Regular Meeting #801
Northwest Mosquito and Vector Control District
November 19, 2026

AGENDA

REGULAR MEETING #801

NORTHWEST MOSQUITO AND VECTOR CONTROL DISTRICT

1966 COMPTON AVENUE, CORONA, CA 92881

Thursday, November 19, 2026

Trustee Silva will be attending remotely from the City of Jurupa Valley City Hall, 8930 Limonite Ave. Jurupa Valley, CA 92509. Members of the public may attend the meeting at this location. A copy of this agenda is posted at City of Jurupa Valley City Hall.

1. **Call to Order:** 3:00 PM
2. **Pledge of Allegiance:** Trustee Tisdale
3. **Roll Call/Introductions:**
4. **Public Comments:** This is the time when person(s) in the audience who wish to directly address the Board regarding items listed on this agenda or other items within the subject matter jurisdiction of the Board may speak. If your comments pertain to a specific agenda item, please identify the agenda item. A member of the public will be allowed up to three minutes to address the Board (six minutes if the individual providing comment utilizes a translator). Individuals may not share their time with another speaker. Written public comments received by the District will not be read aloud unless a member of the public chooses to utilize their speaking time to read a written comment.
5. **Consent Calendar:** All items under the Consent Calendar are considered routine and may be enacted by one motion unless a request is made that an item be removed from the Consent Calendar for consideration by a separate action.

   A. Minutes of Regular Meeting No. 800, October 15, 2026

   B. October 2026 Operational Report/Field Activities

   C. October 2026 Laboratory Report

   D. October 2026 Treasures Dashboard Report

E. 2027 Pay and Holiday Schedule

6. **Presentations:**
   A. None
7. **Closed Session:**
   A. None
8. **Action Items:**
   A. Ad Hoc Committee Findings and Recommendations Regarding Board Meeting Procedures, Trustee Attendance, Monthly Allowance, and Officer Elections
   B. Election & Installation of Officers for 2027
9. **Reports:**
   A. Trustees:
   B. District Manager:
   C. Staff:
10. **Informational Items:**
    A. None
11. **Other Business:**
    A. Requests for future agenda items
12. **Adjournment:** The next meeting will be Thursday, January 21, 2027, at 3:00 PM, located at 1966 Compton Avenue, Corona, California.

NOTICES

Americans with Disabilities Act: It is the intent of the Northwest Mosquito and Control District (NWMVCD) to comply with all applicable aspects of the Americans with Disabilities Act. If you need a modification or accommodation to participate in a Board of Trustees meeting due to a disability, including but not limited to auxiliary aids or services and provision of the agenda and agenda packet in alternative formats, please contact the District at (951) 340-9792 at least 48 hours prior to the meeting. NWMVCD will attempt to reasonably accommodate your request.

Agenda Materials: This agenda, the staff reports and other documents constituting the agenda packet, and any additional public records distributed to the Board related to an open session

agenda item after the agenda packet is published are available for inspection by members of the public at 1966 Compton Avenue, Corona, California during the hours of 8:00 AM to 3:00 PM, Monday through Friday after the agenda is posted.

Written Comments: In addition to the opportunity to provide verbal public comment during the meeting, members of the public may submit public comments on any agenda item or non-agenda items within the subject matter jurisdiction of the Board in writing by mail, e-mail, or personal delivery. Mailed and e-mailed public comments must be received two hours before the start of the meeting to be entered into the record of the meeting. Mailed or personally delivered written public comment may be sent or personally delivered to the District's office at 1966 Compton Avenue, Corona, CA 92881. E-mailed public comments may be sent to board@northwestmvcd.org.

Minutes for Regular Board of Trustees Meeting #800

Board of Trustees

Northwest Mosquito and Vector Control District

Time: 3:00 PM, Thursday, October 15th, 2026

Place: Northwest Mosquito and Vector Control District

1966 Compton Avenue, Corona, CA 92881

Zoom Teleconference Meeting ID: 389 155 8737

Trustees Present:	Nancy Jimenez.	Corona	Board President
	Steven Su, Ph.D.	Riverside County	Board Secretary
	Clint Lorimore	Eastvale	Trustee
	Brian Tisdale	Lake Elsinore	Trustee
	Gregory Bowen	Norco	Trustee
	Dale Welty	Canyon Lake	Trustee
	Philip Falcone	Riverside	Trustee
Trustees Absent:	Dale Welty	Canyon Lake	Trustee
	Guillermo Silva	Jurupa Valley	Board Vice President

Staff Present: Nikia Smith, Interim Assistant District Manager/ Director of Operations (DOO) Chloe Wang, Ph. D., Director of Scientific Programs (DOSP), Eric Ballejos, Director of Administration (DOA), Alexa Christopher, Communications Specialist

Others Present: Erica Vega-District Counsel, Boardroom, Counsel, Eastvale, Emanuela Tala, Riverside, Teamsters, TEAMSTERS

1. Call to order:

Board President Nancy Jiménez called the meeting to order at 3:09 PM.

2. Pledge of Allegiance:

The Pledge of Allegiance was led by Trustee Falcone.

3. Roll call and introductions:

At the time of roll call, Trustees Jiménez, Su, Tisdale, Lorimore, Bowen, Falcone, and staff members Nikia Smith, Chloe Wang, Eric Ballejos, Alexa Christopher, and Erica Vega, District Counsel, were present.

4. Public comments:

None

5. Consent Calendar:

Motion by Trustee Su to approve all items on the Consent Calendar; seconded by Trustee Tisdale. Passed unanimously by roll call vote as follows: yes, by Trustees Jimenez, Su, Tisdale, Lorimore, Bowen, and Falcone,

6. Presentation:

None

7. Closed Session Items:

The board entered Closed Session on all three items at 3:12 PM

A. Conference with Legal Counsel-Existing Litigation (Gov't Code § 54965.9(d)(1))

Case: Hopkins/ Northwest Mosquito & Vector Control District (CRD Case No. 202506-29918919)

B. Public Employee Performance Evaluation (Gov't Code § 54957)

Position: District Manager

C. Conference with Labor Negotiators (Gov't Code § 54957.6)

District Representative: Erica Vega, Legal Counsel

Unrepresented Employee: District Manager

The board reconvened into Open Session at 4:20 PM. For Items #7. A, there is no reportable action. For Closed Session Items #7.B and #7.C, a motion to grant a 4% increase to the District Manager's salary, effective July 12, 2026, corresponding with the first pay period of FY26-27, and authorize the Board President to execute an amendment to the District Manager's

employment agreement. This motion was set by Trustee Tisdale and seconded by Trustee Su and was approved unanimously by a roll call vote.

8. Action Items:

A. Discuss and provide direction to staff regarding the inclusion of virtual meeting access information on future Board of Trustees meeting agendas.

Action: A motion from the board to have staff provide virtual meeting access information when a qualifying request is anticipated before the agenda is posted. This motion was set by Trustee Jiménez and seconded by Trustee Tisdale. This motion passed with Trustees Bowen, Lorimore, Su, Jiménez, and Tisdale voting yes. Trustee Falcone voted no on the motion.

B. Resolution 613 Amending Resolution 606 to Extend District Manager's Temporary Modified Work Schedule During Military Leave.

Action: A motion to amend Resolution 606 with Resolution 613 was made by Trustee Tisdale and seconded by Trustee Falcone. Resolution 613 was passed by unanimous roll-call vote.

9. Reports:

Trustees: Trustee Tisdale wanted to make sure everyone stayed safe with high winds in the forecast.

Trustee Jiménez requested a “soundbite” to share District updates with city councils.

District Manager: Interim Assistant District Manager/DOO Nikia Smith gave a brief update on increased abundance from recent rain and heat patterns. All other local agencies are reporting similar trends within their respective jurisdiction.

Staff: None

10. Informational:

None

11. Other Business:

None

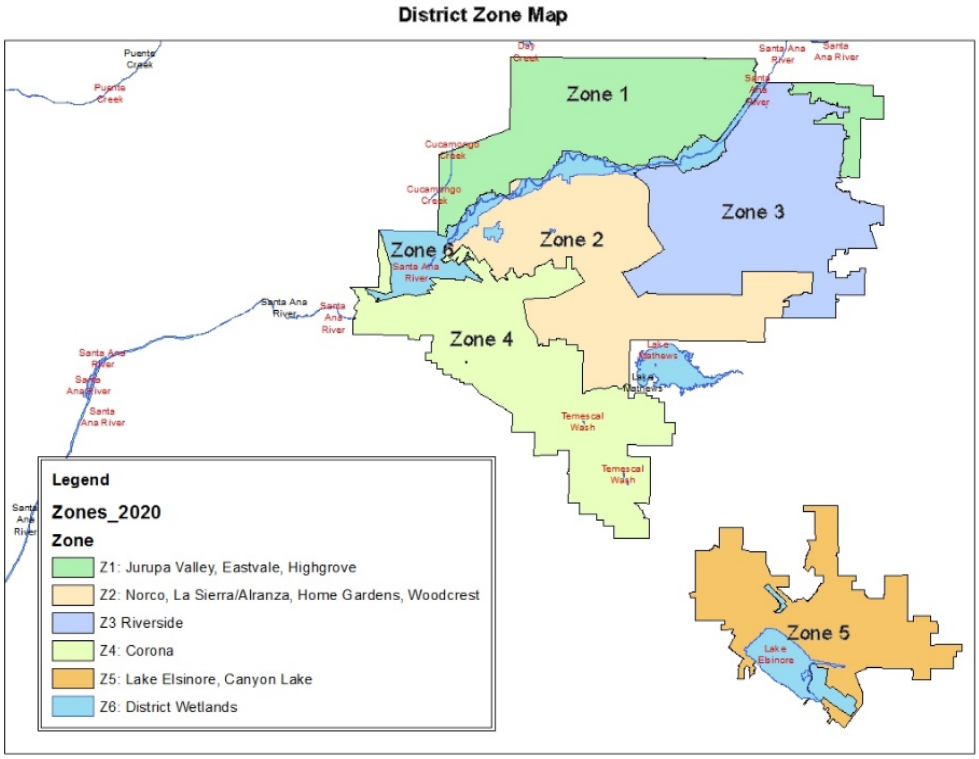
12. Adjournment:

The meeting was adjourned by Board President Nancy Jiménez at 4:41 PM. The next scheduled meeting will be on November 19th, 2026, at 3:00 PM, in the District Boardroom.

