

SACRAMENTO-YOLO
MOSQUITO & VECTOR
CONTROL DISTRICT

OCTOBER 20, 2020

BOARD OF TRUSTEES
REGULAR MEETING

BOARD PACKET

10:00 A.M.

8631 Bond Road
Elk Grove, CA 95624

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

8631 Bond Road
Elk Grove, CA 95624

**AGENDA
October 20, 2020
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 15, 2020 Board of Trustees Meeting**
- b. Expenditures for September 2020**

2. Opportunity for Public Comment

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

3. Reports to the Board

- a. Manager's Report**
- b. Reports from District Departments**
 - **Lab/Surveillance**
 - **Ecological Management**
 - **Biological Control**
 - **Larval and Adult Control**
 - **Public Outreach**

4. Board/Staff Reports and Requests

5. Adjournment

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Sacramento-Yolo Mosquito and Vector Control District

October 20, 2020 Board Meeting

1. Items for Approval by General Consent:

- a. Minutes of the September 15, 2020 Board of Trustees Meeting;
- b. Expenditures for September 2020.

Recommendation:

Approve the Items by General Consent

**MINUTES OF THE SEPTEMBER 15, 2020
MEETING OF THE BOARD OF TRUSTEES OF THE
SACRAMENTO-YOLO MOSQUITO & VECTOR CONTROL DISTRICT**

PLACE: 8631 Bond Road, Elk Grove, CA 95624

TIME: 10:00 a.m.

TRUSTEES PRESENT:

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

TRUSTEES ABSENT:

Bruce Eldridge	Yolo County
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LEGAL COUNSEL:

Jennifer Buckman

STAFF PRESENT:

Gary Goodman	Manager
Samer Elkashef	Assistant Manager
Janna McLeod	Administrative Manager
Marcia Reed	Laboratory Director
Marty Scholl	Ecological Management Supervisor
Steve Ramos	Program Coordinator
Luz Robles	Public Information Officer

CALL TO ORDER

The meeting was called to order at 10:09 a.m. by President Jayna Karpinski-Costa.

Roll Call

This meeting was held and attended by Video Teleconference. Trustee Eldridge was absent with all other Trustees in attendance (Isleton is vacant); therefore, a quorum was present.

Pledge of Allegiance

All phones and electronic devices are requested to be silenced during the meeting.

1. ITEMS FOR APPROVAL BY GENERAL CONSENT

On a motion by Trustee Denny seconded by Trustee LaTorre, the Board voted to approve General Consent Items a. through d. The vote was taken by roll call and the motion passed by the following vote: Ayes: 11, Noes: 0, Absent: 1(Eldridge).

- a. Minutes of the August 18, 2020 Board of Trustees Meeting;
- b. Expenditures for August 2020;
- c. District Investment Report for Period Ending June 30, 2020;
- d. 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.

There were none.

5. REPORTS TO THE BOARD

a. Manager's Report:

The District's West Nile season is beginning to slow and abundance and virus activity are lessening with the continued cooler weather. The District continues to follow the Mosquito Borne Disease Management Plan with enhanced surveillance and control efforts in response to positive dead birds or positive mosquito collections. The District has not detected invasive mosquitoes so far this year and neither has neighboring Placer County. However, they have been detected north of us in both Shasta and Sutter counties. The Districts that had initially detected them last year (San Joaquin, Stanislaus, and Merced) have found them again this year. We will continue to monitor the situation and react accordingly if detected. The MVCAC (Monterey in January) and the AMCA (Salt Lake in March) annual meetings are moving forward with a hybrid style format. The final details will need to adjust as we get closer and the situation surrounding the pandemic is better understood. The District Audit is scheduled for September 16-18.

b. 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: Laboratory Director, Marcia Reed discussed department activities including mosquito abundance and virus surveillance, dead bird program and collaborations. West Nile virus activity is being seen in both Yolo and Sacramento counties, with ground work being performed by technicians in areas of detection. This ground work has been successful in keeping the vector index low enough that aerial treatments have been warranted in the areas to date. The first presumptive positive sentinel chicken has been sent to California Department of Public Health (CDPH) for confirmation. *Aedes aegypti* have not yet been detected in Citrus Heights; however, trapping of the area is ongoing. Additional traps are being set in the area along with the permanent traps and will be checked and tested. After Marcia's verbal report, a quick video showing the new PCR room in the lab was shown.

Ecological Management: Ecological Management Supervisor, Marty Scholl discussed department activities including Storm Water and Drainages, Wetlands and Rice, Agriculture, Planning, and UAS programs. Fall Flooding activities are beginning with staff reaching out to property managers who tend to flood prior to October 1. Drainage and standing water issues were address in City of Galt Deadman's Gulch and City of Sacramento Port Authority Deep Water Ship Channel through cooperation with their staff. Rancho Murieta CSD reached out to the District for assistance with midge fly mitigation. Staff met with management and the District has loaned them two light traps to assist them with addressing the problem. Winter project preparation has begun and the department has received numerous planning projects for review and comment. The Unmanned Aerial Systems (UAS) program continues with Leading Edge performing aerial treatments as they are turned in. Staff assisted Ducks Unlimited with aerial imaging for a pump and drainage project in the Vic Fazio Wildlife Area.

Biological Control: Fisheries Supervisor, Tony Hedley provided a written report.

Larval and Adult Control: Program Coordinator, Steve Ramos discussed department activities including the rice program, equipment and trials. At this time of year breeding sources begin to change with rice fields draining, wetlands preparing to flood, corn harvests and hay growers do final irrigations keeping the Field Technicians quite busy. West Nile virus radius work, catch basin inspections and ULV treatments are being done where needed. Near the end of August rice larvicide treatments were stopped due to field draining which proved beneficial for staff to look at other areas and will continue next year. Trials being conducted this season are scheduled to run through the fall flooding season.

Public Outreach: Public Information Officer, Luz Robles reported on department activities including, Presentations, Advertising, Social Media, Repellent Distribution and Media Coverage. A Zoom presentation has been requested by the Laguna/Sunrise Rotary Club as a direct result of the one done for the Walnut Grove Rotary Club last month. The Advertising Campaign will wrap at the end of the month. Social Media efforts continue with the District using the Nextdoor app to provide content that is focused on the areas where the detection of West Nile virus has occurred to inform residents and encourage signing up for spray notifications and reporting of dead birds and services.

4. BOARD REVIEW AND CONSIDER ATION OF CALPERS VALUATION REPORT

Manager Gary Goodman presented the item and responded to questions. The Valuation dated as of June 30, 2019 is used to set the rates for the 2021-2022 fiscal year. In addition, the valuation report is used to update the District unfunded liability. No Board action was taken on this item as it was for information only.

5. BOARD/STAFF REPORTS AND REQUESTS

The front gate to the District is being upgraded to include an electric open/close system and work starts this week.

The plans for the parking area expansion near the fisheries building were recently approved by the city.

6. ADJOURNMENT

The meeting adjourned at 10:59 a.m.

* * * * *

I certify that the above minutes substantially reflect the general business and actions taken by the Board of Trustees at the September 15, 2020 meeting.

Gary Goodman, Manager

Approved as written and/or corrected by the Board of Trustees at the October 20, 2020 meeting.

