secretary Marcia Mooney seconded the motion. The vote passed unanimously.

5. BOARD/STAFF REPORTS AND REQUESTS

Gary gave thanks to Janna and Marcia for their years of service. Board Training will be available on Vector Solutions and Shelley will send information out to each board member on how to log in and complete the training.

Gary also mentioned the District is looking at a potential construction expansion and will be seeing the advice of an architect to see what would be needed to build between the Lab and the Administration building to connect the two. The building that the District leases to CDPH will end at the end of 2022. District staff is working with the State on the development of new lease terms and will bring it to the Board for approval.

The District will be looking to expand the Aedes program. Gary noted that staff is looking a bringing on a new Field Supervisor to handle the program, which would need Board approval.

Gary reminded all that the January board meeting will include the election of officers. He also noted that with the increase in Covid cases, and a newly enacted statewide mask mandate issued, the January 2022 Board Meeting is scheduled to take place virtually pending Board approval.

6. Adjournment

The meeting adjourned at 11:58 a.m.

I certify that the above minutes substantially reflect the general business and actions taken by the Board of Trustees at the December 14, 2021, meeting.

Gary Goodman, Manager

Approved as written, and/or corrected, by the Board of Trustees at the January 18, 2021, meeting.

Marcia Mooney, Board Secretary

Sacramento/Yolo M.V.C.D.

STATEMENT OF OPERATION

	<i>6Months Ended December31 2021</i>	<i>Annual Budget</i>	<i>Unused</i>
Revenue			
REVENUE	30,934.81	0.00	30,934.81
TOTAL Revenue	30,934.81	0.00	30,934.81
Expenditures			
SALARIES/BENEFITS/WC			
SALARIES/BENEFITS/WC	6,605,878.77	9,136,769.78	2,530,891.01
TOTAL Salaries	6,605,878.77	9,136,769.78	2,530,891.01
OPERATIONAL			
LIABILITY INSURANCE	205,825.00	215,825.00	10,000.00
AUDITING/FISCAL	15,000.00	16,000.00	1,000.00
COMMUNICATIONS	38,958.25	93,500.00	54,541.75
PUBLIC INFORMATION	198,532.82	572,000.00	373,467.18
STRUCTURE & GROUNDS	40,105.91	83,000.00	42,894.09
MEMBER/TRAINING	48,875.30	119,000.00	70,124.70
DISTRICT OFFICE EXPENSES	10,390.41	17,500.00	7,109.59
PROFESSIONAL SERVICES	52,116.32	220,250.00	168,133.68
MATERIALS & SUPPLIES	9,405.98	22,000.00	12,594.02
RENTS & LEASES - Admin	4,577.46	11,550.00	6,972.54
SAFETY PROGRAM	790.00	5,000.00	4,210.00
UTILITIES	41,403.58	110,000.00	68,596.42
AIRCRAFT SERVICES	661,586.43	1,020,000.00	358,413.57
ECOLOGICAL MANAGEMENT	76.96	18,500.00	18,423.04
MICROBIAL	820,738.09	1,550,000.00	729,261.91
INSECT GROWTH REGULATOR	712,945.32	1,100,000.00	387,054.68
INSECTICIDES	406,783.06	1,100,000.00	693,216.94
FISHERIES	10,584.08	32,000.00	21,415.92
GEOGRAPHIC INFO SYSTEMS	3,368.00	9,000.00	5,632.00
INFORMATION TECHNOLOGY	28,401.67	66,680.00	38,278.33
CONTROL OPERATIONS	16,782.99	47,000.00	30,217.01
VEHICLE PARTS/LABOR	62,460.60	101,000.00	38,539.40
LAB SERVICES	112,898.37	185,000.00	72,101.63
GAS & PETROLEUM	106,932.53	170,000.00	63,067.47
TOTAL Total Operational	3,609,539.13	6,884,805.00	3,275,265.87

SYC Balance Sheet
As of 12/31/2021

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	(480,805.33)	
Accounts Receivable	13,463.40	
Interest Receivable	8,352.00	
Assigned - Cash With VCJPA	1,665,077.00	
Inventory	1,347,050.17	
Total Current Assets:		7,781,499.59

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:		17,212,324.85

Liabilities

Current Liabilities

Payroll Taxes Payable	(2.93)	
Voluntary TL & AD&D	(643.93)	
Voluntary STD	(459.92)	
FSA Deductions	31,223.60	
P.E.R.S. Deductions	(1.04)	
Suspense	(6,664.00)	
Safety Program	(1,530.00)	
Accumulated Vacation	395,995.26	
Total Current Liabilities:		417,917.04

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:		15,737,930.04

Equity

INVESTMENT IN FIX ASSETS	4,021,317.96	
RESERVED CASH (INS.)	1,665,077.00	
Committed-Capital Outlay	700,000.00	
Unassigned - Dry Financing	6,000,000.00	
Retained Earnings-Current Year	(10,454,239.74)	
GENERAL FUND	(2,537,080.38)	
Committed - Vector/Disease Response	2,000,000.00	
Prior Period Adjustment	79,319.97	
Total Equity:		1,474,394.81

Run Date: 1/10/2022 12:33:01PM

Page: 1

G/L Date: 1/10/2022

SYC Balance Sheet
As of 12/31/2021

Sacramento Yolo MVCD (SYC)

Total Liabilities & Equity:

17,212,324.85

December 2021 Check Register
Activity From: 12/1/2021 to 12/31/2021
Sacramento Yolo MVCD (SYC)

Bank Code:	US Bank			
Check Number	Check Date	Vendor Number	Name	Check Amount
055377	12/6/2021	0000504	US Bank	24,778.21
055378	12/7/2021	0000018	ANDKO Building Maintenance Inc.	4,804.94
055379	12/7/2021	0000034	AutoZone Inc	760.80
055380	12/7/2021	0000038	Bartkiewicz Kronick & Shanahan	2,235.00
055381	12/7/2021	0001011	Buckmaster Office Solutions	125.49
055382	12/7/2021	0001019	Cintas Corporation	2,104.34
055383	12/7/2021	0000117	City of Woodland	220.57
055384	12/7/2021	0000119	Clarke Mosquito Control Products Inc	17,145.18
055385	12/7/2021	0000126	Complete Welders Supply Inc	538.86
055386	12/7/2021	0000184	Elk Grove Lock and Safe Company	99.50
055387	12/7/2021	0000186	Elk Grove Water District	348.78
055388	12/7/2021	0000198	Factory Motor Parts Co	259.51
055389	12/7/2021	0000958	GreatAmerica Financial Services	413.00
055390	12/7/2021	0000240	Hunt & Sons Inc	106.43
055391	12/7/2021	0000183	Info Cubic	429.00
055392	12/7/2021	0002352	Kingsley Bogard, LLP	2,689.69
055393	12/7/2021	0000280	KXTV News 10	10,800.00
055394	12/7/2021	0002350	Linde Gas and Equipment INC.	35.35
055395	12/7/2021	0000497	MagneGas Welding Supply	78.54
055396	12/7/2021	0000354	Omni Bags Inc	17,000.00
055397	12/7/2021	0000356	OReilly Automotive Stores Inc	179.72
055398	12/7/2021	0000367	PG & E	1,154.83
055399	12/7/2021	0000370	Pitney Bowes	292.60
055400	12/7/2021	0000388	Republic Services #922	95.47
055401	12/7/2021	0000451	SMUD	3,582.30
055402	12/7/2021	0000461	Stericycle Inc	84.75
055403	12/7/2021	0001234	T-Mobile	1,453.36
055404	12/7/2021	0000475	Target Specialty Products	31,032.00
055405	12/7/2021	0000500	United Parcel Service	158.64
055406	12/7/2021	0002407	Valley Fire & Security	69.50
055407	12/7/2021	0000518	Vector Disease Control International	52,083.33
055408	12/7/2021	0000522	Verizon Wireless	2,964.65
055409	12/7/2021	0000529	Waste Management	167.45
055410	12/14/2021	0000267	Kaiser Foundation Health Plan	47,411.80
055411	12/14/2021	0000357	P & A Administrative Services Inc	94.50
055412	12/14/2021	0000373	Preferred Benefit Ins Administrators	8,547.20
055413	12/14/2021	0000957	Sutter Health Plus	8,033.11
055414	12/14/2021	0000531	Western Health Advantage	8,966.28
055415	12/14/2021	0000531	Western Health Advantage	3,154.71
055416	12/21/2021	0000014	Alhambra & Sierra Springs	52.95
055417	12/21/2021	0001046	All Star Rents	4,911.56
055418	12/21/2021	0000036	Awards by Kay	115.82
055419	12/21/2021	0000038	Bartkiewicz Kronick & Shanahan	1,040.00
055420	12/21/2021	0000126	Complete Welders Supply Inc	1,784.68
055421	12/21/2021	0000128	Consolidated Communications	2,391.95
055422	12/21/2021	0000958	GreatAmerica Financial Services	413.00
055423	12/21/2021	0000467	Home Depot Pro Institutional	978.20
055424	12/21/2021	0000240	Hunt & Sons Inc	4,251.41
055425	12/21/2021	0000299	Luken Benjamin Associates	2,000.00
055426	12/21/2021	0000367	PG & E	138.77
055427	12/21/2021	0001270	Rubicon Global, LLC	208.27
055428	12/21/2021	0000413	Sacramento County Utilities	960.54

