

**MINUTES OF THE MEETING OF THE BOARD OF TRUSTEES OF THE TULARE  
MOSQUITO ABATEMENT DISTRICT, HELD AT THE OFFICES OF THE DISTRICT,  
MEFFORD FIELD, TULARE, CALIFORNIA ON THE 13<sup>th</sup> DAY OF NOVEMBER 2018,  
AT THE HOUR OF 1:00 P.M. OF SAID DAY**

Present at the meeting called at 1:20 p.m. at the place above designated were: Charlie Pitigliano, presiding, Robert Clark, Pat Nunes, and Chuck Mayer. Robert Uchita and Stan Creelman were absent. Also present at the Board Meeting were John Avila, District Manager, Michelle Dempsey, Operations Director, and Chad M. Lew, counsel for the District.

**Agenda Item No. 1:** Citizen Comments.

Charlie Pitigliano opened the floor to citizen comments, but there were no comments from the public.

**Agenda Item No. 2:** Review Minutes of October 9, 2018, Board of Trustees Meeting.

The minutes of the meeting held on October 9, 2018, were presented to the board in writing and reviewed. Upon a motion made by Robert Clark, seconded by, Pat Nunes, and unanimously carried, the minutes of the meeting held on October 9, 2018, were approved as presented.

**Agenda Item No. 3:** Additions / Approval of Agenda.

There were no additions to the agenda.

**Agenda Item No. 4:** Payment of Check Number 5520 - 5562, Electronic Fund Transfers (EFTPS) from Union Bank to the IRS for Social Security, Medicare and Federal Tax Payments and Union Bank Charges and Credits.

The board members reviewed the District's Union Bank checking account, check numbers 5520 - 5562, the electronic fund transfers (EFTPS) for payment of Social Security, Medicare and Federal Tax Payments to the IRS, and the electronic debit payments from the District's Union Bank account. Upon a motion duly made by Pat Nunes, seconded by Robert Clark, and unanimously carried, the Union Bank checking account, check numbers 5520 - 5562, the electronic fund transfers (EFTPS) for payment of Social Security, Medicare and Federal Tax Payments to the IRS, and the electronic debit payments from the District's Union Bank checking account were approved.

**Agenda Item No. 5:** Michelle's Report on SOVE, CalPERS and Tipton Health Fair Events in October.

Michelle provided a report to the board related to her attendance and participation in the SOVE (Society for Vector Ecology) annual conference, CalPERS conference, and the Tipton 2018 Health, Safety & Resource Fair.

**Agenda Item No. 6:** District's Fleet Status or 2019.

John reviewed with the board the age and mileage of the District's vehicle fleet. He advised that some of the District's vehicles will need to be replaced in the near future due to age and mileage. He indicated that he is advised that the CMAS system is not allowing for orders of the trucks the District would need until sometime in January 2019.

**Agenda Item No. 7:** Review Insurance Coverage Obtained for Aircraft.

John reported that the District obtained liability coverage, non-chemical, for the District's aircraft with policy limits of \$100,000.00/\$300,000.00 each person/each occurrence, through Hardy Aviation Insurance, Inc., with an annual premium of \$893.00.

**Agenda Item No. 8:** Discussion, Consideration and Potential Action on Resolution 2018-02 to Adopt Amended Conflict of Interest Code.

Chad reviewed with the board the District's proposed amended conflict of interest code. After some discussion, upon a motion duly made by Chuck Mayer, seconded by Robert Clark, the board moved to adopt Resolution 2018-02, a resolution adopting an amended conflict of interest code, with Charlie Pitigliano, Chuck Mayer, Robert Clark and Pat Nunes, voting yes, with zero no votes, and Robert Uchita and Stan Creelman absent.

**Agenda Item No. 9:** Aedes Aegypti KDR "Knockdown Resistance Assay" Results.

John reviewed with the board the results of the Aedes Aegypti Knockdown Results Assay for the 48 specimens that the District sent in for testing. The results showed pesticide resistance in the specimens testes, and the report recommended pesticide product rotation, application of mixtures of insecticide classes, mosaic applications of insecticides, and implementation of multiple intervention types of infested areas.

**Agenda Item No. 10:** Discussion to Cancel December 11<sup>th</sup> meeting and Schedule a Special Board Meeting to Coincide with Annual Christmas Lunch.

John discussed with the board the possibility of cancelling the normal meeting of the board in December 2018, and scheduling a special board meeting to coincide with the District's annual Christmas lunch on December 7, 2018.

**Agenda Item No. 11:** Report on Progress in Replacing City of Visalia's Board Representative.

John introduced Chuck Mayer, the newly appointed trustee appointed by the City of Visalia, to fill the vacancy created by the resignation of Sherry Champagne.

**Agenda Item No. 12:** Manager's Report.

- a) Christmas Luncheon December 7<sup>th</sup> - John reviewed with the board members their assigned contributions to the Christmas lunch.
- b) Audit Update - John advised that the audit was still being completed by Adair & Evans, and that it was delayed a bit by the requirement to complete the Other Post Employment Benefits Report.
- c) Tulare County Revenue Estimations - John reviewed with the board correspondence dated October 29, 2018, from the County of Tulare, Cass Cook, Auditor-Controller, that provided the District with property tax revenue estimates and distribution dates.
- d) Aircraft Sale Status - John advised that there was no new interest in the District aircraft so he placed an add for the sale of the aircraft with Trade-A-Plane.

Page 3 of 3.

**Agenda Item No. 12: Meeting Adjourned.**

There being no further business to come before the board, upon a motion duly made by Robert Clark, seconded by Chuck Mayer, and unanimously carried, the meeting was adjourned at 1:50 p.m.