Gar House, Board Secretary

September 2020 Check Register
Activity From: 9/1/2020 to 9/30/2020
Sacramento Yolo MVCD (SYC)

Check Number	Check Date	Vendor Number	Name	Check
<u>Bank</u>	<u>U US Bank</u>			
054146	9/1/2020	0000504	US Bank	25,077.96
054147	9/8/2020	0000006	Adapco Inc	250,347.18
054148	9/8/2020	0000014	Alhambra & Sierra Springs	23.78
054149	9/8/2020	0000018	ANDKO Building Maintenance Inc.	4,804.94
054150	9/8/2020	0000039	Batteries Plus	1,256.21
054151	9/8/2020	0001011	Buckmaster Office Solutions	114.08
054152	9/8/2020	0001019	Cintas Corporation	2,351.77
054153	9/8/2020	0000116	City of Woodland	1,248.96
054154	9/8/2020	0000121	Clear Channel Outdoor	13,790.00
054155	9/8/2020	0000126	Complete Welders Supply Inc	3,681.89
054156	9/8/2020	0000128	Consolidated Communications	2,364.62
054157	9/8/2020	0000168	Dignity Health Med Fdtn-Sacramento	110.00
054158	9/8/2020	0000181	Elk Grove Dodge	81.70
054159	9/8/2020	0000193	Entravision Communications Corporation	5,975.00
054160	9/8/2020	0000199	Farm Air Flying Service	100,310.12
054161	9/8/2020	0000467	Home Depot Pro Institutional	236.77
054162	9/8/2020	0000240	Hunt & Sons Inc	12,565.71
054163	9/8/2020	0000273	KCSO Telemundo of Northern CA	2,100.00
054164	9/8/2020	0000277	Kimball Midwest	177.22
054165	9/8/2020	0002352	Kingsley Bogard, LLP	2,251.37
054166	9/8/2020	0000942	KQCA My58	21,466.00
054167	9/8/2020	0000285	Lazer Broadcasting Corporation	4,100.00
054168	9/8/2020	0000286	Leading Edge Associates Inc.	390.00
054169	9/8/2020	0000293	Life Technologies Corporation	10,935.78
054170	9/8/2020	0000299	Luken Benjamin Associates	4,200.00
054171	9/8/2020	0000497	Magnegas Welding Supply - West	84.75
054172	9/8/2020	0000306	Maita Chevrolet	765.70
054173	9/8/2020	0000352	Northern Safety Co	940.05
054174	9/8/2020	0000356	O'Reilly Automotive Stores Inc	813.70
054175	9/8/2020	0000367	PG & E	276.45
054176	9/8/2020	0002350	Praxair Welding Gas and Supply	346.61
054177	9/8/2020	0000388	Republic Services #922	88.55
054178	9/8/2020	0000424	Safe Side Security	142.50
054179	9/8/2020	0000427	Safety Kleen Corp	1,297.87
054180	9/8/2020	0002349	Sensient Colors LLC	406.75
054181	9/8/2020	0000451	SMUD	5,315.01
054182	9/8/2020	0000937	Staples Business Advantage	242.28
054183	9/8/2020	0000459	Star Milling Co	2,614.55
054184	9/8/2020	0000461	Stericycle Inc	82.15
054185	9/8/2020	0001234	T-Mobile	836.49
054186	9/8/2020	0000475	Target Specialty Products	108,311.72
054187	9/8/2020	0000480	The Grid Agency	8,400.00
054188	9/8/2020	0000501	United Textile Inc	158.93
054189	9/8/2020	0000502	Univar Inc	47,540.49
054190	9/8/2020	0000505	US Bank Equipment Finance	102.36
054191	9/8/2020	0000518	Vector Disease Control International	50,000.00
054192	9/8/2020	0000522	Verizon Wireless	3,268.64
054193	9/8/2020	0000526	VWR International Inc	287.01
054194	9/8/2020	0000529	Waste Management	164.96
054195	9/8/2020	0000534	Wiley Price & Radulovich	522.00
054196	9/17/2020	0000267	Kaiser Foundation Health Plan	24,606.48

054197	9/17/2020	0000267	Kaiser Foundation Health Plan	3,844.75
054198	9/17/2020	0000267	Kaiser Foundation Health Plan	19,298.86
054199	9/17/2020	0000357	P & A Administrative Services Inc	130.50
054200	9/17/2020	0000373	Preferred Benefit Ins Administrators	8,452.30
054201	9/17/2020	0000957	Sutter Health Plus	5,262.44
054202	9/17/2020	0000531	Western Health Advantage	5,184.47
054203	9/17/2020	0000531	Western Health Advantage	3,053.82
054204	9/24/2020	0000006	Adapco Inc	107,150.31
054205	9/24/2020	0000015	All Star Glass	441.70
054206	9/24/2020	0000034	AutoZone Inc	1,387.87
054207	9/24/2020	0000038	Bartkiewicz Kronick & Shanahan	2,177.50
054208	9/24/2020	0000039	Batteries Plus	215.46
054209	9/24/2020	0001011	Buckmaster Office Solutions	114.08
054210	9/24/2020	0000126	Complete Welders Supply Inc	2,891.49
054211	9/24/2020	0000169	Diversified Biotech Inc	724.61
054212	9/24/2020	0001037	Elite Supply Source	667.62
054213	9/24/2020	0000186	Elk Grove Water District	1,020.03
054214	9/24/2020	0000502	ES Opco USA LLC	9,502.35
054215	9/24/2020	0000223	Grainger	209.97
054216	9/24/2020	0000958	GreatAmerica Financial Services	372.82
054217	9/24/2020	0000240	Hunt & Sons Inc	10,941.77
054218	9/24/2020	0000277	Kimball Midwest	681.39
054219	9/24/2020	0000293	Life Technologies Corporation	1,870.26
054220	9/24/2020	0000306	Maita Chevrolet	408.31
054221	9/24/2020	0000367	PG & E	1,087.91
054222	9/24/2020	0000370	Pitney Bowes	301.66
054223	9/24/2020	0002350	Praxair Welding Gas and Supply	346.61
054224	9/24/2020	0001270	Rubicon Global, LLC	200.26
054225	9/24/2020	0002349	Sensient Colors LLC	33.24
054226	9/24/2020	0000456	Spex SamplePrep LLC	6,629.95
054227	9/24/2020	0000461	Stericycle Inc	81.65
054228	9/24/2020	0000492	Top Rank Heating Air Conditioning Inc	446.51
054229	9/24/2020	0000501	United Textile Inc	231.67
054230	9/24/2020	0000516	Valley Truck & Tractor Co	215.65
054231	9/24/2020	0000526	VWR International Inc	648.96
054232	9/24/2020	0000529	Waste Management	164.96
054233	9/30/2020	0000043	Benefit Coordinators Corporation	3,262.04
054234	9/30/2020	0000084	CA State Disbursement Unit	350.00
054235	9/30/2020	0000339	Nationwide Retirement Solutions	1,550.00
054236	9/30/2020	0000339	Nationwide Retirement Solutions	4,100.00
054237	9/30/2020	0001035	Operating Engineers Local Union No. 3	1,300.00
W00159	9/30/2020	0000086	CalPERS 457 Plan	20,645.49
W00160	9/30/2020	0000087	CalPERS Financial Reporting & Accounting	81,782.23
W00161	9/30/2020	0000176	EDD	16,378.93
W00162	9/30/2020	0000561	United States Treasury	66,443.54
Bank U Total:				<u>1,119,783.00</u>
Report Total:				<u><u>1,119,783.00</u></u>

I hereby authorize the use of my signature plate on
the above-listed warrants, 054146-054237, and EFTs W00159-W00162