December 2021 Check Register

Bank Code: U US Bank

Check Number	Check Date	Vendor Number	Name	Check Amount
055429	12/21/2021	0000454	Spark Creative Design	352.40
055430	12/21/2021	0001062	TeamLogic IT Sacramento, CA	520.00
055431	12/30/2021	0000043	Benefit Coordinators Corporation	3,049.07
055432	12/30/2021	0000084	CA State Disbursement Unit	350.00
055433	12/30/2021	0001035	Operating Engineers Local Union No. 3	1,188.00
W00230	12/30/2021	0000086	CalPERS 457 Plan	17,937.11
W00231	12/30/2021	0000087	CalPERS Financial Reporting & Accounting Services	79,897.14
W00232	12/30/2021	0000176	EDD	19,382.61
W00233	12/30/2021	0000339	Nationwide Retirement Solutions	1,550.00
W00234	12/30/2021	0000339	Nationwide Retirement Solutions	3,225.00
W00235	12/30/2021	0000561	United States Treasury	66,976.15
Bank U Total:				<u>468,174.02</u>
Report Total:				<u><u>468,174.02</u></u>

I hereby authorize the use of my signature plate on
the above-listed warrants, 055377-055433, and EFTs W00230-W00235

Signature

Date

Craig Burnett, SYMVCD Board President

Run Date: 1/10/2022 2:18:49 PM

A/P Date: 1/10/2022

Sacramento-Yolo Mosquito & Vector Control District Annual Safety Report 2021

Committee Members for the year 2021

Kylie Letamendi	Laboratory
Nicholas Tremblay	Laboratory
Courtney Chagolla	Laboratory
Kellee Brinkman	Administration
David Smith	North Sacramento
Jacob Pascual	South Sacramento
George Santiago	Yolo County
Doug Camero	Catch Basin Crew
Garrett Koch	Catch Basin Crew
Guy Kachadorian	Ecological Management
Don Henson	Shop
Samer Elkashef	Safety Officer

EXECUTIVE SUMMARY

The mission of the District Safety Program is to provide a forum for employees to voice their concerns regarding safety issues. This goal is accomplished through the monthly meetings of the Safety Committee and subsequent discussions among District employees regarding the issues brought up in the meetings. The Committee is comprised of various representatives of the different departments. The meetings are usually held the second Tuesday of each month. The agendas include a review of safety suggestions, accidents, and analysis of facility or job inspections. The Safety Manual is reviewed in its entirety by District personnel once every three years as well as sent to Sedgwick Risk Services for recommendations. The District feels that these reviews are critical in the process of keeping our employees current with any changes to safety regulations. Safety is a primary concern of the District and the Committee helps enhance the program.

The Safety Program reported 21 accidents in 2021, which is just above the 5 year running average of 20 accidents per year. The District experienced a decrease in the number of safety suggestions in 2021 compared to 2020 (4 vs 14). The District and Safety Committee will make a continued effort to educate the employees on the importance of safety in the workplace for 2022. The table below summarizes the general statistics of the Safety Committee Program.

	2021	2020	2019	2018	2017	2016	5 YR AVG
Safety Suggestions	4	14	11	6	5	8	9
Accidents	21	26	21	16	21	18	20

The goals of the Safety Committee for the 2022 calendar year include:

- Continue to review and update the Safety Manual.
- A reduction in the number of workplace accidents compared to 2021.
- District wide promotion of the safety program through the safety suggestion component and incorporation of suggestions that augment safety at the District.

SAFETY PROGRAM OVERVIEW

The following is a review of the District's Safety Program that occurs annually for all employees. The complete program can be reviewed in one of the District Safety Manuals.

Hazard Evaluation and Code of Safe Practices

The District has identified work functions and equipment that could pose a safety hazard to employees. These items are listed in the Safety Manual along with mitigating measures to prevent accidents. The functions are updated regularly as new equipment or tasks are added. All new employees are trained on these items at the time of hire as well as reviewed on a regular basis.

Task Training

District employees are required to be task trained on all work activities to which they will be assigned. Review training is provided on an as needed basis. Training is provided by a District supervisor or another employee competent with the task and assigned to do the training by the supervisor. Examples of these tasks include: source inspection, pesticide application, sprayer functionality, chainsaw use and vehicle use.

Equipment/Tool Review

Each supervisor is responsible for a particular building within the facility. Supervisors provide an annual safety review of all the equipment and power tools that are used by employees as refresher training. They are also required to inspect buildings for safety hazards.

Hearing Conservation

Supervisors take annual decibel readings of equipment located in their assigned areas and list all equipment that exceeds 80 decibels. Employees are required to use ear protection when using equipment on the list. Employees are trained annually on the effects of long term hearing damage.

Fire Safety

New employees are trained on the use of fire extinguishers and evacuation routes at the time of hire. Evacuation routes are posted and reviewed by employees on a yearly basis.

Heat Illness

District uses OSHA training materials yearly to inform employees of the signs and symptoms of heat illness as well as the personal/environmental factors that contribute to heat illness. Training and reminders are provided three times per year and/or as needed during the season.

Bi-Weekly Tailgates

Supervisors review pertinent safety topics with employees in informal training sessions every two weeks. Safety topics include driving, personal safety, heat illness, dog bite avoidance and PPE use.

Driver Training

Driver's training is provided to employees on an annual basis. Formal training fluctuates between computer one year and classroom and behind the wheel instruction the next year.

Pesticide Safety

Pesticide training is required on a yearly basis each spring. Employees are trained on the safe use and toxicological profile of every product used by the District. Along with the annual training, pesticide safety training is reinforced during tailgate sessions, equipment reviews and initial task training to emphasize its importance.

SAFETY TRAINING TOOLS UTILIZED BY THE DISTRICT

The District utilizes an assortment of training platforms for employees, including; outsourced professionals, webinars, DVDs/videos and online classes. The following is a summary of the formats used in recent years.

Professional Safety Trainers

Sedgwick are safety consultants that have provided the District with classroom and behind the wheel driver training over the past several years. In 2020, Sedgwick representatives came out to the District to provide a live training on driver safety and followed up the in class instruction with behind the wheel observation of all employees. With the COVID-19 pandemic, we will have to discuss with Sedgwick some alternative form of instruction as we are due for refresher training this year.

This year we are due for refresher training on First Aid procedures. Our representative from Valent Biosciences is a certified American Red Cross trainer and has agreed to provide us with training. The Red Cross has moved its classroom training to an on-line module which will be followed up with a hands on component that will be conducted in small groups to maintain social distance guidelines.

Pesticide Industry

Representatives of Sacramento County Agricultural Commissioners Office, Valent BioSciences, Central Life Sciences, Adapco, Clarke Mosquito Control and Univar have provided pesticide use and safety training to staff.

Public Safety

Members of the Sacramento County Sheriff's Department and Elk Grove Police Department have provided staff with personal safety and awareness training. Cosumnes Community Services District Fire Department staff has provided the District with a Fire Safety Session.

Webinar

District supervisors and employees have participated in various webinar training sessions over the years.