---

SECRETARY

				Union
				Check #'s
				EFTPS
				E Debits
Full Time Employees				
6001	John Avila		2,566.61	5563
6001	Michelle Dempsey		2,229.86	5564
6001	Andrew Conard		1,943.59	5565
6001	Armando Gonzalez		1,991.92	5566
6001	Quirino Valencia		1,914.15	5567
6004	CA Emp Dev Dept	UI, ETT, SDI & PIT	543.08	EFTPS
6004	Choice Builders	Monthly premium for employee Dental Vision & Life Insurance	941.63	5568
6008	Charlie Pitigliano	Board Meeting 11/13/18	100.00	5569
6008	Robert Clark	Board Meeting 11/13/18	100.00	5570
6008	Pat Nunes	Board Meeting 11/13/18	100.00	5571
6008	Charles Mayer	Board Meeting 11/13/18	100.00	5572
6011	CalPERS (Employee)	Employee Additional deferred contribution	525.00	EFTPS
6011	CalPERS (Retirement)	PERS Retirement contribution Employer & Employees	2,041.04	EFTPS
6012	Union Bank	Federal Inc Tax., Employee/Employer Medicare & SS	3,439.64	EFTPS
Services & Supplies (2000)				
7001	Verizon Wireless	Field Communications	83.92	199.76 5573
7005	Verizon Wireless	Office Phones	115.84	
7009	Culligan	Bottled Water		23.25 5574
7010	CSDA	CSDA Membership Renewal		4,348.00 5575
7021	C.P. Phelps Inc	Vehicle fuel		877.18 5576
7021	Battery Pro	New Battery for Truck #11		118.99 5577
7036	Cline's Business Equipment	IT support/maintenance	60.00	95.08 5578
7036		Monthly maintenance contract - copier	35.08	
7043	McCormick, Kabot, Jenner & Lew	Board Meeting 11/13/2018	300.00	300.00 5579
7066	SSJV Regional Continuing Ed Fund	Regional CEU Training 8 attendees		280.00 5580
7062	City of Tulare	Land Rent	774.00	897.56 5581
7081		Water & Refuse Pickup Service	123.56	
	Union Bank Credit Card			1,290.24 5582
7005		Att*Web - Faxline	10.60	
7021		Pilot - Fuel	60.04	
7036		HR Employment Law Newsletter	97.00	
7036		Unwired Broadband - Internet Monthly Service	135.97	
7036		Envelopes.com - Printed envelopes	131.17	
7066		Tenaya Lodgeing - SOVE Michelle Lodging	643.07	
7066		Market Buffett - SOVE Michelle Meals	16.26	
7066		South Gate Brewing Co. - SOVE Michelle Meals	36.25	
7066		The Beer Hunter - CalPERS Conf. Michelle Meals	15.00	
7066		Indian Wells Golf Resort - CalPERS Conf. Michelle Meals	24.78	
7066		Renaissance Hotel - CalPERS Conf. Michelle Meals	19.40	
7066		TAP Publishing Co - TradeAPlane Ad/Pawnee	100.70	

---

**26,966.58**

			Union	
			Check #'s	
			EFTPS	
Full Time Employees			E Debits	
6001	John Avila		2,566.62	5583
6001	Michelle Dempsey		2,229.86	5584
6001	Andrew Conard		1,943.60	5585
6001	Armando Gonzalez		1,991.93	5586
6001	Quirino Valencia		1,914.16	5587
6004	CA Emp Dev Dept	UI, ETT, SDI & PIT	543.08	EFTPS
6004	CalPERS (Health )	Monthly Health Premium	12,507.75	EFTPS
6011	CalPERS (Retirement)	PERS Retirement contribution Employer & Employees	2,041.04	EFTPS
6011	CalPERS (Employee)	Employee Additional Deferred Contribution	525.00	EFTPS
6012	Union Bank	Federal Inc Tax., Employee/Employer Medicare & SS	3,439.56	EFTPS
Services & Supplies (2000)				
7001	Verizon	GPS System Monthly Charge (Sept)	247.00	5588
7001	Yosemite Linen Supply	Employee uniforms & related laundry service	336.70	5589
7001	Praxair	Dry Ice - Surveillance	144.08	5590
7021	Safety - Kleen	Wash Rack Clean-Out	688.91	5591
7021	C. P. Phelps	Fuel For Vehicles	322.38	5592
7021	Lowe's	Paint & Supplies	110.59	5593
7024	Morris Levin & Son	Paint / Remodel	111.67	5594
John Avila - Revolving Fund				
7009		WalMart - Kitchen Supplies	22.57	264.26 5595
7009		WalMart- Cleaning Supplies	16.87	
7009		WalMart- Board Meeting	14.54	
7036		USPS - Postage Stamps	50.00	
7036		Costco - Pictures for Fair	9.78	
7036		WalMart - Fair Supplies	26.79	
7036		Costco - Office Supplies	49.89	
7036		WalMart - Office Supplies	6.47	
7066		Quiznos - Lunch - OSHA Seminar	13.38	
7066		Donut Village- CEU Webinar Day	8.00	
7066		Little Ceasars Pizza - CEU Webinar Lunch	19.04	
7066		Donut Factory - Safety Meeting	12.99	
7066		In & Out -Lunch - CalPers Conf.	7.94	
7066		Tulare Donuts - Safety Meeting	6.00	
Union Bank Charges & Credits			214.34	Auto Pay
7081		SC Edison	140.79	
7081		SoCal Gas	18.55	
7036		Union Bank - Positive Pay and monthly maintenance fees -	55.00	

