

# WEEKLY REPORT

OWENS VALLEY MOSQUITO ABATEMENT PROGRAM ◦ MAMMOTH LAKES MOSQUITO ABATEMENT DISTRICT

## WEEK 25: JUNE 16 TO JUNE 22, 2024

### PAST WEEK'S TREATMENT SUMMARY

Larvacide treatments have been ongoing throughout Owens Valley along with inspections and treatments in 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 south of town at the Yribarren Ranch. Treatments have been made north and east of Big Pine this week, along the Owens River, Klondike Lake and the Tinemaha areas as well. Independence, Lone Pine and Cartago also had treatments this week. Ongoing surveillance in the Olancha and Keeler areas has checked out minimal for mosquito activity.

We have received notification that the Lower Owens River Project water flows are expected to rise again next week beginning today. OVMAP staff will continue to monitor this closely and make treatments as necessary.

A CO2 EVS trapping run was completed on Owens Dry Lake this week. All five traps set ran well. ODL trap #1 collected 15 *Culex tarsalis* and 1 *Culex erythrothorax*. ODL trap #2 produced 3 *Culex tarsalis*. No mosquitoes had been detected in any of the remaining ODL traps.



Photo on the left is a variety of 4 different mosquito species collected from a single trap east of Bishop, on the right, OVMAP staff performing a larvacide treatment in the Mammoth Lakes area.



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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 tahoensis</i>	<i>Culiseta inornata</i>	<i>Culiseta incidens</i>	TOTAL
Mammoth Lakes (Tamarack)	0	0	0	0	0	0	0	3	0	0	3
Mammoth Lakes (Snow creek)	0	0	0	0	0	0	0	31	1	4	36
Bishop (Bear Creek)	3	0	0	0	0	0	0	0	0	0	3
Bishop (Williams Creek)	1	0	0	0	0	0	0	0	0	0	1
Bishop (Van Loon)	3	0	0	0	0	0	0	0	1	0	4
Bishop (Airport Road)	32	0	1	0	0	0	0	0	2	1	36
Big Pine (Klondike Lake)	8	0	3	0	0	0	0	0	0	0	11
Big Pine (Rolling Green)	Trap Failure										0
Big Pine (Big Pine Creek)	Trap Failure										0
Tinemaha	4	0	0	0	0	0	0	0	0	0	4
<b>TOTAL</b>	<b>51</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>34</b>	<b>4</b>	<b>5</b>	<b>98</b>

## ANALYSIS OF COLLECTION RESULTS

EVS traps were positioned along the north district run (Mammoth Lakes to Tinemaha) this week. Eight of the 10 traps set ran well with no malfunctions. Windy conditions blew the bottom off the Rolling Green and Big Pine Creek traps and were counted as failures. Adult mosquito abundance has declined for the north district run this week, partially due to cooler and windy conditions, along with trap failures. The total amount of mosquitoes collected was only 98 compared to 269 on the last north run, 2 weeks ago. Most of the mosquitoes came from the Bishop Airport Road trap, containing a variety of *genus* and *species*; It had 32 *Culex tarsalis*, 1 *Anopheles freeborni*, 2 *Culiseta inornata* and 1 *Culiseta incidens*. (picture included). Tied with a total of 36 was the Snow Creek trap in Mammoth. It caught 31 *Aedes tahoensis*, 1 *Culiseta inornata* and 4 *Culiseta incidens*. Klondike Lake produced 8 *Culex tarsalis*, and 3 *Anopheles freeborni*. Bishop Van Loon collected 3 *Culex tarsalis* and 1 *Culiseta inornata*. Tinemaha south of Big Pine produced 4 *Culex tarsalis*. The Bishop Bear Creek produced 3 *Culex tarsalis*. Williams Creek only came up with 1 *Culex tarsalis*. No mosquitoes had been detected in any of the remaining EVS traps.

The BG Sentinel traps are an alternative trap that differs from EVS in that it uses a human scent lure mixture instead of CO<sub>2</sub> to attract mosquitos. It specializes in attracting invasive disease carrying mosquito species such as the *Aedes albopictus* and *Aedes aegypti*. The Bishop BG trap collected 11 *Culex tarsalis* and 1 *Anopheles freeborni*. The Big Pine trap had 3 *Culex tarsalis*. The Independence trap only caught 1 *Culex tarsalis*. The Lone Pine and Mammoth BGS traps did not produce any mosquitoes. 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

Arbovirus disease testing is scheduled to resume in July on Week 30.