

BOARD OF TRUSTEES

Charlie Pitigliano
County of Tulare

Robert Uchita
County of Tulare

Stan Creelman
County of Tulare

Tony Nunes
County of Tulare

Craig Smith
City of Tulare

Charles Mayer
City of Visalia

TULARE MOSQUITO ABATEMENT DISTRICT

District Headquarters: Mefford Field - Tulare
6575 Dale Fry Rd • Tulare, CA 93274

(559) 686-6628

TulareMosquito@gmail.com

www.tularemosquito.com

GENERAL MANAGER

Michelle Dempsey

OPERATIONS DIRECTOR

Jacob Davis



The Tulare Mosquito Abatement District Board of Trustees Meeting will be held on Tuesday, September 10, 2024 at 1:00 p.m. at the District office located at Mefford Field 6575 Dale Fry Rd, Tulare, CA

AGENDA

1. Citizen Comments: At this time the Board of Trustees will take input from citizens on items they wish to address that are within the Board's jurisdiction. However, the Board cannot legally discuss or take action at this meeting on comments received.
2. Review Minutes of the August 13, 2024 Board of Trustee Meeting
3. Payment of Check Numbers **7595 - 7626**
Payment of Direct Deposit Numbers **DD 1770 - DD 1783**
Electronic Fund Transfers (EFTPS) from US Bank to the IRS and EDD for Social Security, Medicare, Federal and State Tax Payments. E Debit payments from the District's US Bank account. Claim number **21965** Transfer of Funds from Tulare County Fund #778 to the District's US Bank Account # *****4633.
4. FY 23/24 Audit Update
5. Discussion, Decision and Potential Action to Consider a Compensation for District Employees
6. Manager's Report
 - a. District Activity to Date
 - b. CA Arbovirus Bulletin
 - c. Chemical Cost Comparison
7. Meeting Adjourned

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 13th DAY OF AUGUST 2024, AT THE HOUR OF 1:00 P.M. OF SAID DAY

Present at the meeting called at 1:02 p.m. at the place above designated were: Charlie Pitigliano, presiding, Tony Nunes, Craig Smith, Chuck Mayer, and Stan Creelman. Robert Uchita was absent. Also present at the Board Meeting were Michelle Dempsey, General Manager, Jacob Davis, 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 the July 9, 2024 Board of Trustees Meeting.

The minutes of the board meeting held on July 9, 2024, were presented to the board in writing and reviewed. Upon a motion made by Charles Mayer, seconded by, Craig Smith, and unanimously carried, the minutes of the board meeting held on July 9, 2024, were approved as presented.

Agenda Item No. 3: Payment of Check Number 7559 - 7594, Payment of Direct Deposit Numbers DD 1756 - DD 1769; Electronic Fund Transfers (EFTPS) from US Bank to the IRS for Social Security, Medicare and Federal Tax Payments, US Bank Charges and Credits, and Claim Number 21964, Transfers of Funds form Tulare County Fund #778 to the District's US Bank Account #***4633.**

The board members reviewed the District's US Bank checking account, check numbers 7559 - 7594, payment of direct deposit numbers DD 1756 - DD 1769, the electronic fund transfers (EFTPS) for payment of Social Security, Medicare and Federal Tax Payments to the IRS, the electronic debit payments from the District's US Bank account, and claim number 21964 in the sum of \$237,655.23, which was a transfer from the District's Tulare County Fund #778 to the District's US Bank account number ending in 4633. Upon a motion duly made by Stan Creelman, seconded by Charles Mayer, and unanimously carried, the US Bank checking account, check numbers 7559 - 7594, payment of direct deposit numbers DD 1756 - DD 1769, the electronic fund transfers (EFTPS) for payment of Social Security, Medicare and Federal Tax Payments to the IRS, the electronic debit payments from the District's US Bank checking account, and the transfer from the District's Tulare County Fund #778 to the District's Union Bank account number ending in 4663, by claim number 21964 in the sum of \$237,655.23, were approved.

Agenda Item No. 4: Discussion, Decision and Potential Action to Approve Adair & Evans for FY 23/24 Audit.

Michelle advised that the District received a proposal from Adair & Evans to conduct the District's audit for fiscal year 2023/2024, at a cost not to exceed \$13,500.00. Upon a motion by Tony Nunes, seconded by Craig Smith, and unanimously carried, the board approved the Adair & Evans engagement letter for fiscal year 2023/2024, as presented and authorized the general manager to execute the engagement letter.