 Signature

Jayna Karpinski-Costa, President of the Board

 Date

S.Y.M.V.C.D
FY 2020-2021 Budget Update
September 2020

Account #	Account Description	3 Months Ended September 30, 2020	FY 20-21 Annual Budget	Unused
4000	REVENUE	\$ -	\$ -	\$ -
5000	SALARIES/BENEFITS/WC	\$ 3,125,408.50	\$ 8,793,710.68	\$ 5,668,302.18
5200	OPERATIONAL	\$ 3,053,382.53	\$ 6,478,412.05	\$ 3,425,029.52
5210	LIABILITY INSURANCE	\$ 161,762.05	\$ 171,762.05	\$ 10,000.00
5250	AUDITING/FISCAL	\$ -	\$ 17,750.00	\$ 17,750.00
5270	COMMUNICATIONS	\$ 16,600.63	\$ 79,500.00	\$ 62,899.37
5310	PUBLIC INFORMATION	\$ 73,656.36	\$ 502,500.00	\$ 428,843.64
5340	STRUCTURE & GROUNDS	\$ 19,428.78	\$ 65,000.00	\$ 45,571.22
5370	MEMBER/TRAINING	\$ 26,623.99	\$ 113,000.00	\$ 86,376.01
5390	DISTRICT OFFICE EXPENSES	\$ 1,182.56	\$ 17,500.00	\$ 16,317.44
5430	PROFESSIONAL SERVICES	\$ 48,495.41	\$ 203,250.00	\$ 154,754.59
5440	MATERIALS & SUPPLIES	\$ 3,131.84	\$ 13,000.00	\$ 9,868.16
5450	RENTS & LEASES	\$ 2,422.40	\$ 11,550.00	\$ 9,127.60
5470	SAFETY PROGRAM	\$ 410.00	\$ 5,000.00	\$ 4,590.00
5480	UTILITIES	\$ 25,393.14	\$ 110,000.00	\$ 84,606.86
6120	AIRCRAFT SERVICES	\$ 383,586.50	\$ 955,000.00	\$ 571,413.50
6140	ECOLOGICAL MANAGEMENT	\$ 93.49	\$ 18,600.00	\$ 18,506.51
6160	MICROBIAL	\$ 791,788.26	\$ 1,550,000.00	\$ 758,211.74
6170	BIORATIONALS	\$ 791,441.71	\$ 1,000,000.00	\$ 208,558.29
6180	INSECTICIDES	\$ 523,849.75	\$ 1,100,000.00	\$ 576,150.25
6220	FISHERIES	\$ 3,867.49	\$ 27,000.00	\$ 23,132.51
6280	GEOGRAPHIC INFO SYSTEMS	\$ -	\$ 9,100.00	\$ 9,100.00
6320	INFORMATION TECHNOLOGY	\$ 17,975.03	\$ 68,500.00	\$ 50,524.97
6350	CONTROL OPERATIONS	\$ 10,007.81	\$ 40,200.00	\$ 30,192.19
6370	SHOP	\$ 42,377.12	\$ 98,000.00	\$ 55,622.88
6420	LAB SERVICES	\$ 57,128.94	\$ 148,200.00	\$ 91,071.06
6450	GAS & PETROLEUM	\$ 52,159.27	\$ 154,000.00	\$ 101,840.73
7000	CAPITAL ACCOUNTS	\$ 7,061.18	\$ 615,651.27	\$ 608,590.09
7011/1510	Capital Outlay/Construction In Progress	\$ -	\$ 233,000.00	\$ 233,000.00
7030	Contingency	\$ -	\$ 72,651.27	\$ 72,651.27
7030	Research Fund	\$ -	\$ 25,000.00	\$ 25,000.00
7035	Building Improvement	\$ 7,061.18	\$ 285,000.00	\$ 277,938.82
	TOTALS			
	Salaries/Benefits	\$ 3,125,408.50	\$ 8,793,710.68	\$ 5,668,302.18
	Operational	\$ 3,053,382.53	\$ 6,478,412.05	\$ 3,425,029.52
	Capital Accounts	\$ 7,061.18	\$ 615,651.27	\$ 608,590.09
	Total Budget	\$ 6,185,852.21	\$ 15,887,774.00	\$ 9,701,921.79

SYC Balance Sheet
As of 9/30/2020

Sacramento Yolo MVCD (SYC)

Assets

Current Assets

Cash in Bank-FSA	28,761.36	
Cash with LAIF	7,166,750.27	
Petty Cash	600.00	
US Bank	(384,160.36)	
Accounts Receivable	1,789.69	
Assigned - Cash With VCJPA	1,607,140.00	
Inventory	720,666.68	
Total Current Assets:		9,141,547.64

Fixed Assets

LAND, BLDG., IMPROVEMENT	1,175,092.88	
Construction in Progress	1,897.20	
EQUIPMENT	4,436,427.83	
BOND ROAD	5,061,395.00	
WOODLAND FACILITY	708,574.00	
ACCUMULATED DEPRECIATION	(7,131,794.54)	
Total Fixed Assets:		4,251,592.37

Other Assets

Deferred Outflows of Resources	7,419,528.00	
Deferred Outflows of Resources-GASB 75	427,109.00	
Total Other Assets:		7,846,637.00
Total Assets:		21,239,777.01

Liabilities

Current Liabilities

Accounts Payable	323,867.28	
Payroll Taxes Payable	(0.30)	
Voluntary TL & AD&D	(643.93)	
Voluntary STD	(459.92)	
FSA Deductions	122,051.81	
P.E.R.S. Deductions	(1.04)	
Safety Program	(1,530.00)	
Accumulated Vacation	386,052.62	
Total Current Liabilities:		829,336.52

Long-Term Liabilities

Net Pension Liability	13,470,191.00	
Net OPEB Liability	1,151,973.00	
Deferred Inflow of Resources	1,197,703.00	
Deferred Inflow of Resources-GASB 75	101,685.00	
Total Long-Term Liabilities:		15,921,552.00
Total Liabilities:		16,750,888.52

Equity

INVESTMENT IN FIX ASSETS	4,575,351.96	
RESERVED CASH (INS.)	1,520,371.00	
Committed-Capital Outlay	700,000.00	
Unassigned - Dry Financing	6,000,000.00	
Retained Earnings-Current Year	(6,184,967.70)	
GENERAL FUND	(4,121,866.77)	
Committed - Vector/Disease Response	2,000,000.00	
Total Equity:		4,488,888.49

SYC Balance Sheet
As of 9/30/2020

Sacramento Yolo MVCD (SYC)

Total Liabilities & Equity:

21,239,777.01

Sacramento-Yolo Mosquito and Vector Control District

October 20, 2020 Board Meeting

3. Reports to the Board

a. Manager's Report

b. Reports from District Departments

- **Lab/Surveillance (Marcia Reed)**
- **Ecological Management (Marty Scholl)**
- **Biological Control (Tony Hedley)**
- **Larval and Adult Control (Steve Ramos)**
- **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.

We are continuing to address the invasive species detection in Winters and the recent find in the Arden Arcade area and surrounding neighborhoods. All of our invasive detections are being handled with increased surveillance, door to door inspections, and both larvicide and adulticide treatments where feasible. The detection found in Davis has not yielded any further numbers although we continue to conduct enhanced surveillance in the area. Our Citrus Heights detection from last year has not re-emerged to date. We anticipate that the behavior of the *Aedes aegypti* mosquito will slow down significantly as the weather cools.

The District auditors have completed the full audit and will present their findings to the Board at the November meeting.