DVDs / Videos and Online Courses

The District maintains an in-house library of training media and access to an online library of streaming videos to be used to satisfy safety training requirements. Supervisors have staff watch an assortment of films yearly to supplement verbal trainings.

ACCIDENTS / INJURIES 2021

As mentioned above, there were 21 reported accidents/incidents throughout the District in 2021. This represents an overall increase from last year. The table below summarizes the breakdown of reported accidents/incidents over the years:

	2021	2020	2019	2018	2017	2016
District Vehicles	13	16	11	11	11	11
Cuts and Abrasions	0	2	3	0	3	2
Strains and Irritations	7	3	2	3	5	4
Pesticide Spills	0	1	3	1	0	0
Other	1	4	2	1	2	1
Total	21	26	21	16	21	18

In 2021 the level of vehicle accidents saw a decrease compared to 2020. As always, the Safety Committee will continue to remind everybody to pay more attention and be more careful while driving vehicles to bring down this number. Personal injuries in 2021 (cuts, abrasions, strains, and irritations) saw an increase as compared to 2020 (7 vs 5). The Safety Committee will continue to stress the importance of workplace safety and will look for ways to promote the safety program for 2022.

HAZARD EVALUATIONS & AUTHORIZATION LISTS

The specific areas of the Safety Manual that were reviewed by the employees in 2021 were:

- Job Safety Class Hazard Evaluation & Code of Safe Practices
- Vehicle Safety Program/ Vehicle Hazard Evaluation & Code of Safe Practices
- Training Program
- Safety Protective Equipment

Each department reviews a section of the Safety Manual each quarter and submits suggestions for changes to the Safety Committee. This program allows each of the sections of the safety manual to be reviewed by all staff once every three years. This is a great training tool for staff to be reminded of the purpose of the Safety Manual and to get clarification of any issues.

JOB SAFETY CLASS INSPECTIONS 2021

The job safety class inspections are opportunities for the individual departments to discuss the hazards of their particular job classifications with their employees. The supervisor will identify the different components of the job as outlined in the inspection form and solicit input from their employees for changes/modifications to the job safety class. This exercise is an opportunity to formalize reminders to all employees about the potential safety hazards that they face during the execution of their work.

Job Safety Class Inspection Completion Schedule for 2021

<u>DEPARTMENT</u>	<u>COMPLETED</u>
Administration	July & December
Control Operations - North Sacramento	April & December
Control Operations - South Sacramento	May & December
Control Operations - Catch Basin	July & December
Control Operations – Woodland	May & December
Ecological Management	April & December
Laboratory	May & December
Vehicle	April & December
Fisheries	April & September

FACILITY INSPECTIONS 2021

Facility inspections are scheduled twice a year and include two members of the safety committee doing a walk through of each building within the District facility. The two members will identify compliance or areas of improvement. The supervisor in charge of that particular building will then rectify anything identified by the inspection and report back to the safety committee.

The following table summarizes the inspections completed in 2021.

<u>FACILITY</u>	<u>COMPLETED</u>	<u>2021 SAFETY RATING</u>
Administration	April	100%
	December	100%
Fisheries	April	100%
	December	100%
Laboratory	April	100%
	December	100%
Mechanic Shop	May	84%
	December	100%
Old Shop	April	100%
	December	100%
Pesticide Storage	April	92%
	December	100%
Pole Barn	April	100%
	December	100%
Woodland	May	100%
	December	100%

SAFETY SUGGESTIONS FOR 2021

In 2021, the District received a total of 4 suggestions, compared to 14 suggestions in 2021. The Safety Committee and Management continue to encourage employees to make suggestions and the increase in suggestions was a welcome change. District wide promotion of the safety program and its incentives will continue to be a goal for 2022.

SAFETY INCENTIVE AWARDS PROGRAM

The District's goal is to maintain a safe work environment with the expectation that all District employees are to be safety conscious and to encourage employee contribution to a safe working environment.

Each calendar year the District will draw safety teams at random using all regular full time employees. One point will be awarded to each team member at the end of each quarter assuming that the team has qualified. A qualifying team has all members that have followed safety policies for the quarter. A point may not be awarded to the team members for the quarter if one or more of the team members have violated a safety policy resulting in an accident or near miss. The District safety committee reviews all accident reports to make the determination whether points shall or shall not be awarded to the team. Individual employees may also acquire points by submitting qualifying safety suggestions or by serving on the District safety committee to be awarded at the completion of term served. Each employee may accrue a maximum of 10 points. When 10 points are accumulated by any employee no additional points may be added to that employee's total. Points may be redeemed for gift cards from an assortment of retail outlets after the end of each quarter.

WORKERS COMPENSATION COSTS

The District will be reporting the annual loss run and financial activity for 2021 as well as comparing to previous years numbers as soon as the data is available from our Workers Compensation provider.

Sacramento-Yolo Mosquito and Vector Control District

January 18, 2022 Board Meeting

4. Reports to the Board

a. Manager's Report

b. Reports from District Departments

- **Information Technology (Dan Fisher)**
- **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

District staff is taking earned vacation time and completing annual training during this time of year including remote work when available. Staff is working on the annual NPDES report that will be due to the SWRCB in March.

The MVCAC Annual Conference will be held in Sacramento February 7th through the 9th with the MVCAC Board Meeting being held on the 10th.

Please be advised that you will need to submit your Conflict of Interest Form 700 prior to April 2022. The District will provide you with the Form 700 and we need to date stamp the Form when you return it. Please submit the Form as soon as possible.

b. Reports from District Departments

- **Information Technology (Dan Fisher)**
- **Lab/Surveillance (Marcia Reed)**
- **Ecological Management (Marty Scholl)**
- **Biological Control (Tony Hedley)**
- **Larval and Adult Control (Steve Ramos)**
- **Public Outreach (Luz Maria Robles)**

Information Technology-Dan Fisher

The department continued with its primary function to support all departments with technology use. With the ongoing pandemic the department helped staff to work remotely from day to day operations to helping coordinate Board Meetings and all hands on training. The department deployed the Lab software changes in MapVision, where lab staff can now enter data into MapVision and we export to Vectorsurv Gateway

instead of entering into Gateway. This has improved the data entry procedures, adding automation, allows us to change the features and interface as needed, and to more quickly share trap and testing results with operations as soon as the data is entered. This also allows lab staff to continue to complete their work if there are any connectivity issues to the Gateway servers, which has happened a few times in the past.

Final testing of the iPad MapVision App is now in progress for deployment and training this winter. This allows Field Technicians full access to site history, service requests, and entering data even in remote areas where there is limited cellular data service in southern and eastern Sacramento County and north western Yolo County. In preparation for this and to support other software, we deployed additional iPads to departments for mobile use.

We hired a third party IT vendor that we have used before to assist with server upgrades to complete a security and services audit of MapVision's server hosted by the Amazon cloud service, and changes to reduce our costs and increase security are ongoing.

We upgraded all Verizon phones to new Android models to maintain the ability to get regular system and security updates, and now support iPhones for staff, which pair well with iPads. This winter we will complete phone upgrades on Tmobile lines, which over the past few years has resulted in a cost savings for accounts that do not need as much mobile data.

The IT Administrator attended virtual and one in person meeting of MISAC Central Chapter and continues to remain involved to bring outside technology knowledge from other local government agencies back to the district and share with others through MVCAC.

Plans for 2022 include completing an on-site third party audit of our servers, network for security improvements and to plan hardware and software upgrades, complete the deployment of MapVision on iPads in the field and continue to work with Leading Edge to improve the security of the MapVision server and application, assist CatchBasin department with software development, improve the remote phone capabilities of front office staff, and planning with other departments for Aedes data management for the season.

I also served this past year as the Chair of the MVCAC IT Committee for the third time and on the Calsurv Steering Committee. This winter the IT Committee has planned a number of operations management software demonstrations to share knowledge and ideas from different software packages and features used for everything from shop management, accounting to mosquito control and Aedes response. We also plan to reach out to AMCA to include agencies from out of state.

