

Expenses 1/15/2020

		Union	Check #'s
Full Time Employees			EFTPS
6001 John Avila		3,014.85	E Debits
6001 Michelle Dempsey		2,506.94	DD1092
6001 Andrew Conard		1,871.65	DD1093
6001 Armando Gonzalez		1,940.31	DD1094
6001 Quirino Valencia		1,773.85	DD1095
6001 Sherry Laskie		543.21	DD1096
6004 CA Emp Dev Dept	UI, ETT, SDI & PIT		6094
6004 Choice Builders	Monthly premium for employee Dental Vision & Life Insurance	1,624.57	VOID - 6076 EFTPS
6008 Robert Clark	Board Meeting 01/14/20	968.50	6077
6008 Stan Creelman	Board Meeting 01/14/20	100.00	6078
6008 Charles Mayer	Board Meeting 01/14/20	100.00	6079
6008 Pat Nunes	Board Meeting 01/14/20	-	VOID 6080 - Replaced on 2/15/2020 6080
6008 Charlie Pittigliano	Board Meeting 01/14/20	100.00	6081
6008 Robert Uchita	Board Meeting 01/14/20	100.00	6082
6011 CalPERS (Retirement)	Unfunded Liability (Classic)	100.00	6083
6011 CalPERS (Retirement)	Unfunded Liability (Pepra)	671.93	EFTPS
6011 CalPERS (Employee)	Employee Additional 457 Roth	156.55	EFTPS
6011 CalPERS (Employee)	Employee Additional deferred contribution	325.00	EFTPS
6011 CalPERS (Retirement)	PERS Retirement contribution Employer & Employees	400.00	EFTPS
6012 Union Bank	Federal Inc Tax, Employee/Employer Medicare & SS	2,318.41	EFTPS
7001 MVCAC	Sentinel chicken order - 12	3,819.88	EFTPS
7001 Verizon	Field Communications	78.00	6084
7005	Office Phones	52.75	6085
7009 Culligan	Bottled Water	117.24	
7021 G.V. Burrows, Inc	Vehicle Fuel	31.00	6086
7021 Praxair	Shop supplies	106.20	6087
7021 Mid-Valley Pipe & Supply	Shop Supplies	62.24	6088
7024 Giotto's Alarm-Tech, Inc.	Annual monitoring basic service	359.66	6089
7036 Cline's Business Equipment	IT support/maintenance	456.00	6090
7036 Cline's Business Equipment	Monthly maintenance contract	60.00	6091
7043 McCormick, Kabot, Jenner, & Lew	Board Meeting 01/14/20	33.19	
7043	Dictate return of warrant; e-mail from John Avila	300.00	540.00 6092
	Revise Return of inspection Warrant; e-mails to and from John Avila	100.00	
	E-mails to and from client	20.00	
	E-mail to John re Return of Warrant	20.00	
7062 City of Tulare	Land Rent	774.00	908.51 6093
7081	Water & Refuse Pickup Service	134.51	
7036 Union Bank	Direct Deposit Fee		8.75 E debit
		<u>25,249.21</u>	

Expenses 1/31/2020

		Union	
		Check #'s	
		EFTPS	
		E Debits	
Full Time Employees			
6001 John Avila		3,014.85	DD1097
6001 Michelle Dempsey		2,706.95	DD1098
6001 Andrew Conard		1,871.65	DD1099
6001 Armando Gonzalez		1,940.31	DD1100
6001 Quirino Valencia		1,773.85	DD1101
6001 Sherry Laskie		772.75	6095
6004 CA Emp Dev Dept	UI, ETT, SDI & PIT	1,468.89	EFTPS
6004 CalPERS (Health)	Monthly Health Premium	12,325.58	EFTPS
6004 AFLAC (Employee)	Employee Additional Health pre-tax and Life after tax	603.48	6096
6011 CalPERS (Employee)	Employee Additional 457 Roth	325.00	EFTPS
6011 CalPERS (Employee)	Employee Additional deferred contribution	400.00	EFTPS
6011 CalPERS (Retirement)	PERS Retirement contribution Employer & Employees	2,318.41	EFTPS
6012 Union Bank	Federal Inc Tax, Employee/Employer Medicare & SS	3,793.64	EFTPS
7001 Verizon (Verizon Wireless Fleet)	GPS System monthly charge (Jan)	285.00	6097
7001 Yosemite Linen Supply	Employee uniforms & related la	287.47	6098
7021 G.V. Burrows, Inc	Vehicle Fuel	109.36	6099
7021 Feltech Auto Repair	Smog - Truck #11	31.75	6100
7024 Lowe's	Material for remodeling project	1,494.38	6101
7036 Union Bank Charges	<b>1/31/2020 Statement</b>	440.24	E debits
	S.C. Edison	292.04	
	SoCalGas	84.45	
	Direct Deposit Fee	8.75	
	Union Bank - Positive Pay monthly maintenance fees	55.00	
7036 U.S.Bank Charges & Credits	<b>1/18/2020 Statement</b>		1,526.53
7001	Digital Deployment	200.00	
7005	AT&T	10.60	
7009	WalMart	139.64	
7009	Costco	(130.19)	
7021	Amazon.com	132.23	
7036	Costco	108.49	
7036	Costco	120.00	
7036	Cal. Office Liquidators	243.56	
7036	Carbonite	283.49	
7036	UnWired	135.97	
7036	Amazon.com	103.41	
7036	Amazon.com	10.80	
7036	Amazon.com	56.66	
7036	Amazon.com	9.66	
7036	Amazon.com	72.57	
7036	Amazon.com	12.87	
7036	Amazon.com	16.77	
		<b>37,490.09</b>	

Expenses 2/15/2020

		Union	
		Check #'s	
		EFTPS	
		E Debits	
Full Time Employees			
6001 John Avila		3,014.85	DD1102
6001 Michelle Dempsey		2,706.94	DD1103
6001 Andrew Conard		1,871.65	DD1104
6001 Armando Gonzalez		1,940.31	DD1105
6001 Quirino Valencia		1,773.85	DD1106
6001 Sherry Laskie		651.79	6103
6004 CA Emp Dev Dept	UI, ETT, SDI & PIT	846.93	EFTPS
6004 Choice Builders	Monthly premium for employee Dental Vision & Life Insurance	968.50	6104
6008 Charles Mayer	Board Meeting 1/14/2020 - replacement for check #6080 - lost in mail	100.00	6105
6011 CalPERS (Retirement)	Unfunded Liability (Classic)	671.93	EFTPS
6011 CalPERS (Retirement)	Unfunded Liability (Pepra)	156.55	EFTPS
6011 CalPERS (Employee)	Employee Additional 457 Roth	325.00	EFTPS
6011 CalPERS (Employee)	Employee Additional deferred contribution	400.00	EFTPS
6011 CalPERS (Retirement)	PERS Retirement contribution Employer & Employees	2,349.91	EFTPS
6012 Union Bank	Federal Inc Tax, Employee/Employer Medicare & SS	3,755.56	EFTPS
7001 Verizon	Office phones	117.22	172.81 6106
7005	Cell phones	55.59	
7009 Culligan	Bottled Water		23.25 6107
7021 G.V. Burrows, Inc	Vehicle Fuel		5.93 6108
7036 Cline's Business Equipment	IT support/maintenance	60.00	111.50 6109
7036	Monthly maintenance contract	51.50	
7062 City of Tulare	Land Rent	774.00	908.51 6110
7081	Water & Refuse Pickup Service	134.51	
7036 Union Bank	Direct Deposit Fee		8.75 E debit
		<u>22,764.53</u>	

		Union	
		Check #'s	
		EFTPS	
Full Time Employees		E Debits	
6001	John Avila	3,014.85	DD1107
6001	Michelle Dempsey	2,538.19	DD1108
6001	Andrew Conard	1,867.74	DD1109
6001	Armando Gonzalez	1,940.31	DD1110
6001	Quirino Valencia	1,773.85	DD1111
6001	Sherry Laskie	771.73	6111
6004	CA Emp Dev Dept	UI, ETT, SDI & PIT	
6004	CalPERS (Health)	Monthly Health Premium	12,325.58 EFTPS
6004	AFLAC (Employee)	Employee Additional Health pre-tax and Life after tax	603.48 6112
6011	CalPERS (Employee)	Employee Additional 457 Roth	400.00 EFTPS
6011	CalPERS (Employee)	Employee Additional deferred contribution	475.00 EFTPS
6011	CalPERS (Retirement)	PERS Retirement contribution Employer & Employees	2,349.91 EFTPS
6012	Union Bank	Federal Inc Tax, Employee/Employer Medicare & SS	3,793.44 EFTPS
7001	Verizon (Verizon Wireless Fleet)	GPS System monthly charge (Dec)	285.00 6113
7001	Yosemite Linen Supply	Employee uniforms & related la	249.17 6114
7001	Heluna Health	Chicken Sero Testing 2019 - 30%	85.50 6115
7001	Frontier Precision	Mosquito control mobile GIS Pkg annual support	1,365.00 6116
7021	G.V. Burrows, Inc	Vehicle Fuel	35.42 6117
7024	Lowe's	Material for remodeling project	1,234.80 6118
7043	McCormick, Kabot, Jenner, & Lew	Profesional services 1/3/2020	300.00 6119
7043		Research Return of Warrant; review rejected Return of Warrant from Judge Reed	
7036	Union Bank Charges	2/29/2020 Statement	498.78 E debits
		S.C. Edison	289.76
		SoCalGas	135.27
		Direct Deposit Fee	8.75
		Union Bank - Positive Pay monthly maintenance fees	55.00
		Union bank - returned item	10.00
7036	U.S.Bank Charges & Credits	2/18/2020 Statement	2,936.38 6120
7001		Digital Deployment	Internet - January 200.00
7005		AT&T	Monthly Faxline 10.60
7009		Costco	Household items 59.43
7009		WalMart	Cleaning Supplies 8.29
7009		Amazon.com	Coffee 28.72
7009		WalMart	New bathroom items 53.72
7021		76 gas San Clemente	Fuel/Conference 61.68
7021		Shell Valencia	Fuel/Conference 35.00
7024		Amazon.com	ADA materials for bath 69.24
7024		Amazon.com	Items for remodel 43.24
7036		UnWired	Monthly Internet 135.97
7036		Amazon.com	Printer, etc Office items 191.99
7036		Amazon.com	Printer returned damaged (140.71)
7036		Amazon.com	Re Order of Printer 140.71
7036		Amazon.com	Office Supplies 117.41
7036		Costco	Box of Copy paper 34.71
7036		Amazon.com	Calculator Ribbon 5.39
7036		Amazon.com	Toner Cartridges 25.97
7074		Sportsman Seafood	Conference meals 17.78
7074		Hyatt San Diego	Conference meals 3.50
7074		Hyatt San Diego	Conference meals 7.81
7074		Hyatt San Diego	Conference meals x3 98.00
7074		Midway Malt Shop	Conference meals 31.27
7074		Panda Expres	Conference meals 29.87
7074		Hyatt San Diego	John's Hotel - 2 nights 304.43
7074		Hyatt San Diego	Michelle's Hotel - 4 nights 685.81
7074		Hyatt San Diego	Quirino's Hotel - 2 nights 219.43
7074		Hyatt San Diego	John's hotel CREDIT DUE 179.43
7074		Hyatt Sacramento	MVCAC Qrtly - Deposit 277.69