Agenda Item #3

Expenses	8/15/2024	Expenses
Union		
Check #'s		
EFTPS		
E Debits		
	Full Time Employees	
DD1770	Michelle Dempsey	5,175.24 6001
DD1771	Jacob Davis	3,686.88 6001
DD1772	Jorge Lopez	2,595.73 6001
DD1773	Ryan Stallings	2,749.94 6001
DD1774	Quirino Valencia	2,495.60 6001
DD1775	Victor Zamora	2,611.96 6001
DD1776	Josephina Ortiz	2,009.92 6001
	Seasonal Employees	
7595	John Coleman	1,831.81 6005
7596	Brenden Leos	1,476.13 6005
7597	Justin Manning	2,400.46 6005
7598	Matthew Minter	1,738.23 6005
7599	Rene Rodriguez	1,810.80 6005
7600	David Servi	1,900.40 6005
7601	Quirino Valencia III	1,807.36 6005
EFTPS	CA Emp Dev Dept	1,641.82 6004
7602	Charlie Pitigliano	100.00 6008
7603	Stan Creelman	100.00 6008
7604	Charles Mayer	100.00 6008
7605	Craig Smith	100.00 6008
7606	Tony Nunes III	100.00 6008
EFTPS	CalPERS (Employee)	Employee 457 Loan Re-Payment (Q. Valencia) 187.64 6011
EFTPS	CalPERS (Employee)	Employee Additional 457 Roth 625.00 6011
EFTPS	CalPERS (Employee)	Employee Additional deferred contribution 575.00 6011
EFTPS	CalPERS (Retirement)	PERS Retirement contribution Employer & Employees 4,856.09 6011
EFTPS	IRS	Federal Inc Tax. Employee/Employer Medicare & SS 10,156.84 6012
7607	Adapco	Vectobac 12AS 264 gal Tote #4 9,630.79 7002
7608	G.V. Burrows	Motor Oil x6 gallons 147.96 7021
7609	G.V. Burrows	Vehicle Fuel 3,331.58 7022
7610	McCormick, Kabot & Lew	Board Meeting 8/13/2024 300.00 7043
7611	City of Tulare	Land Rent 774.00 7062
7612	Josie Ortiz	Per Diem CalPERS Conference 185.00 7074
E Debit	US Bank Charges	28.00 7036
		67,230.16

Expenses 8/31/2024

Union
Check #'s

6000 Transfer Funds from Salaries and Benefits FY 2024/25 Budget
7000 Transfer Funds from Service and Supplies FY 2024/25 Budget

\$129,307.32
\$35,011.43

Expenses

EFTPS
E Debits

\$164,318.75

Full Time Employees

DD1777	Michelle Dempsey		5,175.24	6001
DD1778	Jacob Davis		3,686.89	6001
DD1779	Jorge Lopez		2,595.73	6001
DD1780	Ryan Stallings		2,358.41	6001
DD1781	Quirino Valencia		2,495.59	6001
DD1782	Victor Zamora		2,611.96	6001
DD1783	Josephina Ortiz		2,017.37	6001

Seasonal Employees

7613	John Coleman		1,831.80	6005
7614	Brenden Leos		1,476.12	6005
7615	Justin Manning		2,400.44	6005
7616	Matthew Minter		1,738.22	6005
7617	Rene Rodriguez		1,810.81	6005
7618	David Servi		1,900.40	6005
7619	Quirino Valencia III		1,932.75	6005

EFTPS	CA Emp Dev Dept	UI, ETT, SDI & PIT	1,755.70	6004
EFTPS	CalPERS (Health)	Monthly Health Premium	22,388.26	6004
7620	Principal Insurance Co.	Monthly Premium Dental, Vision, Life	1,187.45	6004
7621	Assurity Life Insurance Co.	Employee Additional Health	179.34	6004
7622	AFLAC (Employee)	Employee Additional Health	37.60	6004
EFTPS	CalPERS (Employee)	Employee 457 Loan Payment	187.64	6011
EFTPS	CalPERS (Employee)	Employee Additional 457 Roth	750.00	6011
EFTPS	CalPERS (Employee)	Employee Additional Deferred Contribution	575.00	6011
EFTPS	CalPERS (Retirement)	PERS Retirement Contribution Employer & Employees	4,881.52	6011
EFTPS	IRS	Federal Inc Tax Employee/Employer Medicare & SS	10,500.20	6012