LABORATORY

Monthly Report for January 2022 Board Meeting

Insectary:

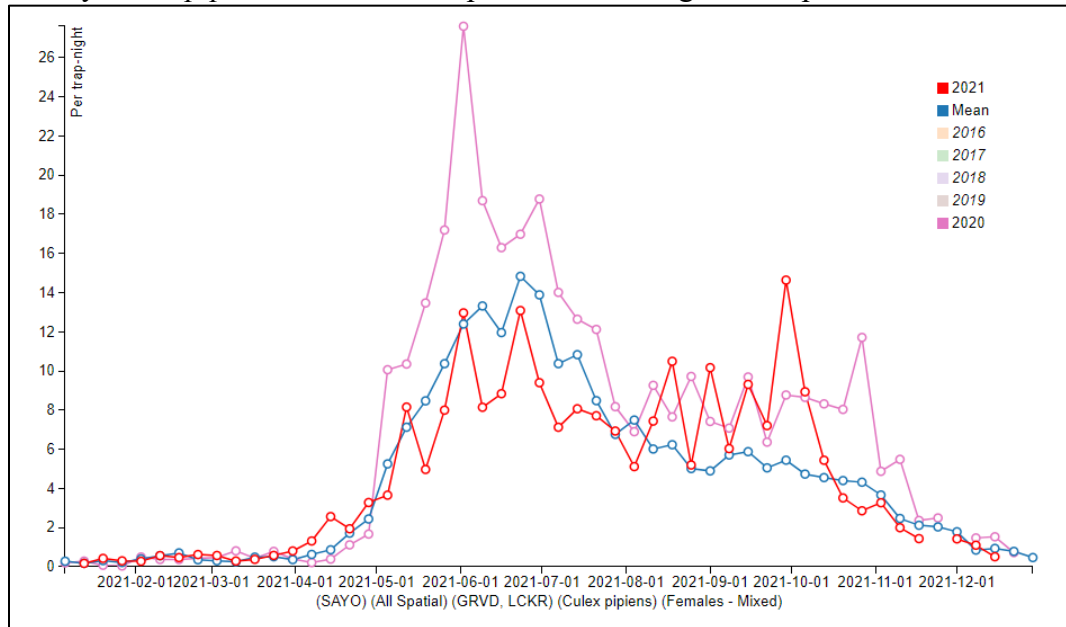
Species	Name	Origin	Resistance Status
<i>Culex tarsalis</i>	KNWR	Kern National Wildlife Refuge (2009)	susceptible
<i>Culex quinquefasciatus</i>	CQ1	Merced, CA (1950s)	susceptible
<i>Culex pipiens</i>	WCP	Woodland, CA (2017)	resistant: pyrethrins/pyrethroids, methoprene, and spinosad
<i>Culex tarsalis</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

Staff came in twice during the holidays to care for the mosquito colonies. The strategy was successful, and all colonies are doing well.

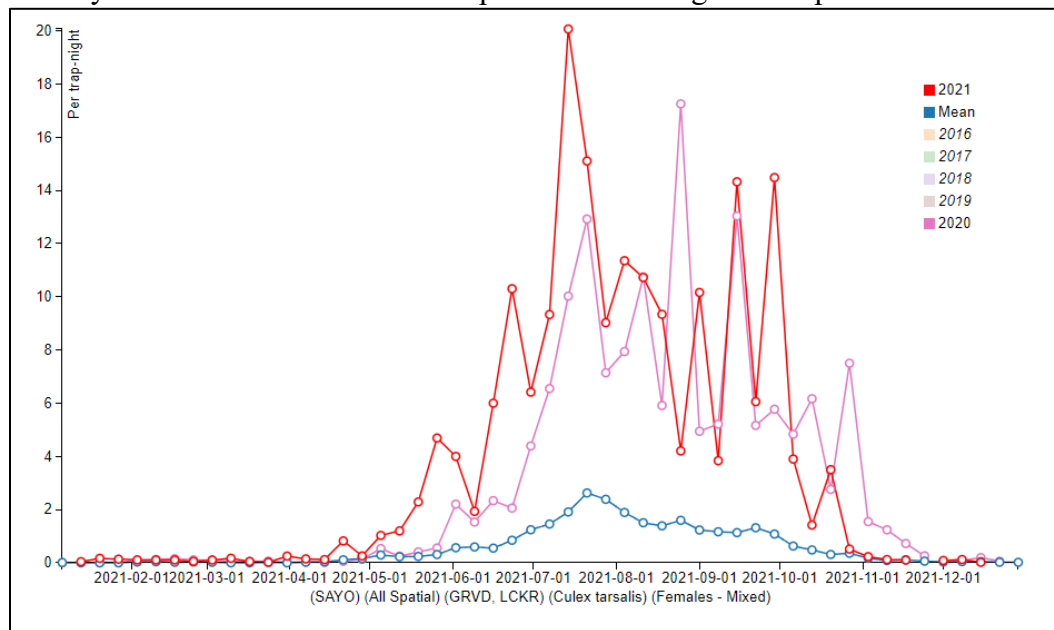
Surveillance:

Weekly collections - The graphs below show that *Culex tarsalis* and *Culex pipiens* abundance were low, which is normal for this time of year. Weekly abundance traps were shut down for the last two weeks of 2021. The first abundance data for 2022 will be collected the week of January 10 and reported in the February report. *Culiseta inornata* is typically a cool season mosquito, but abundance was especially high at the Vic Fazio Wildlife Preserve, pushing abundance trends much higher than the previous five years.

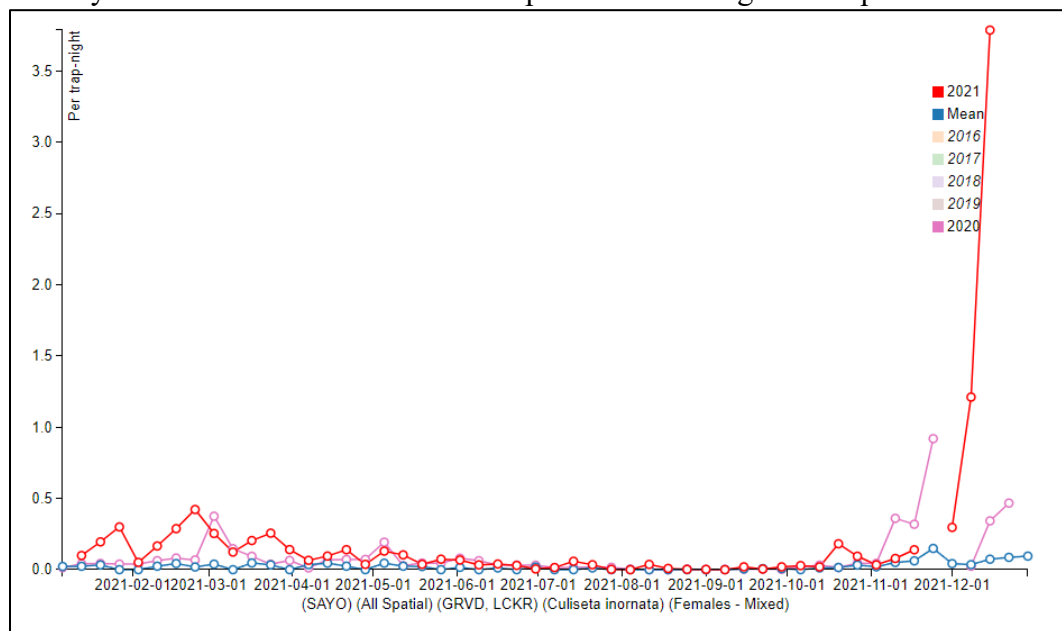
Weekly *Culex pipiens* abundance traps in locker and gravid traps:



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



Weekly *Culiseta inornata* abundance traps in locker and gravid traps:



Encephalitis Virus Surveillance (EVS)

EVS – Mosquitoes –

We are currently in the planning process for the 2022 surveillance season. The lab is reviewing and classifying trap locations in MapVision in preparation for responding to WNV positive mosquito pools. Training will be conducted over the winter months to provide Laboratory

Technicians with guidelines on how to select trap sites in response the WNV positive mosquito pools. We plan to take advantage of our technician's presence in the field to select the best sites to enhance surveillance coverage.

EVS – Sentinel Chickens – We currently do not have any sentinel chickens and will restart this program in the spring

EVS – Dead Birds – We are not currently collecting and testing dead birds, but the program will restart in April. Each year we save WNV-negative birds for Andrew Engilis the curator of the UC Davis Museum of Wildlife and Fish Biology. The museum is currently conducting a study documenting the bird diversity in the Sacramento Valley. In 2021 we collected and donated 52 specimens representing 31 bird species. Specimens will be added to the UC Davis Museum collection.

