

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
ADMINISTRATIVE ASSISTANT
Sheri Davis



The Tulare Mosquito Abatement District Board of Trustees Meeting will be held on Tuesday, July 11, 2023 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 June 13, 2023 Board of Trustee Meeting.
3. Payment of Check Numbers **7191 - 7239**
Payment of Direct Deposit Numbers **DD 1573 - DD 1579**
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 **21949 & 21950** Transfer of Funds from Tulare County Fund #778 to the District's US Bank Account # *****4633.
4. Final FY 23/24 Budget Submitted to Tulare County
5. District Activity to Date
6. Discussion on State Funded Aerial Applications
7. Discussion on FEMA/CalOES Public Assistance Programs
8. Manager's Report
 - a. CDPH Certification Cycle ended June 30th, 2023
 - b. General Managers Summit
9. 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 JUNE 2023, AT THE HOUR OF 1:00 P.M. OF SAID DAY

Present at the meeting called at 1:00 p.m. at the place above designated were: Charlie Pitigliano, presiding, Craig Smith, Stan Creelman, Tony Nunes, Robert Uchita and Chuck Mayer. Also present at the Board Meeting were Michelle Dempsey, General Manager, Jacob Davis, Operations Director, Sheri Davis, Administrative Assistant, 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 May 9, 2023 Board of Trustee Meeting and the May 31, 2023 Board of Trustee Special Meeting.

The minutes of the meeting held on May 9, 2023, were presented to the board in writing and reviewed. Upon a motion made by Charles Mayer, seconded by, Robert Uchita, and unanimously carried, the minutes of the board meeting held on May 9, 2023, were approved as presented. The minutes of the special meeting held on May 31, 2023, 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 special board meeting held on May 31, 2023, were approved as presented.

Agenda Item No. 3: Payment of Check Number 7161 - 7190, Payment of Direct Deposit Numbers DD 1559 - DD 1572; Electronic Fund Transfers (EFTPS) from Union Bank to the IRS for Social Security, Medicare and Federal Tax Payments, Union Bank Charges and Credits, and Claim Number 21947, Transfers of Funds form Tulare County Fund #778 to the District's Union Bank Account #***4408.**

The board members reviewed the District's Union Bank checking account, check numbers 7161 - 7190, payment of direct deposit numbers DD 1559 - DD 1572, 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 Union Bank account, and claim number 21947 in the sum of \$96,043.71, which were transfers from the District's Tulare County Fund #778 to the District's Union Bank account number ending in 4408. Upon a motion duly made by Tony Nunes, seconded by Stan Creelman, and unanimously carried, the Union Bank checking account, check numbers 7161 - 7190, payment of direct deposit numbers DD 1559 - DD 1572, 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 Union Bank checking account, and the transfer from the District's Tulare County Fund #778 to the District's Union Bank account number ending in 4408, by claim number 21947 in the sum of \$96,043.71, were approved.

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Agenda Item No. 4: Discussion, Consideration and Potential Action to Approve Resolution No. 2023-01, A Resolution of the Board of Trustees of the Tulare Mosquito Abatement District Declaring a Local Public Health Emergency Due to Mosquito Production in Excess Floodwaters for the 2023 Season.

Chad reviewed the resolution with the board and answered questions from the board. After some discussion, upon a motion duly made by Stan Creelman, seconded by Charles Mayer, and unanimously carried, the board approved and adopted Resolution No. 2023-01, A Resolution of the Board of Trustees of the Tulare Mosquito Abatement District Declaring a Local Public Health Emergency Due to Mosquito Production in Excess Floodwaters for the 2023 Season.

Agenda Item No. 5: Discussion on FEMA/CalOES Public Assistance Programs.

Sheri provided the board with a general update on the District's progress in seeking assistance from FEMA and CalOES as a result of the effects from the mosquito breeding from the excess floodwaters and the re-emergence of the Tulare Lake.

Agenda Item No. 6: Discussion, Consideration and Potential Action to Purchase Airboat to Treat the Tulare Flood Basin and Excess Floodwaters.

Jacob advised the board that the purchase of the used airboat would greatly assist the District in the larvaciding and adultaciding the Tulare Lake and other excess floodwaters within the District, which are otherwise inaccessible. After answering questions from the board, and extensive discussion, upon a motion duly made by Tony Nunes, seconded by Craig Smith, and unanimously carried, the board authorized the purchase of the used 2018 Circle H Fan Boat at a cost not to exceed \$33,000.00.

Agenda Item No. 7: Discussion, Consideration and Potential Action to Purchase Equipment Needed to Treat the Tulare Flood Basin and Excess Floodwaters.

Michelle and Jacob presented the list of equipment that they believed the District needed to address the current emergency mosquito breeding issues as a result of the excess floodwaters and the Tulare Lake. They addressed questions from the board. Upon a motion duly made by Tony Nunes, seconded by Craig Smith, and unanimously carried, the board authorized the purchase of one (1) Big Tex Trailer with brakes, at a cost not to exceed \$4,800.00, and authorized District management to execute any documents necessary to complete the purchase. Upon a motion duly made by Stan Creelman, seconded by Robert Uchita, and unanimously carried, the board authorized the purchase of the 2023 Chevrolet Silverado 1500 4x4 (\$56,000.00); 2023 Chevrolet Silverado 1500 (\$46,000.00); and 2023 Chevrolet Colorado (\$37,000.00) from Stone Chevrolet as presented, at a total cost not to exceed \$139,000.00 plus applicable taxes and DMV fees, and authorized District management to execute any documents necessary to complete the purchase. Upon a motion duly made by Craig Smith, seconded by Tony Nunes, and unanimously carried, the board authorized the purchase of two (2) A1 Mist Sprayer-BOSS (\$4,400.00 each); two (2) Utility Foggers (\$4,000.00 each); a Grizzly Lathe (\$1,000.00); and a Grizzly Mill/Drill (\$1,300.00), at a total cost not to exceed \$19,100.00, and authorized District management to execute any documents necessary to complete the purchase of these items.

Agenda Item No. 8: Discussion, Consideration and Potential Action to Amend the District's Compensation Plan by 6% for a Cost of Living Adjustment to be Effective July 1, 2023.

Michelle informed the board that she was recommending a cost of living adjustment increase in the sum of 6% to the District's compensation plan. She addressed the questions from the board and after some discussion, upon a motion duly made by Charles Mayer, seconded by Stan Creelman, and unanimously carried, the board approved and authorized a 6% cost of living adjustment increase to the District's Compensation Plan effective as of July 1, 2023.

Agenda Item No. 9: Review Proposed Fiscal Year 2023/2024 Budget and Take Action to Approve and Send to the Tulare County Auditor.