Service & Supplies

7623	GV Burrows	Fuel	2,675.09	7022
EFTPS	CalPERS	GASB 68 Annual Report (Classic & PEPRA)	700.00	7043
7624	McCormick, Kabot & Lew	Invoice from 5/25/24	1,025.00	7043
		Phone Conf w/ Charlie, Craig and Tiffany re Hangar Lease;		
		Research Standard Commercial Rent Rates	325.00	
		Phone Conf w/ Michelle re Lease and Agenda: Email from Michelle	175.00	
		Phone Conf w/ Tiffany;Emails to Michelle re Closed Session Agenda Item;Review Proposed Agenda	175.00	
		Emails to and from Josie and Michelle	25.00	
		Phone Conf w/ Michelle re Airport Lease Extension	25.00	
		Emails to and from Michelle and Craig re Revised Extension of Lease	25.00	
		Emails to and from Tiffany re Lease Extension	25.00	
		Emails to Tiffany;Revise Extension of Airport Lease Agreement	250.00	
7625	Jacob Davis	Per Diem CSDA Conference	310.50	7074
E Debit	US Bank Charges		1,002.47	
		Socal Edison	888.61	7081
		Socal Gas	18.91	7081
		Direct Deosit Fee	28.00	7036
		Bank Service Charge	66.95	7036

U.S.Bank Charges & Credits 08/18/2024 Statement

14,901.07

Amazon	Fish Food		
Lowe's	Insecticides/Mouse Traps	20.95	7001
Amazon	3D Printer Filament Rolls x4	25.92	7001
Amazon	Cups for Field Testing	60.56	7001
Apple	UASidekick Annual Subscription (Drone)	7.31	7001
Morris Levin & Son	Drone Trailer/6 Outlet Surge Protector	59.99	7001.
Smart and Final	Dry Ice for CO2 Traps	55.18	7001.
Tractor Supply	Chicken Feed	84.12	7001.
Land's End	Employee Uniforms	99.43	7001.
YOSEMITE LINEN	Employee Uniforms/Laundry	120.15	7004
VERIZON	Office and Field Phones	1,204.55	7004
TMOBILE	iPads and Phones-July & August Statements	424.49	7005
CARMINE	Monthly Tier for GPS	417.32	7005
DIGITAL SPACE	Monthly Faxline	339.83	7005
CULLIGAN	Bottled Water	11.00	7005
Target	Household Supplies	96.25	7009
Costco	Household Supplies	44.10	7009
Morgan & Slaters Inc.	Aluminum for Skid/Truck #3/Metal for Boom/Truck #3	204.90	7009
Amazon	Cabin Air Filters x5	524.54	7021
Morris Levin & Son	Hardware Truck #3 Skid/1x1/4 Flat Bar/True Blue Pipe Sealant 4oz/ETC	154.46	7021
Big Brand Tire	New Tires Truck #13 x2/Truck #14 x1	53.85	7021
Linde	Headgear for Welding Helmet	850.69	7021
Amazon	Washdown Pumps x6	84.44	7021
O'Reilly's	Battery Box & Battery (Battery Box Returned/Credit Issued)	516.30	7021
MAS Ent	Repair of Wiring near Junction Box/Truck #9	144.88	7021
Ely Auto Parts Inc.	Battery Box	1,169.60	7021
Amazon	Oil Tank/Truck #5	28.68	7021
Central Irrigation	Plumbing Truck #7/3/4" Hose Barb x7	103.38	7021
Harbor Freight	Tools/Ratcheting Bar Clamp/Adjustable T-Square	12.19	7021
Amazon	Headlight Bulb/Truck #8/Blower Resister Truck #1/2.5 gal	59.49	7021
C.P. Phelps	Chemical Jugs x4/Tap for Lathe/ETC	162.54	7021
Amazon	Brake Light Bulbs x2 Truck #9/Oil Filters x2/Head Light Truck #7/Blinker Bulb Truck #8/Fan Relay	78.22	7021
Morris Levin & Son	Electrical Box/Capacitor Box/Drag Chain/Wash Water Tank/Truck #3	199.24	7021
CA Turf Equipment	Hardware Truck #3 & #7/Hammered Silver/3/4" PVC Ball		7021
Lowe's	Valve/Plastic Tubing Tee/Hose Clamps	83.58	
Amazon	Honda Engine Diagnostic and Maintenance	289.58	7021
Morris Levin & Son	Pump Set Up Electrical/4x4 2" PVC/3/4" Bushing/3/4" Close PVC		7021
Sams Club	3/4" Cord Connector	91.21	
Amazon	Pump Relay/Pump Switches x3/Pump Electrical Plug	131.72	7021
Morris Levin & Son	Red Hot Blue Glue/3/4 PVC x6/Mix Rite Mounting Screws x1		7021
Sams Club	Box/Tri-Mode Digital Caliper	81.95	
Amazon	Pump Set Up/Work Bench	669.37	7021
Morris Levin & Son	Soldering Iron Station Mat	172.42	7021
Amazon	Pump Set Up Hardware/1/2" Flat Washers x12/Terminal Block 6	75.79	
Lowe's	Circuit/Ring Terminals	311.12	7021
Amazon	Washdown Pumps x4	14.03	7021
Mid Valley Pipe	E3/10 Spark Plugs x2	145.65	7021
Amazon	Vise Drill Press		
Morris Levin & Son	Implement Mount/Truck #3/Flat Bar 1/8x1/Square Tubing 2x2x.188	109.78	
PWMall.com	2 Channel Digital Oscilloscope/Electrical	375.12	7021
CLINE'S BUSINESS EQUIP	Pump Set up Electrical/Insulated Clamps/Terminal Block 6		7021
CLINE'S BUSINESS EQUIP	Circuit x2	39.98	
Amazon	Pump Diaphragms x14/Pump Head Assembly		7027
UNWIRED	IT Services-July & August Statement	402.47	7021
Xinantecatl	Copy count C220/C308	123.60	7036
CalPERS	New Office Chair	104.04	7036
CSDA	Monthly Internet Service	162.36	7036
City of Fresno Airport	Lunch CSDA Meeting	95.97	7036
Renaissance Hotel	Educational Forum Conference Registration	24.10	7066
Payless Rent-A-Car	CSDA Annual Conference Registration	549.00	7073
Marriott	NACCHO Conference Parking	775.00	7073
Town and Country	CSDA Annual Conference	135.00	7074
Renaissance Center	NACCHO Conference Rental Car	247.54	7074
City of Tulare	NACCHO Conference	540.01	7074
	CalPERS Educational Forum Conference	1,259.25	7074
	NACCHO Conference Parking	261.70	7074
	Water/Trash Bill	40.00	7074
		171.18	7081