Invasive *Aedes* spp. Surveillance –

This winter we are monitoring two *Aedes aegypti* populations within the District. There are four BG sentinel traps deployed in Elk Grove and four deployed in the Elder Creek area. We have not detected *Ae. aegypti* since the last detection on December 1st in the Elder Creek area. We will increase our *Aedes* surveillance activities in the spring.

Tick and Lyme Disease Surveillance – The lab began tick flagging in November. Overall, between November 11, 2021 and December 8, 2021 a total of 325 *Ixodes pacificus* have been collected and 87 pools were tested for *Borrelia burgdorferi*. Thus far *B. burgdorferi* was detected in pools of *I. pacificus* from East Lake Natoma, Upper Sunrise, and the Nimbus Overlook. We are monitoring the tick populations at 20 sites across Sacramento and Yolo counties this season.

BG Counter Traps – We recently purchased and received the latest model of BG Counter traps that are compatible with the phase out of 3G cellular frequencies. Counter traps have become an important tool of mosquito abundance surveillance in rice growing areas and will be deployed at the start of the growing season.

Senecio Mosquito Counting and Pooling Machine - We received an update from Hanan Lepek the chief engineer for Senecio and they are making good progress on the construction of our machine. Senecio in the finally stages of assembly and testing of our machine and are working to get the machine to us as soon as possible.

Disease Response Surveillance – In December we were notified of two travel related human cases of dengue virus and one of malaria. Mosquito trapping was conducted, and vector species were not detected in the vicinity of the reported cases.

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.

The California Arbovirus Surveillance Bulletin updates will begin again in the spring.

Christmas Bird Count 2022

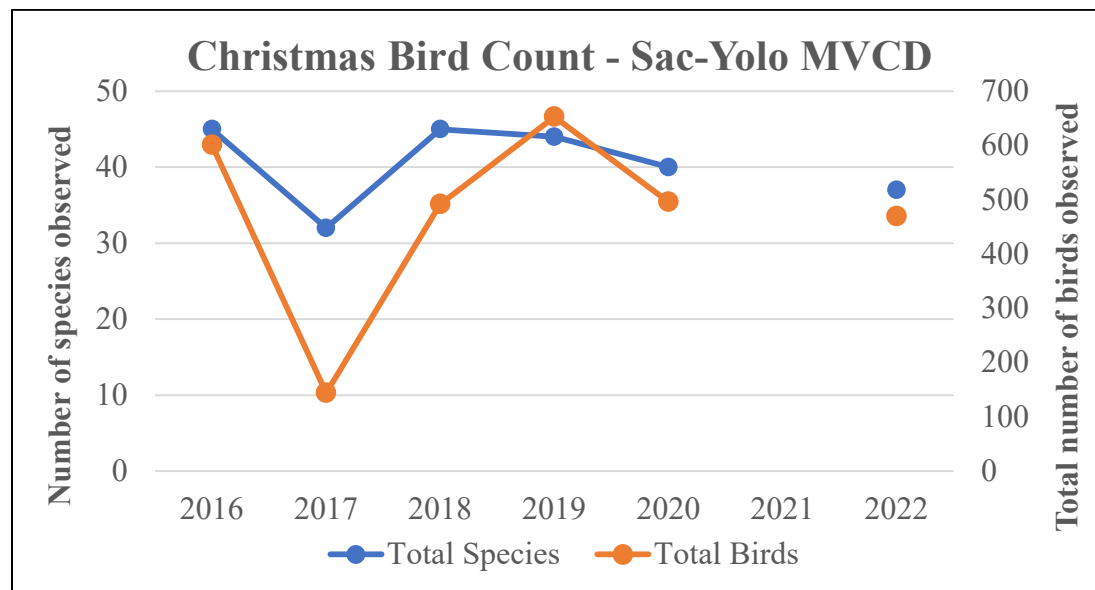
Location: Sacramento-Yolo Mosquito and Vector Control District Elk Grove, CA

Date & Time: January 3, 2020; 7:30am – 9:30am

Conditions: Weather 38-44°F, Clear

Observers: Mary Scheidt and Sarah Wheeler

Species	#	Species	#	Species	#
American Crow	7	Gadwall	2	Northern Flicker	4
American Goldfinch	14	Great Blue Heron	1	Nuttall's Woodpecker	1
American Robin	7	Great Egret	1	Red-tailed Hawk	1
Anna's Hummingbird	116	Greater White-fronted Goose	12	Ring-billed Gull	3
Barrow's Goldeneye	1	Greater Yellowlegs	2	Ruby-crowned Kinglet	4
Black Phoebe	7	Hooded Merganser	13	Snowy Egret	13
Brewer's Blackbird	1	House Finch	4	Song Sparrow	1
California Scrub-jay	1	Killdeer	1	Western Bluebird	4
Canada Goose	30	Lesser Goldfinch	22	White-crowned Sparrow	1
Common Gallinule	2	Mallard	5	White-tailed Kite	1
Common Goldeneye	4	Marsh Wren	2	Yellow-rumped Warbler	150
Cooper's Hawk	1	Mourning Dove	27	Total Species	37
Double-crested Cormorant	2	Norther Shoveler	2	Total Birds	470



Comparison of total species and total birds observed annually since 2016.
There was no count in 2021 due to COVID19.

ECOLOGICAL MANAGEMENT DEPARTMENT

Monthly Report for the January 2022 Board Meeting

Stormwater / Planning Program

Dunnigan Creek Rd. Development and Gas Station: Staff reviewed a submitted proposal to develop an eighteen-acre parcel located in Yolo County north of County Rd 6 and bordering the western edge of Interstate Hwy 5 in Dunnigan. The development includes a new roadway called Dunnigan Creek Rd., along with multiple retail food outlets and gas station elements. All stormwater runoff will be required to stay on site or be treated prior to discharge. Staff requested a detailed stormwater and mosquito management plan to be reviewed prior to the start of construction.

Leisure Ln. Apartments: Staff received a planning review request from the City of Sacramento for the proposed apartment complex project. Staff will request additional stormwater plans or comment as appropriate.

Robla Estates Subdivision: Staff received a request for comments on the revised plans to develop a vacant portion of land bordering the Southern bank of Robla Creek in the City of Sacramento into one hundred seventy-seven lots. Comments will be provided as appropriate to address the long-term maintenance of the storm water detention basins.

General Department Maintenance

Staff has been working on maintaining or restoring the Department's equipment and storage area. The equipment trailer deck was completely replaced with new specialty equipment rated deck boards.



BIOLOGICAL CONTROL

Monthly Report for January 2022 Board Meeting

In the month of December the Fisheries Department completed many necessary tasks including repairing predatory exclusion nets, putting up new cables and hardware for the newly installed predatory exclusion ponds, bleaching and sanitizing transportation tanks and all equipment used in the handling of mosquitofish. In addition, the first half of December has been busy with onsite yard and building cleanup, including cleaning gutters on buildings, weed control around mosquitofish rearing ponds and landscaping projects around the facility. As things slowed down and the rain moved in we began some of our indoor projects. These projects include repairing seine nets, painting inside the fisheries building and general sanitizing. The Fisheries department also continued to gather weekly data for all of our ongoing projects including traditional fertilization techniques, crayfish control and the use of solar aerators to maintain dissolved oxygen levels. Daily activities such as tank cleaning were also performed to maintain the high quality of our fish population.

Log of Treatment Applied for December

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Treatments</u>
Mosquitofish (<i>Gambusia affinis</i>)	.825	1.806 Acres	10
Guppies (<i>Poecilia reticulata</i>)	on hold until weather conditions warm up.		

Fisheries Budget

<u>Total</u>	<u>Spent</u>	<u>Remaining</u>	<u>% Spent</u>
32,000.00	11,497.48	20,502.52	36%



Picture on the left is Fisheries Field Technician Kiara Day preparing a new net for installation and on the right is the new net being inspected before install on one of the new chain link predatory exclusion ponds.