OPERATIONS REPORT
October 2026
Nikia Smith
Director of Operations

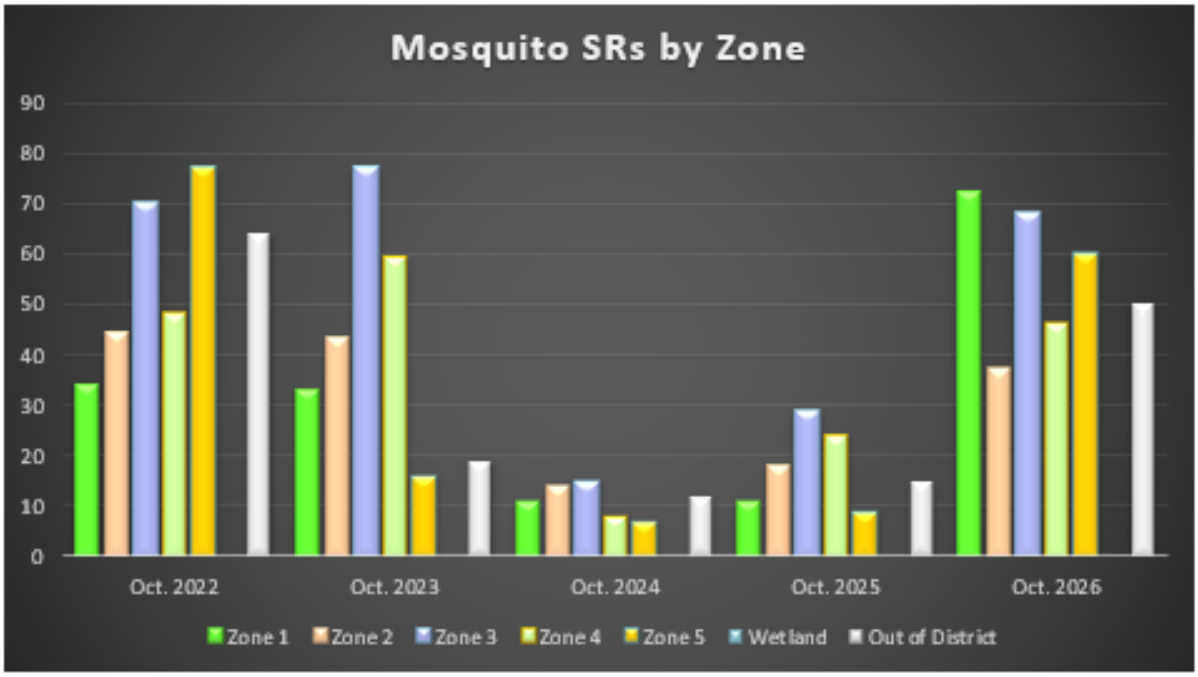
Service Requests

In October, a total of 435 service requests (SRs) were received, representing a 106% increase compared with the 211 requests reported during the same month last year. The increase was driven primarily by mosquito-related concerns, which rose from 106 requests in October 2025 to 333 in October 2026, a 214% increase. Mosquito-related requests accounted for approximately 77% of all SRs received. Rodent-related requests remained unchanged at 26, while bee-related requests decreased from 47 to 38. Other concerns, including mosquito fish and flies, accounted for the remaining 38 requests.



Mosquito SR by Zone

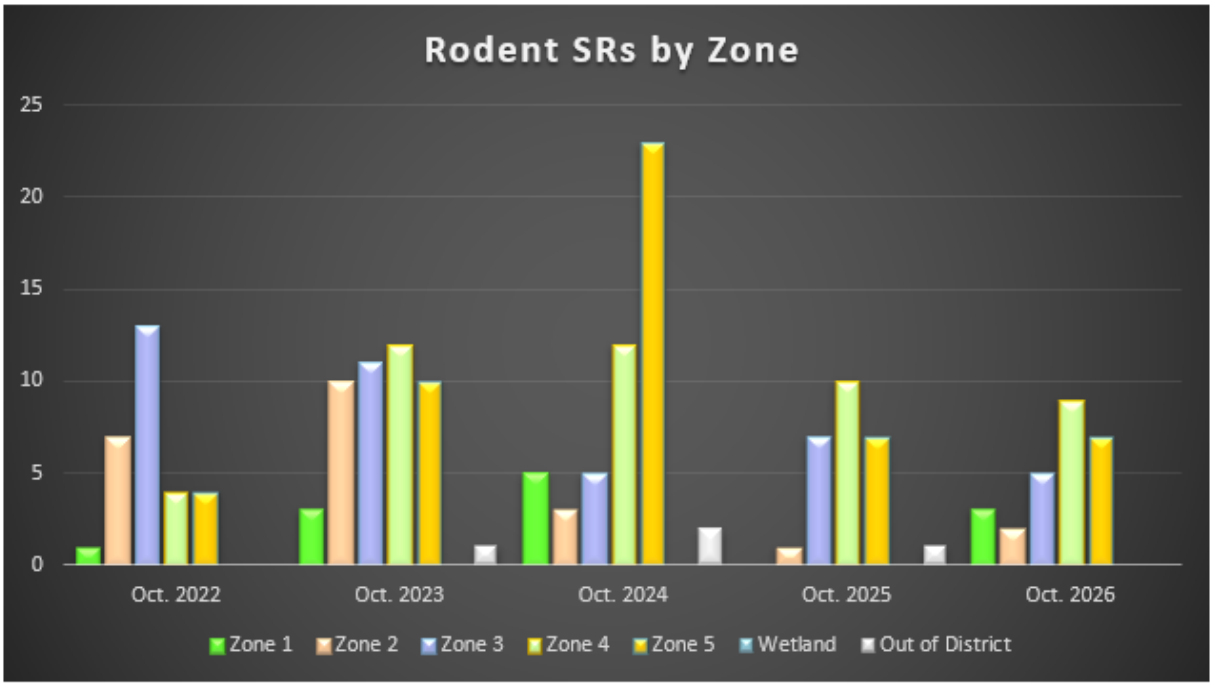
Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Wetland	Out of District	Totals
Oct. 2022	34	44	70	48	77	0	64	337
Oct. 2023	33	43	77	59	16	0	19	247
Oct. 2024	11	14	15	8	7	0	12	67
Oct. 2025	11	18	29	24	9	0	15	106
Oct. 2026	72	37	68	46	60	0	50	333
Total	161	156	259	185	169	0	160	1090
% of calls received	15%	14%	24%	17%	16%	0%	15%	



Mosquito-related service requests were approximately 53% above the five-year October average of 218 requests for 2022–2026. Call volume was the second highest during that period, slightly below the 337 requests recorded in October 2022. Geographically, mosquito-related concerns were concentrated primarily in Zone 1, with 72 requests, followed by Zone 3 with 68 and Zone 5 with 60.

Rodent SR by Zone

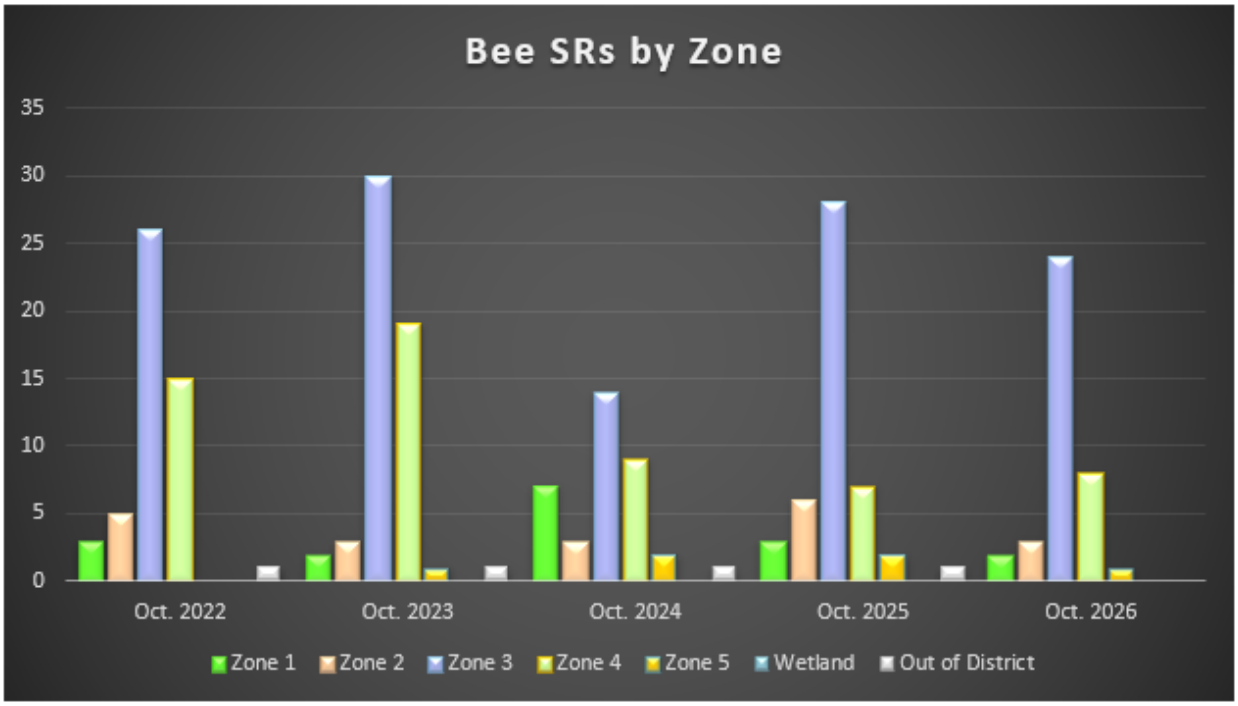
Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Wetland	Out of District	Totals
Oct. 2022	1	7	13	4	4	0	0	29
Oct. 2023	3	10	11	12	10	0	1	47
Oct. 2024	5	3	5	12	23	0	2	50
Oct. 2025	0	1	7	10	7	0	1	26
Oct. 2026	3	2	5	9	7	0	0	26
Total	12	23	41	47	51	0	4	178
% of calls received	7%	13%	23%	26%	29%	0%	2%	



Rodent-related service requests were approximately 27% below the five-year October average of 36 requests for 2022–2026. Call volume remained below the levels recorded in October 2022, 2023, and 2024. Requests were concentrated primarily in Zone 4, with nine, followed by Zone 5 with seven.