Michelle provided the board with a general overview of the District's proposed budget for fiscal year 2023/2024. She addressed questions from the board and after extensive discussion, upon a motion duly made by Charles Mayer, seconded by Robert Uchita, and unanimously carried the board approved and authorized the fiscal year 2023/2024 Budget for the District, as presented, which included and authorized the hiring of three (3) additional seasonal employees, and authorized and instructed the General Manager to remit the District's fiscal year 2023/2024 Budget to the Tulare County Auditor.

Agenda Item No. 10: Manager's Report.

- a. WALS Program - Michelle advised the board that the District's WALS program has commenced for this season.
- b. US BANK - VISA Card - Quarter 1 Rebate Check - Michelle reported to the board that the District received a rebate check from US Bank for the first quarter of the year.
- c. District Activity to Date - Michelle reviewed with the board the California Arbovirus Surveillance Bulletin #9 for Week 23, June 9, 2023.

Agenda Item No. 11: Meeting Adjourned.

There being no further business before the board, upon a motion duly made by Robert Uchita, seconded by Craig Smith, and unanimously carried, the meeting was adjourned at 3:25 p.m.

SECRETARY

Expenses 6/15/2023

Agenda Item #3

Union	6000	Transfer Fund from Salaries & Benefits 22/23	\$115,219.64
Check #s	7000	Transfer Funds from Service & Supplies 22/23	<u>\$110,888.50</u>
EFTPS			\$228,108.14
E Debits			

Expenses

Full Time Employees

7193	Michelle Dempsey		4,657.62	6001
7194	Jacob Davis		3,508.88	6001
7195	Jorge Lopez		2,394.27	6001
7196	Ryan Stallings		2,053.30	6001
7197	Quirino Valencia		2,437.66	6001
7198	Victor Zamora		2,437.48	6001
7199	Sheri Davis		2,619.43	6001

Seasonal Employees

7200	John Coleman		1,572.50	6005
7201	Justin Manning		1,682.91	6005
7202	Pedro Medina-Mendez		957.47	6005
7203	Josephina Ortiz		1,386.18	6005
7204	Rene Rodriguez		1,551.50	6005
7205	David Servi		1,557.91	6005
7206	Quirino Valencia III		1,650.85	6005

EFTPS	CA Emp Dev Dept	UI, ETT, SDI & PIT	1,945.07	6004
7207	Charlie Pitigliano		100.00	6008
7208	Stan Creelman		100.00	6008
7209	Charles Mayer		100.00	6008
7210	Robert Uchita		100.00	6008
7211	Craig Smith		100.00	6008
7212	Tony Nunes III		100.00	6008
EFTPS	CalPERS (Employee)	Employee Additional 457 Roth	475.00	6011
EFTPS	CalPERS (Employee)	Employee Additional deferred contribution	400.00	6011
EFTPS	CalPERS (Retirement)	PERS Retirement contribution Employer & Employees	4,081.48	6011
EFTPS	EFTPS.gov	Federal Inc Tax. Empe,Empr Medicare & SS	8,566.38	6012
7191	Stone Chevrolet	2023 Silverado 1500	46,848.60	7001.2
7192	Stone Chevrolet	2023 Silverado 1500 4x4	56,282.59	7001.2
7213	Steven Hettinga	2018 Airboat	32,000.00	7001.2
7214	Argo Adventure	2023 Argo Aurora 800 8x8	35,454.20	7001.2
7215	G.V. Burrows	Vehicle Fuel - 744.4 Gallons	3,074.14	7022
7216	McCormick, Kabot & Lew	Special Meeting 5/31/2023 & Board Meeting 5/9/2023	1,125.00	7043
7217	City of Tulare	Land Rent	774.00	7062
7218	Michelle Dempsey	Per Diem - GM Summit Olympic Valley	259.00	7074

222,353.41

Expenses 6/30/2023

Union			\$114,492.09	
Check #'s		6001 Transfer Funds from Salaries and Benefits FY 22/23 Budget	\$115,645.34	
EFTPS		7000 Transfer Funds from Services and Supplies FY 22/23 Budget		Expenses
E Debits			<u>\$230,137.43</u>	
	Full Time Employees			
DD1573	Michelle Dempsey		4,657.61	6001
DD1574	Jacob Davis		3,508.87	6001
DD1575	Jorge Lopez		2,394.26	6001
DD1576	Ryan Stallings		2,053.31	6001
DD1577	Quirino Valencia		2,437.65	6001
DD1578	Victor Zamora		2,437.47	6001
DD1579	Sheri Davis		2,619.43	6001
	Seasonal Employees			
7219	John Coleman		1,537.86	6005
7220	Justin Manning		1,541.11	6005
7221	Pedro Medina-Mendez		1,270.36	6005
7222	Matthew Minter		269.93	6005
7223	Josephina Ortiz		1,270.36	6005
7224	Rene Rodriguez		1,517.86	6005
7225	David Servi		1,524.29	6005
7226	Quirino Valencia III		1,598.28	6005
EFTPS	CA Emp Dev Dept	UI, ETT, SDI & PIT	1,654.96	6004
EFTPS	CalPERS (Health)	Monthly Health Premium - June 2023	20,081.40	6004
7227	Principal Insurance Co.	Monthly Premium Denta, Vision, Life - June 2023	1,246.18	6004
7228	Assurity Life Insurance Co.	Employee Additional Health	721.81	6004
7229	AFLAC (Employee)	Employee Additional Health	37.60	6004
EFTPS	CalPERS (Employee)	Employee Additional 57 Roth	475.00	6011
EFTPS	CalPERS (Employee)	Employee Additional deferred contribution	400.00	6011
EFTPS	CalPERS (Retirement)	PERS Retirement contribution Employer & Employees	4,081.48	6011
EFTPS	EFTPS.gov	Federal Inc Tax. Empe, Empr Medicare & SS	8,619.12	6012
7230	Lakeland Aviation	Aerial Application - Allensworth	2,400.00	
7231	Stone Chevrolet	2023 Chevrolet Colorado	35,959.10	
7232	Adapco		48,805.11	
		A-1 Boss Sprayer w/40 gal tank (x3)	12,873.46	
		Vectobac 12AS (x3) - Totes 4,5,6	27,400.59	
		Guardian 70ES (x2)	8,531.06	
7233	Clarke	Aqua Duet 55 gal drum; Flushing Solvent	15,920.93	
7234	Veseris	Kontrol 55 gal drum	1,845.67	
7235	SDRMA	Property/Liability FY 2023/24 Invoice	59,208.62	
7236	G.V. Burrows	Vehicle Fuel - 808.6 gallons	3,544.86	
7237	Hancock A/C & Heating	A/C Service	100.00	7022
7238	Vectorborne Disease Acct	Tech Certification Annual Fee (7 employees)	1,211.00	
		So Cal Edison	468.87	555.09
		So Cal Gas Co.	18.97	7081
		Direct Deposit Fee	12.25	7036
		US Bank - Positive Pay monthly fees	55.00	7036
	U.S.Bank Charges & Credits	06/19/2023 Statement		13,422.38
7239	Dept. of Pesticide Regulations	Pest Control Aircraft Pilot Application	110.00	7001.1
	3M Health & Safety	Online Respirator Medical Evals (1)	29.00	7001.2
	Smart & Final	Dry Ice for CO2 Traps	140.21	7001.2
	Linde	Dry Ice for CO2 Traps	523.99	7001.2
	Morris Levin & Son	Argo/Airboat Setup	198.61	7001.2
	Tractor Supply	40 gal Sprayer & 7-Nozzle Boom Kit	760.06	7001.2
	Grizzly Industrial	Benchtop Lathe & Mill/Drill	2,718.86	7001.2
	Water Pumps Direct	Honda High Pressure Water Pump	864.93	7001.2
	Sprinkler Warehouse	Brass Foot Valve	49.72	7001.2