---



---

39,435.00

**TULARE MOSQUITO ABATEMENT DISTRICT**

**FY 19/20 Budget**

**February 29, 2020**

	<i>Appropriations</i>	<i>Expenditures</i>	<i>Remaining</i>
<b>Salaries &amp; Employees Benefits ( 1000 )</b>			
6001 Regular Salaries *	385,000.00	257,602.28	127,397.72
6004 Benefits		-	
Health Insurance	180,000.00	105,008.68	74,991.32
EDD Unemployment Insurance 6.2% X 7,000 of employees pay	5,048.00	2,439.11	2,608.89
EDD Disability Insurance 1.0% X of employees salary	5,500.00	3,218.04	2,281.96
EDD Employment Training Tax rate 0%	-	-	-
Life Insurance	1,452.00	807.92	644.08
6005 Extra Help	123,500.00	64,201.15	59,298.85
6008 Directors Fees	7,200.00	3,800.00	3,400.00
6011 Retirement PERS	51,000.00	25,811.07	25,188.93
Classic members 8.081% X Gross Salary			
New Public Employee Pension Reform Act (PEPRA) members ( 6.985% X Gross Pay )			
6012 Social Security ( 7.65% of employee pay )	45,000.00	24,682.96	20,317.04
6015 Workers' Compensation Insurance	35,000.00	325.43	34,674.57
	<u>838,700.00</u>	<u>487,896.64</u>	<u>350,803.36</u>
<b>Services &amp; Supplies ( 2000 )</b>			
7001 Agriculture	450,000.00	130,823.63	319,176.37
7005 Telecommunications	2,500.00	958.95	1,541.05
7009 Household Expense	5,000.00	1,197.62	3,802.38
7010 Insurance	50,000.00	47.50	49,952.50
7021 Maintenance of Equipment	105,000.00	25,630.44	79,369.56
7024 Maintenance - Bldg & Improvements	15,000.00	17,085.91	(2,085.91)
7027 Memberships	14,000.00	14,210.00	(210.00)
7036 Office Expense	13,500.00	7,216.61	6,283.39
7043 Professional & Special Expense	19,500.00	13,900.00	5,600.00
7059 Publications and Legal Notices	500.00	-	500.00
7061 Rents & Leases - Equipment	500.00	-	500.00
7062 Rent & Leases - Bldg & Improvements	12,500.00	6,192.00	6,308.00
7065 Small Tools & Instruments	2,500.00	-	2,500.00
7066 District Special Expense	25,000.00	1,960.11	23,039.89
7074 Transportation & Travel	20,000.00	3,903.45	16,096.55
7081 Utilities	7,000.00	3,525.93	3,474.07
	<u>742,500.00</u>	<u>226,652.15</u>	<u>515,847.85</u>
<b>Other Charges ( 3000 )</b>			
7407 Contributions to other Agencies	2,500.00	-	2,500.00
7425 Taxes & Assessments	38,500.00	-	38,500.00
	<u>41,000.00</u>	<u>-</u>	<u>41,000.00</u>
<b>Fixed Assets ( 8000-8300 )</b>			
Purchase of One Ton Replacement	40,000.00	-	40,000.00
	<u>40,000.00</u>	<u>-</u>	<u>40,000.00</u>
<b>Working Budget</b>	<b>1,662,200.00</b>	<b>714,548.79</b>	<b>947,651.21</b>
* Appropriation for Contingencies	249,330.00	-	249,330.00
<b>Total Appropriations</b>	<b>1,911,530.00</b>	<b>714,548.79</b>	<b>1,196,981.21</b>
<b>** General Reserves</b>			
Reserve for Asphalt Removal & Replacement	5,384,500.00	-	5,384,500.00
Reserve for Emergency Invasive Aedes Outbreak	125,000.00	-	125,000.00
Reserve for Replacement of Vehicles/Tablets	250,000.00	-	250,000.00
<b>Total Budget</b>	<b>200,000.00</b>	<b>-</b>	<b>200,000.00</b>
	<u>7,871,030.00</u>	<u>-</u>	<u>7,156,481.21</u>
Tulare County Account # 778 Balance	6,325,475.35		
Union Bank Account # 2740034408 Balance	228,311.85		
<b>TMAD Current cash balance</b>	<b>6,553,787.20</b>		

\* 15% of our Working Budget ( Tulare County permits us to carry 15% of our working budget as Appropriations for Contingencies )

\*\* There is no requirement to fund General Reserves at any set amount to be in compliance with the CA Health and Safety Code.

<b>TMAD Revenue &amp; Cash Balance Status</b>					
<b>FY 19/20</b>					
	<b>FY 16/17</b>	<b>FY 17/18</b>	<b>FY 18/19</b>	<b>FY 19/20</b>	<b>FY 19/20</b>
<b>Tax Income</b>				<Estimated>	Actual to Date
4001 Property Tax Current Secured	1,196,569	1,263,060	1,316,348	1,377,620	788,105
4006 Property Tax Current Unsecured	68,463	74,679	78,374	79,247	79,948
4008 Property Tax Prior Secured	24,606	24,790	24,820		14,494
4009 Property Tax Prior Unsecured	1,398	2,281	1,185		793
4030 Supp Tax Current Secured	15,852	22,729	24,962		9,572
4033 Supp Tax Prior Secured	2,496	2,405	3,509		3,056
4055 Timber Yield	-	-	0.12		
4060 Residual Dist	52,134	55,021	62,559		16,005
4069 PT Facilities	24,049	25,053	25,757		14,036
4801 Interest	61,168	77,640	115,075		67,371
5000 I/G Revenues	-	216	377		
5050 Property Tax Relief	11,953	11,738	11,657	11,480	5,676
<b>Property Tax (County) Revenue:</b>	<b>1,458,688</b>	<b>1,559,612</b>	<b>1,664,623</b>	<b>1,468,347</b>	<b>999,056</b>
<b>Misc Income</b>					
5805 Misc. Revenue	-	3,154			
5838 Insurance Proceeds/Rec	-	23,843			
7000 Miscellaneous Revenue	6,193	6,424	62,428		
7003 Tax Administration Fee					
Health Dept Funding		<b>23,776</b>	42,530		
<b>Total Revenue</b>			<b>1,471,281</b>	<b>1,468,347</b>	<b>999,056</b>
<b>CASH BALANCE</b>					
County Cash Balance (2/29/20)			<b>6,306,586</b>		
Union Bank Balance (2/29/20)			<b>228,312</b>		
Cash Balance			<b>6,534,898</b>		



# 4



**MVCAC**  
Mosquito and Vector Control Association of California

# Conference Guide

January 26-28, 2020

**Mosquito and Vector Control Association of California**

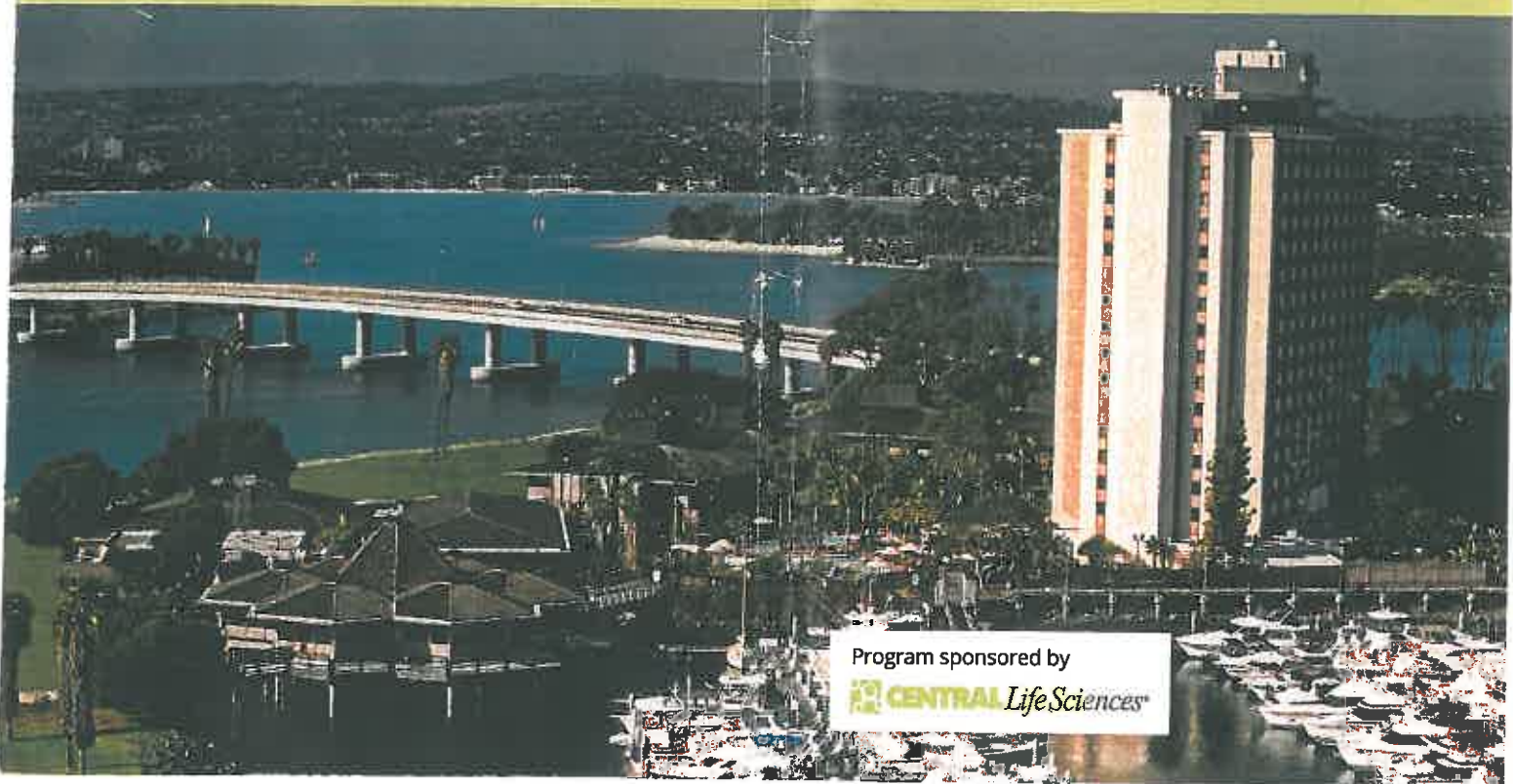
One Capitol Mall, Suite 800  
Sacramento, CA 95814

916.440.0826

Hyatt Regency Mission Bay  
San Diego, CA

[www.mvcac.org](http://www.mvcac.org)