97,088.56

Agenda Item #5

Compensation for District Employees

Manager's recommendations:

I'm asking that the Board ***Consider*** a **one-time Bonus** to District Employees in Recognition of an **Outstanding Performance during last season's Emergency Declaration ~ Flood Waters.**

Tulare MAD has **Loyal Employees** who are **Very Dedicated** and **Willing to Step Up** to the challenge and not complain. During this time there was no compensation given to any employees.

DISTRICT ACTIVITY TO DATE

9/6/2024

WALS Program

- Last treatment will start the week of September 23rd

Surveillance

- Trapping
 - Traps Set 828 Traps
 - Mosquitoes Collected 40,696 Mosquitoes
 - Mosquitoes Tested 110 Samples Tested
 - Virus
 - Mosquitoes WNV+ 12 ~ Tulare (9), Plainview (1), Poplar (1), Visalia (1)
 - Human WNV+ 1 ~ Tulare
 - Mosquitoes SLE+ 2 ~ Tulare

Service Requests Year to Date

- 2024: 115
- 2023: 215
- 2022: 191
- 2021: 218
- 2020: 641

3-D Printer is working great

We are actively using the Drone ~Airboat~ Argo~ATV

California Arbovirus Surveillance Bulletin #22
Week 36 Friday, September 6, 2024

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WEEKLY UPDATE

Humans

West Nile virus

A total of 11 new human cases of West Nile virus (WNV) disease were reported this week from 9 counties: Butte (2), Kings (1), Orange (1), Sacramento (2), San Bernardino (1), San Joaquin (1), Santa Clara (1), Tehama (1), and Yolo (1). **These are the first human cases of WNV disease reported for Orange, Sacramento, San Joaquin, and Tehama counties this year.** In 2024, 38 human cases of WNV disease were reported from 15 counties. Of the 38 cases, 30 (79%) had neuroinvasive disease and 4 (11%) were fatal. The median age of the case-patients was 57 years and 26 (68%) of the case-patients were male. The dates of symptom onset ranged from May 28 to August 24. In addition to the 38 cases of WNV disease, 9 asymptomatic WNV-positive blood donors have been reported from 6 counties: Butte (1), Fresno (3), Los Angeles (1), San Bernardino (2), Santa Clara (1), and Stanislaus (1). At this time last year, 98 human cases of WNV disease had been reported from 23 counties.