---



---

**32,142.53**

TULARE MOSQUITO ABATEMENT DISTRICT  
 FY 18/19 Budget

November 30, 2018

	Appropriations	Expenditures	FY17/18 Expenditures	Remaining
<b>Salaries &amp; Employees Benefits ( 1000 )</b>				
6001 Regular Salaries *	367,940.00	148,405.90	139,185.50	219,534.10
6004 Benefits				-
Health Insurance	177,698.00	66,741.95	68,541.67	110,956.05
EDD Unemployment insurance 6.2% X 7,000 of employees pay	5,099.00	437.82	1,709.61	4,661.18
EDD Disability Insurance 1% X of employees salary	5,486.00	2,107.38	811.90	3,378.62
EDD Employment Training Tax rate 0%	-	-	-	-
Life Insurance	1,260.00	504.95	1,082.65	755.05
6005 Extra Help	120,544.00	62,331.69	60,917.62	58,212.31
6008 Directors Fees	7,200.00	2,500.00	2,200.00	4,700.00
6011 Retirement PERS				-
Classic members 7.2% X Gross Salary	26,656.00	17,541.70	20,731.74	9,114.30
New Public Employee Pension Reform Act (PEPRA) members ( 6.533% X Gross Pay )	-	-	-	-
6012 Social Security ( 7.65% of employee pay )	37,788.00	16,121.40	5,508.88	21,666.60
6015 Workers' Compensation Insurance	23,100.00	-	368.39	23,100.00
	<u>772,771.00</u>	<u>316,692.79</u>	<u>301,057.96</u>	<u>456,078.21</u>
<b>Services &amp; Supplies ( 2000 )</b>				
7001 Agriculture	494,276.00	83,324.21	92,859.88	410,951.79
7005 Telecommunications	2,502.00	607.12	530.99	1,894.88
7009 Household Expense	5,292.00	625.68	568.60	4,666.32
7010 Insurance	33,000.00	5,308.49	-	27,691.51
7021 Maintenance of Equipment	107,000.00	27,269.82	21,783.76	79,730.18
7024 Maintenance - Bldg & Improvements	17,055.00	5,985.55	582.66	11,069.45
7027 Memberships	14,198.00	9,790.00	13,200.17	4,408.00
7036 Office Expense	8,412.00	3,662.27	3,643.02	4,749.73
7043 Professional & Special Expense	11,359.00	6,250.00	7,180.00	5,109.00
7059 Publications and Legal Notices	296.00	-	-	296.00
7061 Rents & Leases - Equipment	262.00	-	-	262.00
7062 Rent & Leases - Bldg & Improvements	12,216.00	3,870.00	3,870.00	8,346.00
7065 Small Tools & Instruments	2,297.00	-	-	2,297.00
7066 District Special Expense	15,682.00	17,709.37	5,440.75	(2,027.37)
7074 Transportation & Travel	7,593.00	828.06	228.98	6,764.94
7081 Utilities	5,284.00	1,914.29	1,801.07	3,369.71
	<u>736,724.00</u>	<u>167,144.86</u>	<u>151,689.88</u>	<u>569,579.14</u>
<b>Other Charges ( 3000 )</b>				
7407 Contributions to other Agencies	2,500.00	-	-	2,500.00
7425 Taxes & Assessments	38,000.00	-	-	38,000.00
	<u>40,500.00</u>	<u>-</u>	<u>-</u>	<u>40,500.00</u>
<b>Fixed Assets ( 8000-8300 )</b>				
Purchase of Surveillance Vehicle	25,000.00	25,157.54	47,061.87	
	<u>25,000.00</u>	<u>25,157.54</u>	<u>47,061.87</u>	<u>(157.54)</u>
Working Budget	1,574,995.00	508,995.19	499,809.71	1,065,999.81
* Appropriation for Contingencies	236,249.00			236,249.00
Total Appropriations	<u>1,811,244.00</u>	<u>508,995.19</u>	<u>499,809.71</u>	<u>1,302,248.81</u>
** General Reserves	5,384,500.00			5,384,500.00
Reserve for Asphalt Removal & Replacement	125,000.00			125,000.00
Reserve for Emergency Invasive Aedes outbreak	250,000.00			250,000.00
Reserve for Replacement of Vehicles/Tablets	215,000.00			215,000.00
Total Budget	<u>7,785,744.00</u>			<u>7,785,744.00</u>
Tulare County Account # 778 Balance	5,097,758.27			
Union Bank Account # 2740034408 Balance	<u>137,999.34</u>			
TMAD Current cash balance	<u>5,235,757.61</u>			

\* 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.

## YEAR-END CHEMICAL REPORTED USAGE

2018	AGNIQUE	ALTOSID A.L.L.	ALTOSID WSP	AQUA DUJET	DUET	AQUABAC POWDER	BIOMIST 4+12	BTI TEKNAR	CO-BEAR OIL	DELTA GARD	KONTROL OIL	NATULAR 2EC	NATULAR G	NATULAR G30	NATULAR XRT	One Guard	PYRONYL 525	SUSPEND SC	VECTOBAC GS
FEB																			
MAR	0.119	0.008	15.015					0.257	45.750										
APR	0.279		33.210				69.030	196.915	113.590				40.000		165.352			0.005	155.000
MAY	0.314		0.540				447.531	261.858	3.360				80.000		190.872			0.043	
JUN	0.366		0.450	3.906			476.738	171.151				0.027	90.000	120.000	1.056		1.093	0.031	
JUL	0.257		0.195	1.210			0.117	556.713	245.660	1.117		0.015	200.000	80.000	0.176		0.290	0.136	
AUG	0.157		1.395	8.035		1.785	0.345	575.915	313.005					80.000			1.000	0.355	
SEP	0.103		1.410	3.500	0.656	6.248	0.007	418.007	305.220	16.828				40.000	0.088			0.289	
OCT	0.125		0.315		1.171	0.596	0.235	302.815	106.175	0.312	6.500					0.133		0.074	
NOV	0.009		0.06				0.227	25.527	5.29	0.25		0.068				0.109		0.016	
DEC																			
<b>TOTALS:</b>	<b>1.729</b>	<b>0.008</b>	<b>52.590</b>	<b>16.651</b>	<b>1.827</b>	<b>8.629</b>	<b>0.931</b>	<b>2872.533</b>	<b>1651.024</b>	<b>18.507</b>	<b>123.450</b>	<b>0.110</b>	<b>410.000</b>	<b>320.000</b>	<b>357.544</b>	<b>0.242</b>	<b>2.383</b>	<b>0.949</b>	<b>155.000</b>