Bee SR by Zone

Year	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Wetland	Out of District	Totals
Oct. 2022	3	5	26	15	0	0	1	50
Oct. 2023	2	3	30	19	1	0	1	56
Oct. 2024	7	3	14	9	2	0	1	36
Oct. 2025	3	6	28	7	2	0	1	47
Oct. 2026	2	3	24	8	1	0	0	38
Total	17	20	122	58	6	0	4	227
% of calls received	7%	9%	54%	26%	3%	0%	2%	



Bee-related service requests were approximately 16% below the five-year October average of 45 requests for 2022–2026. Concerns remained concentrated primarily in Zones 3 and 4, which recorded 24 and eight requests, respectively, and together accounted for approximately 84% of October's bee-related requests.

Source Inspections & Treatments

In October 2026, District staff conducted 6,321 inspections and recorded 1,206 treatments, covering approximately 232 acres. Field staff reported continued mosquito breeding across several operational areas, requiring ongoing surveillance, source reduction, and larval control. Personnel were adjusted to support areas with increased activity, and targeted adult mosquito-control operations were conducted.

Zone 1 – Eastvale and Jurupa Valley

In Zone 1, staff conducted 702 inspections and recorded 150 treatments during October. Inspections focused on catch basins, curb and gutter systems, stormwater management facilities, irrigation ponding, and ditches. The technician reported continued elevated breeding activity for this time of year.

Zone 1 received the highest number of mosquito-related service requests during the month. Additional support was provided by technicians from zones experiencing lower virus activity and service-request volume to assist with inspections and control efforts.

The technician continued coordinating with the Jurupa Valley school district to inspect several schools and the district office in response to mosquito complaints. On October 23, an adult ultra-low-volume (ULV) mosquito-control application was completed in the residential neighborhoods surrounding 68th Street and Hamner Avenue in response to West Nile virus (WNV)-positive mosquito collections.

Zone 2 – Norco and Western Riverside

In Zone 2, staff conducted 931 inspections and recorded 185 treatments during October. Inspections included curb and gutter systems, catch basins, ornamental fountains, irrigation ponding, and ditches. The technician reported sustained mosquito breeding throughout the month.

The technician reported public works and flood-control crews increased cleanout efforts within drainage and flood-control systems in preparation for anticipated winter rains. Although many of these systems continued producing mosquitoes, the maintenance improved access and made inspections and treatments easier to complete.

Zone 3 – City of Riverside

In Zone 3, staff conducted 2,280 inspections and recorded 470 treatments during October, representing the district’s highest inspection and treatment workload. Inspections remained concentrated in curb and gutter systems, catch basins, ditches, stormwater management facilities, and ornamental water features.

The zone continued to experience elevated breeding activity and service requests. Additional personnel were redirected from areas experiencing lower mosquito and WNV activity to assist with inspections and control efforts. On October 29, an adult ULV mosquito-control application was completed in the residential neighborhood west of Magnolia Avenue, between Sierra Street and Jurupa Avenue, to reduce adult mosquito populations. Staff will continue monitoring the area and adjusting response activities as needed.

Zone 4 – City of Corona

In Zone 4, staff conducted 915 inspections and recorded 212 treatments during October. The technician continued to find steady mosquito breeding within the zone. Inspections and control activities focused on curb and gutter systems, catch basins, stormwater management facilities, ditches, and storm-drain outlets.

Zone 5 – Lake Elsinore and Canyon Lake

In Zone 5, staff conducted 985 inspections and recorded 140 treatments during October. Inspections focused primarily on catch basins, stormwater management facilities, ditches, street drains, and irrigation ponding. Major cleanup efforts were also reported within the flood-control channel system extending from Lake Elsinore toward Temescal Wash in preparation for anticipated seasonal rains.



Vegetation Removal Efforts in Lake Elsinore Flood Control Channels

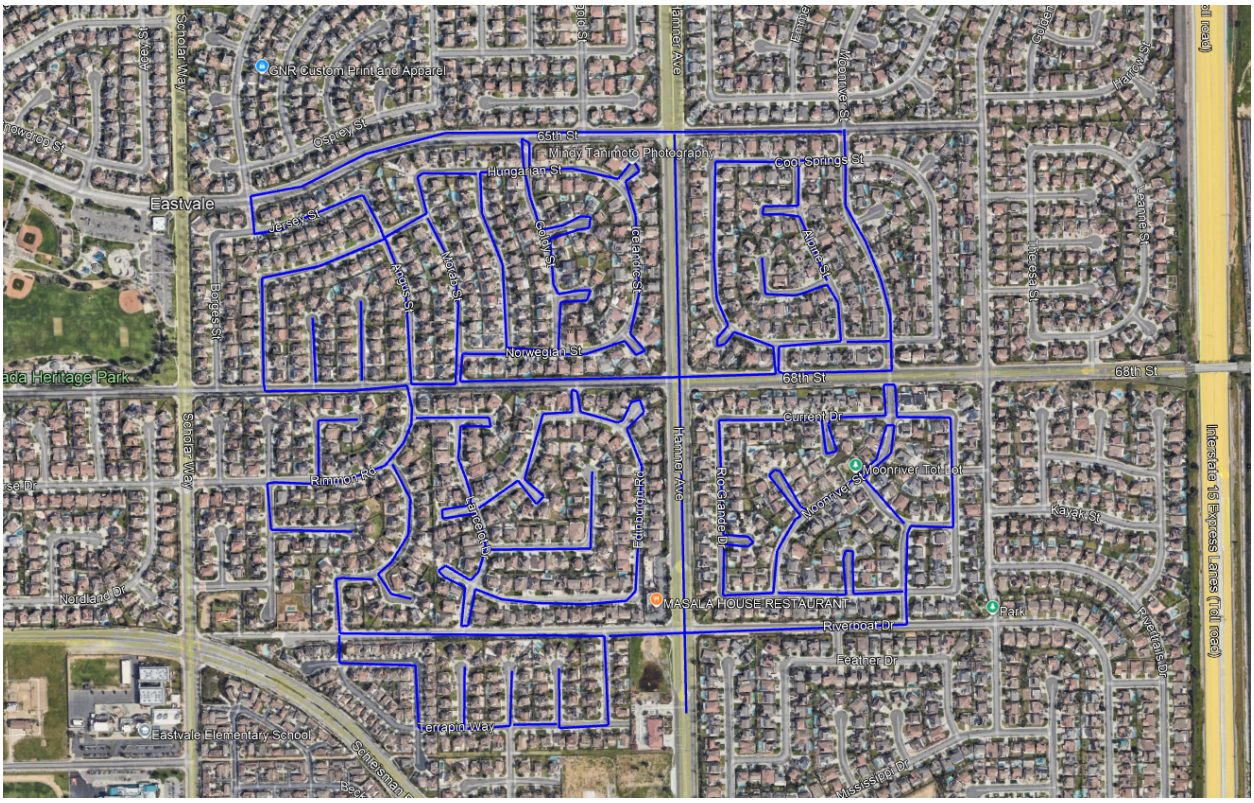
Zone 6 – District Wetlands

In Zone 6, staff conducted 507 inspections and recorded 49 treatments during October. Activities remained focused on treatment wetlands, stormwater management facilities, ditches, the Santa Ana River, and storm-drain outlets. Increased mosquito activity continued within the Prado Basin as two duck clubs began preparing their ponds for the upcoming hunting season.