St. Louis encephalitis virus

No human cases of St. Louis encephalitis virus (SLEV) disease have been reported. At this time last year, 1 human case of SLEV disease had been reported from 1 county.

Dead Birds

A total of 39 new WNV positive dead birds were reported from 7 counties: Alameda (3), Placer (1), Sacramento (2), San Joaquin (1), San Mateo (1), Santa Clara (30), and Yolo (1). In 2024, 391 WNV positive dead birds have been reported from 18 counties. At this time last year, 502 WNV positive dead birds had been reported from 26 counties.

Mosquito Pools

West Nile virus

A total of 137 new WNV positive mosquito pools were reported from 19 counties: Alameda (1), Butte (6), Fresno (15), Kern (4), Los Angeles (21), Madera (17), Orange (6), Placer (8), Riverside (5), Sacramento (1), San Bernardino (3), San Joaquin (8), Santa Clara (1), Shasta (3), Stanislaus (11), Sutter (1), Tulare (19), Yolo (6), and Yuba (1). In 2024, 1,523 WNV positive mosquito pools have been reported from 25 counties. At this time last year, 3,455 WNV positive mosquito pools had been reported from 29 counties.

St. Louis encephalitis virus

A total of 3 new SLEV positive mosquito pools were reported from 2 counties: Madera (1) and Tulare (2). **This is the first detection of SLEV activity in Madera County this year.** In 2024, 18 SLEV positive mosquito pools have been reported from 5 counties: Fresno (10), Imperial (1), Kings (1), Madera (1), and Tulare (5). At this time last year, 370 SLEV positive mosquito pools had been reported from 12 counties.

Sentinel Chickens

A total of 18 new WNV positive chickens were reported this week from 7 counties: Butte (7), Merced (1), Nevada (1), Shasta (2), Sutter (4), Tehama (2), and Tulare (1). **This is the first detection of WNV activity in Nevada County and the first detection of WNV positive chickens in Shasta County this year.** In 2024, 93 WNV positive sentinel chickens have been reported from 11 counties. At this time last year, 132 WNV positive chickens had been reported from 17 counties.

California Arbovirus Surveillance Bulletin #22
 Week 36 Friday, September 6, 2024

TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	11	0	0
	YTD	38	0	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	39 / 66					
	YTD	391 / 1,434					
Chicken Sera	Week	18 / 247	0 / 247	0 / 247			
	YTD	93 / 3,478	0 / 3,478	0 / 3,478			
Mosquito Pools	Week	137 / 1,296	3 / 1,194	0 / 1,194	0 / 0	0 / 0	0 / 0
	YTD	1,523 / 35,025	18 / 32,487	0 / 32,510	0 / 565	0 / 565	0 / 565

POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Union City	94587	American Crow	8/29/2024	WNV
Alameda	Alameda Co MAD	Fremont	94538	American Crow	9/2/2024	WNV
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/3/2024	WNV
Placer	Placer MVCD	Auburn	95602	Sparrow	8/30/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	House Finch	8/27/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95824	Mourning Dove	8/29/2024	WNV
San Joaquin	San Joaquin Co MVCD	Acampo	95220	California Scrub-Jay	9/2/2024	WNV
San Mateo	San Mateo Co MVCD	Atherton	94027	American Crow	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	Campbell	95008	American Crow	8/25/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	House Sparrow	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	Dark-eyed Junco	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95129	Unknown - Crow or Raven	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	House Sparrow	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	Unknown - Crow or Raven	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	8/30/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	8/30/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95131	Unknown - Crow or Raven	9/1/2024	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95050	Cooper's Hawk	9/1/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95117	American Crow	9/3/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	9/3/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95123	Chickadee	9/3/2024	WNV