**88th Annual Conference**



Program sponsored by



## MONDAY

### Morning Plenary Session

- 8:00 am **Welcome to the MVCAC Annual Conference**  
**MVCAC President's Welcome**  
Peter Bonkrude, Shasta Mosquito and Vector Control District
- 8:15 am **AMCA Update**  
Jason Kinley, AMCA president
- 8:45 am **Legislative Update**  
Ed Manning, Legislative Advocate
- 9:00 am **Can architectural innovation revolutionize vector control?**  
Bart Knols, PhD, MBA  
Radbud University, The Netherlands
- 10:00 am **Break**  
*Break Sponsored by*  
 *Central Life Sciences*
- 10:15 am **CalSurv Gateway—Past, present and future**
- 10:30 am **Pacific Southwest Center of Excellence in Vector-Borne Diseases Presentation and Panel**  
Moderators: Chris Barker, PhD, University of California, Davis and William Walton, PhD, University of California, Riverside
- 10:30 am **Larvicidal treatment of ornamental bromeliads to control invasive *Aedes***  
Presenter/Author: Aviva Goldmann, PhD, UC Riverside; Additional Author(s): William Walton, PhD, University of California, Riverside
- 10:40 am **Evaluating ivermectin-treated backyard chickens as a novel urban West Nile Virus control strategy**  
Presenter/Author: Karen M. Holcomb, UC Davis; Additional Author(s): Christopher M. Barker, PhD, DART Lab, UC Davis

MONDAY

MONDAY

## MONDAY

### Morning Plenary Session

- 10:50 am **Impacts of larva-acquired *Aedes aegypti* microbiota on vector competence for Zika Virus**  
Presenter/Author: William Louie, UC Davis; Additional Author(s): Lark Coffey, PhD, UC Davis
- 11:00 am **Determination of LC-50 of permethrin acaricide in the western blacklegged tick**  
Presenter/Author: Kacie Ring, San Francisco State University; Additional Author(s): Andrea Swei and Angie Nakano, San Francisco State University
- 11:10 am **Attraction versus capture: efficiency of BG-Sentinel trap under semi-field conditions and characterizing response behaviors for female *Aedes aegypti***  
Presenter/Author: Brogan Amos, PhD, UC Riverside; Additional Author(s): Ring T. Cardé, PhD, UC Riverside; Scott A. Ritchie, PhD and Kyran M. Staunton, PhD, Cook University
- 11:20 am **Genomic adaptation in *Aedes aegypti* in central California**  
Presenter/Author: Erik Blosser, PhD, UC Davis; Additional Author(s): Irka Bargielowski, PhD, Yoosook Lee, PhD, Travis Collier, PhD, Anthony Cornel, PhD and Gregory C. Lanzaro, PhD, UC Davis
- 11:30 am **Synthetic biology improves bacterial larvicides**  
Presenter/Author: Brian Federici, PhD, UC Riverside; Additional Author(s): Dennis Bideshi, PhD and Hyun-Woo Park, PhD, California Baptist University; Robert Hice and William Walton, PhD, UC Riverside; Peter Arensbarger, PhD, Cal Poly Pomona



---

## MONDAY

### Morning Plenary Session

11:40 am **Sero-prevalence study of *Borrelia miyamotoi* and *Borrelia burgdorferi* in California**

Presenter/Author: Sharon Ichinko Brummitt, MPH, UC Davis; Additional Author(s): Anne M. Kjemtrup, DVM, MPVM, PhD, CDPH Vector Borne Disease Division; Danielle Harvey, PhD and Woutrina Smith, DVM, MPVM, PhD, UC Davis

12:00 pm **Reeves New Investigator**

Moderator: Jamesina J. Scott, PhD, Lake County MVCD

12:00 pm **Quantifying sociodemographic heterogeneities in the distribution of *Aedes aegypti* among California households**

Presenter/Author: Marisa A. P. Donnelly, UC Davis; Additional Author(s): Susanne Klueh, Greater Los Angeles VCD; Robert E. Snyder, California Department of Public Health Vector Borne Disease Section; Chris Barker, UC Davis DART

12:20 pm **Climate change: Influence of temperature on the larval development of the common house mosquito**

Presenter/Author: Katherine Heejung Ko; Additional Author(s): Robert Stevenson, UMass Boston; Todd Duval, Bristol County Mosquito Control

12:40 pm **Semiochemicals associated with the Western mosquitofish, *Gambusia affinis*, and their effect on the oviposition behavior of *Culex tarsalis***

Presenter/Author: Adena M. Why, Alameda County VCS; Additional Author(s): Dong-Hwan Choe and William E. Walton, University of California Riverside

---

## MONDAY

### Plenary Session

Continued

1:00 pm – **Poster Presentation Lunch (Lunch Provided)**

Thank you to our lunch sponsors



2:30 pm **Wolbachia infections in mosquitoes of Merced County California**

Presenter/Author: Ryan Torres, BS, UC Merced; Additional Author(s): Andrea Joyce, PhD, UC Merced Public Health; Jose Ramirez, PhD, USDA ARS Crop BioProtection Research; Eunis Hernandez, MSc, UC Merced Public Health; Rhiannon Jones, MS, Merced County MVCD

2:40 pm **Using distribution models to inform surveillance for invasive ticks**

Presenter/Author: Emily L. Pascoe, UC Davis; Additional Author(s): Matteo Marcantonio, PhD, University of California Davis; Cyril Caminade, PhD, The University of Liverpool; Janet E. Foley, University of California Davis

MONDAY

MONDAY



MONDAY

A

Afternoon Session—Session A

- 4:15 pm **High, medium, low: using a standardized county-wide grid surveillance system to prioritize operational areas for West Nile Virus control in Orange County, CA**  
 Presenter: Laura Krueger, Orange County MVCD; Additional Author(s): Tim Morgan, Kiet Nguyen, Amber Semrow, Sokanary Sun and Robert Cummings, Orange County MVCD
- 
- 4:28 pm **Aerial larvicide applications with unmanned aircraft systems (UAS) in Placer County**  
 Presenter/Author: Scott Schon, Placer MVCD; Additional Author(s): Joel Buettner and Everardo Ortiz, Placer MVCD
- 
- 4:45 pm **Design, Manufacture, and Construction of an Inexpensive 3D-Printed CO<sub>2</sub>-Baited EVS Trap**  
 Presenter/Author(s): Miguel Barretto, John Busam, Dereje Alemayehu and Eric Haas-Stapleton, Alameda County MAD
- 
- 5:00 pm Day Concludes

MONDAY

MONDAY

B

Afternoon Session—Session B

- 3:10 pm - **Cal Surv**  
 3:50 pm Moderator: Jody Simpson, UC Davis  
 DART Lab
- 
- 3:10 pm **Introduction to the CalSurv Application Programming Interface (API)**  
 Presenter/Author: Jody K. Simpson, DART Lab UC Davis; Additional Author(s): Kurt Johnson and Christopher M. Barker, PhD, DART Lab, UC Davis
- 
- 3:30 pm **Gateway Gotchas: a review of data entry methods, analysis tools, and common errors for the CalSurv Gateway**  
 Presenter/Author: Kurt Johnson, UC Davis; Additional Author(s): Jody K. Simpson, Shawn Ranck and Christopher M. Barker, PhD, DART Lab, UC Davis
- 
- 3:40 pm **Overview of new features of CalSurv Maps**  
 Presenter/Author: Shawn Ranck, DART Lab, UC Davis

MONDAY

**MONDAY****B**

Afternoon Session—Session B

**3:50 pm – Public Policy and Governance**

5:00 pm

Moderators: Jared Dever, San Gabriel Valley MVCD and Rick Howard, Orange County MVCD

**3:50 pm Funding to fight the bite: implementing revenue mechanisms 101**

Presenter/Author: John Bliss, SCI Consulting Group; Additional Author(s): Sonia Ortega, SCI Consulting Group

**4:00 pm Invasive Aedes infestation forces service model changes for the Orange County Mosquito and Vector Control District in 2019**

Presenter/Author: Amber Semrow, MS, Orange County MVCD; Additional Author(s): Jerry Sims, Mary-Joy Coburn, Laura Krueger, MPH, Kara Miller, Nick Morey, Luan Ngo, Cynthia Ross, Larry Shaw, Breanna Vasquez, Lora Young, MPA, and Rick Howard, MPA, Orange County MVCD

**4:10 pm Division of labor in the age of Aedes**

Presenter/Author: Truc Dever, MPA, Greater Los Angeles County VCD

**4:20 pm MVCAC and FMCA (Florida Mosquito Control Association) more similar than different**

Presenter/Author: James F Clauson, Beach Mosquito Control

**4:30 pm Meeting the demand for service in the age of Aedes**

Presenter/Author: Jason Farned, San Gabriel Valley MVCD

**4:40 pm Website Compliance**

Presenter/Author: Sloane Dell'Orto, Streamline

**4:50 pm Roundtable****5:00 pm Day Concludes**

MONDAY

TUESDAY

**TUESDAY****7:00 am – Speaker Ready Table Open**  
12:00 pm Ballroom Foyer**7:00 am – Registration Desk Open**  
2:00 pm Ballroom foyer

Thank you to our sponsors of registration items

**8:00 am – Exhibitor Show Open**  
2:00 pm Pavilion**7:00 am – Trustee Business Session & Breakfast**  
8:00 am Palm II

Must be Registered to attend

**8:00 am – Concurrent Sessions A & B**  
12:30 pm

Sponsored by





#5

## Co-Innovating Solutions for Container Mosquito Control A WALS<sup>SM</sup> Summit

Sacramento-Yolo MVCD  
8631 Bond Rd, Elk Grove, CA 95624  
February 25, 2020

- 8:00 am Welcome – Gary Goodman – Sac-Yolo MVCD
- 8:05 am Container Mosquitoes in California – Bryan Jackson, PhD CA DPH
- 8:25 am Introduction of WALS and Keynote Speaker – Peter DeChant
- 8:30 am Keynote Speaker – Seleena Benjamin, VBC, Kuala Lumpur, Malaysia  
“WALS Origins and Operational use in SE Asia since 1992”
- 9:30 am WALS Experience in Coachella Valley MVCD – Jennifer Henke
- 10:00 am WALS Experience in Sac-Yolo MVCD - Samer Elkashef, PhD
- 10:30 am Break
- 11:00 am Panel Discussion (Invited District Representatives)  
Each share their WALS experience
- 12:00 noon Catered Lunch and WALS Equipment viewing
- 1:00 pm WALS: Current SOPs and understanding – Peter DeChant
- 1:15 pm Open Discussion/Q&A with panel of experts.
- 2:00 pm Closing



**MVCAC**  
Mosquito and Vector Control Association of California

#6

**SPRING QUARTERLY MEETING AND LOBBY DAY**  
**March 2-4, 2020**  
**Hyatt Regency Sacramento, Ca**

**DRAFT AGENDA**

**Monday March 2, 2020**

**Hotel arrivals**  
3:00-5:00 pm

**Board of Directors Meeting**  
Capitol View, 15<sup>th</sup> Floor

**Tuesday March 3, 2020**

8:00-9:00 a.m.

**Trustee Council**  
*Tahoe*  
**Cal Surv**  
*Capitol View, 15<sup>th</sup> floor*

9:00- 10:30 am

**Legislative**  
*Capitol View, 15<sup>th</sup> Floor*

10:30-11:30 am

**Training and Certification**  
*Tahoe*  
**Vector and Vector-Borne Diseases**  
*Capitol View, 15<sup>th</sup> Floor*

11:30-1:00 pm

**Lunch break**

1:00-2:00 p.m.

