

SUTTER-YUBA MOSQUITO & VECTOR CONTROL DISTRICT AGENDA

701 Bogue Road, Yuba City, CA. (530) 674-5456
Thursday, February 9, 2023, 4:30 P.M.

1. Call to Order
2. Pledge of Allegiance
3. Emergency Agenda Items
motion
4. Consent Agenda:
The Consent Calendar groups together those items which are considered noncontroversial or for which prior policy direction has been given to staff and that requires only routine action by the Board. The Chair will advise the audience that the matters may be adopted in total by one motion; however, the Board may, at its option or upon request of a member of the public, consider any matter separately.
motion
- A. Minutes of January 12, 2023
- B. Bills for January 2023
5. Declaration of District Property as Surplus: Board approval is needed to declare District property as surplus so it can be sold at auction.
motion
6. Approval to purchase bird exclusion netting: Recent high winds have destroyed the existing net.
motion
7. Approval of Administrative Assistant I and II positions, job descriptions and salary ranges.
motion
8. Public Comments
9. Manager Comments: The manager will report on the following:
 - a) MVCAC Annual Conference, Anaheim CA Jan 30 - Feb 1, 2023
 - b) VCJPA Annual Workshop Feb 23-24, 2023
 - c) District activities
10. Trustee Comments
11. Adjournment
motion

Any person, who needs a disability-related modification or accommodation to participate in this meeting, should contact the District at (530) 674-5456 or by fax at (530) 674-5534. Requests must be made as early as possible and at least 72 hours prior to the meeting for the District to make reasonable arrangements and ensure accessibility.

**2022-2023
SUTTER-YUBA MOSQUITO & VECTOR CONTROL DISTRICT
BUDGET**

	Expended January 2023	Budget	Spent YTD	Balance
SALARIES & BENEFITS				
51010 PERMANENT SALARIES	103,232.00	1,256,000.00	678,178.82	577,821.18
51020 EXTRA HELP	0.00	256,000.00	141,977.20	114,022.80
51102 PAYROLL TAXES SPECIAL DIST	1,493.01	40,000.00	20,525.53	19,474.47
51110 RETIREMENT	0.00	75,000.00	66,122.00	8,878.00
51120 HEALTH,DENTAL,VISION INS	37,479.22	440,000.00	245,131.35	194,868.65
51121 DEF COMP	10,430.38	117,000.00	67,557.31	49,442.69
51130 UNEMPLOYMENT INSURANCE	8,689.00	60,000.00	9,788.00	50,212.00
51150 WORKERS COMPENSATION	0.00	57,193.00	56,894.00	299.00
TOTAL SALARIES & BENEFITS	161,323.61	2,301,193.00	1,286,174.21	1,015,018.79

SERVICES & SUPPLIES				
52040 CHEMICALS	535.51	1,050,000.00	871,073.72	178,926.28
52050 CLOTHING & PERSONAL	724.39	19,000.00	6,222.28	12,777.72
52060 COMMUNICATIONS	1,032.24	18,000.00	8,728.00	9,272.00
52090 HOUSEHOLD EXPENSES	48.89	2,000.00	367.08	1,632.92
52100 INSURANCE LIABILITY	10,083.00	85,500.00	70,450.00	15,050.00
52120 MAINTENANCE EQUIPMENT	3,324.98	33,000.00	17,827.75	15,172.25
52130 MAINT. STRU. & GRNDS	1,323.85	20,000.00	14,403.76	5,596.24
52150 MEMBERSHIPS	0.00	14,000.00	13,932.47	67.53
52170 OFFICE EXPENSES	871.29	15,500.00	6,565.80	8,934.20
52180 PROF. & SPEC. SERVICES	2,127.50	430,000.00	304,924.82	125,075.18
52190 PUBL. & LEGAL NOTICES	0.00	15,000.00	5,367.06	9,632.94
52200 RENTS & LEASES EQUIP	115.00	2,000.00	480.40	1,519.60
52210 RENTS-LEASES STRU & GRN.	0.00	16,250.00	16,386.39	-136.39
52220 SMALL TOOLS & INSTRUMENTS	124.69	4,000.00	1,215.42	2,784.58
52230 SPECIAL DEPT EXPENSES	620.00	10,000.00	3,740.00	6,260.00
52239 BIOLOGICAL CONTROL	27.87	10,000.00	6,031.67	3,968.33
52241 ENTOMOLOGY/LAB	1,654.50	24,000.00	19,058.95	4,941.05
52250 TRANSPORTATION-TRAVEL	2,653.17	77,500.00	38,184.32	39,315.68
52260 UTILITIES	1,398.04	15,000.00	7,707.36	7,292.64
TOTAL SERVICES & SUPPLIES	26,664.92	1,860,750.00	1,412,667.25	448,082.75