CONTROL OPERATIONS

Monthly Report for January 2022 Board Meeting

Culex and West Nile Virus (WNV) Control

There continued to be no WNV detections in the month of December. The staff focus has been on continuing to prepare for the upcoming season. Service requests are still being responded to by field staff, most of the responses are focused on education for the home owners and source reduction around properties.

Continued Education

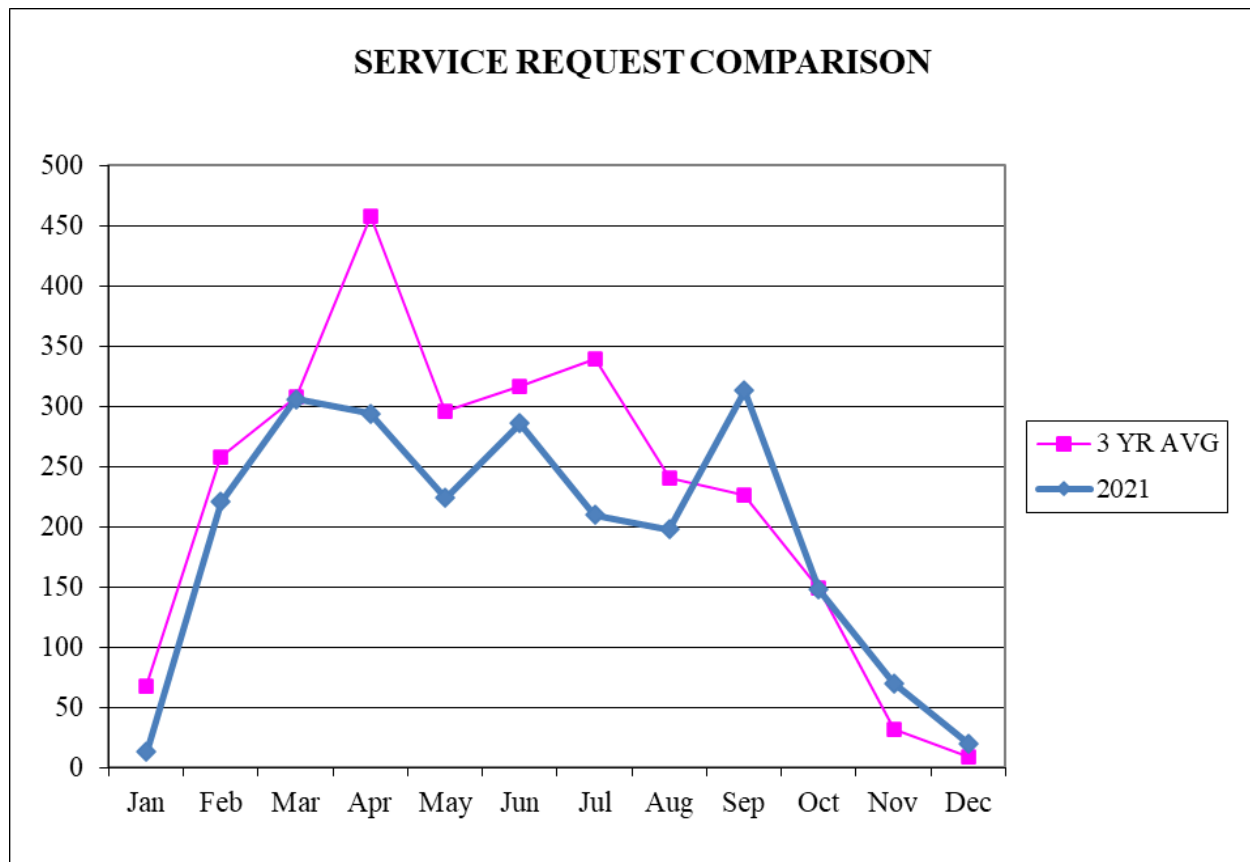
The District has begun baseline knowledge testing to assess areas to focus future training on. The tests will be distributed and worked on by staff over the next few weeks. This time of year is also when staff will take time to work on other continuing education topics like heat illness recognition, power tool safety and pesticide safety through the Vector Solutions modules. The District's annual pesticide training is also scheduled to take place on March 16, 2022. The training topics are still being put together by District departments.

Invasive Aedes Control

There was one female *Aedes aegypti* caught in the Elder Creek area of Sacramento between the dates of 11-28-21 and 12-04-21. Permanent traps will continue to be monitored for *Aedes aegypti* activity with more traps to be added as the temperatures begin to increase in spring. All other permanent traps had no Aedes detections through December.

Fall and Winter Projects

Projects continue around the District property. Tree trimming around the District boundaries has been completed and now clean up and mulching of debris has begun. Crews are also working on offsite properties performing brush clearing work around known mosquito breeding sources.



Larvicide Applications thru December 31 st				
	2021		2020	
Locations/Roles	Treatments	Acres	Treatments	Acres
Sacramento County	7,074	14,990	9,224	10,040
Sac County Aerial	33 orders	18,077	29 orders	21,994
Sac County Drone Treatments	40 orders	2,296	16 orders	643
Yolo County	1,551	8,609	2,162	7,790
Yolo County Aerial	75 orders	129,743	99 orders	118,220
Yolo County Drone Treatments	39 orders	2,849	15 orders	1,107
CB Treated	204,689	--	168,190	--
CB Inspected -not treated	171,641	--	153,582	--

Aerial Adulticide Summary thru December 31st				
	<u>2021</u>		<u>2020</u>	
County	# Applications	Acres	# Applications	Acres
Sacramento Ag	20	139,765	16	114,772
Sacramento Urban	0	0	0	0
Yolo Ag	50	424,218	62	475,124
Yolo Urban	0	0	0	0
TOTALS		563,983		582,728

Adulticide Summary through December 31st, 2021 compared to 2020

	2020	2021
Contract Acres (our portion) =	530,000	530,000
Acres used =	563,983	589,896
Acres remaining =	(-33,983)	(-59,896)
% Acres used =	106%	111%
% Acres remaining =	0%	0%

San Joaquin County MVCD has used 213,982 acres of their 190,000 acre contract commitment.
Placer MVCD has used 69,158 acres of their 100,000 acre commitment.
Turlock MAD has used 96,882 acres of their 180,000 acre commitment.

PUBLIC INFORMATION AND EDUCATION
Monthly Report for January 2022 Board Meeting

School Program

In an effort to further our outreach program to students as a way of continuing with the successful Fight the Bite assemblies we have hired Red Shoe Productions to produce a virtual assembly that we will be able to disseminate to teachers and schools. A script for the virtual assembly has been finalized and most of the videotaping has been completed. Once all filming is finalized, the editing process will begin with the goal of having the finished product by the end of the month. Dissemination of the virtual school assembly is scheduled for mid-February.

2022 Fight the Bite Contest

In preparation for the annual Fight the Bite contest we are currently updating the contest flier and when it is finalized, we will begin disseminating to the various school districts for approval. Once the flier is approved, copies will be made and mailed out to individual schools and districts for dissemination amongst the students. The contest will be promoted through social media and at virtual classroom assemblies. We will also reach out to previous contest participants.

Advertising

The season will be here in no time and in preparation for this we are coordinating and collaborating with Gary Benjamin, our media consultant, to begin putting together the 2022 advertising plan. We have ongoing meetings with account executives and media representatives to begin looking at various options for the advertising campaign.

Outreach materials

In preparation for the upcoming season we are currently in the process of updating our yellow jacket and West Nile virus prevention brochures as well as re-stocking other materials.

Events

We have started getting information for upcoming community events in 2022, however due to the current COVID surge, for now we will not be attending any events. As circumstances improve, we will evaluate the situation and select appropriate events to attend as conditions permit.

MVCAC

The District's Public Information Officer will be giving a presentation titled "What's the Buzz? A Public Outreach Response to the Spread of Invasive Mosquitoes" at the upcoming 2022 MVCAC Conference in February. They will also be moderating the public information session.

Sacramento-Yolo Mosquito and Vector Control District

January 18, 2022 Board Meeting

5. Board Review of the District's 5-Year Plan

Staff Report:

In January of 2015, the Board was presented with a 5-year plan to examine the District's workflows and proposed projects to increase efficiency in said activities. Work on this plan began in the winter of 2014 when all District departments began collecting data on their current needs as well as areas for future growth. This brainstorming process was then broken down to core concepts that became the initial draft of the plan. This drafting process was augmented by the formation of an Ad Hoc committee that was created at the February 2014 Board meeting as a means to help guide the departments to develop their ideas even further.