**Public Relations**  
*Capitol View, 15<sup>th</sup> floor*  
**Vector Control Research**  
*Tahoe*

2:00-3:00 pm

**Integrated Vector Management**  
*Tahoe*  
**Regulatory Affairs**  
*Capitol View, 15<sup>th</sup> Floor*

3:00-4:00 pm

**Lab Technologies**  
*Tahoe*  
**Information Technology**  
*Capitol View, 15<sup>th</sup> Floor*

4:00-5:00 pm

**Leg Day Training 101**  
*Capitol View, 15<sup>th</sup> Floor*

**Wednesday March 4, 2020**

7:00 a.m.

**Check in/breakfast offered**  
*Golden State AB*

8:30 a.m.

**Leg Day Kick off head out to appointments**

**Hotel Departures**





**BOARD OF DIRECTORS MEETING - AGENDA**

**March 2, 2020  
3:00-5:00 PM  
Hyatt Regency Sacramento**

<u>Item</u>	<u>Attachment/Page</u>
1. Call to order and roll call	
2. Announcements	
3. Approval of prior meeting minutes*	
3.01 Minutes of the January 29, 2020 Meeting	Page 3
4. Approval of additional agenda items*	
5. President/Executive Committee Report	
5.01 Harassment Policy Updates	
5.02 P&P Updates	
6. Executive Director/Staff Report	
6.01 Staff Report	
6.02 Meeting location updates	
7. Treasurer's Report (Attachments) *	Page 6
7.01 MVCAC Financial Statements as of December 31, 2019	
7.02 NPDES Financial Statements and as of December 31, 2019	
7.03 Investment Matrix and as of December 31, 2019	
7.04 Budget discussion and vote	
8. Legal Report	
9. Trustee Council Report	
10. Committee Reports	
10.01 Cal Surv	Page 15
10.02 Training and Certification	Page 17
10.03 Legislative	Page 19
10.04 Lab Technologies	Page 21
10.05 Vector Borne Diseases	Page 24

10.06	Public Relations	Page 26
10.07	NPDES/Regulatory Affairs/Trash Capture Devices	Page 30
10.08	Vector Control Research	Page 32
10.09	Nominating	
10.10	Reeves New Investigator Award	
10.11	Information Technology	Page 34
10.12	Integrated Vector Management	
11.	Reports from MVCAC Regions	
11.01	Southern	Page 36
11.02	South San Joaquin	
11.03	North San Joaquin	
11.04	Sacramento Valley	
11.05	Coastal	
12.	Reports from Other Agencies	
12.01	DART	
12.02	CDPH/VBDS	
12.03	VCJPA	
12.04	AMCA	
12.05	CSDA	
12.06	Vector Borne Disease Network	
13.	Old Business	
14.	New Business	
15.	Additional Approved Agenda Items	
16.	Adjournment*	

\*Requires Action



**MVCAC**  
Mosquito and Vector Control Association of California

## Legislative Day Key Messages March 4, 2020

### **Mosquito and Vector Control Is Critical for Protecting Public Health**

- Worldwide, mosquito-transmitted diseases contribute to the death of nearly one million people every year and sicken millions more. In the U.S. mosquitoes transmit more than half a dozen viruses, including West Nile (WNV) and St. Louis encephalitis viruses.
- There are no human vaccines for West Nile, St. Louis encephalitis, dengue, chikungunya, or Zika viruses, which are costly to treat and can have long-term health and financial consequences.
- Mosquito control and public health professionals need tools and adequate resources to combat the spread of mosquito-borne diseases and protect public health.

### **Districts Across the State are Facing Unprecedented Challenges**

- Global warming has facilitated the spread of two invasive mosquito species, *Aedes albopictus* and *Aedes aegypti*, throughout the state. Invasive *Aedes* are vectors of Zika, dengue, chikungunya, yellow fever, West Nile virus, and dog heartworm.
- Now in 16 counties in California invasive *Aedes* exploit small and cryptic water sources and have shown resistance to many commonly used insecticides, limiting the efficacy of traditional control approaches and increasing the need for innovative ways to treat this difficult-to-manage species.
- With over 6.5 million international travelers arriving at California ports of entry each year, the potential for local transmission of imported diseases in the state is increasing.

### **Mosquito Control Needs Exceed Available Resources: State Support Is Desperately Needed**

#### ***Funding to Sustain and Grow CalSurv:***

- For the small sum of \$500,000 annually, the state can fund cutting-edge surveillance research by investing in CalSurv Gateway which serves 81 mosquito and vector control and public health agencies in California.
- CalSurv provides tools for real-time data collection, visualization, and analysis that allows agencies to make informed decisions on interventions to protect public health. It tracks disease-spreading mosquitoes – where they are, where they've been, where they may appear in the future, and where new diseases might be emerging.

- In the 2018-19 state budget, there was a one-time provision of \$500,000 directly to UC Davis for CalSurv Gateway that is being used to support staffing, develop maps and research tools, and maintain software services. This funding will run out in June 2020. Without additional funding, the future of CalSurv is in jeopardy, putting public health at risk. Specifically, we are asking for a \$500,000 annual budget allocation to sustain and grow CalSurv.

*[Especially important to emphasize MVCAC's budget funding request for CalSurv if you are meeting with members of a Budget Sub-Committee - see list below]*

#### **Funding to Combat Invasive Aedes:**

- MVCAC will be seeking funding to support our members whose budgets have been hit hard by the spread of invasive *Aedes*. These species put an enormous strain on mosquito control districts' budgets; for example, one Southern California district's annual operational expenses increased by 34% as a result of the introduction of invasive mosquitoes.
- Federal funding that supported enhanced *Aedes* surveillance, control, and education has expired and districts need additional state support in order to combat prevent future disease epidemics and improve the quality of life for Californians.
- We are still exploring what amounts and treatments are feasible and will keep you and your office updated throughout the budget process.

#### **Follow up After Leg Meetings:**

- Send a thank you note with a link to the MVCAC webpage that has the collateral materials and digital story map: <https://www.mvcac.org/advocacy-and-legislation/resource-materials/>

#### **Important Budget Sub-Committees:**

##### *Senate Budget Sub-Committee on Health and Human Services*

- Senators Richard Pan (Chair) and Melissa Hurtado

##### *Senate Budget Sub-Committee on Resources, Environmental Protection, Energy and Transportation*

- Senators Bob Wieckowski (Chair), Brian Jones, Mike McGuire, Bill Monning, Henry Stern

##### *Assembly Budget Sub-Committee on Health and Human Services*

- Assemblymembers Joaquin Arambula (Chair), Jim Frazier, Devon Mathis, Jim Patterson, James Ramos, Blanca Rubio, and Jim Wood

##### *Assembly Budget Sub-Committee on Resources and Transportation*

- Assemblymembers Richard Bloom (Chair), Vincent Fong, Cristina Garcia, Kevin Mullin, Jim Patteron, Eloise Gómez Reyes, and Luz Rivas



# Invasive *Aedes* By the Numbers

"The long-term impact of invasive *Aedes* on our districts' operations will be catastrophic."

## INVASIVE *Aedes* ARE SPREADING LIKE WILDFIRE

### Districts across the state report:

- By the 3rd year of detection they had proliferated over the entire city
- Year over increase was 309%
- 2015: 1 sq. mi; 8 cities; 2019: 100 sq. mi; 31 cities

## INVASIVE *Aedes* HAVE A MASSIVE IMPACT ON MOSQUITO AND VECTOR CONTROL DISTRICTS' BUDGETS

Invasive *Aedes* =



Labor costs  
 Equipment costs  
 Testing costs  
 Pesticide costs  
 Surveillance costs

"We had to increase our budget by 34% in FY 18/19 for staffing, equipment, chemicals and outreach to deal with the *Aedes* infestation."

### Districts across the state report:

- Need for year-round technicians as opposed to seasonal staff
- Approximately 1000% year-over-year increase in service requests and call volume
- Outreach has increased approximately 500%
- Increased costs for surveillance, pesticides and new equipment including *Aedes*-specific traps and batteries
- Approximately \$12,000 per travel-related *Aedes* disease case in 2019



"We have maxed out the Benefit Assessment and had to reallocate staffing and resources to accommodate the increase in requests and diseases responses."

## INVASIVE *Aedes* REQUIRE INNOVATIVE SOLUTIONS

**Invasive *Aedes* mosquitoes exploit small and cryptic water sources and have shown resistance to many commonly used insecticides, limiting the efficacy of traditional control approaches.**

- New technologies including a form of Sterile Insect Technique that utilizes a naturally-occurring bacteria called Wolbachia are being evaluated. When *Aedes* males are infected with a particular strain of Wolbachia and then are released to breed with wild female mosquitoes infected with a different strain of Wolbachia the resulting offspring are not viable.

"Initial trials using Wolbachia in Los Angeles County and Fresno County show great promise, but districts need funding to get these abatement techniques off the ground."



Scan this QR code to learn more and see our digital story map





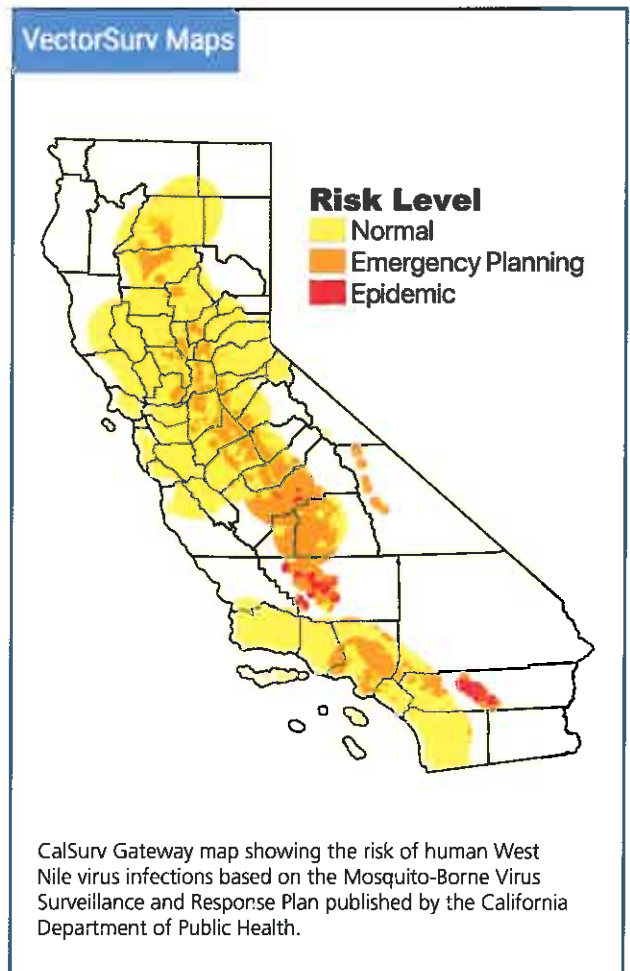
## Ongoing State Funding is Critical for Mosquito Surveillance and Research

The Mosquito and Vector Control Association of California (MVCAC) seeks ongoing state support of \$500,000 annually for the California Vectorborne Disease Surveillance Gateway (CalSurv Gateway). **Without additional funding, the future of CalSurv is in jeopardy, putting public health at risk.**

CalSurv Gateway serves 81 mosquito and vector control and public health agencies in California providing tools for real-time data collection, visualization, and analysis that allows agencies to make informed decisions on interventions. The system tracks disease-spreading mosquitoes – where they are, where they’ve been, where they may appear in the future, and where new diseases might be emerging.