California Arbovirus Surveillance Bulletin #22
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Los Angeles	SGVA 62	626	Cx quinquefasciatus	Covina	33	GRVD	9/4/2024	WNV
Los Angeles	SGVA 64	641	Cx quinquefasciatus	West Covina	44	GRVD	9/4/2024	WNV
Los Angeles	SGVA 953	631	Cx quinquefasciatus	Covina	34	GRVD	9/4/2024	WNV
Madera	MADR 1097	519	Cx tarsalis	Madera	30	CO2	8/28/2024	WNV
Madera	MADR 1097	519	Cx tarsalis	Madera	30	CO2	8/28/2024	SLEV
Madera	MADR 12	511	Cx quinquefasciatus	Madera	50	CO2	8/28/2024	WNV
Madera	MADR 208	514	Cx quinquefasciatus	Madera	50	CO2	8/28/2024	WNV
Madera	MADR 232	504	Cx quinquefasciatus	Chowchilla	50	CO2	8/27/2024	WNV
Madera	MADR 259	540	Cx tarsalis	Madera	44	CO2	8/30/2024	WNV
Madera	MADR 309	538	Cx quinquefasciatus	Madera	34	CO2	8/30/2024	WNV
Madera	MADR 3191	532	Cx tarsalis	Firebaugh	50	CO2	8/29/2024	WNV
Madera	MADR 697	530	Cx tarsalis	Firebaugh	50	CO2	8/29/2024	WNV
Madera	MADR 704	508	Cx tarsalis	Madera	50	CO2	8/28/2024	WNV
Madera	MADR 706	510	Cx tarsalis	Madera	45	CO2	8/28/2024	WNV
Madera	MADR 747	505	Cx tarsalis	Chowchilla	50	CO2	8/27/2024	WNV
Madera	MADR 752	527	Cx tarsalis	Firebaugh	50	CO2	8/29/2024	WNV
Madera	MADR 760	500	Cx quinquefasciatus	Chowchilla	50	CO2	8/27/2024	WNV
Madera	MADR 765	525	Cx tarsalis	Firebaugh	50	CO2	8/29/2024	WNV
Madera	MADR 769	523	Cx tarsalis	Madera	18	CO2	8/28/2024	WNV
Madera	MADR 770	524	Cx tarsalis	Madera	50	CO2	8/28/2024	WNV
Madera	MADR 975	515	Cx quinquefasciatus	Madera	50	CO2	8/28/2024	WNV
Orange	ORCO 170	2332	Cx quinquefasciatus	Anaheim	47	GRVD	9/4/2024	WNV
Orange	ORCO 300	2380	Cx quinquefasciatus	Westminster	32	GRVD	9/5/2024	WNV
Orange	ORCO 326	2359	Cx quinquefasciatus	La Habra	9	GRVD	9/4/2024	WNV
Orange	ORCO 329	2350	Cx quinquefasciatus	Fullerton	30	GRVD	9/4/2024	WNV
Orange	ORCO 332	2358	Cx quinquefasciatus	Fullerton	39	GRVD	9/4/2024	WNV
Orange	ORCO 370	2320	Cx quinquefasciatus	Santa Ana	50	GRVD	9/4/2024	WNV
Placer	PLCR 1023	1249	Cx stigmatosoma	Roseville	3	CO2	9/3/2024	WNV
Placer	PLCR 139	1258	Cx erythrothorax	Roseville	2	CO2	9/3/2024	WNV
Placer	PLCR 139	1259	Cx tarsalis	Roseville	50	CO2	9/3/2024	WNV
Placer	PLCR 139	1260	Cx tarsalis	Roseville	50	CO2	9/3/2024	WNV
Placer	PLCR 191218	1270	Cx tarsalis	Roseville	50	CO2	9/3/2024	WNV
