

# WEEKLY REPORT

OWENS VALLEY MOSQUITO ABATEMENT PROGRAM ◦ MAMMOTH LAKES MOSQUITO ABATEMENT DISTRICT

## WEEK 31: JULY 30 TO AUGUST 5, 2023

### PAST WEEK'S TREATMENT SUMMARY

Mosquito larvacide surveillance and treatments continue to be made as needed throughout the Owens Valley and the high country including the Mammoth Lakes District. Larvacide applications were applied in the north and northeast pastures near Bishop. Significant efforts have been made to mitigate larval finds in the Warm Springs road area and the Yribarren Ranch. Treatments have gone out north and east of Big Pine including Klondike Lake this week. Treatments were also applied along the Owens River and Calvert Slough areas near Aberdeen. Adult mosquito populations in the community of Independence have been lower due to adulticide ULV fog treatments. Treatments were also made east and south of Lone Pine along with the Diaz Lake area.

The Lower Owens River Project water flows have receded slightly this week, holding around 120 cfs at the intake. OVMAP staff are still monitoring this and making larvacide applications as necessary.

ULV fog treatments were performed in the high country this week including Aspendell and the Old Mammoth Lakes area.



Photo on the left is a mosquito pupae sample collected near Big Pine and on the right, some adult mosquitoes being prepared for shipping to the UC Davis laboratory for virus testing.



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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 franciscanus</i>	<i>Aedes melanimon</i>	<i>Aedes nigromaculis</i>	<i>Aedes increpitus</i>	<i>Aedes tahoensis</i>	<i>Culiseta inornata</i>	<i>Culiseta incidens</i>	<b>TOTAL</b>
Mammoth Lakes (Tamarack)	208	0	0	0	0	0	0	0	23	0	<b>231</b>
Mammoth Lakes (Snowcreek)	19	0	0	0	0	0	0	2	0	0	<b>21</b>
Bishop (Bear Creek)	No Mosquitos Detected										<b>0</b>
Bishop (Williams Creek)	452	1	5	0	2	0	0	0	2	0	<b>462</b>
Bishop (Van Loon)	108	0	0	0	1	0	0	0	0	0	<b>109</b>
Bishop (Airport Road)	Trap failure										<b>0</b>
Big Pine (Klondike Lake)	54	8	0	0	9	0	0	0	1	0	<b>63</b>
Big Pine (Rolling Green)	1	0	0	0	0	0	0	0	0	0	<b>1</b>
Big Pine (Big Pine Creek)	No Mosquitos Detected										<b>0</b>
Tinemaha	Trap Failure										<b>0</b>
<b>TOTAL</b>	<b>842</b>	<b>9</b>	<b>5</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>26</b>	<b>0</b>	<b>887</b>

**ANALYSIS OF COLLECTION RESULTS**

EVS traps were positioned along the north district run (Mammoth Lakes to Tinemaha) this week. Eight of the ten traps set ran well with no malfunctions. The Airport Road and Tinemaha traps ran out of CO<sub>2</sub> and were counted as failures. Adult mosquito abundance has decreased for the north district runs this week. The total amount of mosquitoes collected were 887 compared to 1663 on the last north run, 2 weeks ago. Most of the mosquitoes came from the Bishop Williams Creek trap, collecting a variety of 4 different genus and 5 different species containing: 452 *Culex tarsalis*, 1 *Culex erythrothorax*, 2 *Culiseta inornata* and 2 *Aedes melanimon*. The Tamarack trap in Mammoth caught 208 *Culex tarsalis* and 23 *Culiseta inornata*. Van Loon in Bishop produced 108 *Culex tarsalis* and 1 *Aedes melanimon*. Klondike Lake had 54 *Culex tarsalis*, 8 *Culex erythrothorax*, 9 *Aedes melanimon* and 1 *Culiseta inornata*. Snowcreek from Mammoth picked up 19 *Culex tarsalis* and 2 snowmelt *Aedes tahoensis*. Rolling Green north of Big Pine only caught 1 lonely *Culex tarsalis*. No mosquitoes had been detected in any of the remaining EVS traps.

The BG Sentinel traps collected mosquitoes this week. The Mammoth Lakes BGS trap collected 68 *Culex tarsalis*, 4 *Culiseta incidens* and 1 *Culiseta inornata*. Bishop caught 227 *Culex tarsalis* and 1 *Culiseta inornata*. Big Pine had 103 *Culex tarsalis* and 1 *Anopheles freebornii*. Independence picked up 12 *Culex tarsalis* and 1 *Culiseta inornata*. Lone Pine came in with 133 *Culex tarsalis* and 2 *Culiseta inornata*. No invasive *Aedes* species were detected.

Next week, EVS traps will be deployed along the south district run from (Aberdeen to Cartago).

**DISEASE TESTING SUMMARY**

OVMAP sent out 9 Mosquito Pool Samples to be tested for West Nile virus (WNV), Saint Louis encephalitis virus (SLEV) and Western equine encephalitis (WEE). The samples came from 4 different locations near the Mammoth, Bishop and Big Pine areas, they were shipped to the UC Davis Laboratory staff and the results tested negative for all viruses.