- In 2019, CalSurv Gateway was codified in statute (AB 320 – Quirk) as the statewide surveillance database that enables public health and vector control agencies to proactively identify invasive and native mosquitoes, prioritize problematic areas, and develop the most effective responses to prevent the spread of mosquito-borne diseases.
- In the 2018-19 state budget, there was a one-time provision of \$500,000 directly to UC Davis to support the CalSurv Gateway. This has allowed the program to hire programmers who have developed the following new features:
  - Interactive maps and graphs of mosquito and virus activity showing real-time views of invasive mosquito spread, dengue and Zika infection risk, and mosquito abundance
  - Improved statewide tracking of insecticide resistance
  - Scalable software services that allow local agencies to interact with data and define custom reports

### WEST NILE VIRUS HUMAN RISK ASSESSMENT FOR THE WEEK OF JULY 27, 2019



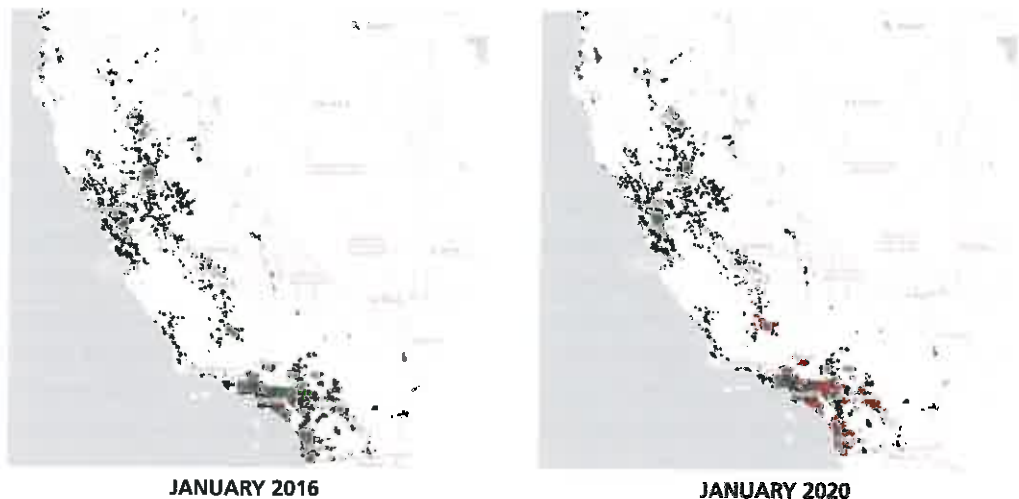




## Invasive Mosquito Species in California: A Growing and Expensive Challenge

Global warming has facilitated the spread of two invasive mosquito species, *Aedes albopictus* and *Aedes aegypti*, throughout the state. Invasive *Aedes* are vectors of Zika, dengue, chikungunya, yellow fever, West Nile virus, and dog heartworm. With over 6.5 million international travelers arriving at California ports of entry each year, the potential for local transmission of imported diseases in the state is increasing. These invasive mosquitoes are now in 16 counties in California and continue to spread. They pose a daunting challenge for mosquito and vector control districts and a serious public health threat.

CALSURV MAP SHOWING *Aedes aegypti* (IN RED) AND *Aedes* SPECIFIC SURVEILLANCE (IN GREEN)



### NEED FOR ADDITIONAL FUNDING TO COMBAT INVASIVE AEDES

The spread of invasive *Aedes* has put an enormous strain on mosquito control districts' budgets. For example, one Southern California district's annual operational expenses increased by 34% as a result of the introduction of invasive mosquitoes. Districts across the state report:

- **Increased costs for staff:** Mosquito seasons now extend well beyond the traditional summer months and districts need year-round technicians as opposed to seasonal staff.
- **Increased costs for surveillance, pesticides and new equipment:** Invasive *Aedes* exploit small and cryptic water sources and have shown resistance to many commonly used insecticides, limiting the efficacy of traditional control approaches and increasing the need for innovative ways to treat this difficult-to-manage species.
- **Increased costs for outreach and education:** *Aedes* females bite throughout the day, resulting in numerous irritating bites, and will follow people indoors. One district had to increase public education efforts by 200% to encourage preventative practices.



# Impact of Vector-Borne Diseases and the Role of Mosquito Control in California

## THE MOSQUITO IS THE DEADLIEST CREATURE ON THE PLANET

- Mosquito-transmitted diseases contribute to the deaths of nearly one million people every year worldwide and sicken millions more.
- In the United States, mosquitoes routinely transmit more than half a dozen viruses, including West Nile (WNV) and St. Louis encephalitis viruses. Some newly established mosquito species in the United States are capable of transmitting several exotic viruses such as chikungunya, dengue, and Zika, which have been transmitted locally in several states and have had devastating effects worldwide.
- There are no human vaccines available for West Nile, St. Louis encephalitis, dengue, chikungunya, or Zika viruses, which are costly to treat and can have long-term health and financial consequences.

## WEST NILE VIRUS IS A SERIOUS THREAT

- Infected mosquitoes can spread West Nile virus – a disease which can cause debilitating cases of meningitis, encephalitis, and even death. There is no cure for West Nile virus.
- West Nile virus activity was detected in 34 counties in California in 2019 and there were 214 human disease cases reported, of which 143 (66.8%) were the more severe neuroinvasive form.
- Six West Nile virus-related fatalities from six counties were reported in 2019.
- Since 2003, more than 7,000 human WNV disease cases have been reported in California, including more than 300 deaths.

## ZIKA VIRUS IN CALIFORNIA

- No local transmission of Zika virus has occurred in California, but 745 cases of travel-related Zika virus infections have been reported since 2015, many in areas where invasive mosquitoes have been detected. Zika virus can cause miscarriage, stillbirth, and severe birth defects among pregnant women.
- Local transmission of Zika virus has only been reported in Florida and Texas, but it is essential that California enhances its detection and prevention capabilities to ensure that mosquito control agencies, as well as local and state health departments, are adequately prepared to respond to possible local transmission events in the future.

## MOSQUITO-BORNE DISEASES HAVE SIGNIFICANT ECONOMIC IMPACTS

- The economic costs to patients can be high, including costs for inpatient and outpatient medical care and rehabilitation, nursing homes, transportation, home health aides, childcare, and loss in productivity.
- The total mean cost of West Nile virus hospitalized cases and deaths reported to the U.S. Centers for Disease Control and Prevention for 1999–2012 was ~\$778 million.
- In 2005, an outbreak of West Nile virus disease occurred in Sacramento County. The total economic impact of the outbreak, including vector control response and patients' medical costs, was \$2.98 million.



P.O. Box 942709 Sacramento, CA 94229-2709  
888 CalPERS (or 888-225-7377)  
TTY: (877) 249-7442 | Fax: (916) 795-2330  
www.calpers.ca

February 14, 2020

California Public

Tulare Mosquito Abatement District  
Attn: Human Resources  
6575 DALE FRY RD  
TULARE, CA 93274

#7

Dear Representative:

Per a request to review Andrew Conard's (CID: 8887301728) employment history and payroll information provided on the MEM-1344 Request for Payroll Information Form certified by the Tulare Mosquito Abatement District, California Public Employees' Retirement System (CalPERS) determined the time frame from July 1, 2009 to May 15, 2013 qualified for membership in CalPERS. Indicated below is the qualifying basis under Government (Gov.) Code section 20305 of the California Public Employees' Retirement Law (PERL) by which membership was attained.

Upon review of the member's account and information certified, it was determined:  
Member completed 1,000 hours of work within the fiscal year (July 1 to June 30th).  
Payroll and contributions were not reported when membership was established.

**Please do not report payroll retroactively unless otherwise directed by CalPERS Membership staff.**

Due to this determination:

Employer Paid Arrears (Gov. Code section 20283) applies to the above employment period. The agency will be liable for the member and employer contributions due on this member's account and a \$500 administrative cost.<sup>1</sup>

If you do not agree with this determination, within 30 days from the date of this letter, you must provide CalPERS the sufficient documentation contrary to and the reason you do not agree with this determination. If CalPERS does not receive any additional information within the 30 days, the case will be forwarded to our Service Credit Purchase and Elections Section for processing. Arrears cost information will then be sent to the member and to this agency.

You have the right to appeal the decision referred to in this letter if you desire to do so, by filing a written appeal with CalPERS, in Sacramento, within **thirty days of the date of the mailing of this letter**, but no later than March 15, 2020 in accordance with Gov. Code section 20134 and sections 555-555.4, Title 2, California Code of Regulations. An appeal, if filed, should set forth the factual basis and legal authorities for such appeal. A copy of the applicable statute and Code of Regulations sections are included for your reference. If you file an appeal, the Legal Office will contact you and handle all requests for information.

<sup>1</sup>In response to this determination, State Departments must contact the State Controllers' Office to update the PIMS employment information. This instruction is not applicable to Schools or Public Agencies.

Your appeal will be set for hearing with the Office of Administrative Hearings (OAH). The assigned CalPERS attorney will contact you to coordinate a hearing date. Depending on the current caseload of the OAH and the assigned attorney, the hearing date may be set several months after the case is opened. The OAH will typically offer its earliest available hearing date that meets the schedule of both parties. If you choose not to be represented by an attorney, the assigned CalPERS lawyer will be in direct communication with you during the appeal process. If you do hire an attorney, please let CalPERS know immediately so our attorney can work directly with him or her. Enclosed is an informational brochure on the General Procedures for Administrative Hearings.

After the hearing is completed, the Administrative Law Judge will issue a Proposed Decision in approximately 30 days. The CalPERS Board of Administration will then decide whether to accept or reject that Proposed Decision. If the Board rejects the Proposed Decision, they will hold a full Board Hearing to review the entire hearing record again before finalizing their decision. Your appeal should be mailed to the following address:

Renee Ostrander, Chief  
Employer Account Management Division  
P.O. Box 942709  
Sacramento, CA 94229-2709

CalPERS remains committed to assisting our members and business partners in all matters within the scope of the statutory authority available to us. If you have any questions regarding this letter, please do not hesitate to contact Membership Review Team at 1-888-225-7377 or email [Membership\\_Reporting@calpers.ca.gov](mailto:Membership_Reporting@calpers.ca.gov).

Sincerely,

Jennifer Rocco, Assistant Division Chief  
Membership Services Section  
Employer Account Management Division

Enclosure

cc: Andrew Conard, CID # 8887301728  
Renee Ostrander, Chief  
Employer Account Management Division



16140 Hwy 99 PO Box 1027  
Tipton, CA  
USA, 93272  
Phone: 1.559.752.3343  
Fax: 1.559.752.1020  
Email: Tipton\_CSMS@rbauktion.com

---

Date: 15-Feb-2020  
From: Ritchie Bros Auctioneers (America) Inc

Number of Pages:2

#8

To: John Avila  
Company: Tulare Mosquito Abatement Dist

Dear John Avila,

Thank you for your consignment.

Attached is a copy of your Owner's Detail Report stating the Gross Proceeds realized from the sale of your goods. Payment for the net proceeds will be sent to you within 21 days of the sale along with a detailed breakdown of any amounts deducted for commissions, refurbishment and incidentals, if applicable.

Should you have any questions please do not hesitate to contact us at 1.559.752.3343.

Thank you for your business.