The initial 5-year plan concluded in 2019 with many projects having been completed and with more projects being added. Included in the following document is an update on the trajectory the District's projects heading towards the next few years. This includes the Administration, Information Technology (IT), Ecological Management, Facilities, Control Operations, Public Information, Shop, Geographic Information System (GIS), Fisheries and Laboratory departments.

In the accompanying chart, you will find a timeline for each of the projects proposed in the 5-year plan as well as projected costs for these activities. Some items do not have a cost associated with them because the District anticipates that these items will only require staff time and no other expenditures.

The 5-year plan is intended to be a living document that can be changed as the needs of the District change. Updates are given to the Board during the January meeting of each year to highlight what projects have been completed, are in progress and have been added or removed.

Summary

- A new vehicle bay was constructed behind the Fisheries building to alleviate congestion in the main vehicle garage.
- New larvicides and larvicide applications were investigated to improve efficiency in the field.
- The fire suppression system was upgraded to include internal chimes.
- Implemented Mapvision in the Laboratory.
- Expanded the fleet with both trucks and specialty vehicles.
- Finalized a catalogue of rural aerial adulticide blocks to make air orders more efficient.

Information Technology

Supervisor: Dan Fisher

Number of employees: 1 full-time

This year the IT department helped the Laboratory transition to the Mapvision platform and provided training and support throughout the process (IT-1). Also on the Mapvision front the department has been working with Leading Edge Associates on the development of an iPad App to make Mapvision more portable and provide offline capabilities (IT-2). The department has already purchased new iPads for this transition which is scheduled to take place in the spring of 2022. The department concluded an analysis of whether it would be beneficial to move the Mapvision program to a physical server rather than keeping it on the cloud (IT-4). The department found that that it would serve the District better from a security and access standpoint to keep hosting Mapvision from the cloud.

Administration

Supervisors: Gary Goodman, Shelley Eckler and Samer Elkashef

Number of employees: 5 full-time

The Administration department is continuing to work with SAGE to expand to suite of reports available to the department by the software a few years ago (A-1). The department is also looking at our medical benefits provider, Alliant, to help provide a landing page where staff can access their benefits information. Last year the District moved its on-boarding process for new employees online (A-4). This year the District's new Administration Manager is looking to expand and revise some of the training videos that are available on our online training platform Vector Solutions.

One project that was completed this year was the scanning and shredding of documents (A-6). With the assistance of seasonal employees, the District was able to scan 400 banker boxes of documents as well as shred and dispose of the originals. This has cleared up much needed storage space. The District will continue to monitor what documents can be stored digitally to limit the amount of paper documents the District stores.

The District also took a close look at its contracts with vendors this year (A-7). The District resigned its agreement with Vector Disease Control International for its aerial adulticiding and in that process also signed MOUs with several local District's to share the acres on the contract. The District also signed purchase agreements with Clarke and ADAPCO for public health pesticides.

Facilities

Supervisor: Samer Elkashef

This past year the District undertook two major projects to upgrade the facility. With the expansion of the fleet parking in the main garage became limiting which necessitated expanding parking at the District (F-5). To that end the District had an additional vehicle bay constructed behind the Fisheries building to house that department's trucks and specialty vehicles. Due to the permitting requirements the project took a longer than originally projected but never the less was completed in early 2021. The second upgrade to the facility that was made in 2021 was enhancing the fire alarm system (F-9). The District installed internal audible chimes to augment the already existing external alarms. In the process the District switched the service provider for its monitoring system which provided the District a savings on the service.

Ecological Management

Supervisor: Marty Scholl

Number of employees: 3 full-time

The Ecological Management department is looking further integrate our Best Management Practices (BMPs) with our Integrated Pest Management plan (E-1). To that end the department is incorporating new technologies into the program to help Control Operations when they encounter issues in the field. The latest addition to the fleet was the trackloader that was purchased this past year that was opened up the type of projects the District can tackle. Another aspect of the District's BMPs that the department is looking to expand on is working with the Sacramento County Sheriff POP teams to increase access to backyards for green pool investigations (E-2). Unmanned aerial systems, or drones, continue to be a large part of the department (E-3). New technologies are constantly being investigated with the latest advancement being the use of LiDAR imagery to help locate standing water. Lastly, the department is looking on providing updates to the District's BMP manual to reflect new technologies and information available for mosquito control.

Control Operations

Supervisors: Kevin Combo, Demetri Dokos, Ryan Wagner, Steve Ramos, Brett Day, Will Hayes

Number of employees: 38 full-time

Control Operations is looking to evaluating both new products and technologies to both become more efficient in the field and address how the District can expand its services (CO-6 and CO-7). A new product that the District has started using in 2021 is VectoPrime manufactured by Valent Biosciences. The advantages of this product are that it combines two active ingredients and has shown to be effective at lower rates then the products that we have traditionally used. Further investigation into this product will be conducted this year as this product has the potential to save us both time and money in the field. Another product we are looking at employing is the ground based adulticide Fyfanon EW. The reason for looking at this product is that the District needs a rotational product to use to maintain the limited adulticide active ingredients available for adult mosquito control. On the equipment front the department is looking forward to expanding the use of the Cobra A-1 mistblower to determine where this piece of equipment can improve efficiency in the field. The Catch Basin crew has identified breeding in the pipes connected to the storm drains and will investigate the misting of larvicides in underground systems. This technology has been successfully used by a few Districts in Southern California and our Control Operations department will be collaborating with the laboratory to validate this technology in our area.

The Catch Basin program created an App for the managing the data they collect on a daily basis. One of the tasks to make this App fully operational is to migrate historically data into the new program (CO-11). This project should be completed in Q1 of 2022 and once done will allow data analysis and comparison from year-to-year. Lastly, the District is looking at engaging the local municipalities in an Adopt-a-Basin Program modeling after the programs that have been created in other cities across the country (CO-12). This program would allow residents to be the steward of storm drains located in front of their home or business and have them notify governing bodies if said storm drain needs to be cleaned out, flushed or treated for mosquito breeding.

Public Information

Supervisor: Luz Maria Robles

Number of employees: 1 full-time

Before the pandemic started, the Public Information department contracted with Red Shoe productions to roll out a school assembly program to the various schools in the District's service area (PI-4). As schools are still not having in-person assemblies yet, the District approached Red Shoe productions again to produce pre-recorded assemblies that can be distributed to the local schools to provide mosquito prevention education to students. This material is slated to be ready for distribution in the spring of 2022.

Working with the Control Operations department a new appointment scheduling form was put together to assist with the door-to-door inspections (PI-5). While not a full redesign of the service request form, this is an important step in the redesign of said form. Another update to our on-line profile the department is planning on implementing is re-branding the District's YouTube page to support District made videos and news stories (PI-6).

A program that the department is looking at expanding is partnerships with outside agencies (PI-9). This past year the District worked with several news outlets on getting the word out on invasive mosquitoes to great effect and the department is looking to continue this trend. Other organizations we are looking to partner with are more community groups to catalyze a grassroots approach to residential vector control.

Shop

Supervisor: Thomas Price

Number of employees: 3 full-time

The Shop continually looks at the status of the District fleet and makes changes when required (S-1 and S-3). This year the Shop purchased two ATVs for Control Operations to enhance to suite of vehicles available to our Field Technicians and seven right hand drive Jeeps for the Catch Basin program. The Shop helped test the new Cobra A1 mistblower this year and after an exhaustive search found a utility vehicle that was ideally suited for the needs of the sprayer and the terrain it will be navigating which the Board approved for purchase in December 2021. Vehicle outfitting an enhancement is also under the purview of the Shop. One of the bigger projects that the Shop has undertaken is replacing the gas pumps that power the larvicide spray tanks to electronic ones (S-5). The electronic pumps are smaller which affords Field Technicians more storage space in the bed of their trucks without sacrificing power. Another large project that is slated for completion this spring is the retrofitting of the right hand drive Jeeps that were purchased for the Catch Basin Program (S-7). The Mechanics in the Shop have created and built several unique modifications for these Jeeps that will make them very efficient in the field.