Placer	PLCR 191235	1305	Cx tarsalis	Newcastle	6	CO2	9/4/2024	WNV
Placer	PLCR 197802	1269	Cx tarsalis	Elverta	2	CO2	9/3/2024	WNV
Placer	PLCR 719276	1243	Cx tarsalis	Roseville	33	CO2	9/3/2024	WNV
Riverside	COAV 35	4927	Cx tarsalis	Mecca	50	CO2	9/4/2024	WNV
Riverside	COAV 778	4952	Cx quinquefasciatus	La Quinta	47	BGSENT	9/4/2024	WNV
Riverside	NWST 110	262	Cx tarsalis	Corona	50	BGSENT	8/22/2024	WNV
Riverside	NWST 37	275	Cx quinquefasciatus	Eastvale	50	BGSENT	8/30/2024	WNV
Riverside	NWST 418	271	Cx quinquefasciatus	Eastvale	50	BGSENT	8/29/2024	WNV
Sacramento	SAYO 203032	4263	Cx tarsalis	Sacramento	22	CO2	9/4/2024	WNV
San Bernardino	WVAL 2063	1958	Cx quinquefasciatus	Chino Hills	12	BGSENT	9/5/2024	WNV
San Bernardino	WVAL 5006	1909	Cx quinquefasciatus	Rancho Cucamonga	15	GRVD	9/4/2024	WNV
San Bernardino	WVAL 9005	1896	Cx quinquefasciatus	Upland	14	GRVD	9/4/2024	WNV
San Joaquin	SJCM 8010	1465	Cx tarsalis	Ripon	40	CO2	9/4/2024	WNV
San Joaquin	SJCM 8010	1466	Cx pipiens	Ripon	50	CO2	9/4/2024	WNV
San Joaquin	SJCM 8010	1467	Cx pipiens	Ripon	29	CO2	9/4/2024	WNV
San Joaquin	SJCM 8204	1504	Cx tarsalis	Stockton	46	CO2	9/4/2024	WNV
San Joaquin	SJCM 8206	1508	Cx tarsalis	Lodi	50	CO2	9/4/2024	WNV
San Joaquin	SJCM 8206	1509	Cx tarsalis	Lodi	50	CO2	9/4/2024	WNV
San Joaquin	SJCM 8206	1510	Cx tarsalis	Lodi	50	CO2	9/4/2024	WNV
San Joaquin	SJCM 8206	1512	Cx pipiens	Lodi	6	CO2	9/4/2024	WNV
Santa Clara	STCL 32074	2629	Cx tarsalis	Palo Alto	10	CO2	8/29/2024	WNV
Shasta	SHAS 110	678	Cx pipiens	Redding	50	CO2	9/4/2024	WNV
Shasta	SHAS 629	690	Cx pipiens	Anderson	50	CO2	9/4/2024	WNV
Shasta	SHAS 917	675	Cx tarsalis	Redding	47	CO2	9/4/2024	WNV
Stanislaus	TRLK 1673	539	Cx pipiens	Patterson	6	CO2	9/4/2024	WNV
Stanislaus	TRLK 22171	590	Cx pipiens	Turlock	50	CO2	8/28/2024	WNV
Stanislaus	TRLK 2400	542	Cx tarsalis	Newman	19	CO2	9/4/2024	WNV
Stanislaus	TRLK 24305	592	Cx pipiens	Turlock	50	CO2	8/28/2024	WNV
Stanislaus	TRLK 305	520	Cx pipiens	Grayson	34	CO2	9/4/2024	WNV
Stanislaus	TRLK 312	543	Cx tarsalis	Newman	50	CO2	9/4/2024	WNV
Stanislaus	TRLK 312	544	Cx tarsalis	Newman	50	CO2	9/4/2024	WNV
Stanislaus	TRLK 424	535	Cx pipiens	Patterson	50	CO2	9/4/2024	WNV
Stanislaus	TRLK 424	537	Cx tarsalis	Patterson	50	CO2	9/4/2024	WNV
Stanislaus	TRLK 437	528	Cx tarsalis	Patterson	40	CO2	9/4/2024	WNV