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

b. Reports from District Departments

- **Lab/Surveillance (Marcia Reed)**
- **Ecological Management (Marty Scholl)**
- **Biological Control (Tony Hedley)**
- **Larval and Adult Control (Samer Elkashef)**
- **Public Outreach (Luz Maria Robles)**

LABORATORY

Monthly Report for the October 2020 Board Meeting

Insectary:

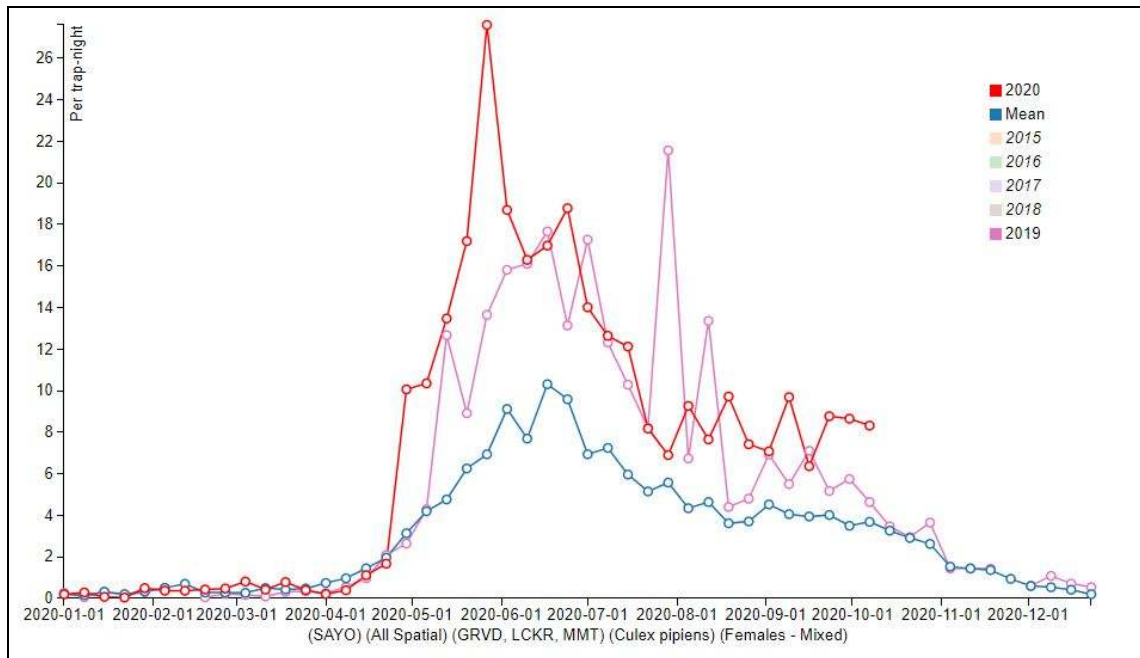
Colonies maintained: *Culex tarsalis* Kern National Wildlife (susceptible)
Culex quinquefasciatus Cq1 (susceptible)
Culex pipiens Woodland (resistant)
Culex pipiens f. *molestus* - wild - Sacramento County
Aedes sierrensis wild - Marin - Sonoma County (in egg form)

We are in the process of restarting a wild *Culex tarsalis* colony from Yolo County.

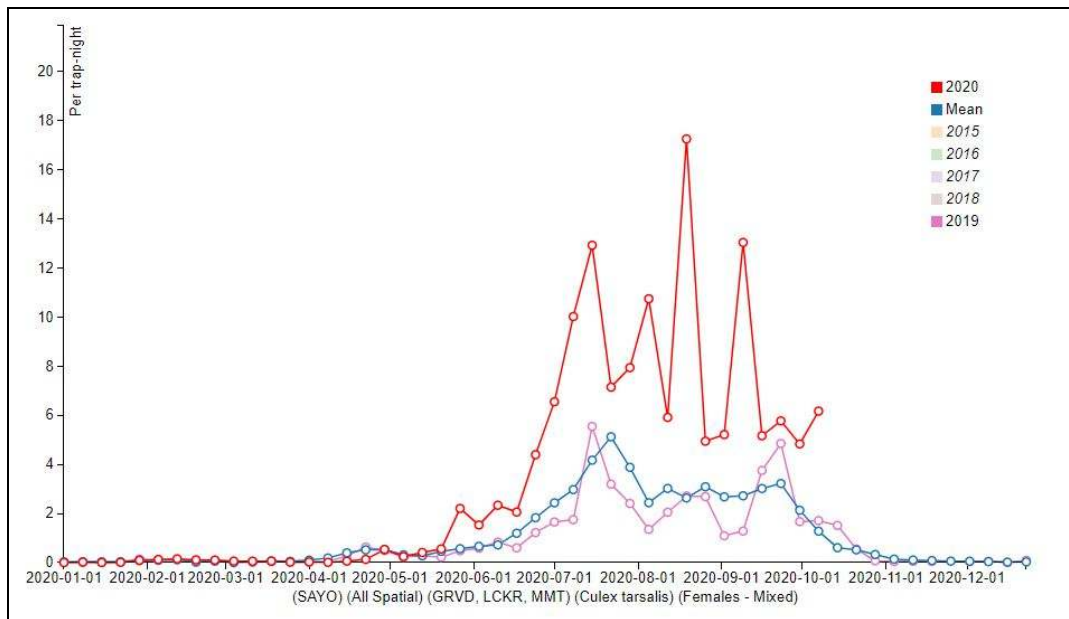
Surveillance:

Weekly collections – The Locker CO₂ Traps (LCKRs) and Gravid traps (GTs) graphs are showing a decline in abundance of both our *Culex pipiens* and *Culex tarsalis* populations. The *Cx. tarsalis* abundance for this year appears high due to the switch from Mosquito Magnet traps to our District locker traps.

Culex pipiens in weekly abundance traps (LCKR, GT):

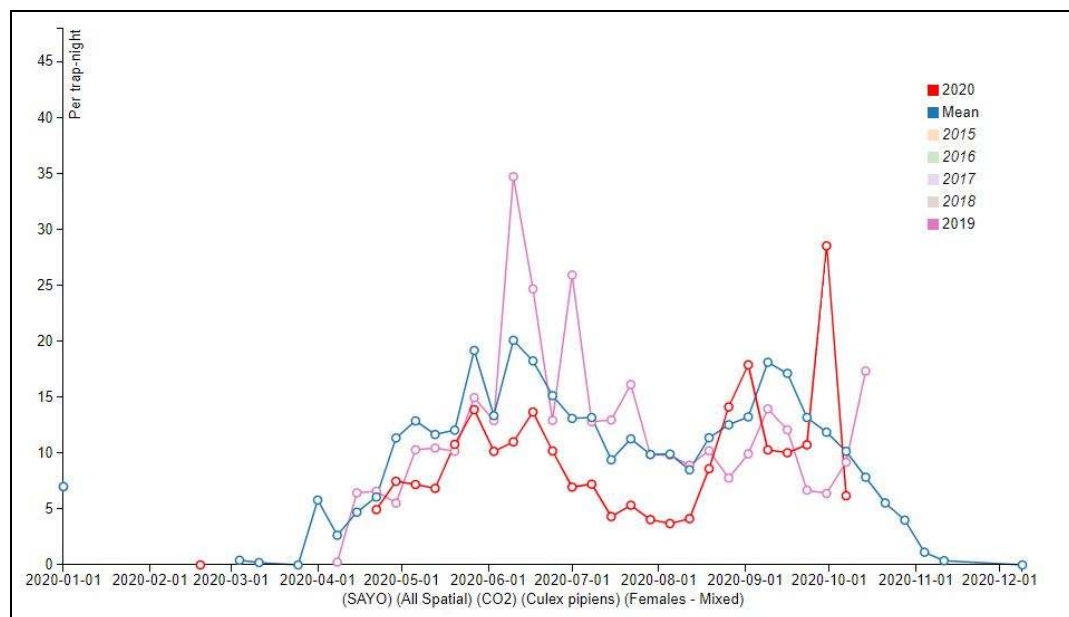


Culex tarsalis in weekly abundance traps (LCKR, GT)