OTHER CHARGES				
53401 Treasury Fee	1,434.31	6,000.00	3,015.38	2,984.62
53550 Taxes and Assessments	0.00	400.00	0.00	400.00
TOTAL OTHER CHARGES	1,434.31	6,400.00	3,015.38	3,384.62

FIXED ASSETS				
54501 EQUIPMENT	0.00	69,500.00	89,387.60	-19,887.60
54502 STRUCTURES & GROUNDS	8,314.36	106,000.00	121,110.42	-15,110.42
TOTAL FIXED ASSETS	8,314.36	175,500.00	210,498.02	-34,998.02
TOTAL EXPENDITURES	197,737.20	4,343,843.00	2,912,354.86	1,431,488.14

EXPECTED REVENUE TOTAL: TBD
REVENUE RECEIVED JANUARY: \$ 1,165,779.17
REVENUE FY TO DATE: \$ 2,354,797.71

JANUARY 12, 2023 MINUTES

The regular meeting of the Sutter-Yuba Mosquito & Vector Control District Board of Trustees was called to order by Board President David Schmidl at 4:30 P.M., Thursday, January 12, 2023.

PRESENT: Board President Schmidl, Board Secretary Sanbrook, Trustees Guzman, Ghag, Link and Corazza

ABSENT: Trustee Kirchner

ALSO PRESENT: Manager Abshier, General Foreman Hunt and Ken Meyers of Meyers Investment Group.

EMERGENCY AGENDA ITEMS: None

CONSENT AGENDA:

- A. MINUTES OF DECEMBER 8, 2022
- B. BILLS FOR DECEMBER 2022
- C. MERIT INCREASE FOR BILL TERBUSH

Merit increase for Bill Terbush, Field Foreman. Mr. Terbush is being recommended for a salary increase to be effective January 1, 2023. The salary increase will be from step 3 to step 4 of the salary range schedule for Field Foreman.

A motion was made by Ghag and seconded by Sanbrook approving the consent agenda. The motion was approved by a unanimous vote.

ELECTION OF OFFICERS FOR 2023: A motion was made by Sanbrook and seconded by Ghag approving the continuation of David Schmidl as Board President. The motion was approved by a unanimous vote. A motion was made by Ghag and seconded by Link approving the continuation of John Sanbrook as Board Secretary. The motion was approved by a unanimous vote.

QUARTERLY REVIEW OF THE DISTRICT'S DEFINED BENEFIT PLAN INVESTMENTS AS OF DECEMBER 31, 2022: Meyers addressed the Board stating the plan had a rough year. The portfolio ended down 12.90% for 2022. Meyers added that YTD in 2023, the portfolio is up 2.83%. Meyers noted that Millennium Partners was up 3.01% for 2022, Hahn Midcore lost 27.88%, Sun Coast was down 23.4%, and one of the newly acquired funds, PIMCO ended the year down 13.64%. Meyers advised bond funds will not do well in 2023. Meyers added this year should be a good year with interest rates trending downward late year. Meyers is not recommending any changes in investments at this time. A motion was made by Schmidl and seconded by Ghag to accept the Defined Benefit Plan Investment Quarterly Review. The motion was approved with a unanimous vote.

RESOLUTION NO. 01-12-23: First installment of Yuba County Taxes: A motion was made by Guzman and seconded by Ghag approving Resolution No. 01-12-23, requesting the first installment of Yuba County taxes. The motion was approved by a unanimous vote.