## ACRES TREATED VS PAST 10 YEARS

	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
<b>GROUND</b>	<b>18,326</b>	<b>29,352</b>	<b>18,938</b>	<b>23,416</b>	<b>20,449</b>	<b>22,934</b>	<b>13,215</b>	<b>12,257</b>	<b>11,751</b>	<b>18,784</b>	<b>17,794</b>
<b>AIR</b>	<b>200</b>	<b>1,163</b>	<b>4,400</b>	<b>6,239</b>	<b>8,651</b>	<b>6,232</b>	<b>4,807</b>	<b>6,089</b>	<b>6,101</b>	<b>12,514</b>	<b>11,766</b>
<b>TOTALS</b>	<b>18,526</b>	<b>30,516</b>	<b>23,338</b>	<b>29,655</b>	<b>29,100</b>	<b>29,166</b>	<b>18,022</b>	<b>18,346</b>	<b>17,852</b>	<b>31,298</b>	<b>29,560</b>

## YEAR-END CHEMICAL REPORTED USAGE

2017	AGNIQUE	ALTOSID A.L.L.	ALTOSID WSP	AQUA DUET	BIOMIST 4+12	BTI TEKNAR	COCOBEAR OIL	EVERGREEN EC	KONTROL OIL	NATULAR 2EC	NATULAR XRT	PYRONYL 525	SUSPEND SC	VECTOBAC GS
FEB														
MAR	0.134	4.687	46.898		0.003	48.898	127.451							
APR	0.662		59.382		0.001	176.935	140.641			0.095				
MAY	0.971	0.085	47.810	0.390	0.001	503.779	405.511		1.500	0.095	70.488			
JUN	0.774	1.000	47.801	3.083	0.047	616.335	366.826			0.059	0.792	0.900		
JUL	0.576		47.847	1.500		501.557	232.475				0.176			3.000
AUG	0.539	0.037	47.863	4.235		634.296	344.631	0.070		0.023	0.264	3.780	0.070	
SEP	0.346	0.036	63.248	27.715	0.019	599.877	653.422		2.500		0.132	15.737	0.292	33.000
OCT	0.337		32.678	6.015	0.025	447.129	759.807			0.015			0.172	
NOV	0.011		0.061			4.851	40.900							
DEC					0.005								0.007	
TOTAL	4.350	5.845	393.588	42.938	0.101	3533.657	3030.764	0.070	4.000	0.287	71.852	20.417	0.541	36.000

## ACRES TREATED VS PAST 10 YEARS

	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007
GROUND	29,352	18,938	23,416	20,449	22,934	13,215	12,257	11,751	18,784	17,794	20,042
AIR	1,163	4,400	6,239	8,651	6,232	4,807	6,089	6,101	12,514	11,766	19,268
TOTALS	30,516	23,338	29,655	29,100	29,166	18,022	18,346	17,852	31,298	29,560	39,310



# YEAR-END CHEMICAL REPORTED USAGE

2016	AGNIQUE	ALTOSID A.L.L.	ANVIL 10+10	AQUA DUET	AQUA ANVIL-JULV	BIOMIST 4+12	BTI Teknar SC	COCOBEAR Oil	NATULAR 2 EC	PYRENONE CropSpray	PYRENONE 525	VECTOBAC GS	VECTOLEX WSP
FEB	0.130												
MAR	0.481						5.033	171.686					62.040
APR	0.744	1.641		0.852			146.669	137.100					84.150
MAY	0.476			0.015		0.055	324.434	525.441					83.600
JUN	0.745					0.023	522.409	321.974					84.110
JUL	0.393	0.016	4.117	10.439	2.312	0.047	540.577	369.368			1.735	26.119	101.660
AUG	0.371	0.086	4.666	7.318	0.681	0.141	581.492	278.861	0.055	2.000	1.680		84.190
SEP	0.706	0.203	1.550	0.438	2.691		550.983	254.615	0.047		0.218		105.160
OCT	0.147			0.781		0.057	347.498	214.530			1.163	6.900	45.320
NOV				0.426		0.070	7.328	40.000					
<b>TOTALS</b>	<b>4.193</b>	<b>1.946</b>	<b>10.333</b>	<b>20.269</b>	<b>5.684</b>	<b>0.393</b>	<b>3026.423</b>	<b>2313.575</b>	<b>0.102</b>	<b>2.000</b>	<b>4.796</b>	<b>33.019</b>	<b>650.230</b>

## ACRES TREATED VS PAST 9 YEARS

	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007
<b>GROUND</b>	<b>18,938</b>	<b>23,416</b>	<b>20,449</b>	<b>22,934</b>	<b>13,215</b>	<b>12,257</b>	<b>11,751</b>	<b>18,784</b>	<b>17,794</b>	<b>20,042</b>
<b>AIR</b>	<b>4,400</b>	<b>6,239</b>	<b>8,651</b>	<b>6,232</b>	<b>4,807</b>	<b>6,089</b>	<b>6,101</b>	<b>12,514</b>	<b>11,766</b>	<b>19,268</b>
<b>TOTALS</b>	<b>23,338</b>	<b>29,655</b>	<b>29,100</b>	<b>29,166</b>	<b>18,022</b>	<b>18,346</b>	<b>17,852</b>	<b>31,298</b>	<b>29,560</b>	<b>39,310</b>



## Weekly Update

### Humans

#### West Nile virus

A total of 7 human cases of West Nile virus (WNV) illness were reported this week from 3 counties: Fresno (5), Kern (1), and Tulare (1). In 2018, a total of 189 human WNV cases have been reported from 31 counties. Of the 189 case patients, 133 (70%) had neuroinvasive illness and 8 (4.4%) fatalities have been reported. The median age of the individuals is 60 years (range: 1–91 years) and 121 (64%) are male. Dates of symptom onset ranged from May 6 – October 28. In addition to the 182 cases, 21 asymptomatic infections have been reported from Butte (5), Contra Costa (2), Fresno (1), Los Angeles (4), Orange (2), Riverside (1), Sacramento (1), San Joaquin (1), Stanislaus (3), and Yolo (1) counties. At this time last year, 489 human WNV cases had been reported from 26 counties.