Mid Valley Pipe	Argo Setup	374.25	7001.2
Battery Pro	Battery for A-1 Sprayer	143.57	7001.2
King Pumps	Flojet Demand Pumps (x3)	657.79	7001
Amazon.com	Large Seine Net (x2); Trailer Hitch Adapter & Pin	174.76	7001
Costco	Repellent for Technicians	47.06	7001
HomeDepot	Mixing Buckets (x2)	12.95	7001
Tractor Supply	Chicken Feed	64.47	7001
Harmony Lab & Safety Supplies	Gloves	26.86	7001
Morris Levin & Son	Fuel Filler, Key, Bushing	83.44	7001
YOSEMITE LINEN	Employee Uniforms/Laundry - May	985.54	7004
T Mobile	iPads, Phones (Michelle & Jacob)	782.44	7005
Verizon	Office and Field Phones	227.61	7005
Carmine	Monthly Tier for GPS	339.83	7005
STREAMLINE	Monthly Website	200.00	7005
Digital Space	Monthly Faxline	10.00	7005
Culligan	Bottled Water	38.75	7009
Parts Geek	Reservoir Tank (radiator) Truck #4	44.82	7021
Zoro	Turbine Flowmeter for Fuel	178.10	7021
C.P. Phelps	Ceramic Brake Pads Front & Rear - Truck #2	172.68	7021
C.P. Phelps	End Link Kit - Truck #14	89.46	7021
C.P. Phelps	Antifreeze	45.44	7021
MAS Enterprises	Hydroboost Replacement, Rotors & Brakes - Truck #14	2,215.98	7021
Midstate Auto Equipment	Annual Inspection & Certification for Lift	285.00	7021
Cline's Business Equip.	Copy count - C220 - 5/4 - 6/3/2023	30.00	7036
Cline's Business Equip.	Copy count - C308 - 5/4 - 6/3/2023	187.24	7036
Cline's Business Equip.	IT Services	60.00	7036
Microsoft 365	Annual Subscription	99.99	7036
UNWIRED	Monthly Internet 5/22/23-6/21/23	125.97	7036
Sheraton Waikiki	NPMA Conference - 1 night pre-pay (Michelle)	323.00	7074

250,928.94

Agenda Item # 4

**APPROVED BUDGET - SPECIAL DISTRICTS
FINAL BUDGET FOR FISCAL YEAR 2023-24
PAGE 1 OF 3**

DISTRICT NAME _ Tulare Mosquito Abatement District

FUND NO ___ 778 _____

**(USE WHOLE DOLLARS ONLY-NO CENTS)
2022-2023 Budget/Actual
(OPTIONAL)***

2023-2024 Budget

AVAILABLE RESOURCES

CASH

1.	Cash Balance - July 1, 2023	\$		7,829,189
	Less Cash Reserves: (Specify)			
2.	General Reserve			
	Oil Tank Removal & Replacement			100,000
3.	Asphalt Removal & Replacement			100,000
	OPEB Liability			1,194,288
4.	Property/Building Purchase			4,000,000
	Emergency Invasive Aedes outbreak			0
	Replacement of Vehicles/Tablets/Drone			200,000
5.	Total Beginning Cash Available (Line 1 minus Lines 2 thru 4)	\$		2,234,901

BUDGETED REVENUES

(See your monthly BA-A203 report for a listing of your revenue accounts)

		<u>ACCOUNT</u>		
6.	Property Taxes-Current Secured	4001		1,675,500
7.	Property Taxes-Current Unsecured	4006		115,000
8.	Property Taxes-Prior Secured	4008		30,000
9.	Property Taxes-Prior Unsecured	4009		1,000
10.	Supp. Property Taxes-Current Secured	4030		30,000
11.	Supp. Property Taxes-Prior	4033		7,000
12.	Other Taxes - Assessment	4052		
13.	Interest (in PPP)	4801		113,000
14.	Use of money and property	4800		
15.	Rents and Concessions	4807		
16.	Aid From Other Governmental Agencies	5000		
17.	St Homeowners Property Tax Relief	5050		10,500
18.	St Aid-Supp. Subvention-SD	5052		
19.	Charges for Current Services	5400		
20.	Charges for Cur Serv-Water & Sewer	5531		
21.	Burial Fee	5542		
22.	Miscellaneous Revenues	5805		
23.	Other Sales-Taxable	5816		
24.	Other Revenue	5835		
25.	RDA Residuals	4060		82,000
26.	RDA Pass Thru	4069		34,000
27.	Total Budgeted Revenues (Lines 6 thru 26)	Total \$		2,098,000
28.	Total Available Resources (Line 5 plus Line 27)	Total \$		4,332,901

* Prior year budget/actual is optional as a reference only.

APPROVED BUDGET - SPECIAL DISTRICTS
FINAL BUDGET FOR FISCAL YEAR 2023-24
 PAGE 2 OF 3

DISTRICT NAME _ Tulare Mosquito Abatement District

FUND NO. 778

(USE WHOLE DOLLARS ONLY-NO CENTS)
 2021-2022 Budget/Actual
 (Optional)*

2022-2023 Budget

APPROPRIATIONS

BUDGETED EXPENDITURES (See your monthly BA-A103 report for a listing of your expenditure accts.)