PROPERTY FLOOD INSURANCE RATES FOR 2023: Our current flood insurance policy is good through February 26th 2023. Abshier noted for \$10,083, the policies would cover eight buildings owned by the District and their contents including buildings on Market Street in Yuba City. The cost of coverage has increased 5.7% over the premium paid in 2022. Abshier noted we are rated zone X, a minimum risk zone. Currently the level of Shasta Lake is 40% of capacity with Oroville Lake at 49% capacity. The current snowpack for the Central Sierra is 228% of normal for this date and 104% of the April 1 average. A motion was made by Schmidl and seconded by Sanbrook to approve the purchase of flood insurance for one year at \$10,083. The motion was approved by a unanimous vote.

PUBLIC COMMENTS: None

MANAGER COMMENTS:

a) Abshier attended the MVCAC Planning Meeting in Oakland December 5-7, 2022. A written report was provided outlining the topics discussed; including funding for Calsurv as a line item in the California state budget and a request for state funding for invasive Aedes control. Novel control methods include irradiating male mosquitoes, modified males and Wolbachia infected mosquitoes. CDPH is making a funding request for the Dead Bird hotline in the amount of \$33,000 from the MVCD. This controversial issue will come to a vote at the MVCAC meeting in Anaheim. Abshier believes each District should be charged based on their actual usage of the hotline service.

b) Six employees obtained DPR CE hours attending the Spray Safe meeting at the Yuba-Sutter Fairgrounds January 11, 2023.

c) The Sutter County Ag Department conducted an annual compliance inspection January 10, 2023. Annually they check our training records for respirators, pesticide labels and also inspect PPE and pesticide storage areas. No violations were noted. We strive to maintain a good working rapport with our Ag Department. The Agriculture Commissioners of both counties have a positive attitude towards growers and strive help them to stay in compliance.

d) Six Ring cameras have been installed and are operating. Selected District personnel are able to monitor activity on the cameras via cell phone. The coverage areas should prove beneficial with the main concern being the District vehicles.

e) District activities

- The annual WOTUS report is due by February 28, 2023.
- High winds destroyed the bird exclusion netting over four ponds at the Barker Fish Farm. The netting was installed in 2016 at a cost of \$6,588.14. We do not have coverage with the VCJPA to cover the loss.
- The conflict of interest form 700 needs to be completed by all Trustees.
- Staff is working on a huge list of winter projects including equipment maintenance and repair.
- Corazza requested Abshier brief the Board concerning Highly Pathogenic Avian Influenza. Abshier advised Entomology staff takes precautions to prevent transmission between our chicken flocks by wearing disposable boot covers and gloves which are disposed of between flocks. The District tests dead birds for mosquito borne diseases, the CDFA and the CDFW tests for HPAI. The risk for human infection is low. One death of a poultry worker was reported in the US in 2022.

TRUSTEE COMMENTS: Link asked if the security fencing at Market Street had been completed. Abshier noted the fencing has been ordered and scheduled for pick up January 19th. Preparation for the fencing has been delayed due to the wet weather.

ADJOURNMENT: There being no further business, a motion was made by Sanbrook and seconded by Link to adjourn the meeting. The motion was approved by a unanimous vote. Trustee Schmidl adjourned the meeting.

John Sanbrook, Board Secretary

Position: Administrative Assistant I

Nature of Work:

Under the direction of the Administrative Manager, this position is regarded as administrative and assists in organizing and controlling administrative records. The individual who fills this position will perform clerical work and other routine office functions.

Examples of Tasks:

- Assists in recordkeeping, reporting and business office procedures. Assists, as directed, in maintenance of budgetary and fiscal records, reviewing costs data and personnel records; devises and creates forms as required. Enters time and pesticide application data and prepares summary and statistical reports.
- Assists Administrative Manager in providing necessary records for CPA annual audit.
- Maintains fixed-asset inventory records and sets up and maintains fixed-asset inventory control system
- Maintains all records pertaining to the Board of Trustees, including agendas, minutes, resolutions, committees, terms of office, attendance records, appointments and legal documents, as well as prepares Board packets for Board meetings and uploads them to the website in a timely manner.
- Compiles data for and assists with Pesticide Use Reports, as well as, once approved, submitting to the proper agencies in a timely manner.
- Prepares and processes timesheets, time off requests, and assists Administrative Manager with processing monthly payroll.
- Maintains and organizes bills, as well as process and submit claim forms and deposits to the County Auditor and Treasurer Tax Collector's office.
- Drives to collect mail and process outgoing mail.
- Maintains insurance records of contracts, billings, and other transactions.
- Receives phone calls for District services. Informs public of programs available to District residents. Processes and tracks requests for services.
- Produces and provides public relations information through use of social media, email services and website maintenance and updates. Responds to questions from the public regarding District services.
- Represents the District on specified administrative matters in dealing with other public and private organizations
- Keeps informed regarding changes in JPA policies, as well as attends JPA workshops whether online or in-person
- Assists with the tasks of the position of Administrative Manager as directed
- May apply wide area aduldicide sprays from truck mounted foggers when routes are assigned
- Performs related work and other assigned tasks as directed by management in a timely manner

Revised 02/01/2023

KNOWLEDGE, ABILITIES, AND SKILLS

- Knowledge of the duties and responsibilities of the Sutter-Yuba Mosquito & Vector Control District
- Knowledge of District programs and services.
- General knowledge of administrative management including personnel and fiscal administration
- Knowledge of modern office methods and procedures
- Ability to hear, understand, speak and write effectively in English
- Ability to operate a vehicle while observing legal and defensive driving practices
- Ability to establish and maintain effective working relationships with other District employees and the public

PHYSICAL DEMANDS AND ESSENTIAL DUTIES

The position of Administrative Assistant will require work that is varied in nature, including primarily indoor desk work and periodically outdoor physical work. The Administrative Assistant:

- Possess ability to hear, communicate and gather information over the telephone.
- Must be able to periodically operate a motor vehicle.
- Must be able to periodically bend at the knees and waist to perform routine office work.
- Must be able to periodically lift objects weighing up to 50 pounds, such as boxes of copy machine paper.
- Must be able to periodically reach overhead.
- Must be able to periodically perform repetitive motion associated with sorting insect collections.
- Must be able to frequently perform repetitive motion associated with computer usage.

- ❖ Periodically = Activity or condition exists less than 25% of the time.
- ❖ Occasionally = Activity or condition exists 25-50% of the time.
- ❖ Regularly = Activity or condition exists 50-75% of the time.
- ❖ Frequently = Activity or condition exists more than 75% of the time.

EXPERIENCE AND EDUCATION

Equivalent to high school diploma. Graduation from a two-year accredited college preferred.

Word processing skills, experience creating and manipulating spreadsheet applications and a working knowledge of Microsoft Office. Two years of experience with increasing responsibilities in administrative office duties. Licenses in business-related fields desirable.

Current California Driver's License required. Must be insurable with the District's insurance carrier.

Upon employment, you will need to submit verification of your legal right to work in the United States.

WORKING CONDITIONS

Employee may be exposed to pesticides, chemicals, communicable diseases and other health hazards, inclement weather conditions, or verbal confrontations from members of the public. The employee may be required to work nonstandard work schedules including before or after hours, weekends and holidays.

Employee Signature: _____

Date: _____

An Equal Opportunity Employer

Position: Administrative Assistant II

Nature of Work:

Under the direction of the Administrative Manager, this position is regarded as administrative and assists in organizing and controlling administrative records. The individual who fills this position will perform clerical work and other routine to advanced office functions.

Examples of Tasks:

- Assists in recordkeeping, reporting and business office procedures. Assists, as directed, in maintenance of budgetary and fiscal records, reviewing costs data and personnel records; devises and creates forms as required. Enters time and application data and prepares summary and statistical reports.
- Provides support for maintenance of the general ledger and expenditure records, CPA annual audit of all District transactions, prepares monthly financial statement of operation, and prepares cumulative analysis of expenditure accounts for control of existing budget and for use in preparation of following year's budget.
- Assists in administrative service activities, analyzing budgetary problems, and preparing administrative and statistical reports
- Maintains fixed-asset inventory records and sets up and maintains fixed-asset inventory control system
- Maintains all records pertaining to the Board of Trustees, including agendas, minutes, resolutions, committees, terms of office, attendance records, appointments and legal documents, as well as prepares Board packets for Board meetings and uploads them to the website in a timely manner.
- Compiles data for and assists with submission of federal, state, and other public reports, such as the Pesticide Use Reports, as well as, once approved, submitting to the proper agencies in a timely manner.
- Assists Administrative Manager in preparing and processing payroll and related federal and state tax deposits and reports and all other payroll-related documents, such as timesheets, time off requests, and payments
- Maintains and organizes bills, as well as process and submit claim forms and deposits to the County Auditor's or Treasurer Tax Collector's office.
- Drives to collect mail and process outgoing mail.
- Maintains insurance records of contracts, billings, and other transactions.
- Maintains working knowledge of benefits and exclusions specific to insurance providers
- Receives phone calls for District services. Informs public of programs available to District residents. Processes and tracks requests for services.
- Produces and provides public relations information through use of social media, email services and website maintenance and updates. Responds to questions from the public regarding District services.
- Presents at or in public forums such as live events or other media regarding

District programs and services, as directed.

- Represents the District on specified administrative matters in dealing with other public and private organizations
- Maintains Joint Powers Agreement (“JPA”) Ledger; keeps informed regarding changes in JPA policies, as well as attends JPA workshops whether online or in-person
- Assists with the tasks of the position of Administrative Manager as directed
- May apply wide area adulticide sprays from truck mounted foggers when routes are assigned
- Performs related work and other assigned tasks as directed by management in a timely manner

KNOWLEDGE, ABILITIES, AND SKILLS

- Knowledge of the duties and responsibilities of the Sutter-Yuba Mosquito & Vector Control District
- Knowledge of District programs and services.
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- Ability to hear, understand, speak and write effectively in English
- Ability to operate a vehicle while observing legal and defensive driving practices
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- Must be able to periodically operate a motor vehicle.
- Must be able to periodically bend at the knees and waist to perform routine office work.
- Must be able to periodically lift objects weighing up to 50 pounds, such as boxes of copy machine paper.
- Must be able to periodically reach overhead.
- Must be able to periodically perform repetitive motion associated with sorting insect collections.
- Must be able to frequently perform repetitive motion associated with computer usage.

- ❖ Periodically = Activity or condition exists less than 25% of the time.
- ❖ Occasionally = Activity or condition exists 25-50% of the time.

Revised 02/01/2023

- ❖ Regularly = Activity or condition exists 50-75% of the time.
- ❖ Frequently = Activity or condition exists more than 75% of the time

EXPERIENCE AND EDUCATION

Equivalent to high school diploma. Graduation from a two-year accredited college preferred.

Word processing skills, experience creating and manipulating spreadsheet applications and a working knowledge of Microsoft Office.

Must have a minimum of five years of experience with increasing responsibilities in administrative office duties, and have completed three years of accumulated service as an Administrative Assistant I, with the Sutter-Yuba Mosquito and Vector Control District.

Current California Driver's License required. Must be insurable with the District's insurance carrier.

Upon employment, you will need to submit verification of your legal right to work in the United States.

WORKING CONDITIONS

Employee may be exposed to pesticides, chemicals, communicable diseases and other health hazards, inclement weather conditions, or verbal confrontations from members of the public. The employee may be required to work nonstandard work schedules including before or after hours, weekends and holidays.

Employee Signature: _____ Date: _____

An Equal Opportunity Employer

2023 MVCAC Annual Conference, Anaheim, CA Jan 30-Feb 1, 2023

Prepared by Stephen Abshier

The American Mosquito Control Association is spearheading an effort to get EPA to view public health pesticide applications, particularly of conventional adult mosquito control pesticides, differently than agricultural applications. Two of the big differences are: understanding droplet deposition, and that public health applications are intended to drift. With this different view, labels would be more favorably written for the use sites where mosquito control districts apply these products. EPA is also reviewing a 2020 request to approve the use of a sterile insect technique with a bacterium called *Wolbachia*, in all of the United States. Another approval request to EPA has been made, for a novel technique in invasive *Aedes* control, where male mosquitoes of this species are reared and then dusted with a larvicide called pyriproxyfen. The dusted male mosquitoes are released by the tens of thousands and then visit the small, cryptic breeding sites where immature mosquitoes will otherwise develop, introducing a lethal amount of the pyriproxyfen into the water.