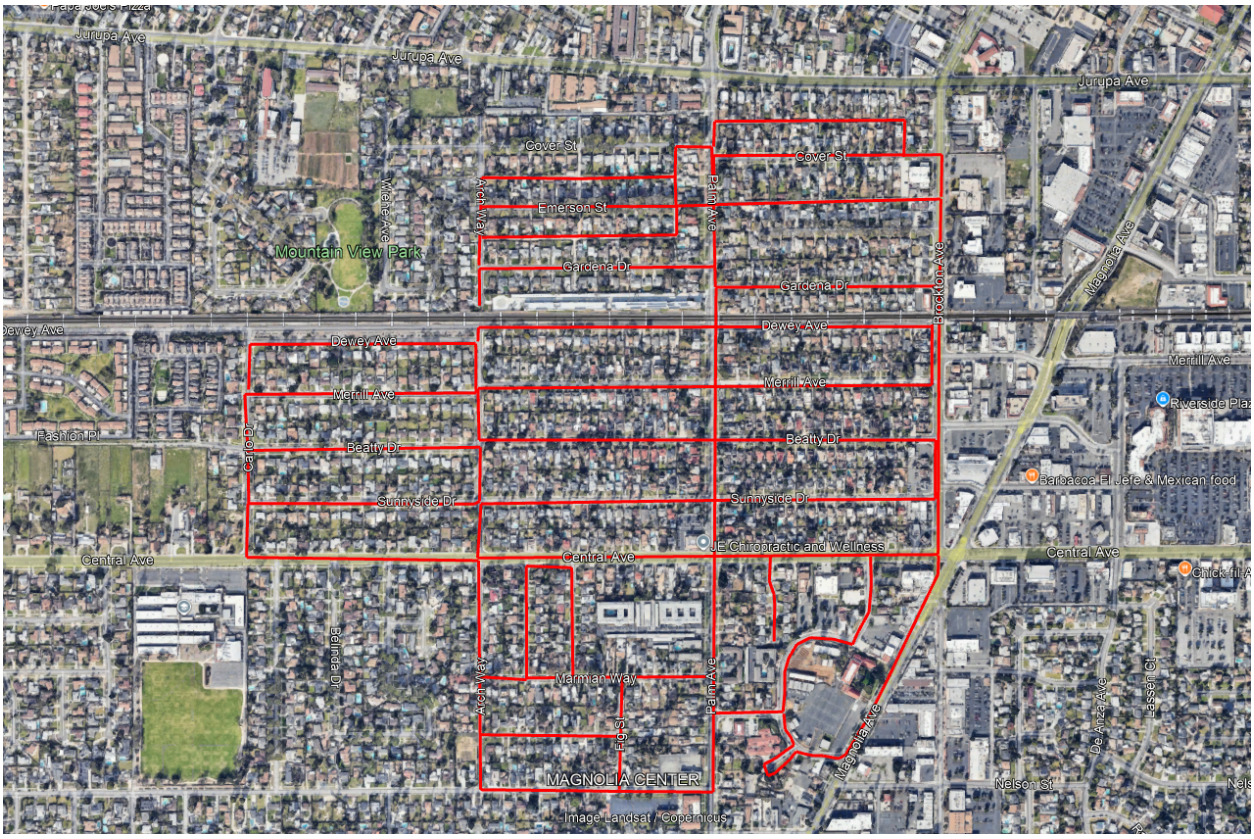
West Nile Virus

The district continued responding to WNV activity during October. Adult ULV mosquito-control applications were completed in Jurupa Valley and Riverside, as described in the zone updates above. The district will continue monitoring mosquito abundance, virus activity, and subsequent trap results and will adjust response activities as conditions change.

Eastvale Adult Mosquito Control Application



Riverside Adult Mosquito Control Application



Field Activities carried out during the month of October 2026

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Wetlands	Out of District	**Totals**
Mosq. Sources:								
Inspected:	702	931	2280	915	985	507	1	**6321**
Treated:	150	185	470	212	140	49	0	**1206**
Percentage breeding:	21%	20%	21%	23%	14%	10%	0%	**19%**
Mosq. Treatment Area:								
Acreage	1.19	1.29	4.39	1.92	43.29	179.77	0	**231.85 ac.**
Service Requests:								
Mosq.'s	72	37	68	46	60	0	50	**333**
Bees	2	3	24	8	1	0	0	**38**
Rats	3	2	5	9	7	0	0	**26**
Flies	0	1	1	0	1	0	0	**3**
Fish	1	3	2	7	1	0	1	**15**
Misc.	3	8	4	3	1	0	1	**20**
Total	**81**	**54**	**104**	**73**	**71**	**0**	**52**	**435**

Board Meeting: November 19, 2026 Consent Item # 5C

LABORATORY REPORT

October 2026

Chloe Wang, PhD, Director of Scientific Programs
Greg Williams, Assistant Vector Ecologist
Jessica Coolidge, MSc, BCE, PHE, Lab Associate
Jennifer Wong, REHS, Lab Associate

I. Surveillance Program

1. Mosquito Surveillance

Host-Seeking Trap Surveillance

Laboratory staff deployed 166 host-seeking mosquito surveillance traps in October 2026, 147 (89%) of which were BG-Sentinel 2 traps and 19 (11%) of which were BGPro-EVS traps. Mosquito abundance in October has decreased 28% since September, with 131.6 female mosquitoes/trap night in October compared to 181.6 female mosquitoes/trap night in September. Wetland area abundance consisted primarily of *Cx. erythrothorax* (31.3% of overall total) and *Cx. tarsalis* (27.8% of overall total). Urban areas consisted primarily of *Cx. quinquefasciatus* (27.8% of overall total) and *Ae. aegypti* (7.1% of overall total). See **Table 1** for a summary of host-seeking mosquito surveillance activity.

Table 1. Abundance of adult female mosquitoes captured by CO_2 -baited BG-Sentinel 2 and BGPro traps in October 2026.

Adult Female Mosquito Surveillance: BGSENT + BGPro Traps									
Genus	**Species**	**Zone 1**	**Zone 2**	**Zone 3**	**Zone 4**	**Zone 5**	**Zone 6**	**Total**	**% of Total**
Aedes	*Ae. aegypti*	551	245	498	224	17	19	1554	7.1%
Anopheles	*An. franciscanus*	0	0	0	1	1	0	2	0.0%
	An. hermsi	38	4	2	2	0	188	234	1.1%
Culiseta	*Cs. incidens*	5	5	10	4	0	4	28	0.1%
	Cs. inornata	10	18	21	8	7	7	71	0.3%
	Cs. particeps	1	1	0	0	0	7	9	0.0%
Culex	*Cx. erythrothorax*	357	68	0	3	69	6347	6844	31.3%
	Cx. quinquefasciatus	2923	404	1174	402	159	1005	6067	27.8%
	Cx. stigmatosoma	24	4	1	11	0	39	79	0.4%
	Cx. tarsalis	1315	892	146	648	4	3068	6073	27.8%
	Cx. thriambus	0	0	0	2	0	3	5	0.0%
	Culicidae (unspecified)	30	188	166	5	0	489	878	4.0%
	Total Mosquitoes	**5254**	**1829**	**2018**	**1310**	**257**	**11176**	**21844**	**100.0%**
	# Traps Set	40	27	48	24	6	21	166	

Dynamics of Invasive and Dominant Mosquito Species Abundance

Aedes aegypti has become established in many areas of California, particularly Southern California and the Central Valley. This invasive mosquito can transmit viruses such as dengue, chikungunya, and Zika to humans through the bite of an infected mosquito. *Culex quinquefasciatus* is associated with urban and suburban environments and often breeds in artificial water sources, drains, and other organically polluted water. In California, *Cx. quinquefasciatus* is an important urban vector of West Nile virus (WNV), St. Louis encephalitis virus (SLEV).

The District has observed an increase in overall mosquito abundance. In 2026, populations of the invasive *Ae. aegypti* (**Figure 1,** top panel) and *Cx. quinquefasciatus* (**Figure 1,** middle panel) have shown higher abundance than 2025, especially the invasive *Ae. aegypti*. The elevations of Ae. aegypti population in September 2026, and *Cx. quinquefasciatus* in March and September 2026 coincided to some extent with increases in average temperature (**Figure 1,** bottom panel, data source: *noaa.gov*).

A strong El Niño in 2026 may contribute to a longer mosquito season and increased mosquito abundance and West Nile virus activity. The District will continue surveillance throughout 2026 to monitor population trends, track the distribution and abundance of invasive *Ae. aegypti*, and assess changes in dominant local mosquito species to support timely, data-driven vector management decisions.

Gravid Trap Surveillance

Gravid traps are used to target female mosquitoes seeking stagnant water sources to lay eggs. Female mosquitoes collected from gravid trap surveillance can be key indicators of arboviral disease transmission, as they have assuredly had an opportunity to take a bloodmeal, which may have allowed for viral transmission. Gravid trapping continued in October, with 39 traps set. Overall gravid mosquito abundance has decreased since last month, with 17.1 female mosquitoes/trap night in October compared to 26.1 mosquitoes/trap night in September. See **Table 2** for a summary of gravid mosquito surveillance activity.

Table 2. Abundance of adult female mosquitoes captured by gravid traps set in October 2026.

Adult Female Mosquito Surveillance: Gravid Traps									
Genus	**Species**	**Zone 1**	**Zone 2**	**Zone 3**	**Zone 4**	**Zone 5**	**Zone 6**	**Total**	**% of Total**
Aedes	*Ae. aegypti*	6	11	26	3	0	0	46	7.0%
Culex	*Cx. quinquefasciatus*	210	117	219	12	22	23	603	90.0%
	Cx. stigmatosoma	7	0	0	0	1	2	10	1.0%
	Cx. tarsalis	3	2	1	0	0	2	8	1.0%
	Culicidae (unspecified)	1	0	0	0	0	0	1	0.0%
	Total Mosquitoes	**227**	**130**	**246**	**15**	**23**	**27**	**668**	**100.0%**
	# Traps Set	9	9	17	2	1	1	39	