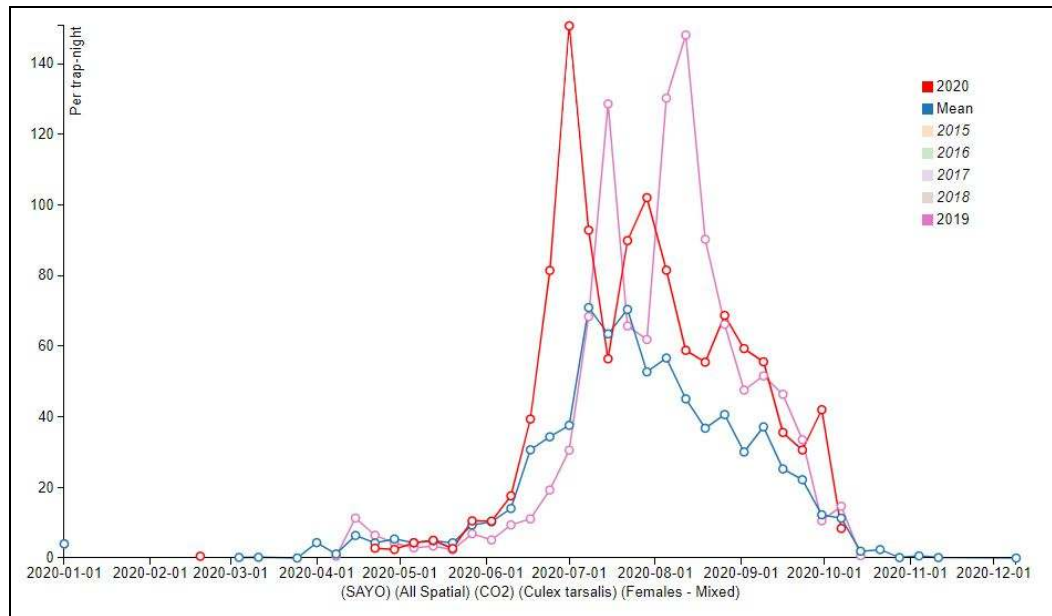


Encephalitis virus surveillance (EVS) – Mosquitoes – We have currently tested 6,797 mosquito pools (samples). Of these, 192 have been positive for West Nile Virus. 77 of these positive pools are from Yolo County and the remaining 115 positive pools are from Sacramento County.

Culex pipiens in CO₂ EVS traps:



Culex tarsalis in CO₂ EVS traps:



Encephalitis virus surveillance (EVS) – Sentinel Chickens – Two flock sites have detected positive chickens. One chicken at the Knights Landing flock and four chickens at the Gibson Ranch flock have tested positive for West Nile Virus. The chickens at the Dunnigan, Isleton and Rancho Murieta flocks are still negative.

Encephalitis virus surveillance (EVS) – Dead Birds – We have picked up and tested 399 dead birds of which 112 have tested positive for West Nile Virus. 87 of the dead birds were from Sacramento County and 25 were from Yolo County. We respond to the finding of positive dead birds by setting EVS traps near their reported locations. In many cases, positive mosquito pools are then found and adult mosquito control measures are initiated.

Tick and Lyme disease surveillance – We will resume tick collecting in November when humidity levels are high enough for tick questing to occur.

BG Counter Traps – We have ended the rice surveillance program for the season and are in the process of removing the majority of the BG counters from the field in preparation for the start of the rainy season.

Mosquito Resistance Testing – We have completed two adult bottle bioassays with two *Cx. tarsalis* populations.

Disease Response Surveillance – In the month of September, we were not notified of any imported mosquito-borne disease cases.

District Studies –

LVL (Low Volume Larvicide) studies – We have are conducting evaluations of this application method utilizing both Vectobac WDG and Altosid Liquid Larvicide.

Adulticide Product Trials – We completed several trials this season; two aerial Merus 3.0, one aerial Dibrom and one ground truck Deltagard evaluation.

Sugar Bait Project – We have concluded the sugar bait program for the year. We found positive detections in 32 sugar bait samples. There were 1355 sugar bait samples tested in total. We hope to be presenting the results of this new surveillance tool at the annual AMCA meeting next spring.

Sumilarv Evaluation – We are assisting control operations in the evaluation of this product in swimming pools.

***Aedes aegypti* traps** – We have continued to primarily utilize the BG sentinel traps for *Aedes aegypti* surveillance. We did set ovicups in Winters to evaluate this surveillance tool.

Collaborations –

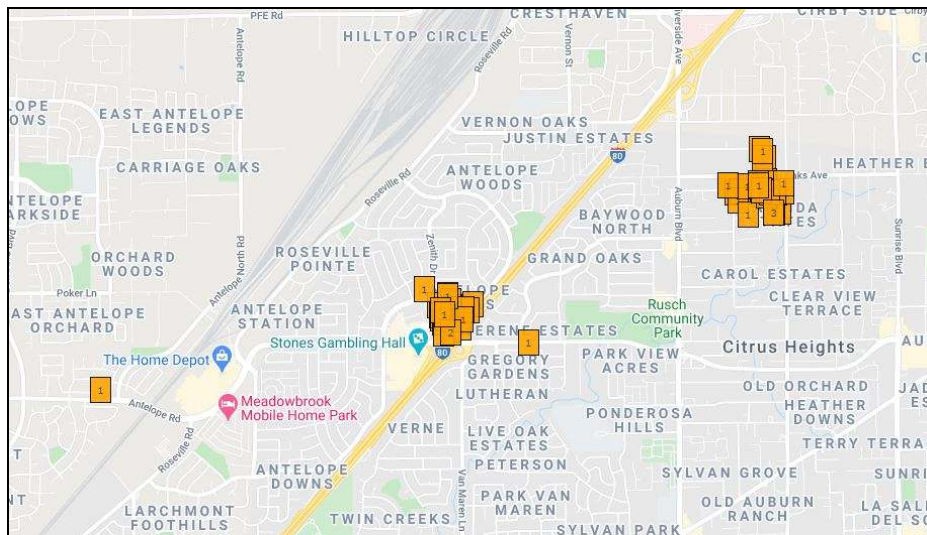
Catch Basin Residue and Resistance study – We have completed the sampling for this season. Three sets of catch basins samples were sent to Dr. Jay Gan's lab at UC Riverside for pesticide residue testing. The areas sampled were Davis, Citrus Heights, the Pocket and downtown Sacramento. There will be a presentation at the MVCAC annual meeting with results from this study.

Natular (spinosad) applied via LVL – Under an experimental use permit we conducted a trial with Clarke Mosquito Control utilizing the LVL application method to apply a spinosad larvicide product. The study results are being summarized by Clarke scientists.

Additional Projects – We are working with two recipients of Pac-Vec Center of Excellence training grants. The first is Dr. Tara Thiemann from UOP (the University of the Pacific in Stockton). Mosquitoes from our two bottle bioassays will be sent to Dr. Thiemann to study *Culex tarsalis* resistance. The second is Dr. Monika Guila-Nuss from UNR (the University of Nevada at Reno). This collaboration is regarding *Ixodes pacificus* ticks and will begin when our tick surveillance program resumes.