#### St. Louis encephalitis virus

No new cases were reported this week. In 2018, one human case of St. Louis encephalitis virus (SLEV) disease has been reported from Los Angeles County. At this time last year, one human SLEV case had been reported from one county.

### Dead Birds

One WNV positive dead bird was reported from Santa Clara County this week. In 2018, a total of 498 WNV positive dead birds have been reported from 21 counties. At this time last year, 505 WNV positive dead birds had been reported from 39 counties.

### Mosquito Pools

#### West Nile virus

A total of 3 WNV positive mosquito pools were reported this week from Los Angeles County. In 2018, 1,963 mosquito pools have tested positive for WNV from 29 counties. At this time last year, 3,370 WNV positive mosquito pools had been reported from 26 counties.

#### St. Louis encephalitis virus

No SLEV positive mosquito pools were reported this week. In 2018, 387 SLEV positive mosquito pools have been reported from 8 counties: Fresno (56), Imperial (3), Kern (65), Kings (30), Los Angeles (1), Madera (14), Riverside (56), and Tulare (162). At this time last year, 179 SLEV positive mosquito pools had been reported from 14 counties.

### Sentinel Chickens

#### West Nile virus

A total of 2 WNV seroconversions were reported this week from Los Angeles County. In 2018, 163 WNV positive chickens have been reported from 16 counties. At this time last year, 305 WNV positive chickens had been reported from 18 counties.

#### St. Louis encephalitis virus

No SLEV seroconversions were reported this week. In 2018, one sentinel chicken has tested positive for SLEV from Merced County. At this time last year, 9 SLEV positive chickens had been reported from 3 counties.

**California Arbovirus Surveillance Bulletin #34**  
 Week 48 Friday, November 30, 2018

2017 & 2018 YTD West Nile Virus Comparisons		
	2017	2018
Total # Dead Bird Reports	7,545	7,980
# Positive Counties	47	41
# Human Cases	489	189
# Positive Dead Birds / # Tested	505 / 2,000	498 / 2,139
# Positive Mosquito Pools / # Tested	3,370 / 44,316	1,963 / 42,021
# Seroconversions / # Tested	305 / 11,029	163 / 10,162

YTD WNV Activity by Element and County, 2018					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			20	15	
Alameda	1				
Butte	10		4	48	37
Butte					8
Contra Costa	3		13	17	16
El Dorado			2		
Fresno	10			119	
Glenn	2			4	
Humboldt	1		1		
Imperial				1	
Kern	9	1	1	48	
Kings				22	
Lake	1			4	1
Los Angeles	42		19	75	20
Madera	3			55	
Merced	2	2		12	16
Monterey	1				
Napa	1				
Nevada	1				
Orange	9		15	98	
Placer	9	1	44	230	4
Riverside	14		1	23	
Sacramento	8	3	241	300	5
San Bernardino					1
San Bernardino	6			12	
San Diego	1		1	3	
San Joaquin	13	1	16	533	
San Mateo			5	2	
Santa Clara	1		56	5	8
Santa Cruz			2		
Shasta	1	1	5	8	4
Solano				3	7
Sonoma				1	
Stanislaus	15	1	1	111	
Sutter	1		4	28	20
Tehama	1				1
Tulare	8			77	
Tuolumne	1		1		
Ventura	2				
Yolo	10		41	90	5
Yuba	2			8	2
<b>Totals</b>	<b>189</b>	<b>11</b>	<b>498</b>	<b>1,963</b>	<b>163</b>

## Surveillance Trapping 2018

MONTH	# TRAPS	POOLS SUBMITTED	WNV + POOLS	SLEV+ POOLS	LOCATIONS OF POSITIVE POOLS
APRIL	120				
MAY	513				
JUN	786	68	2	6	Plainview (2), South Visalia (5), Tulare (1)
JUL	825	49	3	11	South Visalia (5), Tulare (3)(6)
AUG	823	28	1	7	Tulare (1)(7)
SEP	327				
OCT	125				
NOV	106				
DEC	25				
<b>Totals</b>	<b>3650</b>	<b>145</b>	<b>6</b>	<b>24</b>	

### TRAPS

	Gravid	CO2	BG	Ovi	Total Traps	Y.T.D.
April	87	3	20	10	120	120
May	428	31	24	30	513	633
June	490	65	21	210	786	1419
July	527	24	24	250	825	2244
August	477	23	23	300	823	3067
September	63	26	28	210	327	3394
October	42		23	60	125	3519
November	24		22	60	106	3625
December			5	20	25	3650
	<b>2138</b>	<b>172</b>	<b>190</b>	<b>1150</b>	<b>3650</b>	

### VIRUS

	WNV +	Human WNV+	SLEV+	Zika +	Denge +
April					
May					
June	2		6		
July	3		11		
August	1	1	7		
September					
October					
November					
December					
	<b>6</b>	<b>1</b>	<b>24</b>	<b>0</b>	<b>0</b>

## 2018 WNV +

	Date Collected	Pool #	T R S	Address	City	Species Collected	# in Pool	CT Value
1	6/29	52	20-26-34	19546 Alder Rd	Plainview	Cx. quinquefasciatus	50	
2	6/29	55	20-26-35	19269 Rd 204	Plainview	Cx. quinquefasciatus	50	2
3	7/31	104	20-24-09	211 Yellowstone	Tulare	Cx. quinquefasciatus	50	
4	7/31	112	20-24-01	1933 Harvard Ave	Tulare	Cx. quinquefasciatus	39	
5	7/31	116	20-25-18	1296 Nelder Grove	Tulare	Cx. quinquefasciatus	40	3
6	8/16	132	20-24-02	627 N Dickran Dr	Tulare	Cx. quinquefasciatus	38	1
								<b>6</b>