	<u>ACCOUNT</u>		
29. Salaries and Employee Benefits	6000 **		1,473,700
30. Regular Salaries	6001		
31. Overtime	6002		
32. Benefits (i.e. Health Insurance, life Insurance, Unemployment Insurance)	6004		
33. Extra Help	6005		
34. Director's Fees	7012		
35. Retirement-SD Portion	6011		
36. Social Security	6012		
37. Workers' Comp Ins	6015		
38.			
39.			
40. Total Salaries and Employee Benefits (Lines 29 thru 39)	Total \$		1,473,700
41. Services and Supplies	7000 **		2,002,000
42. Agricultural	7001		
43. Clothing and Personal Supplies	7004		
44. Telecommunications (phone bill)	7005		
45. Cost of Supplies Reissued	7006		
46. Food	7007		
47. Household Expense	7009		
48. Insurance	7010		
49. Maintenance-Equipment	7021		
50. Maintenance-Bldg & Improvements	7024		
51. Memberships	7027		
52. Office Expense	7036		
53. Professional and Specialized Expense	7043		
54. Publications and Legal Notices	7059		
55. Rent & Leases-Equipment	7061		
56. Rent & Leases-Bldg & Improvements	7062		
57. Small Tools and Instruments	7065		
58. District Special Expense	7066		
59. Training	7073		
60. Transportation and Travel	7074		
61. Utilities	7081		
62.			
63.			
64.			
65.			
66. Total Services and Supplies (Lines 41 thru 65)	Total \$		2,002,000

** Special Districts that keep their own books must use account numbers 6000, 7000, etc.; Special Districts whose books are maintained by the Tulare County Auditor use line item account numbers.

APPROVED BUDGET - SPECIAL DISTRICTS
 FINAL BUDGET FOR FISCAL YEAR 2023-24
 PAGE 3 OF 3

DISTRICT NAME Tulare Mosquito Abatement District

FUND NO 778

(USE WHOLE DOLLARS ONLY-NO CENTS)
 2021-2022 Budget/Actual
 (Optional)*

2022-2023 Budget

APPROPRIATIONS

BUDGETED EXPENDITURES

ACCOUNT

67.	Other Charges	7400		
68.	Contributions to Other Agencies	7407		2,500
69.	Repayment-Long Term Debt (Bonds)	7413		
70.	Interest-Long Term Debt (Bonds)	7415		
71.	Repayment-Long Term Debt (Other)	7417		
72.	Interest-Long Term Debt (Other)	7418		
73.	Taxes and Assessments	7425		50,000
74.	Other Charges	7428		
75.	Total Other Charges (Lines 67 thru 74)	Total \$		52,500

Fixed Assets (Specify) ***

76.	Land	8000 ***		
77.	Repurchase of Grave Site	8001		
78.	Building and Improvements	8100		
79.	Equipment	8300		392,500
80.				
81.				
82.				
83.	Total Fixed Assets (Lines 76 thru 83)	Total \$		392,500

CONTINGENCIES

84.	Appropriation for Contingencies	7432 (1)		412,201
85.				
86.	Total Contingencies (Lines 84 thru 86)	Total \$		412,201

(1) Recommend 15% of total expenditures.

87.	Total Appropriations (Lines 40,66,75,83, 86)	Total \$		4,332,901
88.	Difference Between Resources and Appropriations (Line 28 minus Line 87 should be zero)	\$		0

*** Special Districts that keep their own books must use account numbers 6000, 7000, 8000. Detail records are kept by the district.

DISTRICT ACTIVITY TO DATE

6/30/2023

WALS Program

- Started end of May and will continue through September/October
- All Mapped areas are on the Website
- Report all spraying to Police before we spray in town

Flood Area Activities

- Equipment Purchased
 - Airboat – CA Boater License Passed
 - Argo & Trailer
 - Trucks – In the Field and/or building Transfer Tank Systems
- Staff Increase
 - 2 New Employees

Surveillance

- Trapping
 - Traps Set 587 Traps
 - Mosquitoes Collected 39,192 Mosquitoes
 - Mosquitoes Tested 25 Samples Tested
 - Virus **2 WNV+ (South Visalia)updated 7/11/2023**
- CA Arbovirus Surveillance Bulletin
 - See attached.

Service Requests Year to Date

- 2023: 129
- 2022: 108
- 2021: 125
- 2020: 259

DRONE Program

- Received COA
- Drone Training
- DPR Test

California Arbovirus Surveillance Bulletin #13

Week 27 Friday, July 7, 2023



WEEKLY UPDATE

Humans

West Nile virus

No human cases of West Nile virus (WNV) have been reported.

St. Louis encephalitis virus

A single (1) human case of St. Louis encephalitis virus (SLEV) was reported this week from Kern County. **This is the first human case of SLEV reported for Kern County this year.** In 2023, 1 human case of SLEV has been reported from 1 county: Kern (1). At this time last year, no human cases of SLEV had been reported.

Dead Birds

A total of 14 new WNV positive dead birds were reported this week from 3 counties: Sacramento (10), Santa Clara (1), and Ventura (3). **This is the first detection of a WNV positive dead bird and the first detection of WNV activity in Ventura County this year.** In 2023, 65 WNV positive dead birds have been reported from 11 counties. At this time last year, 20 WNV positive dead birds had been reported from 9 counties.

Mosquito Pools

West Nile virus

A total of 135 new WNV positive mosquito pools were identified from 11 counties: Fresno (1), Kern (3), Kings (5), Los Angeles (6), Placer (10), Sacramento (31), San Joaquin (37), Solano (2), Stanislaus (9), Tulare (20), and Yolo (11). **This is the first detection of WNV activity in Fresno and Kings counties and the first detection of WNV positive pools in Solano County this year.** In 2023, 283 WNV positive mosquito pools have been reported from 14 counties. At this time last year, 222 WNV positive mosquito pools had been reported from 17 counties.

St. Louis encephalitis virus

A total of 25 new SLEV positive mosquito pools were identified from 2 counties: Kern (3) and Riverside (22). In 2023, 49 SLEV positive mosquito pools were reported from 4 counties: Fresno (4), Imperial (1), Kern (8), and Riverside (36). At this time last year, 2 SLEV positive pools had been reported from 2 counties.

Sentinel Chickens

No seroconversions have been reported in 2023.

2022 & 2023 YTD West Nile Virus Comparisons		
	2022	2023
Total No. Dead Bird Reports	2,480	2,772
No. Positive Counties	20	17
No. Human Cases	0	0
No. Positive Dead Birds / No. Tested	20 / 611	65 / 607
No. Positive Mosquito Pools / No. Tested	222 / 12,548	283 / 19,332
No. Seroconversions / No. Tested	0 / 1,838	0 / 1,370

California Arbovirus Surveillance Bulletin #13
Week 27 Friday, July 7, 2023

YTD WNV Activity by Element and County, 2023					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			2	1	
Butte				1	
Fresno				1	
Kern				10	
Kings				5	
Los Angeles			9	26	
Merced				1	
Placer			3	14	
Riverside			4		
Sacramento			25	50	
San Joaquin			3	80	
Santa Clara			12		
Solano			1	2	
Stanislaus				19	
Tulare			2	58	
Ventura			3		
Yolo			1	15	
Totals	0	0	65	283	0

TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	0	1	0
	YTD	0	1	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	14 / 53					
	YTD	65 / 607					
Chicken Sera	Week	0 / 110	0 / 110	0 / 110			
	YTD	0 / 1,370	0 / 1,370	0 / 1,370			
Mosquito Pools	Week	135 / 2,077	25 / 1,997	0 / 1,997	0 / 8	0 / 8	0 / 8
	YTD	283 / 19,332	49 / 18,968	0 / 18,967	0 / 160	0 / 160	0 / 160

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	Mourning Dove	6/29/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	California Scrub-Jay	6/29/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	California Scrub-Jay	7/4/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	House Finch	6/29/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/28/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	American Crow	6/29/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	American Crow	6/29/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	American Crow	6/30/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	American Crow	7/3/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	American Crow	7/5/2023	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95139	House Sparrow	6/26/2023	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93063	Cooper's Hawk	6/20/2023	WNV
Ventura	Ventura Co Env Health Dept	Thousand Oaks	91360	House Finch	6/19/2023	WNV
Ventura	Ventura Co Env Health Dept	Ventura	93003	American Crow	6/21/2023	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Fresno	CNSL 1087	142	Cx tarsalis	Fresno	50	CO2	6/27/2023	WNV
Kern	KERN 2002	936	Cx quinquefasciatus	Bakersfield	50	GRVD	6/30/2023	WNV
Kern	KERN 2012	945	Cx quinquefasciatus	Bakersfield	27	CO2	6/30/2023	SLEV
Kern	KERN 3011	931	Cx tarsalis	Bakersfield	34	CO2	6/29/2023	WNV
Kern	KERN 3013	918	Cx tarsalis	Bakersfield	50	CO2	6/29/2023	SLEV
Kern	KERN 3027	874	Cx tarsalis	Arvin	50	CO2	6/27/2023	SLEV
Kern	KERN 3031	866	Cx tarsalis	Shafter	50	CO2	6/27/2023	WNV
Kings	KNGS 3062	180	Cx tarsalis	Lemoore	50	CO2	6/28/2023	WNV
Kings	KNGS 3083	165	Cx tarsalis	Lemoore	50	CO2	6/28/2023	WNV
Kings	KNGS 8038	174	Cx tarsalis	Lemoore	50	CO2	6/28/2023	WNV
Kings	KNGS 9005	160	Cx tarsalis	Nas Lemoore	50	CO2	6/28/2023	WNV
Kings	KNGS 9005	162	Cx tarsalis	Nas Lemoore	50	CO2	6/28/2023	WNV
Los Angeles	GRLA 3036	5337	Cx quinquefasciatus	Canoga Park	50	GRVD	6/29/2023	WNV
Los Angeles	SGVA 1000	267	Cx quinquefasciatus	Azusa	50	GRVD	7/6/2023	WNV
Los Angeles	SGVA 1216	271	Cx quinquefasciatus	Covina	50	GRVD	7/6/2023	WNV
Los Angeles	SGVA 1281	276	Cx quinquefasciatus	Covina	50	GRVD	7/6/2023	WNV
Los Angeles	SGVA 508	278	Cx quinquefasciatus	Covina	50	GRVD	7/6/2023	WNV
Los Angeles	SGVA 62	263	Cx quinquefasciatus	Covina	50	GRVD	7/6/2023	WNV
Placer	PLCR 1113	514	Cx tarsalis	Pleasant Grove	50	CO2	7/4/2023	WNV
Placer	PLCR 1113	515	Cx tarsalis	Pleasant Grove	50	CO2	7/4/2023	WNV
Placer	PLCR 1113	516	Cx tarsalis	Pleasant Grove	50	CO2	7/4/2023	WNV
Placer	PLCR 1113	517	Cx tarsalis	Pleasant Grove	50	CO2	7/4/2023	WNV
Placer	PLCR 1113	518	Cx tarsalis	Pleasant Grove	50	CO2	7/4/2023	WNV
Placer	PLCR 197802	473	Cx tarsalis	Elverta	50	CO2	7/4/2023	WNV
Placer	PLCR 25	502	Cx tarsalis	Lincoln	50	CO2	7/4/2023	WNV
Placer	PLCR 30	487	Cx pipiens	Lincoln	42	CO2	7/4/2023	WNV
Placer	PLCR 30	488	Cx tarsalis	Lincoln	35	CO2	7/4/2023	WNV
Placer	PLCR 678519	512	Cx tarsalis	Elverta	50	CO2	7/4/2023	WNV
Riverside	COAV 0	3433	Cx tarsalis	Indio	41	CO2	7/7/23	SLEV
Riverside	COAV 0	3442	Cx tarsalis	Indio	50	CO2	7/7/23	SLEV
Riverside	COAV 0	3443	Cx tarsalis	Indio	50	CO2	7/7/23	SLEV
Riverside	COAV 0	3444	Cx tarsalis	Indio	50	CO2	7/7/23	SLEV
Riverside	COAV 0	3445	Cx tarsalis	Indio	50	CO2	7/7/23	SLEV
Riverside	COAV 0	3446	Cx tarsalis	Indio	32	CO2	7/7/23	SLEV
Riverside	COAV 0	3448	Cx tarsalis	Indio	39	CO2	7/7/23	SLEV
Riverside	COAV 0	3450	Cx quinquefasciatus	Indio	50	CO2	7/7/23	SLEV
Riverside	COAV 130	3413	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Riverside	COAV 130	3415	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Riverside	COAV 130	3416	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV

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Riverside	COAV 131	3471	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Riverside	COAV 131	3472	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Riverside	COAV 2	3344	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Riverside	COAV 2	3346	Cx tarsalis	Oasis	24	CO2	7/6/2023	SLEV
Riverside	COAV 34	3348	Cx tarsalis	Mecca	10	CO2	7/6/2023	SLEV
Riverside	COAV 37	3500	Cx tarsalis	Mecca	50	CO2	7/6/2023	SLEV
Riverside	COAV 45	3435	Cx tarsalis	Mecca	27	CO2	7/7/23	SLEV
Riverside	COAV 5	3342	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Riverside	COAV 56	3440	Cx tarsalis	North Shore	49	CO2	7/7/23	SLEV
Riverside	COAV 6	3530	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Riverside	COAV 610	3422	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Sacramento	SAYO 204020	2236	Cx tarsalis	Sacramento	6	CO2	7/5/2023	WNV
Sacramento	SAYO 204020	2245	Cx pipiens	Sacramento	35	GRVD	7/5/2023	WNV
Sacramento	SAYO 204043	2219	Cx tarsalis	Citrus Heights	50	CO2	7/5/2023	WNV
Sacramento	SAYO 213017	2190	Cx pipiens	Sacramento	50	GRVD	7/5/2023	WNV
Sacramento	SAYO 214011	1999	Cx pipiens	Fair Oaks	50	CO2	6/30/2023	WNV
Sacramento	SAYO 223006	2194	Cx pipiens	South Watt Avenue	7	CO2	7/5/2023	WNV
Sacramento	SAYO 223019	2214	Cx pipiens	Sacramento	41	GRVD	7/5/2023	WNV
Sacramento	SAYO 223035	1944	Cx pipiens	Sacramento	50	CO2	6/30/2023	WNV
Sacramento	SAYO 223041	1887	Cx pipiens	Sacramento	28	CO2	6/30/2023	WNV
Sacramento	SAYO 223041	1888	Cx tarsalis	Sacramento	24	CO2	6/30/2023	WNV
Sacramento	SAYO 233009	2091	Cx pipiens	Elk Grove	50	GRVD	7/5/2023	WNV
Sacramento	SAYO 233016	2050	Cx pipiens	Sacramento	7	CO2	7/5/2023	WNV
Sacramento	SAYO 233054	1802	Cx pipiens	Sacramento	50	CO2	6/30/2023	WNV
Sacramento	SAYO 233054	1804	Cx tarsalis	Sacramento	50	CO2	6/30/2023	WNV
Sacramento	SAYO 233054	1805	Cx tarsalis	Sacramento	30	CO2	6/30/2023	WNV
Sacramento	SAYO 233054	1807	Cx tarsalis	Sacramento	16	GRVD	6/30/2023	WNV
Sacramento	SAYO 271007	1991	Cx tarsalis	Isleton	50	CO2	6/30/2023	WNV
Sacramento	SAYO 316491	1730	Cx tarsalis	Sacramento	14	BGSENT	6/29/2023	WNV
Sacramento	SAYO 393834	1719	Cx tarsalis	Sacramento	2	BGSENT	6/29/2023	WNV
Sacramento	SAYO 394265	2007	Cx tarsalis	Sacramento	4	BGSENT	7/1/2023	WNV
Sacramento	SAYO 394970	1721	Cx tarsalis	Sacramento	6	BGSENT	6/29/2023	WNV
Sacramento	SAYO 401546	1778	Cx pipiens	Sacramento	50	BGSENT	6/29/2023	WNV
Sacramento	SAYO 401546	1779	Cx pipiens	Sacramento	5	BGSENT	6/29/2023	WNV
Sacramento	SAYO 402005	1750	Cx tarsalis	Sacramento	42	BGSENT	6/29/2023	WNV
Sacramento	SAYO 402059	1763	Cx pipiens	Sacramento	32	BGSENT	6/29/2023	WNV
Sacramento	SAYO 405087	1725	Cx tarsalis	Sacramento	49	BGSENT	6/29/2023	WNV
Sacramento	SAYO 405397	1714	Cx pipiens	Sacramento	19	BGSENT	6/29/2023	WNV
Sacramento	SAYO 405397	1715	Cx tarsalis	Sacramento	17	BGSENT	6/29/2023	WNV
Sacramento	SAYO 409686	1748	Cx tarsalis	Sacramento	32	BGSENT	6/29/2023	WNV
Sacramento	SAYO 409955	1757	Cx pipiens	Sacramento	24	BGSENT	6/29/2023	WNV
Sacramento	SAYO 410139	1773	Cx tarsalis	Sacramento	41	BGSENT	6/29/2023	WNV
San Joaquin	SJCM 8003	1147	Cx tarsalis	Tracy	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8008	1104	Cx tarsalis	Manteca	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8008	1105	Cx tarsalis	Manteca	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8008	1106	Cx tarsalis	Manteca	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8008	1108	Cx tarsalis	Manteca	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8010	1157	Cx tarsalis	Ripon	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8010	1158	Cx tarsalis	Ripon	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8010	1159	Cx tarsalis	Ripon	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8025	1162	Cx tarsalis	Stockton	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8029	1255	Cx pipiens	Farmington	50	CO2	7/7/2023	WNV
San Joaquin	SJCM 8048	1240	Cx tarsalis	Stockton	50	CO2	7/7/2023	WNV
San Joaquin	SJCM 8056	1203	Cx tarsalis	Manteca	100	FAYPRINCE	7/5/2023	WNV
San Joaquin	SJCM 8056	1205	Cx tarsalis	Manteca	80	FAYPRINCE	7/5/2023	WNV
San Joaquin	SJCM 8077	1093	Cx tarsalis	Stockton	50	FAYPRINCE	7/5/2023	WNV
San Joaquin	SJCM 8083	1100	Cx tarsalis	Escalon	48	FAYPRINCE	7/5/2023	WNV
San Joaquin	SJCM 8094	1068	Cx tarsalis	Manteca	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8100	1150	Cx tarsalis	Tracy	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8100	1151	Cx tarsalis	Tracy	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8100	1155	Cx pipiens	Tracy	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8100	1156	Cx pipiens	Tracy	55	CO2	7/5/2023	WNV