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TEST PROTOCOLS

Humans:

Specimens are tested by local laboratories with an IgM or IgG immunofluorescent assay (IFA) and/or an IgM enzyme immunoassay (EIA). Specimens with inconclusive results are forwarded to the California Department of Public Health Viral and Rickettsial Disease Laboratory (VRDL) for further testing with a plaque reduction neutralization test (PRNT).

Dead Birds

Oral swab samples collected from bird carcasses are tested at the UC Davis Arbovirus Research and Training laboratory (DART) or at a local agency for West Nile virus by RT-qPCR.

Sentinel Chickens:

Dried blood spot samples from sentinel chickens are tested at the California Department of Public Health Vector-Borne Disease Laboratory for IgG antibodies to West Nile, St. Louis encephalitis, and western equine encephalomyelitis viruses by an EIA. Positive samples are confirmed by IFA, western-blot, or PRNT.

Mosquito Pools:

Mosquito pools are tested at DART or at a local agency for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a multiplex RT-qPCR. Invasive *Aedes* mosquitoes (*Ae. aegypti* and *Ae. albopictus*) are also tested at DART for chikungunya, dengue, and Zika viral RNA by a separate RT-qPCR.

Website Information: For updated information on WNV in California, please visit the California WNV website, <https://westnile.ca.gov>, or the California Vector-Borne Disease Surveillance System website, <https://maps.vectorsurv.org>

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Hannah Romo: Hannah.Romo@cdph.ca.gov

FY 21/22 FY 22/23 FY 23/24

Chemical	Measurement Unit	Price/Unit	Price/Unit	Price/Unit
Larvicides				
Agnique MMF	Gallons	\$ 37.66	\$ 37.66	\$ 37.66
Altosid SR-5	Gallons	\$ 273.87	\$ 273.87	\$ 273.87
Altosid SR-20	Gallons		\$ 940.96	\$ 940.96
Altosid P35	Pounds	\$ 18.00	\$ 18.00	\$ 18.00
Altosid WSP	Pouch	\$ 0.88	\$ 0.88	\$ 0.88
Altosid XR-G Ultra	Pounds		\$ 11.96	\$ 11.96
AquaBac Primary Powder	Pounds	\$ 45.47	\$ 42.00	\$ 42.00
BVA 13 ULV Diluent	Gallons	\$ 14.76	\$ 14.76	\$ 14.76
BVA 2 LARVICIDE OIL	Gallons	\$ 9.15	\$ 9.15	\$ 9.15
Cocobear	Gallons	\$ 22.19	\$ 40.00	\$ 40.00
Censor	Pounds			\$ 3.87
Duplex G	Pounds	\$ 14.39	\$ 14.96	\$ 14.96
Fourstar BTI CRG	Pounds	\$ 10.95	\$ 13.01	\$ 13.01
Fourstar SBG	Pounds		\$ 9.92	\$ 9.92
Kontrol Oil	Gallons	\$ 8.45	\$ 8.45	\$ 8.45
MetaLarv XRP	Pouch		\$ 2.20	\$ 2.20
MetaLarv S-PT	Pounds			\$ 28.80
Natular 2EC	Gallons	\$ 1,130.00	\$ 1,688.71	\$ 1,688.71
Natular 20EC	Gallons		\$ 1,158.14	\$ 1,158.14
Natular DT	Tablets	\$ 1.42	\$ 0.60	\$ 0.60
Natular G	Pounds	\$ 6.67	\$ 8.01	\$ 8.01
Natular G30	Pounds	\$ 16.99	\$ 18.01	\$ 18.01
Natular XRT	Briquets	\$ 5.14	\$ 5.50	\$ 5.50
NyGuard IGR Concentrate	Gallons	\$ 1,288.96	\$ 1,287.85	\$ 1,287.85
Spheratax SPH (50 G)	Pounds	\$ 5.79	\$ 5.79	\$ 5.79
Sumilarv 0.5G	Pounds	\$ 20.98	\$ 20.98	\$ 19.27
Suspend SC	Gallons	\$ 383.76	\$ 383.76	\$ 383.76
VectoBac 12AS	Gallons			\$ 30.43
VectoBac GS	Pounds	\$ 1.98	\$ 1.98	\$ 1.99
VectoBac WDG	Pounds	\$ 39.56	\$ 39.56	\$ 39.28
VectoLex WDG	Pounds	\$ 59.00	\$ 59.00	\$ 60.11
VectoMax FG	Pounds	\$ 8.92	\$ 8.92	\$ 9.02
Adulticides				
Aqua Duet	Gallons	\$ 428.29	\$ 290.52	\$ 290.52
BIOMIST 4+12 ULV	Gallons	\$ 95.17	\$ 130.25	\$ 130.25
DeltaGard	Gallons	\$ 197.76	\$ 197.76	\$ 197.76
Duet	Gallons	\$ 227.11	\$ 236.19	\$ 236.19
Merus 3.0	Gallons	\$ 305.46	\$ 332.04	\$ 332.04
Pyronyl Oil Concentrate *	Gallons	\$ 208.92	\$ 208.92	\$ 208.92
Kontrol 4-4	Gallons		\$ 31.00	\$ 31.00