## 2018 SLEV +

1	6/20	15	20-24-07	553 N Highland	Tulare	Cx. quinquefasciatus	50	
2	6/26	31	19-24-07	631 W. Loyola	Visalia	Cx. quinquefasciatus	50	
3	6/26	32	19-24-07	834 W James	Visalia	Cx. quinquefasciatus	50	
4	6/26	33	19-24-07	917 W. Belmont	Visalia	Cx. quinquefasciatus	50	
5	6/26	38	19-24-08	4150 S Garden	Visalia	Cx. quinquefasciatus	50	
6	6/26	40	19-24-08	4146 S Locust	Visalia	Cx. quinquefasciatus	50	6
7	7/5	76	20-24-12	1512 Sequoia Ave	Tulare	Cx. quinquefasciatus	50	
8	7/18	81	20-24-13	1830 Cabrillo	Tulare	Cx. quinquefasciatus	50	
9	7/18	85	20-24-07	553 N Highland	Tulare	Cx. quinquefasciatus	50	
10	7/18	88	19-25-07	953 W Reese	Visalia	Cx. quinquefasciatus	50	
11	7/18	90	19-25-08	3943 S Watson	Visalia	Cx. quinquefasciatus	50	
12	7/18	92	20-24-01	1135 Jamestown St	Tulare	Cx. quinquefasciatus	50	
13	7/18	98	19-24-36	2163 Lacovetti Ave	Tulare	Cx. quinquefasciatus	50	
14	7/18	99	19-25-07	729 W Russle Ave	Visalia	Cx. quinquefasciatus	50	
15	7/18	100	19-25-08	3933 S Encina St	Visalia	Cx. quinquefasciatus	50	
16	7/18	101	19-24-12	Westlake Village(Midvalley)	Visalia	Cx. quinquefasciatus	50	
17	7/31	110	19-24-36	1573 Moteus Ct	Tulare	Cx. quinquefasciatus	50	11
18	8/3	123	20-24-02	848 N Arbor	Tulare	Cx. quinquefasciatus	38	
19	8/3	126	20-25-18	2585 Tecopa Ave	Tulare	Cx. quinquefasciatus	43	
20	8/8	127	19-24-36	1829 Rothschild	Tulare	Cx. quinquefasciatus	50	
21	8/14	131	20-24-01	299 W Lone St	Tulare	Cx. quinquefasciatus	38	
22	8/14	134	20-24-09	2053 W Somora Ave	Tulare	Cx. quinquefasciatus	50	
23	8/14	135	20-24-10	825 W Elm Ave	Tulare	Cx. quinquefasciatus	50	
24	8/16	141	20-24-01	1597 E Kaweah Ave	Tulare	Cx. quinquefasciatus	27	7
								<b>24</b>

## 2018 Aedes aegypti Detection

Total # Collected

7/13-9/25	20-24-11	Sent to State for	Tulare	Aedes aegypti	48
		Testing			
10/1-11/2	19-24-35	Sento to Anton Cornel	Tulare	Aedes aegypti	33
		for testing			
		Collected	Tulare	Aedes aegypti	2
					<b>81</b>
					<b>83</b>

	WNV+	SLEV+
Tulare	4	14
Visalia		10
Sorounding	2	

## 2018/2017 TRAPPING COMPARISON

<b>TRAPS SET BETWEEN APRIL AND NOVEMBER</b>		<b>2018</b>	<b>2017</b>
CO2 Traps		172	222
Gravid Traps		2138	451
B G Traps		190	244
Ovi Cups		1150	199
<b>Total Traps</b>		<b>3650</b>	<b>1116</b>
POOLS SENT FOR TESTING		145	236
POOLS TESTED WNV+		6	46
LOCATIONS OF WNV+:		6	46
POOLS TESTED SLEV+		24	3
 <b>CALIFORNIA Virus Activity</b>  			
<b>WNV+ Human Cases (deaths)</b>		<b>189 (8)</b>	<b>489 (28)</b>
The median age of individuals		<b>60 (1-92yrs)</b>	<b>61 (4-96yrs)</b>
% are male		<b>64%</b>	<b>65%</b>
 <b>TULARE COUNTY:</b> 			
Human Cases (Includes Tulare MAD & Delta Vector)		<b>8</b>	<b>12</b>
<b>Mosquito Pools</b>	WNV+	<b>1,963</b>	<b>3,370</b>
	SLEV +	<b>387</b>	<b>179</b>
<b>Dead Birds</b>	WNV+	<b>498</b>	<b>505</b>
<b>Sentinel Chickens</b>	WNV+	<b>163</b>	<b>305</b>
	SLEV +	<b>1</b>	<b>9</b>

# Trade-A-Plane

The Aviation Marketplace



N9560P 1974 PA 25-235D Pawnee. This Posture Low Time No Damage History Piper Pawnee is 417 Since a Bare Airframe Ground IP Restoration by Clyde Smith Jr !! Only Water since the Restoration Schweizer Forward Spar STC Installed at Restoration 350 Since a Lycoming Factory Overhaul!! "References available as to condition" \$60K (214) 384-1858  
PhotosSpecs MauleAirTexas.com



N69PE 2011 Radial Rocket TD. Built By One Of The Best 325 TTSN, M-14PF 400 HP Engine, & MT Prop. Garmin GNS 430W, GNS 396, GMA 340, GTX 327, Oil Filter, Oil Scavenge System, Intake Drains, Smoker, Custom Leather Interior. \$195,000. Call Pete. (573) 934-1023. AgAirinc@gmail.com



2012 Air Tractor AT-802 S/N 802-0470, PT6A-67AG S/N PCE-R00264, 5265 HRS TTE&AF. Fresh Ann O G HRS. Since HS. Power Section IRAN. New CT Blades. Outer Liner O/H. Inner Liner O/H. Vane Ring O/H. New Segments. Small Exit Duct O/H. Propeller IRAN 960 HRS. Since FOU and Fuel Pump O/H. Nov 2017 Paint Equip. Wingman Satloc G4 10 Gale w/ Wonderan Controller. LED Nose Lights. Fast Start Single Point Fuel. 308 Fuel. Garmin 796. ELT PMA8008. Audio Panel. Garmin S40. Garmin GTX 330. \$750,000. Contact Aaron Keahey Ag Air Aircraft (670) 857-3744



1981 AT-301B, 350 Gal, 6000 Hours Total Time / 900 Hours Engine. Covington IRAN @ 500 Eng. Tall Tail, New Wings, New Spray System, SATLOC. I'm in Reno. Call Me to meet up for details \$80K. Gavin Morse (509) 220-4338.