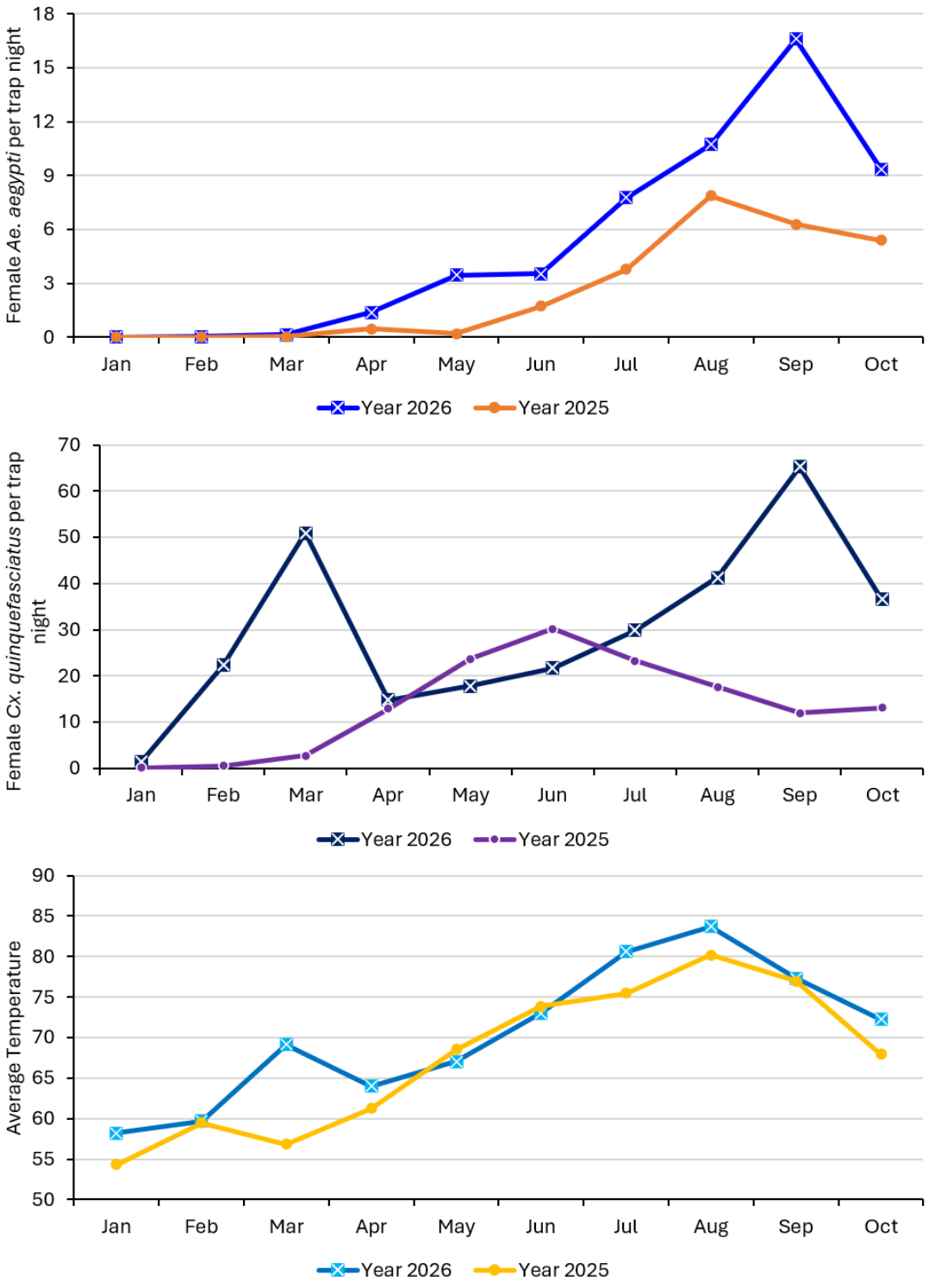


Figure 1. Monthly abundance (mosquitoes/trap-night) of *Ae. aegypti* (top panel) and *Cx. quinquefasciatus* (middle panel), and average monthly temperature in the District service zones (bottom panel), in the year 2026 compared to the year 2025. The average mosquito abundances were calculated using the host-seeking trap surveillance database.

2. Arbovirus Surveillance

Dead Bird Surveillance

In 2026, dead bird surveillance provided the first reports of WNV activity in California. As of October 30, 2026, 772 dead bird samples have tested positive for WNV (33.90% positive out of 2,277 samples for the state of California) (**Table 3, Figure 2**). Detailed information about dead birds reported, tested, and positive by county is listed at *westnile.ca.gov*, and will be updated weekly.

In 2026, 14 of 52 (26.92%) dead bird samples collected within the District have tested positive for WNV to date **(Figure 2, Table 4).** Although dead bird sampling is not systematic, the highest numbers of WNV-positive dead birds were reported in Eastvale, Norco, and Riverside. Corresponding responses to the positive detections were taken by the Departments of Operations and Scientific Programs (District Laboratory) following the current response plan, with active mosquito surveillance and appropriate treatment and control.

Report a dead bird: Residents can submit a dead bird report to the California Department of Public Health (CDPH) *year-round* using the online form: *https://westnile.ca.gov/report*.

The West Nile virus dead bird call center stopped accepting live calls on October 16 and is accepting online reports only during the winter season. The District will continue testing through the winter.

Reporting and testing dead birds during the low-mosquito season remain essential to: (1) detect ongoing WNV persistence and circulation; (2) provide early warning of potential WNV activity before mosquito populations increase; and (3) monitor seasonal changes in WNV activity and better protect public health.

Table 3. California Statewide, Riverside County and Districtwide West Nile Virus activity summary for 2026, updated 10/30/2026 (*State and County Data Source: CDPH, http://westnile.ca.gov*).

	District					County	State				
	2026 DISTRICT TOTALS YTD		2025 DISTRICT TOTALS YTD		DISTRICT 3-YEAR AVERAGE	RIVERSIDE COUNTY TOTALS YTD	2026 STATE TOTALS YTD		2025 STATE TOTALS YTD		STATE 5-YEAR AVERAGE
WNV POSITIVES	Count	% Positive	Count	% Positive	Count	Count	Count	% Positive	Count	% Positive	Count
Human cases	4		0			6	502		74		131
Mosquito Pools	39	6.03%	1	0.24%	20	81	4098	7.28%	2724	5.52%	2907
Dead Birds	14	26.92%	0	0.00%	23	15	772	33.90%	149	9.32%	379
Chickens	--	--	--	--	--	0	149	3.97%	60	1.60%	128
Total	57	7.58%	1	0.00%	43	102	5521	8.05%	3007	5.36%	3545

Note: total % positive was calculated by dividing the total number of positive organisms (birds, mosquitoes, chickens, but not humans) by the total number of organisms tested.

WNV Mosquito Pools

As of the end of October 2026, 39 of the 647 mosquito pools (6.03%) tested within the District have been positive for West Nile virus (WNV) (**Table 4**)**.** Riverside and Eastvale cities tested more WNV+ mosquito pools. The District Department of Scientific Programs has increased the

surveillance capacity with cluster trapping following the current response plan; the Department of Operations also responds with targeted inspection, control, and treatment.

Statewide, 4,098 of 56,328 mosquito pools tested (7.28%) across 29 counties have been positive for WNV. At this time last year, 2,724 WNV-positive mosquito pools had been reported from 27 counties (5.52%). Riverside County has reported a total of 81 WNV-positive mosquito pools **(Table 3)**.

Table 4. Year-to-date WNV positive dead birds and mosquito samples in the District service cities (updated 10/30/2026). Residents report dead birds they observe in their community. A mosquito pool sample is a collection of 10-50 mosquitoes collected from routine and/or clustered trapping efforts.

City Served	Bird Tested	WNV+ Birds	WNV+ Mosquito Pools
Corona	14	1	0
Eastvale	10	4	14
Jurupa Valley	1	1	3
Lake Elsinore	3	2	1
Norco	10	3	0
Riverside	14	3	16
Unincorporated	0	0	5

Note: +: positive testing result.

WNV Human Cases

In total, four human cases have been reported within the District. Riverside County reported six human cases of WNV disease this year.

West Nile virus (WNV) activity in California is at a five-year high, and relatively higher WNV activity has continued in California. In 2026, 502 human cases of WNV disease have been reported from 24 counties. Of the case patients, 326 (64.9%) had neuroinvasive disease and 31 (6.2%) were fatal. In addition, 25 asymptomatic WNV infections have been reported from 11 counties. At this time last year, 74 human cases of WNV disease were reported from 16 counties. (Source: *California Arbovirus Surveillance Bulletin #30*) **(Table 3)**.

The District reminds residents that preventing mosquito breeding and avoiding mosquito bites are the best defenses against West Nile virus. CDPH recommends that individuals protect against mosquito bites and WNV by practicing the “Three Ds": *DEET* (EPA-registered insect repellent, not to be confused with DDT), *Dawn and Dusk* & *Drain.* If residents are experiencing mosquito problems or would like to report neglected swimming pools or other stagnant water sources, contact Northwest Mosquito and Vector Control District at 951-340-9792.

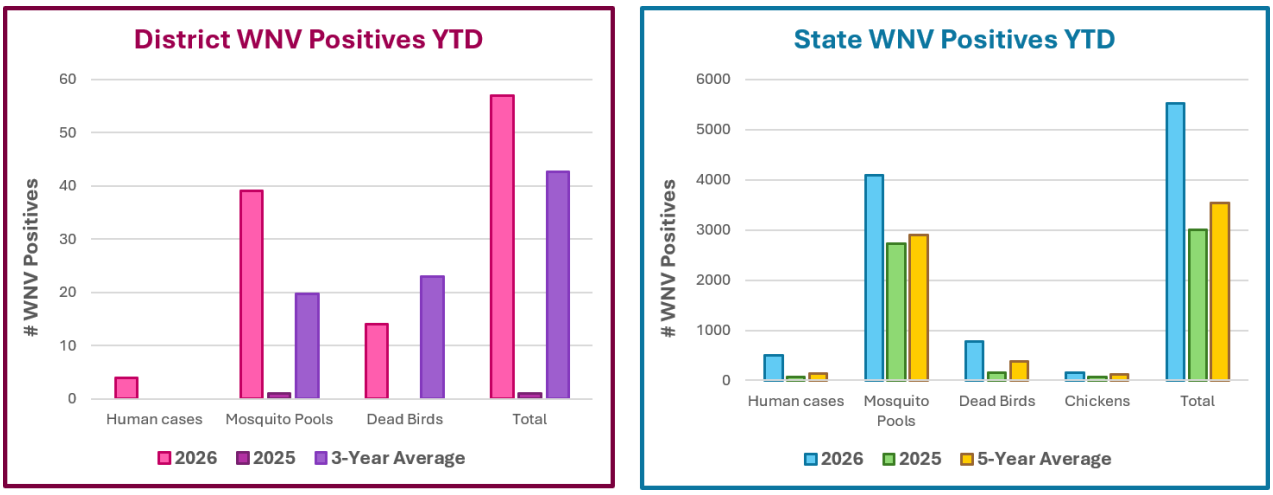


Figure 2. District- and state-wide West Nile Virus activity for years 2026, 2025 and past 5-year average, updated 10/30/2026.