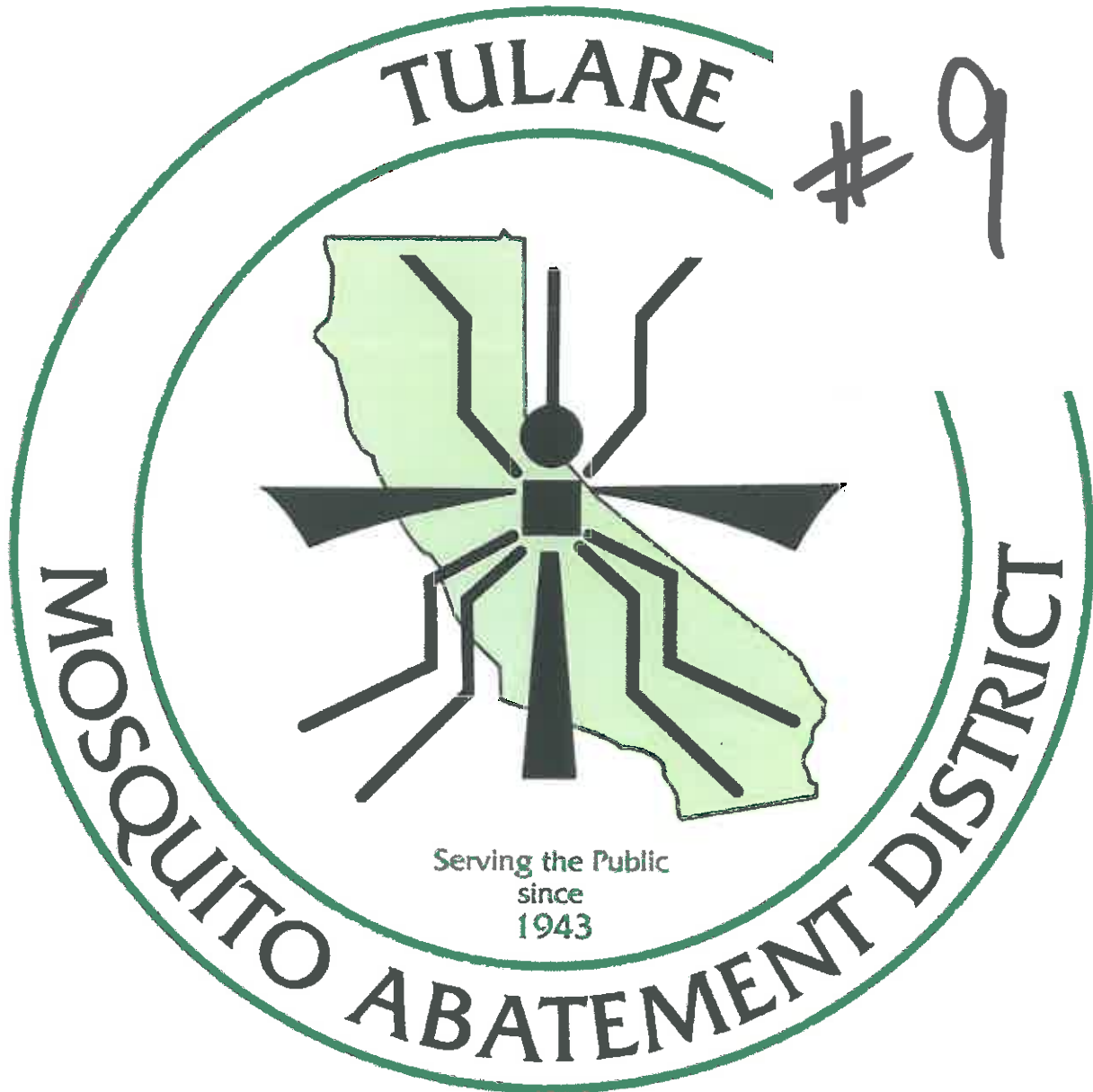
Yours sincerely,

JASON BLACK  
Ritchie Bros Auctioneers (America) Inc





# TULARE MOSQUITO ABATEMENT DISTRICT 2019 ANNUAL REPORT



## Table of Contents

	Page
District Personnel - Board of Trustees & Employees.....	2
Revenue.....	3
Expenditures.....	4 - 9
Summary of Expenditures.....	10
Vehicle Maintenance & Operational cost.....	11
Acres Air Sprayed.....	12
Service Requests.....	13
Chemical Usage Report.....	14
Surveillance / Trapping / Virus Information.....	15
2018-2019 Audit Report.....	16-18

**TULARE MOSQUITO ABATEMENT DISTRICT**

**DISTRICT PERSONNEL**

**2019  
BOARD OF TRUSTEES**

Board Member	Office	Appointed by	Date Appointed	Term Expires
Charlie Pitigliano	President	County of Tulare	01/03/95	01/01/21
Robert Clark	Vice President	County of Tulare	06/28/94	01/01/21
Pat Nunes	Secretary	City of Tulare	12/05/06	08/05/22
Stan Creelman		County of Tulare	01/09/14	01/03/22
Robert Uchita		County of Tulare	01/31/12	01/01/21
Charles Mayer		City of Visalia	11/05/18	06/30/20

**DISTRICT EMPLOYEES**

NAME	POSITION	DATE EMPLOYED
<i>Full Time Employees</i>		
John Avila	General Manager	04/15/95
Michelle Dempsey	Operations Director	04/01/17
Andrew Conard	Field Technician	05/16/13
Quirino Valencia	Field Technician	07/01/13
Armando Gonzalez	Field Technician	06/01/15

<i>Seasonal Employees</i>		Original Hire Date	2019 Season
Jesse Carver	Seasonal Tech	05/07/13	04/29/19 to 10/12/19
Victor Zamora	Seasonal Fld.Tech	05/05/15	04/01/19 to 09/27/19
David Servi	Seasonal Tech	4/15/2019	04/15/19 to 10/12/19
Rene Rodriguez	Surveillance Tech	7/31/2017	04/15/19 to 09/27/19
John Coleman	Surveillance Tech	4/9/2019	04/09/09 to 09/27/19
Jay Summers	Surveillance Tech	4/8/2019	04/08/19 to 09/27/19

**2019 REVENUE**

Primary Revenue ( Tulare County Account # 778 )

( 4001 ) Property Tax - Current Secured	1,398,554.32
( 4006 ) Property Tax - Current Unsecured	83,680.05
( 4008 ) Property Tax - Prior Secured	24,819.74
( 4009 ) Property Tax - Prior UnSecured	1,184.66
( 4030 ) Supplemental Property Tax - Current Secured	24,962.46
( 4033 ) Supplemental Property Tax - Prior Secured	3,509.10
( 4055 ) Timber Yield	0.02
( 4060 ) Residual Dist	64,049.00
( 4069 ) PT Facilities	26,873.00
( 4801 ) Interest	132,431.21
( 5000 ) I/G Revenues	6,029.96
( 5050 ) Property Tax REL	5,828.73

---

1,771,922.25

Miscellaneous Revenue ( Union Bank Account # \*\*\*\*\*4408 )

Medicare Part D	688.00
Sale of Pawnee	60,000.00
Hardy Insurance - Pawnee Refund	471.00
MVCAC Overpayment Refund	0.85
Allstate Class Action Settlement	313.91
Allstate Class Action Settlement	78.56

---

61,552.32

**TOTAL REVENUE**

---

---

**1,833,474.57**

## EXPENDITURES

### SALARIES & EMPLOYEE BENEFITS ( 6000 )

Salaries & Wages ( 6001 )	368,626.62
Extra Help ( 6005 )	109,695.95
Director's Fees ( 6008 )	5,600.00
Social Security ( 6012 )	29,673.60
*Retirement - SD Portion ( 6011 )	32,133.24
Disability Insurance ( 6004 )	4,783.26
Health Insurance ( 6004 )	160,362.33
Unemployment Insurance ( 6004 )	4,774.00
Life Insurance ( 6004 )	1,211.88
Worker's Compensation Ins. SDRMA ( 6015 )	31,900.28

748,761.16

### TOTAL SALARIES & EMPLOYEE BENEFITS

### SERVICES & SUPPLIES ( 7000 )

#### Agriculture ( 7001 )

Altosid WSP (storm drain treatments) <2020>	34,189.68
Barrier Treatments (mosquito adulticide)	1,299.90
City Bus advertising	6,451.35
Chicken program (Coop, supplies, feed)	1,491.89
County Fair (registration, promo items)	1,313.68
Delta Guard (mosquito adulticide)	2,098.32
District Signage on blue building	1,280.00
Kontrol Oil (mosquito larvicide)	50,492.18
Monobor Chlorate/Ant Bait	428.47
Natular DT Tablets (mosquito larvicide)	1,317.93
Natular XRT Tablets (storm drain treatments)	1,004.03
Pyronyl 525 (mosquito adulticide)	7,190.96
Teknar SC (mosquito larvicide)	63,223.01
Spheratax SPH (mosquito larvicide)	3,011.52
Spheratax WSP (storm drain treatments)	4,228.54
Laboratory Equipment	4,404.40
Frontier/ESRI ( sentinel maintenance fees)	1,765.00
Verizon (communication radios)	952.72
Verizon (GPS Tracking System)	3,440.51
Airsprays (Goodlin Dusters)	1,340.00
Aerial Survey (green pool surveillance)	3,532.00
Fish Tank	18,892.63
Flushing solution for foggers	281.00
Streamline - Website	2,600.00
Vectolex WSP (storm drain larvicide)	28,896.68
Vectolex WDG (wide-spread larvicide)	2,135.75
Vectobac 12AS (mosquito larvicide)	1,985.74
Yosemite Linen	5,175.04
Router	172.39
Dry Ice	1,145.15
traps	1,337.31
Misc. field supplies	2,708.97

4

259,786.75

Telecommunications ( 7005 )

AT&T (faxline)	127.20
Verizon (office phones)	<u>1,396.60</u>

1,523.80

Household Expense ( 7009 )

Bottled water - Culligan	434.00
Miscellaneous household	<u>1,170.20</u>

1,604.20



Insurance ( 7010 )

**Coverage and cost of Insurance with current carrier  
Special Districts Risk Management Association (SDRMA)**

Anniversary date of Policy 07/01/20

<b>Type of Coverage</b>	<b>Deductible</b>	<b>Limits</b>	<b>Cost of Coverage</b>
<b>Property</b>	1000	Per Occurrence	
property			1,000,000,000
boiler & machinery			100,000,000
pollution			2,000,000
cyber			limits on file
<b>Mobile Equipment</b>		Per Occurrence	
mobile/contractors equipment			1,000,000,000
<b>General Liability</b>	None	Per Occurrence	
bodily injury			5,000,000
property damage			5,000,000
public officials personal			500,000
employment benefits			5,000,000
employee/public officials errors and omissions			5,000,000
employment practices liability			5,000,000
employee/public officials dishonesty			1,000,000
<b>Auto Liability</b>	None		
auto bodily injury			5,000,000
auto property damage			5,000,000
uninsured motorist			limits on file
<b>Auto Physical Damage</b>		Per Occurrence	
comprehensive	1000		limits on file
collision	500		limits on file
high dollar vehicles			limits on file
<b>Trailer</b>	None	Per Occurrence	limits on file
<b>Worker's Compensation</b>		Per Occurrence	
Employees Liability Coverage	None		5,000,000
workers' compensation	None		Statutory
			<u>34,332.30</u>
Additional Vehicle Insurance Truck #17 added to fleet after July 1, 2019			794.35
<b>CSDA Membership Annual Dues ( 7027 )</b>			4,565.00
			<u><u>39,691.65</u></u>