Invasive *Aedes* spp. Surveillance – Since the last Board meeting, we have detected several infestations of the invasive *Aedes aegypti* mosquitoes. We are trapping in each of these areas to delineate the boundaries. The largest infestation at this time is in the city of Winters. A second large infestation is in the area of Arden Arcade. In addition, we identified a single *Ae. aegypti* mosquito from one site in Davis, but subsequent trapping did not detect any additional mosquitoes. We also detected a single *Ae. aegypti* mosquito in southern Citrus Heights, and are in the process of setting additional traps around this location. The lab has made 1,970 BG-Sentinel trap collections. We are receiving water samples from the control staff in both the Winters and Arden Arcade areas with significant numbers of *Ae. aegypti* larva present. We did not find many larval sources last year in the northern Citrus Heights areas.

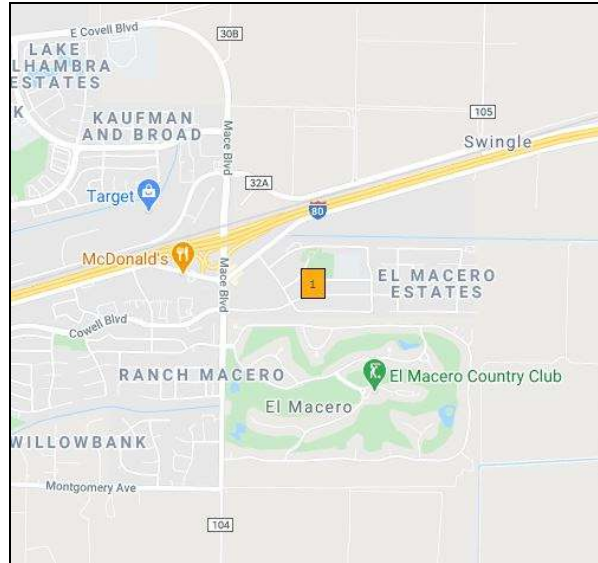
2019: August - Citrus Heights BG Sentinel positive trap data



2020: September 15th initial find – Winters BG Sentinel current positive trap data

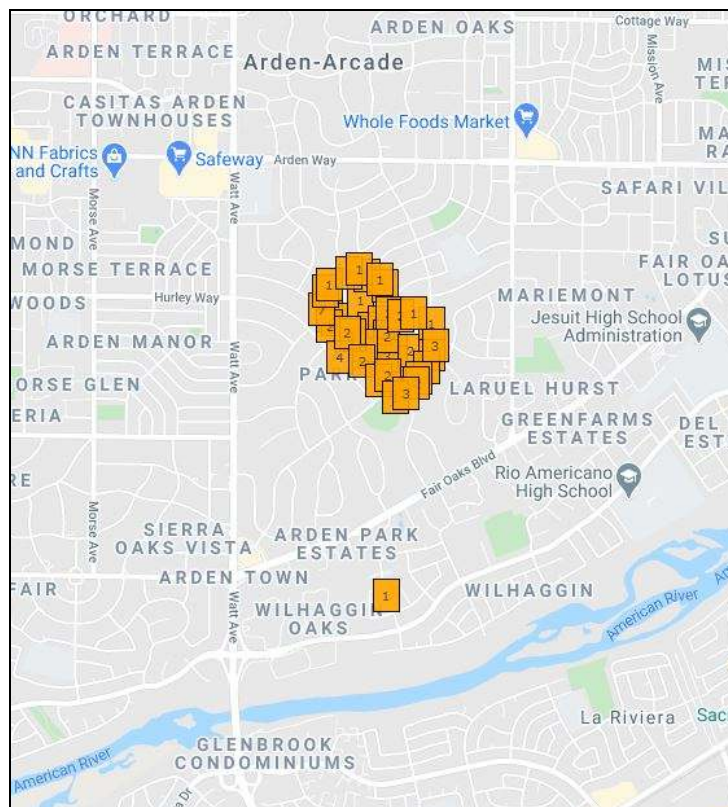


2020: September 29th – Davis gravid trap positive detection



Single female Sept 29th

2020: October 7th – Arden Arcade area BG Sentinel current positive trap data



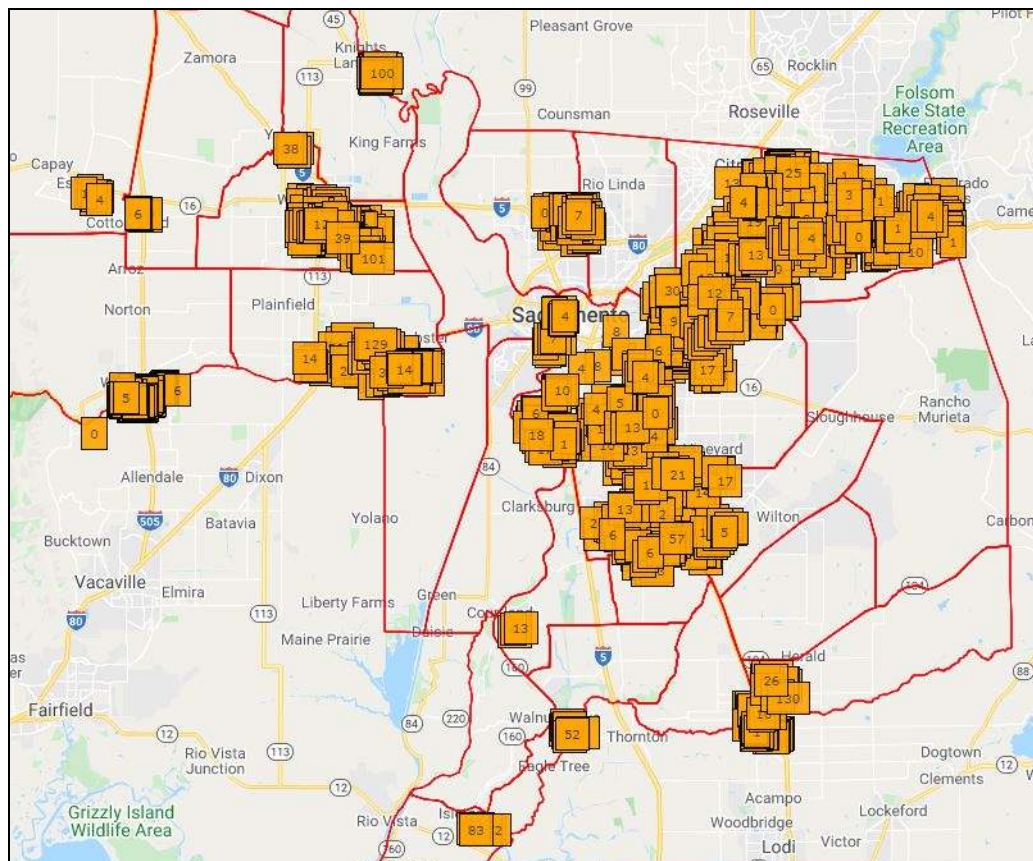
**2020: October 8th – South Citrus Heights area single female in BG Sentinel trap
(currently setting additional locations to determine status)**



Overall trapping effort this year so far:

1,970 distinct trapping events at 1,540 unique locations

185 of these locations were found to be positive for *Aedes aegypti* mosquitoes



California Arbovirus Surveillance Bulletin #26 Week 41: Friday, October 9, 2020

2019 & 2020 YTD West Nile Virus Comparisons		
	2019	2020
Total # Dead Bird Reports	4,897	4,961
# Positive Counties	33	35
# Human Cases	145	114
# Positive Dead Birds / # Tested	193 / 1,556	277 / 1,366
# Positive Mosquito Pools / # Tested	3,225 / 40,566	2,475 / 35,284
# Seroconversions / # Tested	130 / 7,920	121 / 5,555

