

WEEKLY REPORT

OWENS VALLEY MOSQUITO ABATEMENT PROGRAM ◦ MAMMOTH LAKES MOSQUITO ABATEMENT DISTRICT

FINAL REPORT

WEEK 39: SEPTEMBER 22 TO SEPTEMBER 28, 2024

PAST WEEK'S TREATMENT SUMMARY

Mosquito larvacide surveillance and treatments are wrapping up for the 2024 mosquito season. Most of the flood irrigated pastures are off and have been reduced to stock water. Larvacide applications were limited to only one of the pastures north of Bishop, another east of Independence and two treatments went out west of Lone Pine this week. Seasonal staff are finished up for the year, our two remaining full-time staff will continue to monitor and control mosquito populations for the next few weeks as necessary.

This is the last Weekly Mosquito Report for the 2024 season. Attached to this report is this past season's scoreboard. The final score was OVMAP with 45 points and a first ever ZERO score for the mosquitoes, almost a perfect season! OVMAP only sent out 12 mosquito pool samples that all had been tested negative for West Nile virus, Saint Louis encephalitis, and Western Equine Encephalitis this season. For comparison - last season we sent out 87 mosquito pool samples and out of the 87 samples, 2 tested positive for WNV and we had 1 positive SLEV (first ever). This year we trapped just under 6,000 mosquitoes compared to last year's 38,000. We applied less than a dozen ULV Adulticide fog applications and half a dozen barrier treatments. We responded to a few service requests. We attended three public outreach events – one Earth Day booth at the Bishop City Park and another one for the 11th Annual Lone Pine Tribal Earth Day Celebration. OVMAP staff also hosted a booth for the Tri County fair.

OVMAP would like to acknowledge and extend our appreciation to the hard-working members of the OVMAP field staff for one of the most successful mosquito seasons ever. Hats off to the field crew of 2024!



On the left is the 2024 OVMAP field staff - from left is Rob Miller, Bobby Vanvelzer, Sean Fekete, Roger Tucker and Tony French. On the right is the 2023 final scoreboard OVMAP - 45 Mosquitoes – 0. A Perfect Score!



Report Prepared by:
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ENCEPHALITIS VECTOR SURVEY (EVS) TRAP COLLECTION RESULTS

	<i>Culex tarsalis</i>	<i>Culex erythrothorax</i>	<i>Anopheles freebornii</i>	<i>Anopheles fransiscanus</i>	<i>Aedes melanimon</i>	<i>Aedes nigromaculis</i>	<i>Aedes increpitus</i>	<i>Aedes tahoenis</i>	<i>Culiseta inornata</i>	<i>Culiseta incidens</i>	TOTAL
Mammoth Lakes (Tamarack)	No Mosquitos Detected										0
Mammoth Lakes (Snowcreek)	No Mosquitos Detected										0
Bishop (Bear Creek)	2	0	0	0	0	0	0	0	0	0	2
Bishop (Williams Creek)	Trap Failure										0
Bishop (Van Loon)	2	0	0	0	11	0	0	0	0	1	14
Bishop (Airport Road)	16	4	0	0	7	0	0	0	0	0	27
Big Pine (Klondike Lake)	4	73	0	0	10	0	0	0	0	0	87
Big Pine (Rolling Green)	0	1	0	0	10	0	0	0	0	0	11
Big Pine (Big Pine Creek)	0	0	0	0	8	0	0	0	0	0	8
Tinemaha	3	0	0	0	5	0	0	0	1	0	9
TOTAL	27	78	0	0	51	0	0	0	1	1	158

ANALYSIS OF COLLECTION RESULTS

EVS traps were positioned along the north district run (Mammoth Lakes to Tinemaha) this week. Nine of the ten traps set ran well with no malfunctions. The Williams Creek trap ran out of CO2 and was counted as a failure. Adult mosquito abundance has increased for the north district run this week possibly due the warmer temperatures. The total amount of mosquitoes collected were 158 compared to 61 on the last north run, 2 weeks ago. Most of the mosquitoes came from the Klondike Lake trap, collecting 4 *Culex tarsalis*, 73 *Culex erythrothorax* and 10 *Aedes melanimon*. The Airport Road trap east of Bishop caught 16 *Culex tarsalis*, 4 *Culex erythrothorax* and 7 *Aedes melanimon*. Van Loon in Bishop produced 2 *Culex tarsalis*, 11 *Aedes melanimon* and 1 *Culiseta incidens*. Rolling Green picked up 1 *Culex erythrothorax* and 10 *Aedes melanimon*. Tinemaha came up with 3 *Culex tarsalis*, 5 *Aedes melanimon* and 1 *Culiseta inornata*. Big Pine Creek had 8 *Aedes melanimon*. No mosquitoes had been detected in any of the Mammoth Lakes EVS traps.

The BG Sentinel traps collected mosquitoes this week. The Mammoth Lakes BGS trap collected 1 *Culex tarsalis*. Bishop caught 1 *Culex tarsalis* and Lone Pine had 3 *Culex tarsalis*. None of the other BGS traps produced any mosquitoes. No invasive *Aedes* species were detected.

This is the last trap run of the 2024 mosquito season.

DISEASE TESTING SUMMARY

We did not collect enough blood fed *Culex* specimens to send out any Mosquito Pool Samples this week.