Maintenance of Equipment ( 7021 )

Vehicle Fuel	28,417.74
Vehicle Maintenance	8,275.42
Aircraft Maintenance	3,583.08
Shop supplies	2,529.83
Vehicle spray system replacement parts	765.19
Fire Extinguisher service	84.00
Waste disposal - wash rack (Safety Kleen)	<u>942.52</u>

44,597.78

Maintenance of Buildings & Improvements ( 7024 )

Giottos Alarm annual fee & repairs	456.00
A/C service, replacement	256.60
Office Remodel - Rough, Concrete. Etc	<u>15,149.22</u>

15,861.82

Memberships ( 7027 )

MVCAC Annual Corporate Dues	9,500.00
AMCA - John & Michelle Individual Membership	290.00
SOVE - Membership	140.00
Costco	<u>60.00</u>

9,990.00

Office Expense ( 7036 )

Quick Books Subscription & Checks	1,376.43
Office supplies and postage	6,060.55
Office Copier service contract & maintenance	1,503.26
Positive Pay- Union Bank	675.00
Union Bank fees for Direct Deposit and Wire	207.50
Internet access - Unwired Broadband	<u>1,631.64</u>

11,454.38

Professional & Specialized Expense ( 7043 )

Legal services	8,360.00	
Audit FY 17/18 & 18/19	10,500.00	
GASB 75 Report for Audit	2,500.00	
GASB 68 (PERS)	<u>700.00</u>	
		22,060.00

Rent & Leases - Bldg. & Improvements (7062)

Land rent ( City of Tulare )	<u>9,288.00</u>	
		9,288.00

Small Tools & Instruments (7065)

<u>145.56</u>	
	145.56

District Special Expense ( 7066 )

MVCAC 2019 Conference Registration	1,255.00	
MVCAC 2020 Conference Registration	538.29	
CalPERS Health Fair Registration	449.00	
CSDA Annual Conference	650.00	
CA Department of Health License Renewals	1,144.00	
Continued Education Webinars	65.00	
Educational Workshops and Webinars	994.11	
State Examination (Seasonal Employee)	116.00	
Pawnee - Ads, Title, Lien, FedEx, etc	<u>353.05</u>	
		5,564.45

Transportation & Travel (Lodging/Meals) ( 7074 )

MVCAC Annual Conference Burlingame	1,321.32
MVCAC Quarterly Sacramento	786.03
CSDA Annual Conference Anaheim	567.25
CalPERS Health Fair Oakland	<u>942.89</u>

3,617.49

Utilities ( 7081 )

Electrical service-hanger & office complex	2,455.51
Gas service-hanger & office complex	456.52
City Water & Refuse pickup	<u>1,502.50</u>

4,414.53

**TOTAL SERVICES & SUPPLIES**

**429,600.41**

## SUMMARY OF EXPENDITURES

SALARIES & EMPLOYEE BENEFITS ( 6000 ) 748,761.16

SERVICES & SUPPLIES ( 7000 )

Agriculture ( 7001 )	259,786.75
Telecommunications ( 7005)	1,523.80
Household expense ( 7009 )	1,604.20
Insurance ( 7010 )	39,691.65
Maintenance of Equipment ( 7021 )	44,597.78
Maintenance of Buildings & Improvements( 7024 )	15,861.82
Memberships ( 7027 )	9,990.00
Office Expense ( 7036 )	11,454.38
Professional & Specialized Expense ( 7043 )	22,060.00
Rent & Leases Bldg. & Improvements ( 7062 )	9,288.00
Small Tools & Instruments ( 7065 )	145.56
District Special Expense ( 7066 )	5,564.45
Transportation & Travel ( 7074 )	3,617.49
Utilities ( 7081 )	4,414.53

---

429,600.41

**TOTAL EXPENDITURES** \$ 1,178,361.57

**VEHICLE MAINTENANCE**

**&**

**OPERATIONAL COST**

**2019**

Vehicle #	Year	Repair cost parts	Miles Driven 2019	Cost per Mile	Total Miles on Vehicle
1	2006 Chevy 1/2 Ton	-	2,638	-	40,859
2	2015 Chevy 1/2 Ton	2,297.00	9,096	0.0387	59,297
3	2018 Chevy ClubCab	-	6,108	-	8,834
4	2010 Chevy 1/2 Ton	-	430	-	82,385
5	2013 Chevy 1/2 Ton	-	9,277	-	49,475
6	2006 Jeep Wrangler	454.11	5,331	0.0111	40,833
7	2013 Chevy 3/4 Ton	64.64	13,520	0.0007	87,444
8	2018 Chevy 1/2 Ton	60.00	6,314	0.0043	13,870
9	2006 Chevy 1/2 Ton	334.11	3,656	0.0051	65,024
10	2008 Chevy 1 Ton	238.92	2,822	0.0031	76,533
11	2006 Chevy 1 Ton	603.44	138	0.0061	98,837
12	2006 Chevy 1 Ton	292.62	7,112	0.0042	70,188
13	2006 Chevy 1/2 Ton	498.01	9,620	0.0213	23,402
14	2009 Chevy 1 Ton	2,148.93	5,729	0.0406	52,984
15	2017 Honda ATV	-	-	-	-
17	2019 Chevy Ext Cab	-	6292	-	606
<b>Total Parts &amp; Repair</b>		<b>6,991.78</b>	<b>Gallons of gasoline</b>		<b>8,531</b>
<b>Gasoline</b>		<b>28,417.74</b>	<b>Total miles driven</b>		<b>88,083</b>
<b>Insurance</b>		<b>15,919.39</b>	<b>Avg. Miles per gallon</b>		<b>10.3</b>
<b>Total Operational Cost</b>		<b>51,328.91</b>	<b>Average cost per mile</b>		<b>0.58</b>

**ACRES AIR SPRAYED**

**2012 - 2019**

Year	2019	2018	2017	2016	2015	2014	2013	2012
JAN	0	0	0	0	0	0	0	0
FEB	0	0	0	0	0	0	0	0
MAR	0	0	393	10	0	0	0	0
APR	32	0	290	310	0	0	0	0
MAY	57	200	190	4	0	34	10	0
JUN	0	0	265	23	0	54	10	0
JUL	0	0	0	1875	1200	2751	3	188
AUG	0	0	15	1226	2622	3766	258	2741
SEP	0	0	10	952	2414	2027	4116	1786
OCT	0	0	0	0	3	15	1836	92
NOV	0	0	0	0	0	4	0	0
DEC	0	0	0	0	0	0	0	0
<b>Total</b>	<b>89</b>	<b>200</b>	<b>200</b>	<b>1,163</b>	<b>4,400</b>	<b>6,239</b>	<b>8,651</b>	<b>6,232</b>

## SERVICE REQUESTS

2012 - 2019

Year	2019	2018	2017	2016	2015	2014	2013	2012
JAN	1	0	0	1	1	0	0	0
FEB	1	1	1	4	9	1	0	0
MAR	5	2	12	10	9	4	6	2
APR	20	5	12	8	19	3	3	3
MAY	12	4	12	13	6	8	7	9
JUN	39	6	12	6	10	6	8	7
JUL	154	15	13	8	3	13	13	8
AUG	145	23	41	17	1	19	10	11
SEPT	108	25	44	5	12	11	8	6
OCT	32	29	8	9	11	8	2	10
NOV	8	7	2	4	2	0	1	0
DEC	4	0	2	2	0	1	0	0
<b>TOTALS</b>	<b>529</b>	<b>117</b>	<b>159</b>	<b>87</b>	<b>83</b>	<b>74</b>	<b>58</b>	<b>56</b>



YEAR-END CHEMICAL REPORTED USAGE																					
	AGNIQUE	ALTOSID A.L.L.	ALTOSID WSP	DUJET	AQUABAC POWDER	BIOMIST 4+12	TEKNAR	CO.BEAR OIL	DELTA GARD	KONTROL OIL	NATURAL 2EC	NATURAL DT	NATURAL G30	XRT	525	SPHERATAX SPH 50G	WSP	SUSPEND SC	VECTOBAC 12AS	WSP	
2019	0.267	0.015	12.525				5.695			61.883											
MAR	0.939	1.000	10.200		6.780	0.025	140.778	1.000		175.355		0.021		1.144				0.656			51.700
APR	1.068	1.500	0.165	0.250		0.781	319.095	5.500		409.402	0.941	0.003	220.000	0.704		89.8					74.760
MAY	1.670		0.440	1.949			430.472		0.867	469.942	0.66	0.024	40.000	1.41							109.472
JUN	0.781			0.469		0.324	499.963		1.492	677.100	0.055	0.044		0.088		19.000		0.344	10.477		86.438
JUL	0.688			1.250	0.714		482.874		3.836	661.250	0.047	0.012	80.000		9.069	31.000		0.609	9.178		99.880
AUG	0.490	0.140				0.094	441.993	47.500	1.281	694.209		0.042			0.93	61.000		0.359			136.532
SEP	0.202	0.050				0.129	136.123	1.600	3.516	379.505		0.003		0.088	0.697	72.090		0.530			107.450
OCT																					10.690
NOV																					
DEC						0.001															
TOTALS:	6.105	2.000	23.520	4.000	7.494	1.354	2456.993	55.600	10.992	3528.646	1.703	0.149	340.000	3.434	10.696	272.890	62.000	2.818	81.243		676.922
ACRES TREATED VS PAST 10 YEARS																					
	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009										
GROUND	20,000	18,326	29,352	18,938	23,416	20,449	22,934	13,215	12,257	11,751	18,784										
AIR	89	200	1,163	4,400	6,239	8,651	6,232	4,807	6,089	6,101	12,514										
TOTALS	20,089	18,526	30,516	23,338	29,655	29,100	29,166	18,022	18,346	17,852	31,298										
														CHEMICAL PRICE LIST							
														Price per Gallon/Per Pound (#)							

Agnique	37.88
Altosid	273.87
AquaBac Primary Powder	45.47 #
Aqua Duet	273.00
BIOMIST 4+12	94.40
DeltaGard (Deltamethrin)	\$1.52/oz
Duet (Oil-Based)	\$1.86/oz
Four Star SBG	2.79 #
Kontrol Oil	6,000 gallons
Natural DT Tablets	each.
Natural G	5#/ac = 30.65/ac
Natural G30	5#/ac = \$86/acre
Natural 2EC	\$6.83/oz \$7.51/ac
One Guard	\$2.66/oz
Evergreen EC Crop Spray	365.34
Pyrocide 525	211.15
Spheratax	5.79 #
Suspend SC	\$ 2.35/Oz
Teknar SC	Per Tote
Teknar SC	Per 2 1/2 gallons
Vectobac 12AS	Per 2 1/2 gallons
Vectobac Granules (Pound)	2.08 #