YTD WNV Activity by Element and County, 2020					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			2		
Amador		1			
Butte	4	1	3	28	23
Contra Costa	2		17	12	4
El Dorado	1				
Fresno	6		5	316	
Glenn	1	1		3	2
Imperial				3	
Kern	1			82	
Kings	1	1		87	
Lake				12	2
Los Angeles	34		71	367	25
Madera	5			77	
Marin			1		
Merced	9	1	2	41	14
Napa			1	2	
Nevada		1			
Orange	6		38	270	
Placer	1		2	58	
Riverside	3	2	2	62	
Sacramento	1		86	114	4
San Benito					1
San Bernardino		1		12	
San Diego	1			2	
San Joaquin		3	4	254	
San Mateo			1		
Santa Clara			6	8	
Shasta				25	3
Solano			1	8	3
Stanislaus	32	3	4	350	
Sutter	1			20	24
Tehama	1				5
Tulare	3		3	184	9
Yolo	1		28	76	1
Yuba				2	1
Totals	114	15	277	2,475	121

ECOLOGICAL MANAGEMENT DEPARTMENT
Monthly Report for the October 2020 Board Meeting

Storm Water / Drainages Program

Rancho Murieta Community Services District(RMCSD): Staff provided two light traps for the RMCSD to utilize and develop a midge fly sampling protocol. The first trapping event filled the trap in one night.

Mindy Ln, Wilton, CA: Staff has been working on coordinating a combination brush and ditch cleaning project off of Mindy Ln and Freeman Rd near Wilton with thirteen individual property owners. In an effort to assist the District with assessing the drainage ditches and blocked culverts, the County of Sacramento Roadside Drainage Department mowed and will pressure clean culverts along Freeman Rd.

Wetland Program / Rice Programs

Fall Flooding: The District's Fall Flooding Cost Share program came to a close on October 7th. For this season, seven individual properties flooded prior to October 1st and received treatments. Aerial imagery was collected at the time of flooding and/or in conjunction with treatments and will be included with each invoice.

In addition to the flooding of wetlands for waterfowl hunting there were a handful of Shorebird programs that also had some shallow flooding. A total of four individual properties participated in either the USDA's Natural Resources Conservation Service (NRCS) or The Nature Conservancy's (TNC) Shore Bird programs. Only one property location required multiple treatments, and will be billed according to the Cost Share agreement.



Shore Bird habitat South Yolo Bypass

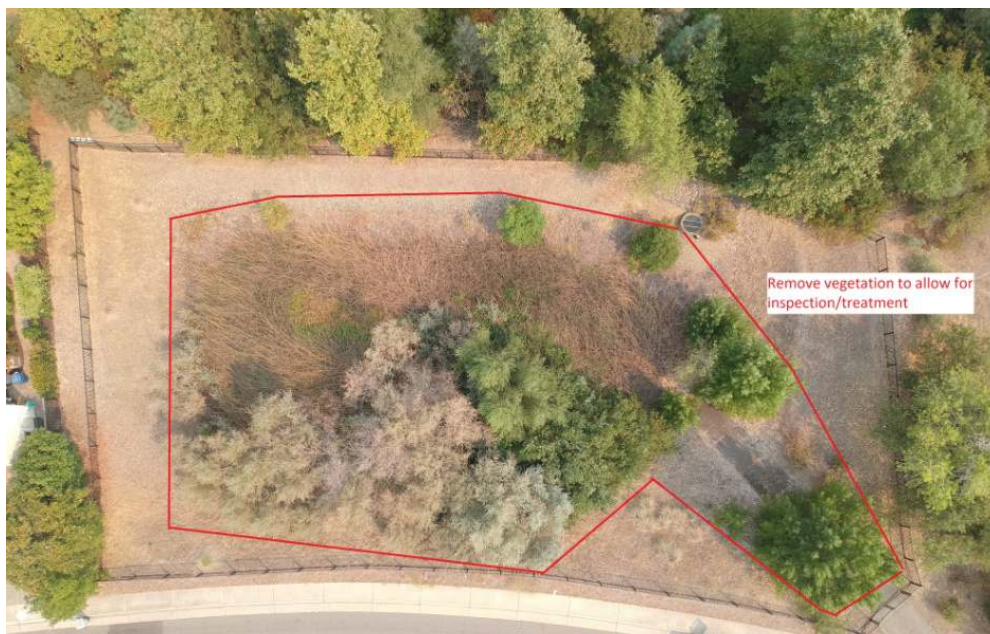
Agriculture Program

Staff has been assisting with some of the South Sacramento operations as seasonal employees have begun to vacate their summer positions. Ecological Management Staff utilized the UAS aerial imagery to help locate standing water to help prioritize dipping and ground treatments.



Flood irrigated organic pear orchard

Staff has organized many winter brush and access projects on agricultural properties as well as in various urban drainages. Staff has serviced all power hand tools and has purchased additional units to aid hand crews working in multiple locations.



Aerial image of vegetated detention basin, Folsom, CA

Planning Review Program

The Department continues to receive planning documents and reviews each project and makes comments on a case by case basis.

City of Galt; Caterina Estates Project: Staff has reviewed the City's Mitigated Negative Declaration (MND) for the Caterina Estates projected located at the Southwest corner of Joy Dr. and H Street, East of the railroad. The project consists of sixty seven single family houses with the addition of a large Stormwater detention basin. The District is requesting additional information regarding the long term operation and maintenance of the detention basin.

UAS Program

In addition to coordinating UAS treatments with Leading Edge Aerial Technologies, Inc., staff has been busy documenting the various flood dates and individual fields for the Department's Fall Flooding program. Aerial images were taken just before key program dates as well as near treatment dates to help answer any billing inquiries that may arise at time of invoicing.



Flooded duck pond

BIOLOGICAL CONTROL

Monthly Report for the October 2020 Board Meeting

In the month of September the Fisheries department has shifted its focus from rice field stocking to pond rehab and the wetland program. The wetland program consists of contacting land management owners and working closely with the Ecological Management department field personnel for sensitive habitats and flood up schedules. The majority of Sacramento and Yolo wetlands are located within 2 miles of dense populations such as Davis, West Sacramento and the Pocket area. These wetlands will be stocked as quickly as possible based on larval densities and historical data.

Pond rehab consists of draining down designated ponds, harvesting every fish possible, moving rocks, patching holes and then removing loose debris. Daily activities such as tank cleaning, water quality monitoring, setting out aerators and pumps were also performed to maintain the high quality of our fish population. The Fisheries department continues with many projects including monitoring dissolved oxygen levels, crayfish trapping and trying to determine ideal stocking rates in rice fields and wetlands.