Introducing the Workhorse DRAGONFLY RANCHER Aircraft. Designed for Farm and Ranch Work and Personal Crop Dusting/Seeding. We build to suit your style and needs. Save you time and money. It's Extremely Fun to Fly!! www.PitmanAir.com (530) 945-1860. Light Sport Aircraft. No Medical Required



2011 Air Tractor AT 802A 802A-0397 N802KP Engine: PT6A-67AG PCE-R00235, 5200 TTSN AF and Eng. Sep 2018 AHJ, Sep 2018 Paint. New Camcords, 1631 HRS since FOU and Fuel Pump Overhaul, 76 HRS Since Ann. HSJ, New CT Blades, O/H Vane Ring, Inner Liner Repair, Outer Liner Repair, Power Section IRAN, Prop IRAN, Starter Can O/H. Aircraft Equip: Satloc G4 10 Hydraulic Gale w/ Wonderan Controller, Load Hauling Turbine Com, Single Point Fuel, Fast Start, Garmin 796, ELT, Com Radio, Xpdr \$735,000. Contact Aaron Keahey at Ag Air Aircraft (670) 857-3744



1966 Piper 235 Pawnee. 5970 Hours Total Time, 94 Hours Since Overhaul. Last Annual April 2018, Excellent Condition, Always Hangared, Satloc GPS, New Fabric. In 1996, 24V System. Located Tulare, CA. \$70,000 OBO. Call John. (559) 686-6628. 7-3 pm PST

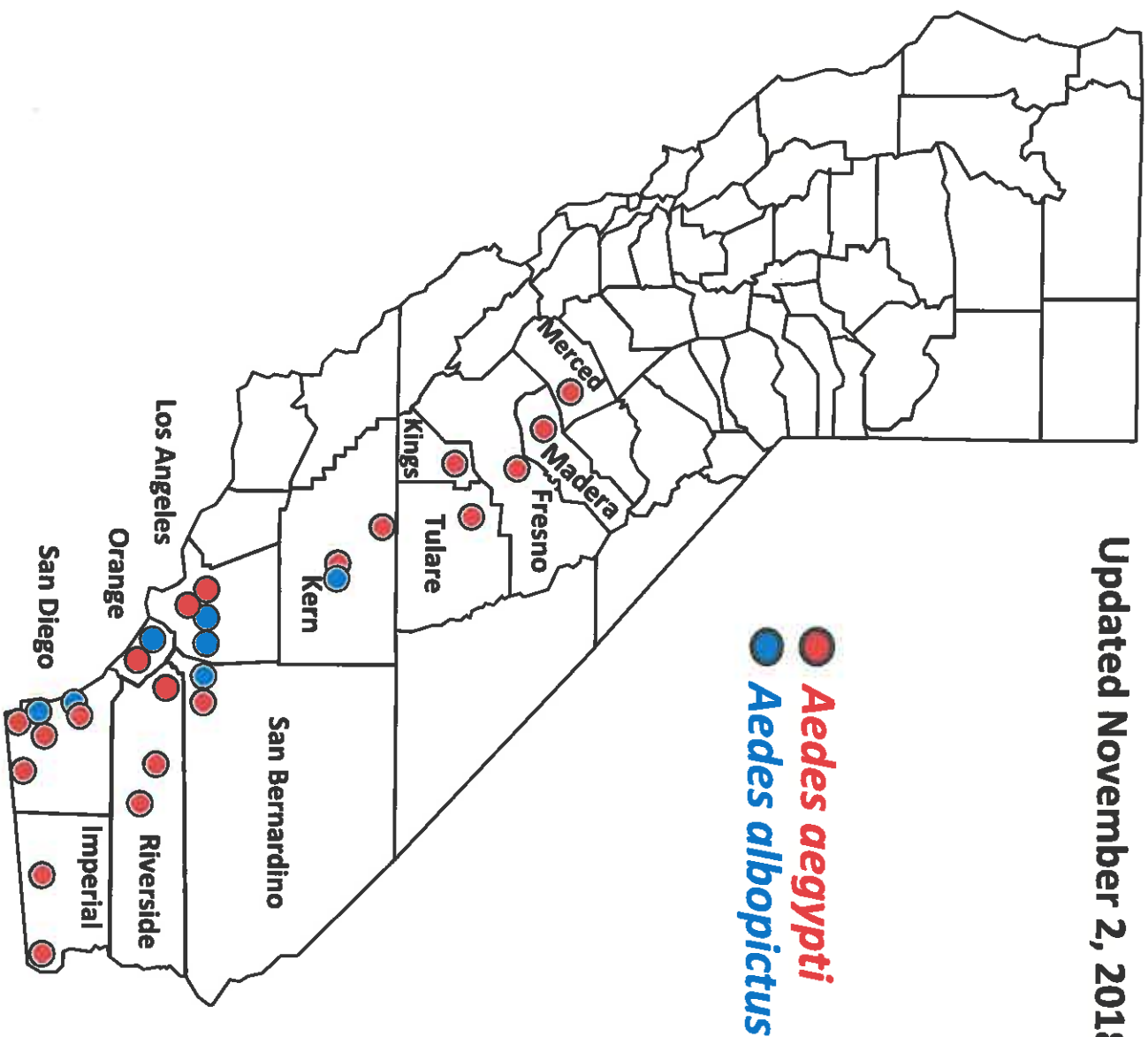


Find many more Ag Aircraft in Trade-A-Plane and on Trade-A-Plane.com!