## Surveillance Trapping 2019

MONTH	Ser.Reg	# TRAPS	POOLS SUBMITTED	WNV + POOLS	SLEV+ POOLS	LOCATIONS OF POSITIVE POOLS
JAN - APRIL	27	120				
MAY	12	159				
JUN	39	195				
JUL	152	225				
AUG	147	191	36	21	4	Tulare (20) (4), South Visalia (1)
SEP	108	327	30	4	3	Tulare (3) (2), South Visalia (1) (1)
OCT	32	142				
NOV	8	66				
DEC	3					
<b>Totals</b>	<b>528</b>	<b>1425</b>	<b>66</b>	<b>25</b>	<b>7</b>	

### TRAPS

	Gravid	CO2	BG	Ovi	In 2 Care	Total Traps	Y.T.D.
April	120	7		20		147	147
May	159	4		20		183	330
June	195	25	4	30		254	584
July	225	31	15	40		311	895
August	191	26	19	40		276	1171
September	327	29	15	40	5	416	1587
October	142	16	15	20	10	203	1790
November	66		10	20	10	106	1896
December					10	10	1906
	<b>1425</b>	<b>138</b>	<b>78</b>	<b>230</b>	<b>35</b>	<b>1906</b>	

### VIRUS

	WNV +	Human WNV+	SLEV+	Zika +
April				
May				
June				
July		2		
August	21	6	4	
September	4	4	3	
October				
November				
December				
	<b>25</b>	<b>12</b>	<b>7</b>	<b>0</b>

Note: Testing was during August and September only

---

The Tulare Mosquito Abatement District was established in 1943 to provide mosquito control in the District. The District covers an area of 562 square miles in Tulare County. The District office and operations site is located at 6575 Dale Fry Dr., Tulare, CA. This discussion of the Tulare Mosquito Abatement District's financial performance provides an overview of the District's financial activities for the fiscal year ended June 30, 2019. Please read it in conjunction with the basic financial statements and the accompanying notes to the financial statements.

As a public operation, the District receives an allocation of property tax revenue from Tulare County. The District received \$1,549,549 in the current fiscal year in property tax allocations.

**Discussion of the basic financial statements:**

*Government Wide Statements*

The government wide statements present the financial picture of the District as measured by its total economic resources using the accrual basis of accounting. This is similar to that used by private sector companies. These statements provide both short term and long term information about the District's financial status as a whole. The statement of net position and statement of activities include all the assets of the District (including its infrastructure), deferred outflows of resources, all liabilities (including any long-term debt), and deferred inflows of resources. All of the current year's revenue and expenses are accounted for in the statement of activity regardless of when cash is received or paid.

The government wide statements report the District's net position and how they have changed. Net position, the difference between the District's assets and deferred outflows of resources, and liabilities and deferred inflows of resources, are one way to measure the District's financial health or position. Over time, increase or decrease in the District's net position are indicators of whether its financial position is improving or deteriorating. To further assess the overall health of the District, one needs to consider additional non-financial factors such as changes in the Districts population, the ability to adjust service charges and the impact of changes in laws and regulations that may apply to the District.

The government wide financial statements in these financial statements include only governmental type activities.

*Fund Financial Statements*

The fund financial statements present the financial picture of the District in more detail than the government wide statements by describing the individual parts or funds. Funds are used to keep track of specific sources of funding and spending on particular programs. Some funds are required by State law and the District itself may establish other funds to control and manage assets for particular purposes at its discretion.

The District has only one fund type known as a governmental fund. Governmental fund types are presented on the modified accrual basis of accounting and a current resources focus. Assets expected to be used up, deferred outflows of resources and deferred inflows of resources in existence, and liabilities that come due during the year or soon thereafter are reflected. Capital assets acquisitions are treated as expenditures. Revenues for which cash is received during the year or soon thereafter are included. Expenditures for goods and services that have been received and for which payment is due during the year or soon thereafter are included.

The statements are presented using a *combination approach*, reflecting both the fund financial statements and the government-wide statements. The adjustments reconciling the different methods are disclosed in the notes to the financial statements.

**Condensed budget comparison (Continued):**

The District received more property tax revenue than anticipated. Expenditures were substantially less than budgeted for, especially in repairs and maintenance costs and chemical purchases.

The District's planned budget for the next fiscal year of operations is very conservative regarding anticipated revenue from property tax and miscellaneous sources of income. In addition, anticipated carryover from the previous budget is very conservative. In turn, the anticipated spending for the next fiscal year budget included high anticipated costs in all categories of the budget. This is done to assure operations will not have a shortfall in any category. We feel the nature of our operations is unpredictable enough to warrant this approach to our budget process.

**Management comments on the investment of District funds:**

The responsibility for the accounting and investment of District funds resides with the Board of Directors. The Board is limited in its investment choices. Currently the District keeps its excess funds with the County of Tulare. These funds are managed by the County to achieve an adequate return with minimal risk.

**Management comments on capital assets and long term-debt:**

The District's capital assets consist of buildings and equipment. The buildings include the District office and miscellaneous other service structures. The District has various types of equipment to provide mosquito abatement services, including ground spray vehicles and a Piper Pawnee 235 aircraft for aerial application.

**Overall analysis**

The District is in a healthy financial condition. Our cash carryover has increased this year as well as in the past several years. Growth of the tax base in our District has given the District additional revenue despite changes in the allocations of revenue sharing for Special Districts at the County level.

John Avila, Manager

**Tulare Mosquito Abatement District**  
Statement of Governmental Fund Revenues, Expenditures, and  
Changes in Fund Net Position / Statement of Activities  
For the Year Ended June 30, 2019

	General Fund	Adjustments (Note 4)	Statement of Activities
<b>REVENUES</b>			
Property taxes, including penalties and interest	\$ 1,549,549	\$ 0	\$ 1,549,549
Other	43,819	0	43,819
Total revenues	<u>1,593,368</u>	<u>0</u>	<u>1,593,368</u>
<b>EXPENSES</b>			
Salaries, employee benefits and payroll taxes	699,435	38,900	738,335
Agricultural	188,999	0	188,999
Telecommunications	1,597	0	1,597
Household expense	1,618	0	1,618
Insurance	70,846	0	70,846
Repairs and maintenance, equipment	52,718	0	52,718
Repairs and maintenance, structures	3,904	0	3,904
Memberships	9,930	0	9,930
Office supplies	11,084	0	11,084
Professional fees	15,810	0	15,810
Rent	9,288	0	9,288
District special expense	15,548	0	15,548
Utilities	5,106	0	5,106
Travel	2,935	0	2,935
Other	35,787	0	35,787
Capital outlay	36,315	(36,315)	0
Gain on sale of equipment	(60,000)	0	(60,000)
Depreciation	0	65,690	65,690
Total expenses	<u>1,100,920</u>	<u>68,275</u>	<u>1,169,195</u>
Operating income	<u>492,448</u>	<u>(68,275)</u>	<u>424,173</u>
<b>NON-OPERATING REVENUE AND EXPENSES</b>			
Use of money - interest	115,075	0	115,075
Grant income	0	0	0
Pension income	28,178	0	28,178
Total non-operating revenue and expenses	<u>143,253</u>	<u>0</u>	<u>143,253</u>
<b>EXCESS OF REVENUES OVER EXPENSES</b>	635,701	(635,701)	0
Change in net position	0	567,426	567,426
Cumulative effect of accounting change			(1,202,567)
Fund balances / Net position, beginning of year	<u>5,750,049</u>	<u>\$ 0</u>	<u>5,746,255</u>
Fund balances / Net position, end of year	<u>\$ 6,385,750</u>	<u>\$ 0</u>	<u>\$ 5,111,114</u>

See independent auditors' report

D

## **Delta Vector Control District Announcements**

### ***Welcome to New General Manager***

Dr. Mustapha Debboun is a Board Certified Medical & Veterinary Entomologist and has worked over 27 years in the field of public health entomology and vector-borne diseases. Born in Morocco, Dr. Debboun came to the United States to continue his higher education. He received his BS degree from Skidmore College in New York, his Masters degree from the University of New Hampshire and his PhD. from the University of Missouri. Upon graduation from the University of Missouri, Dr. Debboun began a career in the US Army where he advanced to the rank of Colonel, before retiring in 2014. His global military and civilian entomological work has taken him to over 35 different countries throughout the world. His main goal is to provide efficient and sustainable management of disease vectors and human protection from mosquito and other vector-borne disease threats, using not only conventional means but innovative, integrated vector management, as well. Dr Debboun collaborates with scientists throughout the world and has authored or co-authored over 115 scientific publications and four books. He also organizes and leads national and international public health entomology symposia, is a subject matter expert scientific reviewer and editorial review board member of eight scientific journals. Dr. Debboun and his wife, Natalie, have been married 29 years and raised three children.

### ***Mir Bear-Johnson, Promotion to Assistant Manager***

We would like to congratulate Mir on her promotion to Assistant Manager. Mir has been with the District since 2017 when she started as a Biologist. In 2018 she was promoted to Scientific Program Manager and put in charge of overseeing all aspects of the Delta Vector Control District laboratory including vector surveillance, vector-borne disease testing, insecticide resistance monitoring, budget, and research. Mir has a B.A. in Biology from Case Western Reserve University and a M.S. in Epidemiology from Tulane University School of Public Health and Tropical Medicine. She served for over two years in the Peace Corps in Morocco as a health education volunteer. Mir is trained in laboratory protocols as well as statistical analysis, and is certified by the California Department of Public Health as a Vector Control Technician in Categories A through D. Outside of work, Mir loves traveling and is attempting to visit every country in the world. She also enjoys spending time with her two cats and two chinchillas, playing board and video games, reading, writing, baking, hiking, art projects, gardening, and working on home improvement projects.

**Cindy Monroy**

to Christina, Diana, Inc

Fri, Feb 14, 12:40 PM

F.

Thats Fantastic Michelle!

**Event Purpose:****FAMILY STEAM NIGHT**

Parents and students get the opportunity to engage with diverse activities where they can explore Science, Engineering, Technology, Art and Math via engaging activities, crafts and displays. Families will receive an activity passport to get stamped after completing each activity once the activities are complete they can redeem their hot dog and pop corn tickets.

**The event will take place at Pixley Elementary School located at:**

300 N. School St.

Pixley, CA 93256

- Open to the Pixley Students & Community. Fun for the whole family!
- Set up Inside the cafeteria and outside cafeteria areas.
- We anticipate 200-250 attendees
- Event starts at 5pm – Clean up begins at 7pm
- Participants get free hot dogs and popcorn for participating, you and your staff will get a complimentary one as well for taking part in our event.
- Drinks will be for sale by our PTO

**Event Hours:** 5pm-7pm you may arrive as early as 4:00pm to unload and set up.**Parking:**

You may park in the large parking lot off of Court street ( by the District Administration Office) or you may park in the smaller lot or street side off of School Street. Either area has an unloading section.

**Unloading & Set up:**

Students are released from after school program at 4:30, we recommend you **arrive prior to this time**, pick up generates traffic congestion. Please check in at the front office with Reyblin upon arrival. She can direct you to your set up area or get you in contact with our program coordinator. Your set up contact is Christina Prieto our Program Coordinator, who i've CCd on this email.

**Logistics:**

Would you prefer indoor or outdoor set up?

How many display tables will you need?

Anything else you may need for us to ensure we accommodate your display needs?

Please let me know if there is anything else I can provide for you to support your planning for this evening.

We look forward to hosting you!

Cindy Monroy