Presentations on insecticide resistance revealed that *Culex tarsalis* mosquitoes are showing signs of resistance to pyrethroids in many places in the state. Bottle bioassays using technical active ingredient alone indicate reduced mortality. However, reviewing data from field cages trials of finished formulations and bottle bioassays using technical and PBO, show much better mortality. Results from assays and field cage trials that we have performed indicate the same thing.

A presentation using In2Care traps in a 5 acre commercial setting in Buena Park for *Aedes aegypti* suppression, showed that at 10 traps per acre, they achieved only a 17% reduction in adult mosquitoes. We use a trap rate slightly higher at our District, generally 2 to 3 per home, or 14 to 15 traps per acre in residential areas where *aegypti* are found.

A presentation by CDPH, looking at correlations between applications of adult mosquito control pesticides and reductions of human West Nile virus cases, in one study showed that a 10% increase in area sprayed within the same zip code, will reduce human WNV cases by 50%, for the next 3 weeks.

Through KP Public Affairs, the MVCAC will be lobbying for continued funding of CalSurv in the California state budget, informing legislators about the growing invasive *Aedes* issue and the potential for new human disease, the need for a state level response in eradicating invasive *Aedes*, and support for a backfill funding mechanism where Districts have exceeded their budgets due to invasive *Aedes* control efforts. The upcoming MVCAC Legislative Advocacy Day will be Tuesday, March 21, 2023.

MVCAC 2023 meeting report – Erik Blosser

A variety of interesting presentations were given at this year's conference including a useful symposium covering insecticide resistance in mosquitoes. Tara Thiemann from University of the Pacific used data from Sutter county *Culex tarsalis* mosquitoes to show how changes in the *kdr* gene have swept through the population in the last 15 years and increased genetic resistance to pyrethroids. She indicated that a similar sweep seems to have occurred throughout much of California. Samples taken from south Sutter county around 2008 had over 90% of individuals with two copies of the wildtype (nonresistant) allele at the *kdr* site in the DNA. By 2017 over 80% of mosquitoes tested had two copies of a resistant *kdr* allele and by 2022 100% of the 50 mosquitoes collected had two resistance alleles at the *kdr* site.

Tara also reported results from a large number of bottle bioassays testing the resistance of *Culex tarsalis* from several counties throughout the state. By performing additional tests on the mosquitoes shown to be resistant in the bottle bioassays and then working with a statistician she was able to tease apart the importance of genetic resistance due to *kdr* alleles and resistance due to upregulation of enzymes which breakdown pesticides in the mosquito's body. Results showed that mosquitoes with two wildtype (nonresistant) alleles at the *kdr* site had a 7% chance of showing resistance in the bottle bioassay. Mosquitoes with one *kdr* resistance allele and one wildtype allele had a 36% chance and those with two *kdr* resistance alleles had a 60% chance of showing bottle bioassay resistance. Further breaking down the group of mosquitoes with two resistance alleles, those mosquitoes with low enzyme (GST) activity had a 57% chance and those with high enzyme (GST) activity had a 76% chance of showing resistance in a bottle bioassay. Taken all together this research is providing us valuable information on the timing, extent and mechanisms involved in the rise of mosquito resistance to pyrethroid insecticides in our area and I look forward to seeing more details as the study is completed.

Aedes aegypti was a subject of many talks as districts throughout the state struggle to address this issue. One study presented by Laura Krueger in Orange County blanketed the area surrounding some government buildings with In2Care traps at the recommended density. BG traps within the treatment block were reduced from 5 *Aedes aegypti* per day to 2/day using this treatment. However, this 2/day density is similar to some of the highest numbers we are seeing so far in Yuba City (though it was unclear if the traps had the same bait or added CO2). Another presenter also pointed out that the In2Care strategy becomes less and less effective as mosquito numbers get lower. This type of study helps give a realistic estimate of how much In2Care traps can reduce the population. Several other presenters from Madera and Fresno counties detailed their efforts to treat underground utility vaults as a major source of *Aedes aegypti*. Underground sources in Yuba City would be worth searching for *Aedes aegypti*.