# *Aedes aegypti* and *Aedes albopictus* Mosquitoes in California

## Detection Sites by County/City

Updated November 2, 2018



### Counties with

***Aedes aegypti* only:**

Fresno, Imperial, Kings,  
Madera, Riverside, Merced,  
Tulare

**Both *Aedes aegypti* and**

***Aedes albopictus*:**

Kern, Los Angeles, Orange,  
San Bernardino, San Diego

See pages 2 and 3 for *Aedes*  
detections by city or  
census-designated place in  
each county.



## ***Aedes aegypti* and *Aedes albopictus***

### **Los Angeles**

Alhambra	Hacienda Heights*	Pomona	Alhambra	La Verne
Altadena*	Hawaiian Gardens	Rosemead	Altadena*	Long Beach
Arcadia	Hermosa Beach <sup>§</sup>	Rowland Heights*	Arcadia	Los Angeles
Artesia	Huntington Park	San Fernando	Avocado Heights*	Monrovia
Avocado Heights*	Inglewood <sup>§</sup>	San Gabriel	Azusa	Montebello
Bell	La	San Marino	Baldwin Park	Monterey Park
Bellflower	Crescenta-Montrose*	Santa Clarita	Bradbury	Pasadena
Bell Gardens	La Habra Heights	Santa Fe Springs	Burbank	Pico Rivera
Beverly Hills	Lakewood	Signal Hill	Charter Oak	Pomona
Burbank	Lancaster <sup>§</sup>	South El Monte	Citrus	Rosemead
Carson	La Mirada	South Gate	City of Industry	San Dimas
Cerritos	La Puente	South Pasadena	Claremont	San Gabriel
Claremont	Lomita <sup>§</sup>	South San Gabriel*	Covina	San Marino
Commerce	Long Beach	South San Jose Hills*	Duarte	Santa Fe Springs
Compton <sup>§</sup>	Los Angeles	South Whittier*	East Pasadena*	Sierra Madre
Cudahy	Lynwood	Temple City	East San Gabriel*	South El Monte
Culver City	Maywood	Torrance <sup>§</sup>	El Monte	South Pasadena
Diamond Bar	Monrovia	Westmont** <sup>§</sup>	Glendale	South San Gabriel*
Downey	Montebello	West Hollywood	Glendora	South Whittier*
East Los Angeles*	Monterey Park	West Puente Valley	Hacienda Heights*	Temple City
East San Gabriel*	Norwalk	Whittier	Irwindale	Valinda
El Monte	Paramount	Willowbrook*	La Cañada Flintridge	Vincent
Florence-Graham*	Pasadena		La Habra Heights	Walnut
Glendale	Pico Rivera		La Mirada	West Covina
			La Puente	Whittier

<sup>§</sup> New detection within the previous four weeks

\*Unincorporated Census-Designated Places

***Aedes aegypti* and *Aedes albopictus***

<b>Fresno</b>	<b>Imperial</b>	<b>Kings</b>	<b>Orange</b>	<b>Orange (continued)</b>
Clovis	Andrade*	Corcoran	Anaheim	Tustin
Caruthers**§	Brawley	Hanford	Brea	Villa Park
Del Rey**§	Calipatria	Lemoore	Buena Park	Yorba Linda
Easton*	Calexico		Costa Mesa	
Firebaugh	El Centro	<b>Madera</b>	Cypress	Anaheim
Fowler	Heber*	Chowchilla	Fountain Valley	Buena Park
Fresno	Holtville	La Vina*	Fullerton	Garden Grove
Friant**§	Imperial	Madera	Garden Grove	Huntington Beach
Kerman	Seeley*	Madera	Irvine	La Habra
Kingsburg	Westmorland	Madera Acres*	La Habra	Los Alamitos
Laton*	Winterhaven*	Madera Ranchos*	La Palma	Mission Viejo
Mendota		Parksdale*	Lake Forest	Newport Beach
Orange Cove§		Parkwood*	Mission Viejo	Orange
Parlier	<b>Kern</b>	Rolling Hills*	Newport Beach	Santa Ana
Raisin City**§	Arvin		North Tustin*	
Reedley	Bakersfield	<b>Merced</b>	Orange	
Riverdale**§	Buttonwillow	Los Banos	Placentia	
Sanger	Delano	Merced	San Clemente	
Selma	McFarland		San Juan Capistrano	
Tranquillity*	Arvin		Santa Ana	
			Seal Beach	
			Stanton	

§ New detection within the previous four weeks

\* Unincorporated Census-Designated Places 3

***Aedes aegypti* and *Aedes albopictus***

<b>Riverside</b>	<b>San Bernardino</b>	<b>San Diego</b>	<b>Tulare</b>
Cathedral City	Bloomington*	Bonita*	Dinuba
Coachella	Chino	Bostonia*	Exeter
Corona	Chino Hills	Casa De Oro-Mount Helix*	Farmersville
East Hemet*	Colton	Chula Vista	Goshen**§
Eastvale	Fontana	Coronado	Ivanhoe**§
Hemet	Grand Terrace	El Cajon	Orosi*
Indian Wells	Highland	Escondido	Sultana**§
Indio	Loma Linda	Imperial Beach	Tulare
La Quinta	Mentone**§	Lakeside*	Visalia
Mecca*	Montclair	La Mesa	Woodlake§
Moreno Valley	Ontario	La Presa*	
Norco	Rancho Cucamonga§	Lemon Grove	
Palm Desert	Redlands	National City	
Palm Springs	Rialto	Oceanside	
Perris	San Bernardino	Poway	
Rancho Mirage	Yucaipa	Rancho San Diego*	
Riverside	<b>Upland</b>	San Diego	
San Jacinto	<b>Montclair</b>	Santee	
Valle Vista*		Spring Valley*	
		Tecate*	
		Vista	
		Winter Gardens*	
		Carlsbad	
		San Diego	

§ New detection within the previous four weeks  
 \*Unincorporated Census-Designated Places