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San Joaquin	SJCM 8160	1133	Cx tarsalis	Lodi	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8161	1114	Cx tarsalis	Ripon	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8161	1115	Cx tarsalis	Ripon	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8161	1116	Cx tarsalis	Ripon	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8161	1117	Cx tarsalis	Ripon	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8161	1118	Cx tarsalis	Ripon	21	CO2	7/5/2023	WNV
San Joaquin	SJCM 8161	1119	Cx pipiens	Ripon	34	CO2	7/5/2023	WNV
San Joaquin	SJCM 8205	1239	Cx pipiens	Farmington	37	CO2	7/7/2023	WNV
San Joaquin	SJCM 8211	1078	Cx tarsalis	Stockton	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8219	1179	Cx tarsalis	Stockton	100	CO2	7/5/2023	WNV
San Joaquin	SJCM 8219	1186	Cx tarsalis	Stockton	100	CO2	7/5/2023	WNV
San Joaquin	SJCM 8222	1245	Cx tarsalis	Stockton	50	CO2	7/7/2023	WNV
San Joaquin	SJCM 8222	1246	Cx tarsalis	Stockton	50	CO2	7/7/2023	WNV
San Joaquin	SJCM 8222	1247	Cx tarsalis	Stockton	13	CO2	7/7/2023	WNV
San Joaquin	SJCM 8222	1248	Cx pipiens	Stockton	14	CO2	7/7/2023	WNV
San Joaquin	SJCM 8233	1172	Cx tarsalis	Stockton	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8248	1139	Cx pipiens	Tracy	50	CO2	7/5/2023	WNV
Solano	SOLA 27	140	Cx tarsalis	Dixon	18	CO2	7/6/2023	WNV
Solano	SOLA 38	143	Cx tarsalis	Dixon	50	CO2	7/6/2023	WNV
Stanislaus	TRLK 1209	892	Cx pipiens	Ceres	50	CO2	7/6/2023	WNV
Stanislaus	TRLK 1209	897	Cx tarsalis	Ceres	50	CO2	7/6/2023	WNV
Stanislaus	TRLK 1214	903	Cx pipiens	Turlock	46	CO2	7/6/2023	WNV
Stanislaus	TRLK 1308	911	Cx tarsalis	Turlock	40	CO2	7/6/2023	WNV
Stanislaus	TRLK 1309	931	Cx pipiens	Hughson	50	CO2	7/6/2023	WNV
Stanislaus	TRLK 1312	887	Cx pipiens	Ceres	45	CO2	7/6/2023	WNV
Stanislaus	TRLK 17152	912	Cx pipiens	Denair	50	CO2	7/6/2023	WNV
Stanislaus	TRLK 1906	926	Cx pipiens	Hughson	29	CO2	7/6/2023	WNV
Stanislaus	TRLK 410	899	Cx tarsalis	Ceres	39	CO2	7/6/2023	WNV
Tulare	DLTA 6420	3610	Cx quinquefasciatus	Dinuba	26	BGSENT	6/23/2023	WNV
Tulare	DLTA 8414	3658	Cx quinquefasciatus	Visalia	48	BGSENT	6/23/2023	WNV
Tulare	DLTA 8423	3641	Cx quinquefasciatus	Visalia	50	BGSENT	6/23/2023	WNV
Tulare	DLTA 8427	3797	Cx quinquefasciatus	Visalia	28	GRVD	6/28/2023	WNV
Tulare	DLTA 84344	3662	Cx quinquefasciatus	Visalia	27	BGSENT	6/23/2023	WNV
Tulare	DLTA 84363	3568	Cx quinquefasciatus	Visalia	50	BGSENT	6/22/2023	WNV
Tulare	DLTA 8519	3709	Cx quinquefasciatus	Visalia	50	BGSENT	6/27/2023	WNV
Tulare	DLTA 8520	3501	Cx quinquefasciatus	Visalia	38	GRVD	6/22/2023	WNV
Tulare	DLTA 8520	3678	Cx quinquefasciatus	Visalia	18	GRVD	6/27/2023	WNV
Tulare	DLTA 8520	3832	Cx quinquefasciatus	Visalia	50	BGSENT	6/28/2023	WNV
Tulare	DLTA 8521	3722	Cx quinquefasciatus	Visalia	50	BGSENT	6/27/2023	WNV
Tulare	DLTA 8529	3759	Cx quinquefasciatus	Visalia	50	GRVD	6/27/2023	WNV
Tulare	DLTA 85301	3717	Cx quinquefasciatus	Visalia	50	GRVD	6/27/2023	WNV
Tulare	DLTA 85304	3640	Cx quinquefasciatus	Visalia	28	BGSENT	6/23/2023	WNV
Tulare	DLTA 8532	3798	Cx quinquefasciatus	Visalia	22	GRVD	6/28/2023	WNV
Tulare	DLTA 8536	3691	Cx quinquefasciatus	Farmersville	15	BGSENT	6/27/2023	WNV
Tulare	DLTA 9504	3747	Cx quinquefasciatus	Visalia	50	GRVD	6/27/2023	WNV
Tulare	DLTA 9505	3545	Cx quinquefasciatus	Visalia	30	BGSENT	6/22/2023	WNV
Tulare	DLTA 9607	3687	Cx quinquefasciatus	Farmersville	36	GRVD	6/27/2023	WNV
Tulare	DLTA 9607	3782	Cx tarsalis	Farmersville	41	BGSENT	6/27/2023	WNV
Yolo	SAYO 103007	2129	Cx pipiens	Dunnigan	50	GRVD	7/5/2023	WNV
Yolo	SAYO 135005	1863	Cx pipiens	Woodland	26	GRVD	6/30/2023	WNV
Yolo	SAYO 135016	1838	Cx tarsalis	Woodland	50	CO2	6/30/2023	WNV
Yolo	SAYO 136010	2098	Cx tarsalis	Woodland	50	CO2	7/5/2023	WNV
Yolo	SAYO 136010	2099	Cx tarsalis	Woodland	50	CO2	7/5/2023	WNV
Yolo	SAYO 136010	2101	Cx tarsalis	Woodland	50	CO2	7/5/2023	WNV
Yolo	SAYO 136010	2102	Cx tarsalis	Woodland	50	CO2	7/5/2023	WNV
Yolo	SAYO 145030	2145	Cx pipiens	Davis	26	CO2	7/5/2023	WNV
Yolo	SAYO 146002	2105	Cx pipiens	Davis	17	CO2	7/5/2023	WNV
Yolo	SAYO 146002	2108	Cx tarsalis	Davis	50	CO2	7/5/2023	WNV
Yolo	SAYO 146003	2159	Cx tarsalis	Davis	50	CO2	7/5/2023	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.