St. Louis encephalitis virus (SLEV)

Activity of St. Louis encephalitis virus in California has remained very low during 2026. One SLEV human case was reported through the state from one county: San Diego. In 2026, 11 SLEV positive mosquito pools have been reported from three counties (**Figure 3**). At this time last year, 105 SLEV positive mosquito pools had been reported from three counties. No SLEV-positive pools were detected within the District.

Aedes-Associated Disease Incidence

The California Department of Public Health (CDPH) provides monthly updates on human disease cases caused by viruses transmitted by invasive *Aedes* mosquitoes. The most recent update, current through October 1, 2026, is summarized in **Table 5**. As *Aedes* mosquitoes are established in Riverside County, which can transmit dengue, chikungunya, and Zika, no local transmission of these diseases has been detected. Corresponding responses to imported human cases have been taken by the District Laboratory and Operations following the current response plan.

Table 5. CDPH reported *Aedes*-associated human disease case incidences during 2023-2026.

Year		Zika	Dengue	*Chikungunya*
2026 YTD	California	0	52	5
	Riverside County	0	2	0
2025 Total	California	4	207 (7*)	25
	Riverside County	1	7	0
2024 Total	California	8	720 (18*)	43
	Riverside County	0	32	2
2023 Total	California	3	250 (2*)	23
	Riverside County	1	4	2

Note: * = locally acquired transmission; YTD=Year-to-date

1) *Dengue cases*: 52 symptomatic travel-related dengue cases have been reported in state. No locally acquired *Aedes*-associated human disease cases have been reported in California.

2) *Chikungunya cases*: Five symptomatic chikungunya cases have been reported in state in the following counties: Alameda, Placer, San Francisco, and Sonoma.

3) *Zika cases:* No Zika infections have been reported among California residents.

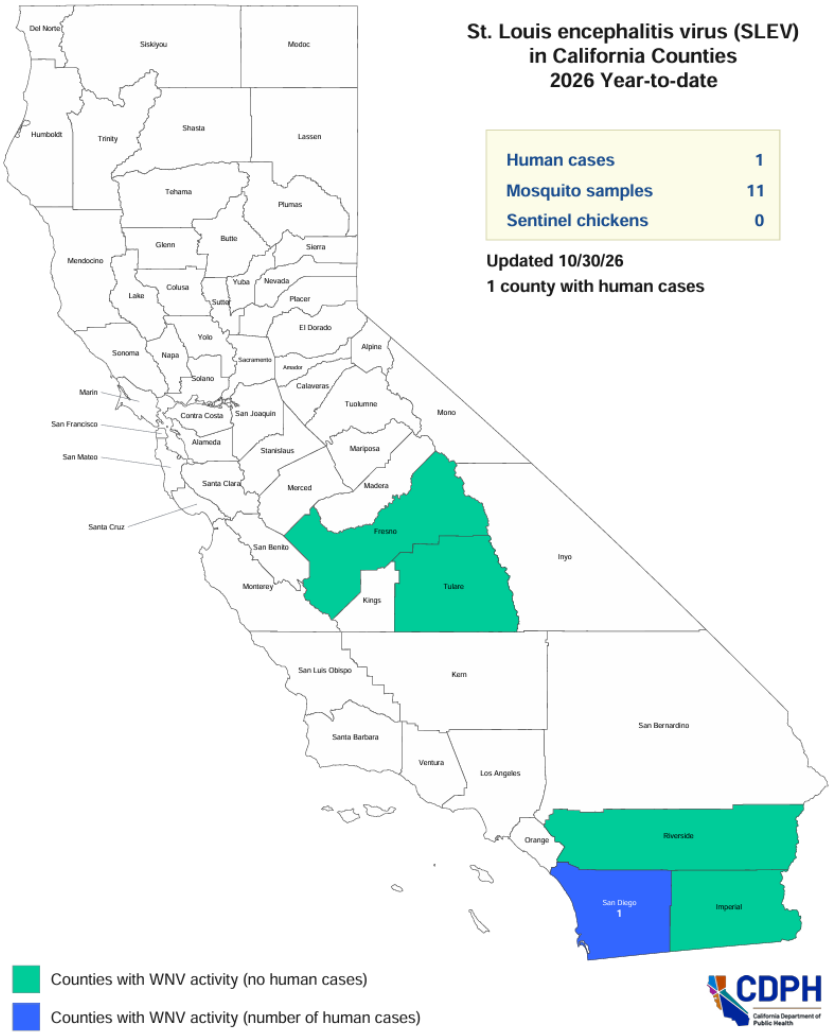


Figure 3. Statewide St. Louis encephalitis virus (SLEV) activity in California counties for 2026, updated 10/30/2026 (*Source: CDPH, http://westnile.ca.gov*).

II. Mosquitofish Program

Mosquitofish Use

The District currently has a mosquitofish program that utilizes the western mosquitofish (*Gambusia affinis*) as a biopesticide to control mosquitoes. The sources controlled are restricted to closed water systems only. Regulatory issues prevent any stocking in watersheds or open water

systems that potentially flow into these watersheds. In October, a total of 184 mosquitofish were used by residents (63 fish) and technicians (121 fish) (**Figure 4**). So far, the year-to-date mosquitofish usage is 1,743, with residents and technicians stocking 596 and 1,147 fish, respectively. The system currently houses fewer than 100 fish.

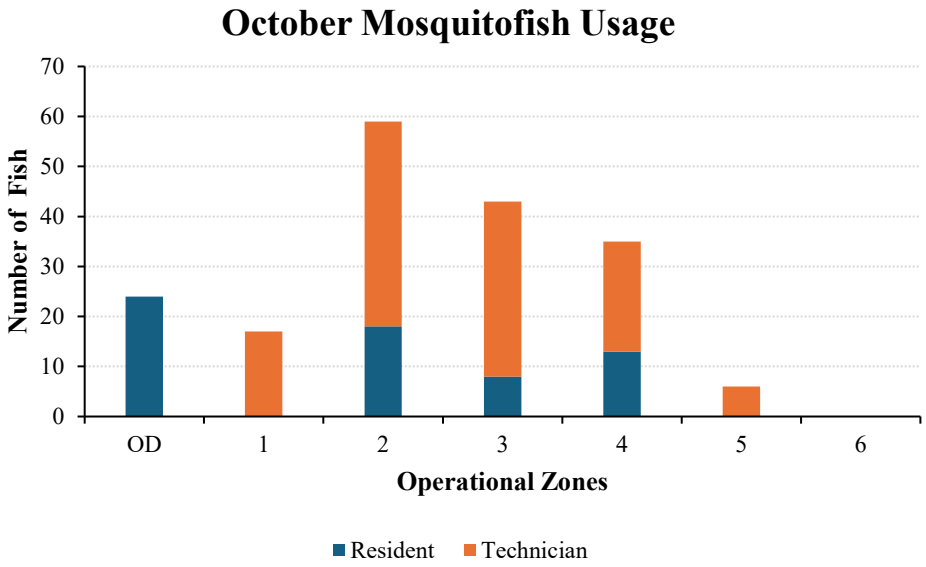


Figure 4. Number of mosquitofish used for each operational zone in October 2026.

Water Chemistry

In October the nitrification cycle continued to work well. All readings for ammonia, nitrite, and nitrate were zero parts per million. The alkalinity fluctuated mildly between 100 and 120 ppm with the corresponding pH levels staying between 8.2 and 8.6. Small amounts of baking soda were added throughout the month to maintain optimal water chemistry.

III. Sterile Insect Technique (SIT) Program

The Sterile Insect Technique (SIT) is a biological mosquito control method that involves releasing sterilized, locally reared male mosquitoes to suppress invasive mosquito populations as part of an Integrated Vector Management (IVM) strategy. The District is expanding its SIT program in 2026. The public can check the District SIT webpage for more information: *Sterile Insect Technique - Northwest Mosquito and Vector Control District*.

Laboratory staff continued to conduct sterile male *Aedes aegypti* releases in Riverside each week in September. With the elevated *Ae. aegypti* population, approximately 48,000 irradiated sterile male mosquitoes were released weekly from final week of September for continously three weeks. BG-Sentinel 2 traps have been deployed 48 hours after each release for mosquito population monitoring, and oviposition traps are placed to monitor real-time mosquito fecundity and fertility. The routine releases will be completed by the second week of Novermber, following with 3-week post-treatment surveillance.

The Laboratory has implemented a comprehensive QC program to evaluate the quality and performance of mosquitoes received from the vendor.

The October mosquito batch demonstrated favorable quality-control results. The quarterly survival assessment showed that the sterile mosquitoes maintained a mortality rate of 44.0% over the 21-day longevity study, indicating favorable survivorship under laboratory conditions (**Figure 5**). Adult mosquito traps captured *Ae. aegypti* marked with three different fluorescent dust colors, aligning with the longevity testing result, indicating that sterile males from multiple release events remained active and detectable in the field over time. Female contamination was very low (<0.003%) during inspections of the four October releases.