Lastly, the Shop has been investigating converting the diesel tank to a regular fuel tank (S-2). After talking to companies that can do the project and looking at the cost the District has at this point decided to not move forward with the project as it is cost prohibitive.

GIS

Supervisor: Ruben Rosas

Number of employees: 1 full-time

Geographic Information Systems is always looking for mapping tools to help staff in the field (GIS-2). This year saw an expansion of the use of inRoutes for creating spray paths for our

WALS applications in suburban neighborhoods. Another mapping tool that the department is investigating is the use of MyRoute online. This is a route planning platform where the user can input multiple addresses and then calculate the most efficient route between all the addresses. The District sees potential uses for this platform in both Control Operations and the Laboratory.

A mapping project that was completed this year was the creation of a catalogue of the District's aerial adulticide blocks (GIS-7). This catalogue is composed of the typical blocks that are used to treat the rice growing areas in both counties and allows air orders to be filled out in a timely manner and allows for quick modification of aerial blocks to meet operational needs. One project that is slated for completion in 2022 is the cleaning up of the District's database of organic agricultural areas (GIS-6). Using the available data from both the County Agricultural Commissioners and the Department of Food and Agriculture the department's goal is to remove fields that used to be organic that have been converted to conventional farming practices.

Fisheries

Supervisor: Tony Hedley

Number of employees: 3 full-time

One of the ongoing goals of the Fisheries department is to increase the District's production of the mosquitofish *Gambusia affinis* (FH-1). To that end the department has identified aeration as a key factor in producing high yields of fish from the District's earthen ponds. Currently the District has purchased eight solar powered aerators to achieve the aeration levels needed to boost fish production. To aerate all the ponds the department needs to purchase two more aerators which is planned for this year. Another important component of increasing yields from our ponds is having the proper predatory exclusions. Another of the department's ongoing goals is to have all the District's earthen ponds fenced off. In 2021, the District fenced off two more ponds and started to implement garden runners at the base of said fencing to reduce the ability of predators from entering these habitats. Moving forward the department would like to fence one to two ponds annually until all of the District's ponds have fences.

One of the concerns that the department has is a lack of genetic diversity in the mosquitofish population as it has been culturing mosquitofish for a number of years (FH-4). In the past the Fisheries department has engaged in mosquitofish exchanges with other districts in our region to help increase the genetic diversity in our population and has recently gone out to outside sources to the same end. One project the department would like to complete is to setup a fish exchange with Districts from Southern California to bring in that genetic stock into the population we rear on-site.

Laboratory

Supervisors: Sarah Wheeler, Debbie Dritz and Vacant Biologist Position

Number of employees: 12 full-time

This season the Laboratory transitioned to using Mapvision as their data management system (LAB-1). While there are still a few fixes that need to be made, the jump to Mapvision has improved continuity between the departments as inputted data can be visualized in real time by multiple users. Also in the software area, the department is also in the process of assessing their software needs when for tracking the developing *Aedes aegypti* population (LAB-3). The District is looking at both internal solutions and solutions that vendors can contribute to find the more efficient means of recording and visualizing the granular data that is collected through *Aedes aegypti* surveillance.

This summer the Laboratory hired an intern to augment the amount of resistance testing the District can perform (LAB-4). Specifically, pyrethroid resistance from multiple *Culex pipiens* populations collected throughout the District was examined. Moving forward resistance data will be uploaded in CalSurv to be used as a resource for the vector control community of practice.

In 2021 the Laboratory completed making improvements to the suite of microscopes that are used (LAB-7). A handful of the dissecting microscopes that are used by the Laboratory Technicians were replaced and new lighting was purchased as well. The District also upgraded the microscope camera to help with mosquito identification.

Summary of Projects Completed in Previous Years

Projects Completed in 2020

- Virus testing has been brought in house through a successful remodel
- Improved understanding of mistblower larvicide applications for Aedes control
- Improvements to the lab BSL 2 facility and colony space have been made
- New employee onboarding and training have been moved on-line
- Forward movement with Mapvision including enhancements to the lab module and development of iPad application
- Installation of a gate opening system for enhanced security
- The District has started using presentations at school assemblies to spread information more efficiently

Projects Completed in 2019

- The new District website was implemented with the addition of the children's education page.
- Numerous larval and adult mosquito control products and application methodologies were tested with some being integrated into District operations.
- The District became certified to apply pesticides via Unmanned Aerial Systems.
- The Shop designed and built interchangeable mounts to rapidly switch ATVs between larvicide and adulticide applications.
- With the *Aedes aegypti* detection in Citrus Heights, the Lab has implementing an expanding surveillance program as well as started looking at product efficacy against this species of mosquito.
- The Fisheries department is investigating increasing the yield and quality of fish through the incorporation of aeration technologies.

Projects Completed in 2018

- WALs was tested for the first time at the District and plans were made for future implementation.
- The District applied and received a Public COA from the FAA, an important step moving towards making pesticide applications via drones.
- A new adulticide and larvicide were tested for integration into Control Operations.
- The Lab implemented and expanded their invasive species surveillance program.
- The IT department implemented the T-Mobile carrier for office staff to cut down on the District's mobile phone expenses.

Projects Completed in 2017

- The new Administration software was installed. The accounting portion of the software has gone live.
- An AGRAS MG1-S spray drone was purchased.
- New trucks arrived and were being transitioned for field use.
- MapVision had been implemented in Yolo County.
- New zone boundaries were being tested with an analysis on the new structure slated for the off season.

Recommendation: Information Only

[illegible]

[illegible]

Sacramento-Yolo Mosquito and Vector Control District

January 18, 2022 Board Meeting

6. Board Review and Consideration for Approval of Additional Supervisor Position to Head the Aedes Department

Staff Report:

The District first discovered the invasive mosquito *Aedes aegypti* within its service area in 2019. In response, an extensive campaign was devised that helped suppress the populations to sub-detectable levels, however the *Aedes aegypti* mosquito continues to be detected in other locations within our service area. To date, this mosquito has been found in the City of Winters in Yolo County, and in Citrus Heights, Elk Grove, Orangevale and the city of Sacramento in Sacramento County.

The District started a small Aedes unit in 2019 which is composed of two full time Field Technicians that have been housed in North Sacramento Control Operations. The supervisory duties for this program have been shared by several Vector Control Field Supervisors and the Program Coordinator. While this shared duties situation was sustainable for a time, the growth of the invasive population in the District has necessitated a change in how the program operates. Staff is proposing the approval of a new Vector Control Field Supervisor position, bringing the total number of Vector Control Field Supervisors to six. This new supervisory position would oversee the expanded Invasive Aedes Department which will have 4 full time technicians and multiple seasonal employees. The benefits of this restructuring will also extend to the control of Culex mosquitoes and West Nile virus as current staff will not be pulled into multiple directions during our busy season.

Recommendation:

Authorize the creation of a new Vector Control Field Supervisor position to head the Invasive Aedes department.

Sacramento-Yolo Mosquito and Vector Control District

January 18, 2022 Board Meeting

- 7. Closed Session - Public Employee Performance Evaluation
(Gov. Code § 54957): Manager**

Sacramento-Yolo Mosquito and Vector Control District

January 18, 2022 Board Meeting

8. Board Consideration and Approval of District Officers for President, Vice President, and Secretary and Delegating the Manager to Perform Responsibilities of the Secretary

Staff Report:

The following is an excerpt from existing law:

2027. (a) At the first meeting of the initial board of trustees of a newly formed district, and in the case of an existing district at the first meeting in January every year or every other year, the board of trustees shall elect its officers.

(b) The officers of a board of trustees are a president and a secretary. The president shall be a trustee. The secretary may be either a trustee or a district employee. A board of trustees may create additional officers and elect members to those positions. No trustee shall hold more than one office.

In addition, the Board passed Resolution 1-19-10B (enclosed) that defines the Rules and Proceedings for District Board meetings.

Pursuant to Resolution 1-19-10B the current officers of the Board are President, Vice President, and Secretary. The Board may delegate the authority to perform responsibilities of the Secretary to the Manager.

2021 Officers

President – Craig Burnett

Vice President – Gar House

Secretary – Marcia Mooney

Recommendation:

Pleasure of the Board