Log of Treatment Applied for September

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Rate</u>	<u>Treatments</u>
Mosquitofish	110.33 lbs.	281.44 Acres	.39 lbs./ac	196

Log of Treatment Applied for the year 2020

<u>Material</u>	<u>AMT</u>	<u>Area Treated</u>	<u>Rate</u>	<u>Treatments</u>
Mosquitofish	3,099.38 lbs.	16,454.72 Acres	.18lbs./ac	3,986

Fisheries Budget

<u>Total</u>	<u>Spent</u>	<u>Remaining</u>	<u>% Spent</u>
27,000.00	4,021.69	22,978.31	15%

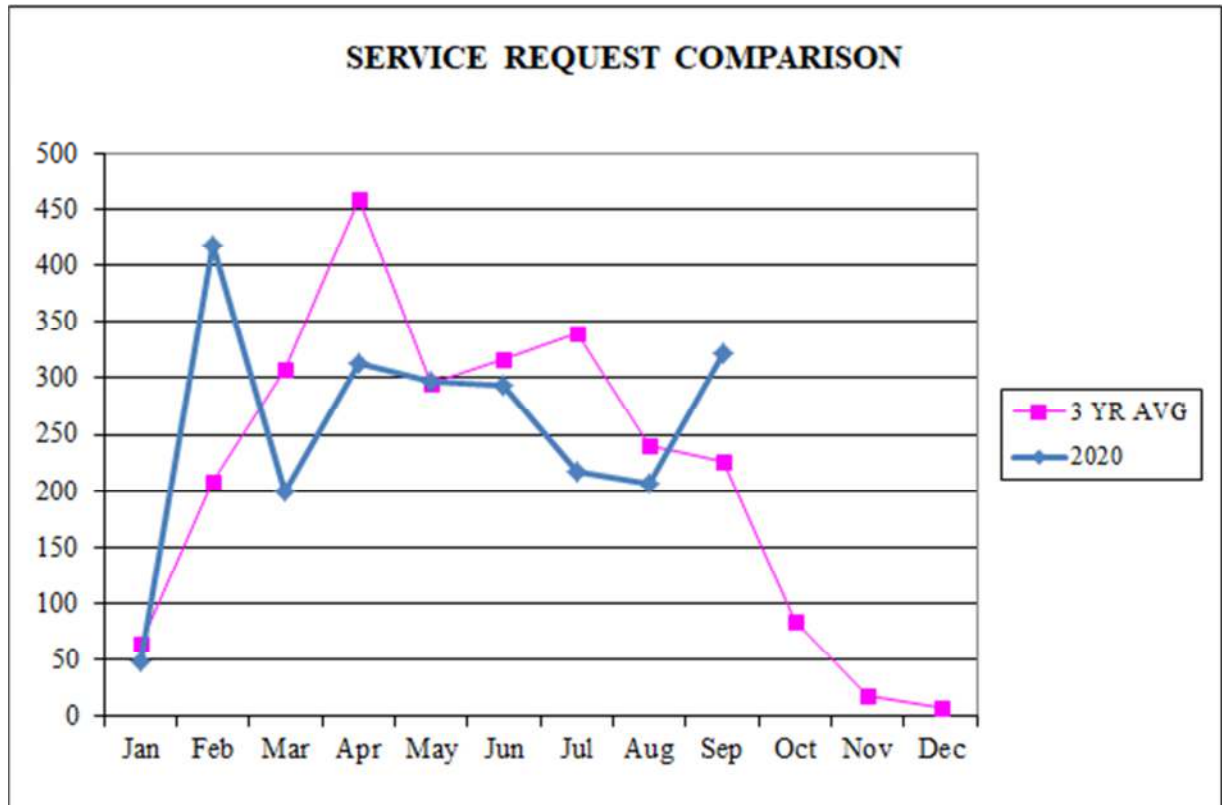
A couple examples of wetland habitat in the Vic Fazio wildlife area. There are a lot of areas that are open water with light vegetation making ideal habitat for mosquitofish.



CONTROL OPERATIONS

Monthly Report for the October 2020 Board Meeting

September saw rice fields draining and wetland habitats beginning their flood up season. There was a spike in service requests for adult mosquitoes which was mostly a result of rice fields drying up and adult mosquitoes moving into surrounding neighborhoods to find suitable habitats. Technicians in rural communities are still busy tending to crops and pastures as landowners are finishing up their final irrigations. Crews have also been responding to the extensive invasive Aedes trapping being performed in Winters with door to door inspections and treatments of suburban sources. In addition, truck mounted larviciding has been performed in the city of Winters to help suppress invasive Aedes breeding in town.



Larvicide Applications thru September 30th				
	<u>2020</u>		<u>2019</u>	
<u>Locations/Roles</u>	<u>Treatments</u>	<u>Acres</u>	<u>Treatments</u>	<u>Acres</u>
Sacramento County	8,323	7,869	5,894	13,932
Sac County Aerial	24 Order, 388 Sources	13,219	24 Orders, 487 Sources	18,293
Sac County Drone Treatments	15 orders	593.49		
Yolo County	1,930	6,045	2,181	8,343
Yolo County Aerial	69 Order, 1079 Sources	63,435	57 Orders 899 Sources	74,813
Yolo County Drone Treatments	11 Order	699.03		
CB Treated	150,008	--	171,528	--
CB Inspected -not treated	149,188	--	146,736	--

Aerial Adulticide Summary thru September 30th				
	<u>2020</u>		<u>2019</u>	
<u>County</u>	<u># Applications</u>	<u>Acres</u>	<u># Applications</u>	<u>Acres</u>
Sacramento Ag	10	107,604	6	76,422
Sacramento Urban	0	0	0	0
Yolo Ag	36	475,124	20	376,115
Yolo Urban	0	0	0	0
Totals		582,728		452,537

VDCI Summary through September 30th, 2020

compared to: 2019

Contract Acres (our portion) =	530,000	530,000
Acres used =	582,728	452,557
Acres remaining =	(-52,728)	(77,443)
% Acres used =	109%	85%
% Acres remaining =	0%	15%

San Joaquin County MVCD has used 126,149 acres of their 190,000 acre contract commitment.
Placer MVCD has used 74,941 acres of their 100,000 acre commitment.
Turlock MAD has used 170,164 acres of their 180,000 acre commitment.

PUBLIC INFORMATION AND EDUCATION
Monthly Report for the October 2020 Board Meeting

Advertising and Media:

As a result of detecting invasive *Aedes aegypti* mosquitoes for the first time in Yolo County, we received significant media coverage. The mosquitoes were found in Winters on September 15th and shortly afterwards we issued a press release detailing this initial discovery. Press releases were also issued for the finds in Davis and the Arden-Arcade area of Sacramento County.

We obtained news coverage in the Sacramento Bee, Woodland Daily Democrat and the Davis Enterprise. In addition, we coordinated with the Winters Express for an extensive article that was printed the week after the initial discovery. There has been ongoing news coverage regarding the detection in Winters and our ongoing efforts to control the infestation.

In Winters, aside from the news articles we also ran English and Spanish ads in the local newspaper to ensure that residents were being informed of this new detection.

In the days following the finding of invasive mosquitoes we also obtained news coverage from Fox 40 news, Univision and Telemundo.

Social media and Nextdoor

After the initial detection of invasive mosquitoes in Winters, District staff began door to door outreach in affected neighborhoods. Field technicians utilized the door hanger that was produced last year along with a public relations bag that was left at all homes that also included an informational brochure, a magnetic business card, repellent wipes and a pen.

Social media messages specific to invasive Aedes mosquitoes were posted on all platforms along with Facebook posts that were boosted specifically to Winters residents. In addition, we also used Nextdoor to post specific messages regarding the findings in Winters encouraging residents to sign up for email spray notifications.

We collaborated with staff from the Winters City Hall to include mosquito prevention messages on the city Facebook page. In addition, we included a short write up regarding invasive mosquitoes that was included in the city newsletter sent out to all residents as part of their utility bill.

There will be ongoing social media posts targeting neighborhoods and communities where invasive mosquitoes are detected.

Presentations:

A community presentation was given to the Sunrise/Laguna Rotary Club on September 24th. In addition, a presentation was also provided to the Winters Rotary Club on October 1st to inform members of the invasive Aedes detection and provide an update on all of our efforts.

Our District Manager, Gary Goodman gave a presentation to the Winters City Council on October 6th to ensure local elected officials are informed and kept updated of all District activities throughout Winters.

Repellent and Materials Distribution:

We provided repellent to the Winters Chamber of Commerce which was distributed to various businesses throughout the city as part of our community outreach. In addition, repellent was also delivered to the City of Davis to be distributed to their Parks and Recreation department and to be used for other activities.

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