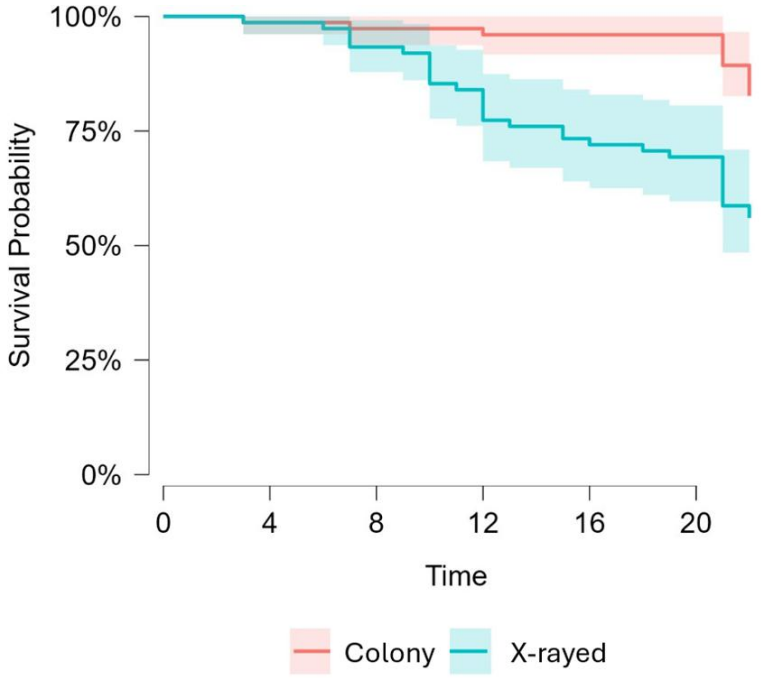


Figure 5. Kaplan-Meier survival curves for *Aedes aegypti* lab colony and irridiated (X-rayed) males during a 3-week observation period.

IV. Trials and Other Laboratory Activities

The Department of Scientific Programs (District Laboratory) continued targeted surveillance in areas with high *Culex* and *Aedes* mosquito counts. This strategy provided the Department of Operations with timely and localized information to support more precise, targeted, and cost-effective control decisions for a good District Integrated Vector Management (IVM) practice.

Cluster trapping in Jurupa Valley (Zone 1) revealed the need to conduct a Wide-Area Larvicide Spray (WALS) application for controlling *Aedes aegypti* mosquitoes based on the abundance. The Laboratory deployed mosquito traps throughout the treatment area and surrounding neighborhoods pre- and post-treatment by Operations to evaluate the efficacy of the larvicide application and provide timely feedback to the Department of Operations. The Laboratory also conducts larval and adult mosquito bioassays, as appropriate, to evaluate treatment efficacy and support optimization

of mosquito control strategies. Post-treatment surveillance showed a reduction in *Aedes aegypti* abundance within two weeks of treatment. Standardized larval cup bioassays by the Laboratory at locations throughout the treatment area demonstrated an average larval mortality of 85%, confirming insecticide deposition across a range of field conditions. Overall, the surveillance and bioassay results indicated that WALS was effective in reducing *Ae. aegypti* abundance in the treated residential area.

Laboratory staff worked hard throughout the season and conducted multiple trials and programs. Three staff members submitted abstracts for consideration for oral or/and poster presentations at the MVCAC conference in January 2027, and two submitted abstracts for the AMCA conference in March 2027.

NWMVCD Treasurer's Dashboard Report - October 2026

Account Balances as of September 30, 2026

Institution	Identification	Percent of Total	Balance
LAIF	Common Investments	93.00%	12,171,472.84
Riverside County	Fund 51255	0.22%	28,268.73
Citizens Business Bank	General Operating Account	4.10%	537,116.11
Citizens Business Bank	Payroll Account	1.29%	169,039.81
Citizens Business Bank	Money Market Account	0.08%	11,043.17
VCJPA	Common Investments	1.30%	170,170.00
CalPERS	CERBT (Restricted)	0.00%	-
		100.00%	**$ 13,087,110.66**

MONTHLY REVENUE

Date	Received From	GL Acct #	Description	Amount
10/20/2026	County of Riverside	4701020	Property Taxes - Unsec	137,799.87
10/15/2026	LAIF Interest	4740031	Interest - LAIF	115,332.07
10/06/2026	Southwest Resource Management Assn.	4777520	Current Services	1,282.77
10/16/2026	Orange County Water District	4777520	Current Services	53.10
10/16/2026	Orange County Water District	4777520	Current Services	1,450.07
10/31/2026	Other Interest	4740032	Interest	0.91
			Total	**$ 255,918.79**

MONTHLY EXPENSES

Account Number	Category	Amount
1-510040	Salaries - Regular	157,732.87
1-510080	Salaries - Extra Help	53,943.30
1-510320	Salaries - Temporary	800.00
1-513000	Retirement - PERS	41,842.49
1-513120	Retirement - OASDI	11,046.12
1-513130	Retirement - 401a	4,985.14
1-513140	Payroll Tax - Medicare	2,878.33
1-515000	Insurance -Employee Group Dental	921.52
1-515080	Insurance -Employee Group	38,149.63
1-515260	Insurance - Unemployment	299.86
2-524500	Operational expenses	38,716.90
2-524520	Administrative expenses	42,905.00
2-529540	Utilities	8,053.58
9-546020	Structure/Improvement	-
	Total	**$ 402,274.74**

Account Balances as of October 31, 2026

Institution	Identification	Percent of Total	Balance
LAIF	Common Investments	94.30%	12,286,804.91
Riverside County	Fund 51255	0.22%	28,268.73
Citizens Business Bank	General Operating Account	2.39%	311,591.20
Citizens Business Bank	Payroll Account	1.70%	221,376.84
Citizens Business Bank	Money Market Account	0.08%	11,044.08
VCJPA	Common Investments	1.31%	170,170.00
CalPERS	CERBT (Restricted)	0.00%	-
		100.00%	**$ 13,029,255.76**

Notes to the Treasurers Report:

Variance	**$ (88,501.05)**
Change in AP from Prior Month	21,855.64
Change in AR from Prior Month	66,729.07
Change in Payroll Liabilities from Prior Month	(83.66)
Capital Expenditures	-
Adjusted Variance	**$ (0.00)**

Northwest Mosquito and Vector Control District
Pay Period and Pay Days
January through December 2027
Regular and Seasonal Employees

	Pay Period		
	From	**To**	**Pay Day**
1	December 12, 2026	December 25, 2026	January 1, 2026
2	December 26, 2026	January 8, 2027	January 15, 2027
3	January 9, 2027	January 22, 2027	January 29, 2027
4	January 23, 2027	February 5, 2027	February 12, 2027
5	February 6, 2027	February 19, 2027	February 26, 2027
6	February 20, 2027	March 5, 2027	March 12, 2027
7	March 6, 2027	March 19, 2027	March 26, 2027
8	March 20, 2027	April 2, 2027	April 9, 2027
9	April 3, 2027	April 16, 2027	April 23, 2027
10	April 17, 2027	April 30, 2027	May 7, 2027
11	May 1, 2027	May 14, 2027	May 21, 2027
12	May 15, 2027	May 28, 2027	June 4, 2027
13	May 29, 2027	June 11, 2027	June 18, 2027
14	June 12, 2027	June 25, 2027	July 2, 2027
15	June 26, 2027	July 9, 2027	July 16, 2027
16	July 10, 2027	July 23, 2027	July 30, 2027
17	July 24, 2027	August 6, 2027	August 13, 2027
18	August 7, 2027	August 20, 2027	August 27, 2027
19	August 21, 2027	September 3, 2027	September 10, 2027
20	September 4, 2027	September 17, 2027	September 24, 2027
21	September 18, 2027	October 1, 2027	October 8, 2027
22	October 2, 2027	October 15, 2027	October 22, 2027
23	October 16, 2027	October 29, 2027	November 5, 2027
24	October 30, 2027	November 12, 2027	November 19, 2027
25	November 13, 2027	November 26, 2027	December 3, 2027
26	November 27, 2027	December 10, 2027	December 17, 2027
27	December 11, 2027	December 24, 2027	December 31, 2027

Mark Breidenbaugh, Ph.D.
District Manager

Date

Northwest Mosquito and Vector Control District

LIST OF HOLIDAYS 2027 — PROPOSED

Date	Day	Holiday
January 1, 2027	Friday	New Year's Day
January 18, 2027	Monday	Martin Luther King, Jr. Day
February 15, 2027	Monday	Presidents Day
May 31, 2027	Monday	Memorial Day
June 18, 2027	Friday	Juneteenth (June 19)
July 5, 2027	Monday	Independence Day (July 4)
September 6, 2027	Monday	Labor Day
November 11, 2027	Thursday	Veterans Day
November 25, 2027	Thursday	Thanksgiving Day
November 26, 2027	Friday	In lieu of Admissions Day (September 9, 1850)
December 24, 2027	Friday	Christmas Day observed (December 25)
December 27, 2027	Monday	Columbus Day — relocated from October
December 28, 2027	Tuesday	In lieu of Lincoln's Birthday — relocated
December 30, 2027	Thursday	Floating Holiday — relocated from December 31
2028 Holiday		
December 31, 2027	Friday	New Years Day 2028- Relocated from January 1st, 2028

Year-end closure: Friday, December 24, 2027, through Sunday, January 2, 2028. Regular operations resume Monday, January 3, 2028, for Monday–Friday employees. Employees will need to take one PTO day for December 29, 2027.