MVCAC
Annual Conference
January 30 - February 1 2023
Anaheim, Ca

Efficacy of wide area adult and larval mosquito control in urban areas of Orange County. Timothy Morgan Orange County MVCD- The use of the truck mounted Wals A-1 unit for larviciding and the truck mounted ULV unit for adulticide treatments were compared for the control of mosquitoes in an urban setting. The trial was conducted in known historical WNV areas mapped from 2004-2020. The targeted species were the invasive *Aedes* and *Culex Quinqsefasciatus*, the eight week study included four weekly A-1 larvicide treatments followed by every other week applications for an additional two treatments. The Wals A-1 treatment utilized Vectobac WDG at the rate of seven ounces per acre. The adulticide ULV treatment areas were treated weekly with Deltamethrin. The areas treated utilizing only the Wals larvicide treatment had an 18% reduction in mosquito numbers. The areas treated with both the A-1 and the ULV Deltamethrin treatments showed a 30% reduction of mosquitoes at four weeks. The study showed that the A1 Wals treatments alone were minimally effective while the treatments utilizing both larvicide and adulticide treatments were marginally effective. Moving forward more effective treatments may require novel methods of control.

A sterile insect technique success story. A history of the primary Screwworm fly. Bill Donahue PHD, President Sierra Research Labs- Edward Kipling and Raymond C. Bushland led the pioneering research in the 1930's which would ultimately bring this parasite under control. While the females mated once for life the males would mate as the opportunity presented itself. The two imagined a way to render the males sterile; when the females mated with the sterile males she would not produce any offspring. Through the pioneering research of Kipling and Bushland by 1966 the screwworm fly was declared eradicated from the U.S. Today through a joint effort between the USDA and Panama agriculture dept. known as COPG more the two billion flies are produced and released as a barrier to prevent infestation. It is estimated that American farmers save over 1.3 billion dollars per year from potential screwworm damage.

Wisdom comes from experience. Experience is often a result of a lack of wisdom.

Unknown Author





Mvccac convention report

Lakhvir Ghag <lsghag@yahoo.com>
To: Jessica Farrell <jfarrell@sutter-yubamvcd.org>

Thu, Feb 9, 2023 at 9:28 AM

Good morning Jessica

Mvccac conference

What's new in Mosquito Control?

Sterile Insect Technique (SIT)

Wolbachia

Irradiation

Genetically Modified

Currently underway in Florida, and Many California agencies (including OCMVCD and GLACYCD) are exploring SIT as a viable approach to reducing population of mosquitoes using environmentally sound technique. There are presently three different type of SIT.

What is WOLBACHIA?

Wolbachia is a common type of bacteria found in insects. Approximately 6 in 10 of all types of insects including butterflies, bees and Beetles around the world have Wolbachia.

Wolbachia bacteria cannot make people or non target animals (like fish, birds, pets)

Sick.

When male ae aegypti mosquitoes with Wolbachia mates with wild female mosquitoes

that do not have wolbachia the eggs will not hatch.

Non biting male mosquitoes with wolbachia are regularly released into an area by mosquito control.

What is Irradiation?

Irrigation, such as with gamma rays and x-rays is used to sterilize mass-reared insects so that while they remain sexually competitive they cannot produce offspring.

Large numbers of mosquitoes are raised in Lab. Male mosquitoes pupae are separated from female pupae.

Males are irradiated using ionizing radiation to make them sterile. Male mosquitoes are bred

and sterilized using the same radiation found in x-rays.

Male mosquitoes are then regularly released to mate with wild females. The result the eggs will not hatch.

What are genetically modified mosquitoes

GM mosquitoes are mosquitoes that have been implanted with a gene that was not originally present or naturally occurring in the insect. There offspring will not survive to adulthood. These labs grow Aedes aegypti mosquitoes would be released into the wild to mate with the wild population where there offspring's inability to grow to adulthood would lower the population of mosquitoes.

A male selecting gene that allows males to pass on there genes in a wild population for multiple generations, while the females never becomes adults.