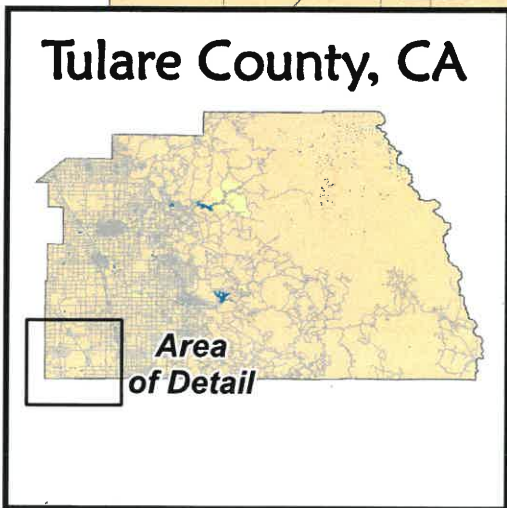
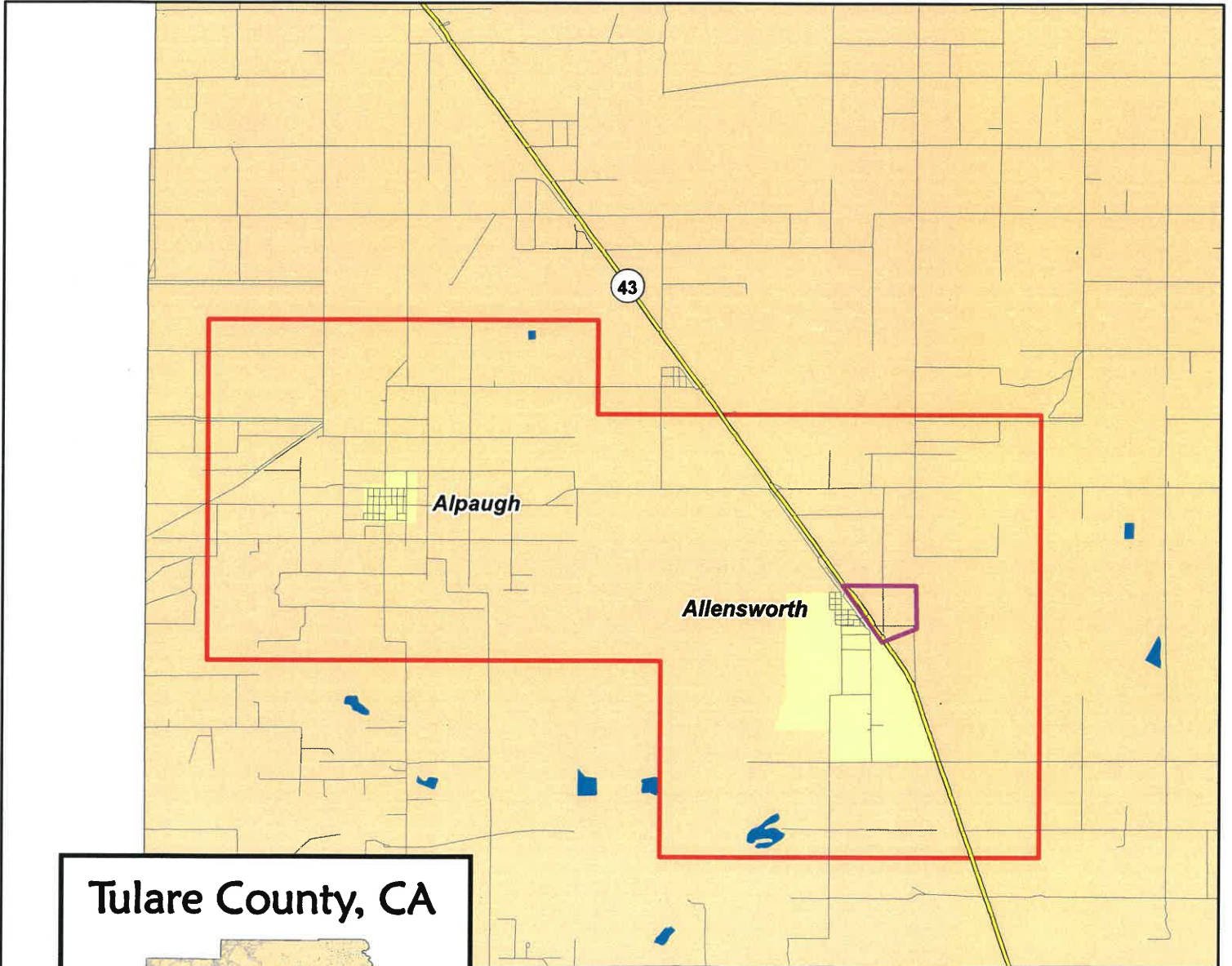
Website Information: For updated information on WNV in California, please visit the California WNV website, <https://westnile.ca.gov>, or the California Vector-Borne Disease Surveillance System website, <https://maps.vectorsurv.org>.

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

Tulare County, CA

-  No Spray Area
-  Treatment Area

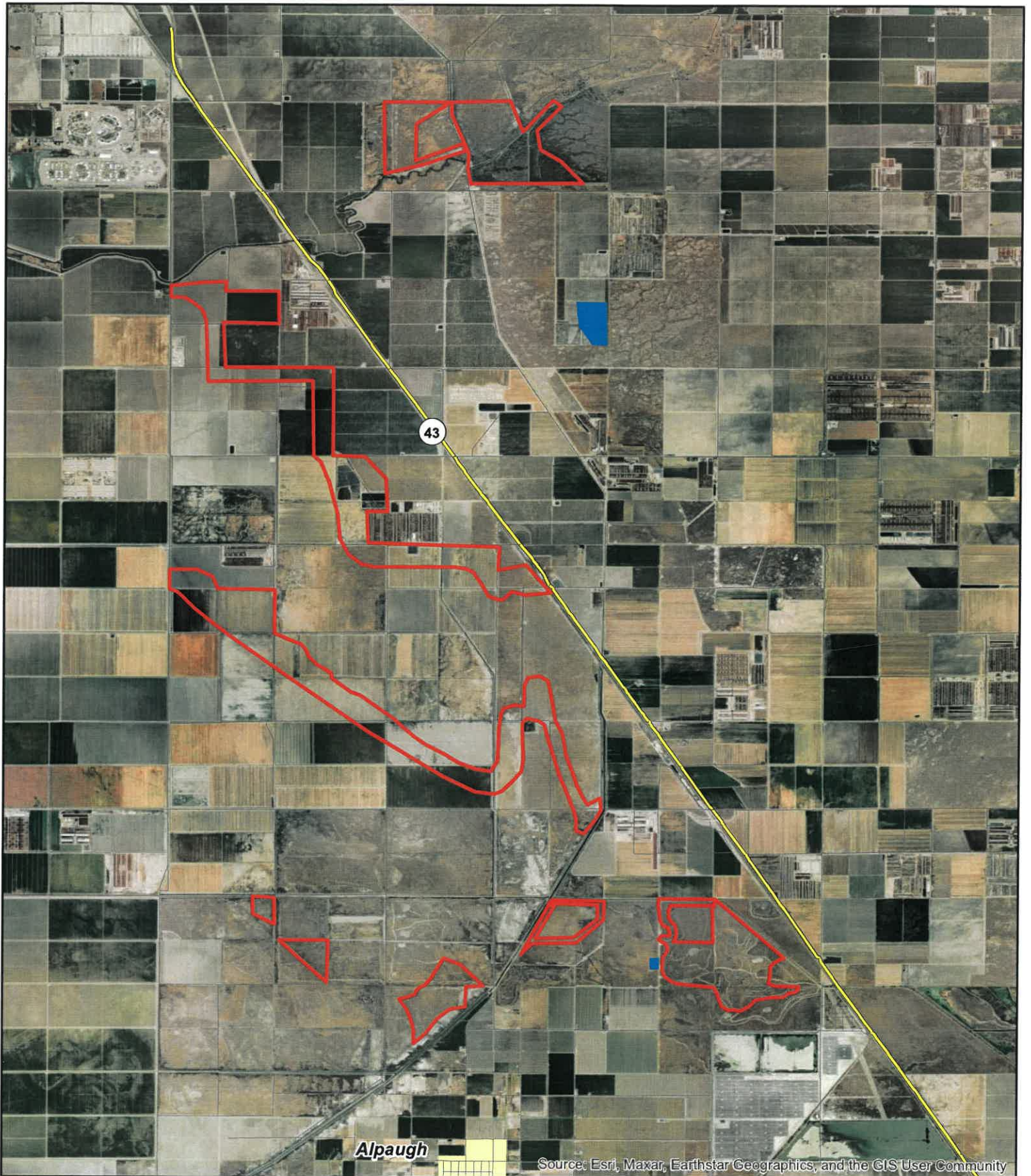
Proposed Treatment Area - 34,908 acres



Proposed approximately 2 mile radius around the towns of Alpaugh and Allensworth.

Tulare County, CA

 Treatment Area



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community