Important: Friday, December 31, 2027, is the proposed observed New Year's Day holiday for 2028 (January 1 falls on Saturday). It is not counted among the 14 holidays above.

_____ _____

District Manager Date

801st Regular Board Meeting
November 19, 2026

Agenda Item #8.A. : Ad Hoc Committee Findings and Recommendations Regarding Board Meeting Procedures, Trustee Attendance, Monthly Allowance, and Officer Elections
Background and Discussion

The ad hoc committee reviewed the District's meeting schedule, trustee attendance requirements, and monthly allowance procedures. This staff report incorporates the committee's findings and recommendations and serves as its report to the Board for discussion and direction.

The committee recommends:

- **Meeting schedule:** Retain regular Board meetings on the third Thursday of each month at 3:00 p.m.
- **In-person attendance:** Require trustees to attend meetings in person, subject to legally required accommodations and exceptions.
- **Monthly allowance:** Retain the flat $100 monthly allowance, payable only for qualifying meeting attendance.
- **Attendance documentation:** Designate the Clerk of the Board to maintain roll-call and attendance records used to verify allowance eligibility.
- **Meetings unable to proceed:** Count a trustee as attending when the trustee reports in person for a properly noticed meeting that is subsequently canceled or adjourned, including when a quorum cannot be established.

The Board is also asked to discuss which meetings qualify toward the monthly allowance, including whether attendance at an authorized committee meeting or special Board meeting would satisfy the attendance requirement when a trustee misses the regular monthly meeting. The allowance would remain limited to one $100 payment per eligible trustee per month.

Officer-Election Procedures

An additional issue for discussion is the timing of officer elections. Health and Safety Code Section 2027(a) requires existing districts to elect officers at the first meeting in January, annually or every other year. The District's current bylaws permit elections in December when practical.

The Board is asked to discuss this discrepancy with District counsel and provide direction regarding revisions to the election and term-of-office provisions.

Requested Board Direction

Provide direction on the committee's recommendations, qualifying meeting attendance, and officer-election procedures. Authorize staff and District counsel to prepare proposed bylaw amendments and a revised allowance resolution for subsequent Board consideration. Final adoption of those revisions is not requested under this item.

Attachments

- Current Board Bylaws
- Resolution No. 378 — Monthly Trustee Allowance

Northwest Mosquito and Vector Control District

ARTICLES AND BYLAWS GOVERNING DISTRICT BOARD MEETING

Adopted at the 613th Meeting of the Board of Trustees, June 17, 2010
Modified at the 782nd Meeting of the Board of Trustees, January 16, 2025

All meetings shall be held in accordance with Health and Safety Code Section 2000 et seq. of the Mosquito Abatement and Vector Control District Law ("the Act") and in accordance with applicable sections of the Brown Act.

Article I. Time of Holding Meetings.

"Regular Meetings" of the District Board of Trustees ("Board") shall be held once each month on the third Thursday of the month at 3:00 p.m. unless otherwise declared by the Board at a public meeting or by written notice 10 days prior to the next scheduled Board meeting.

Article II. Place of Holding Meetings.

Regular meetings of the District Board shall be held at the district office at 1966 Compton Avenue, Corona, California.

Article III. Rules of Procedure for Meetings.

1. A Quorum.

   In a regular District meeting, notwithstanding the rules of AB 2449, a quorum shall consist of a simple majority of total appointed Board Members. If less than a quorum is present at any meeting, the members present may adjourn the meeting to a time and place specified in the order of adjournment.

2. Presiding Officer.

   The President of the Board shall preside over all meetings. In the absence of the President, the Vice-President shall preside. In the absence of the Vice-President, the Secretary shall assume the duties of President.

3. Board Officers.

   The elected officers of the Board shall consist of:

   a) President
   b) Vice-President

c) Secretary

4. Election of Officers.

Board officers shall be elected annually, with the election held at the regular meeting in the month of January or before (i.e., December when practical). The general nominating procedure to elect officers will be a rotation of officers by seniority beginning with Secretary, then Vice-President, and finally President or otherwise determined by the Board at the January meeting or earlier.

5. Terms of Office.

Each officer shall serve a one-year term unless determined by the Board to extend the existing term. The term of the officers shall begin at the first regular meeting in January and end after the election in January or at the end of the December meeting, if elections occur earlier than January, in the subsequent year following election.

6. Order of Business.

The order of business to be considered at the meeting shall be at the discretion of the presiding officer. The officers shall be provided with an agenda by the District Manager as previously distributed to the members of the Board. The agenda may be developed in consultation with the presiding officer. In accordance with the Brown Act, Board action and review shall be limited to items on the distributed agenda. New business not so indicated on the agenda shall be referred to a future agenda for Board review and action unless voted by the Board to add an agenda item in the manner required by the Brown Act.

7. Actions of the Board.

The Board shall act only by Ordinance, Resolution or Motion. Except as otherwise specifically provided to the contrary in the Act, a recorded vote of the majority of those Board members present and voting is required on each action.

8. Adjournment of Meetings.

The Board will adjourn any regular or special meeting to a time and place specified in the order of adjournment. Less than a quorum may so adjourn from time to time. If all members of the Board are absent from any regular or adjourned regular meeting, the Clerk of the Board may declare the meeting adjourned to a stated time and place and the Clerk shall cause a written notice of the adjournment to be given in the same manner as required by the Brown Act for special meetings, unless such notice is waived as provided for special meetings. A copy of the notice of adjournment shall be posted on the door of the place where the meeting was held within 24 hours after the time of the adjournment.

9. Recording of the Minutes.

   For each meeting, the Secretary of the Board shall be responsible for recording the minutes with their entry into the current District minute book. In the absence of the Secretary of the Board, the presiding officer shall appoint an acting Secretary to record the meeting minutes.

10. Amendment of Articles and Bylaws.

    Amendment of any article, or bylaw thereof, in these adopted regulations may be passed by the majority vote of the quorum, provided that such proposed amendment be presented in writing and reviewed by the Board under the agenda of at least one prior meeting of the Board. Such amendments so passed shall become effective with their entry into the minutes of the regular meeting.

11. Procedure Not Provided For.

    Procedures in conducting a meeting of the Board shall be established by the President upon approval by the majority of the Board.

Article IV. Officers and Their Duties.

1. President: When necessary, the President shall be the official representative of the District. ~~He/She~~ The President shall have the power to appoint committees, and such other powers as may be delegated by the Board from time to time.

The President shall be responsible for opening meetings promptly and for administering the business of the day, expediently and with appropriate order and decorum. The President shall also be responsible for signing all official documents of the District, including, but not limited to, minutes, Resolutions and Ordinances.

2. Vice-President: In the absence of the President, the Vice-President shall assume the duties of the President.

3. Secretary: The Secretary shall serve as Parliamentarian and assist the President as necessary.

It shall be the duty of the Secretary to authenticate, by his/her signature, when necessary, all the action, orders, minutes and resolutions and proceedings of the Board. In the Secretary's absence, any other Board member designated by the President, shall sign such documents after approval by the Board.

The Secretary shall further be responsible for recording the minutes and keeping records. With the approval of the Board, this responsibility may be delegated to the District Manager.

RESOLUTION OF THE BOARD OF TRUSTEES OF THE NORTHWEST MOSQUITO AND VECTOR CONTROL DISTRICT IN-LIEU TRAVEL EXPENSE INCREASE EFFECTIVE FEBRUARY 2002

WHEREAS, Health and Safety Code Section 2248 provides that the members of a district board shall serve without compensation, except that the board members may be reimbursed for actual traveling expenses or may be paid a flat sum in lieu of expense reimbursement; and

WHEREAS, the Northwest Mosquito and Vector Control District Trustees have been paid a flat $50.00 per month sum since 1985 in lieu of itemized reimbursements for attendance at meetings or when traveling in connection with the business of the District; and

WHEREAS, the Legislature has now recognized that $50.00 per month is no longer a sufficient sum to cover Trustee expenses and has enacted legislation that passed unanimously and amended Section 2248 (AB 682; Ch. 75 - 2001 Stats.) to now authorize $100.00 per month as the flat sum that may be paid to Trustees in lieu of itemized reimbursement; and

WHEREAS, to implement the new legislation, the Board is required to adopt a resolution authorizing said flat sum in lieu of itemized reimbursements; and

WHEREAS, the Board does hereby desire to implement the new legislation;

NOW, THEREFORE, BE IT RESOLVED THAT the Board of Trustees of the Northwest Mosquito and Vector Control District receive $100.00 per month in-lieu payment for attending monthly meetings, effective February 2002.

Passed and adopted by the Board of Trustees of the Northwest Mosquito and Vector Control District, this 17th day of January 2002, by the following vote:

AYES: Carmichael, Plantenga, Read

NOES: None

ABSENT: Story-Deininger, Fritz

ABSTAIN: None

Barbara Carmichael, President

CERTIFICATE

STATE OF CALIFORNIA)
) ss.
COUNTY OF RIVERSIDE)

I, Terry Story-Deininger, Secretary of the Board of Trustees of the Northwest Mosquito and Vector Control District do hereby certify the foregoing Resolution of the Board of Trustees of the Northwest Mosquito and Vector Control District was duly passed and adopted at a Regular Meeting of the Board of Trustees held on January 17, 2002

DATED: January 17, 2002

Terry Story-Deininger, Secretary

Action Item #8.B. **Recommendation for Election and Installation of Officers.**

Pursuant to District policy and convention, the election of officers is carried out on a rotational basis. The recommended slate of officers for 2027 is:

Guillermo Silva	**President**
Dr. Tianyun "Steven" Su	**Vice-President**
Brian Tisdale	**Secretary**

Recommendation:

It is the District Manager's recommendation that the Board discuss, propose, and approve a slate of officers to take office at the start of the first meeting in 2027.