Your role as a member of

Board of Trustee.

If you are new to the Board, ask for

Orientation.

Ask for a facility tour. If you are a veteran,

take another tour of facility. Staff would appreciate it!

Do become engaged in the process and be

On any committees!

Learn about mosquitos as much as possible.

Do your research and ask questions.

Vector control can be complicated and staff doesn't expect you to be expert.

If you have questions. Call the district manager and ask! They will be more than happy to answer your inquiry and provide insight and clarity or put you in touch with the right person.

You have professional staff let them do there work. it's your job to investigate things, question and learn.

You may not give direction to staff, that's the roll of the board, unless the board provide that authority to you.

The board sets the direction and policy. Staff Carry's it out.

Promote on environment of respect and civility.

Free of harassment, bullying and inappropriate

Conduct and behavior.

Communicate openly with respect and consideration for others, valuing a devtrtdity of view and opinions.

Comply with applicable federal, state and local laws.

At conference respect and follow the rules and policies of the host staff, including those of the motel, convention center, contracted facility or other venue.

Know the difference between a policy, procedure and regulation.

They each play a critical role in the day to day operation of your district.

Difference between a policy, procedure and regulation?

A policy is the basic principles by which an organization is guided. Essentially an organization is permitted to do.

A procedure can be defined as:

A particular way of accomplishing something.

It is series of steps to be followed as a consistent and repetitive approach or cycle to accomplish an end result.

Regulation is detailed direction deviliries by the legislative body, staff and law that put policy into practice. They tell how by whom, where, and when things can or cannot be done.

Basically what one can and cannot do.

Example

Review investment policy annually, follow the state law.

Ensure your district reserve policy is up to date. You don't want reserve to be at risk of seizure.

Travel

Review your travel policy need to be clear and comprehensive.

Have a policy for rules of decorum.

Brown Act requirement

Also known as a Sunshine law

The Ralph M. Brown Act is a California law that guarantees the public's right to attend and participate in meeting of local legislature bodies.

California government code 54950 e t sea.. it

Is an act of the California state legislature, authored by Assemblyman Ralph M. Brown and passed in 1963.

Ask legal council for direction if you need clarity.

I spent Sunday afternoon with Orange County vector board observing there techniques on how to control mosquitoes using drone and all different types of vehicles they have for controlling mosquitoes.

I like to thank the board for giving me opportunity to learn how to control mosquitos and Mvecac policies and research on vector control

Thank you

Lakhvir Ghag

Lakhvir S. Ghag. Sent from my iPhone

SALARY RANGE SCHEDULE 2022-2023

POSITION	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9	Step 10	Year 10 Step 11	Year 15 Step 12	Year 20 Step 13
Admin Assistant II	\$ 4,920	\$ 5,166	\$ 5,424	\$ 5,695	\$ 5,980	\$ 6,130	\$ 6,283	\$ 6,409	\$ 6,537	\$ 6,668	\$ 6,801	\$ 6,937	\$ 7,076
Admin Assistant I	\$ 4,463	\$ 4,686	\$ 4,920	\$ 5,166	\$ 5,424	\$ 5,560	\$ 5,699	\$ 5,813	\$ 5,929	\$ 6,048	\$ 6,169	\$ 6,292	\$ 6,418
MOSQ. TECH III	\$ 4,920	\$ 5,166	\$ 5,424	\$ 5,695	\$ 5,980	\$ 6,130	\$ 6,283	\$ 6,409	\$ 6,537	\$ 6,668	\$ 6,801	\$ 6,937	\$ 7,076
MOSQ. TECH II	\$ 4,463	\$ 4,686	\$ 4,920	\$ 5,166	\$ 5,424	\$ 5,560	\$ 5,699	\$ 5,813	\$ 5,929	\$ 6,048	\$ 6,169	\$ 6,292	\$ 6,418
MOSQ. TECH I	\$ 4,048	\$ 4,250	\$ 4,463	\$ 4,686	\$ 4,920	\$ 5,043	\$ 5,169	\$ 5,272	\$ 5,377	\$ 5,485	\$ 5,595	\$ 5,707	\$ 5,821

