

WEEKLY REPORT

OWENS VALLEY MOSQUITO ABATEMENT PROGRAM ◦ MAMMOTH LAKES MOSQUITO ABATEMENT DISTRICT

WEEK 31: JULY 28 TO AUGUST 3, 2024

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. Treatments have gone out north of Big Pine this week along with the Tinemaha Lake area. Larvacide treatments were made east of Independence, west and east of Lone Pine along with the Soda Ponds near Cartago.

The Lower Owens River Project water flows have been holding steady just under 90 cfs at the intake. OVMAP staff is monitoring this and making larvacide applications as necessary.



Photo on the left is a larval sample from the Bishop area and on the right, Mosquito Pool Samples being prepared to be shipped out to the UC Davis laboratory for virus testing.



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 tahoensis</i>	<i>Culiseta inornata</i>	<i>Culiseta incidens</i>	TOTAL
Mammoth Lakes (Tamarack)	32	0	0	0	0	0	0	1	2	2	37
Mammoth Lakes (Snowcreek)	2	0	0	0	0	0	0	0	0	0	2
Bishop (Bear Creek)	1	0	0	0	3	0	0	0	0	0	4
Bishop (Williams Creek)	14	0	2	0	6	0	0	0	0	0	22
Bishop (Van Loon)	12	0	0	0	1	0	0	0	0	0	13
Bishop (Airport Road)	Trap Failure										0
Big Pine (Klondike Lake)	54	2	11	0	6	0	0	0	0	0	73
Big Pine (Rolling Green)	Trap Failure										0
Big Pine (Big Pine Creek)	26	0	0	0	0	0	0	0	0	0	26
Tinemaha	7	0	0	0	0	0	0	0	0	0	7
TOTAL	148	2	13	0	16	0	0	1	2	2	184

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 Rolling Green traps ran out of CO2 and were counted as failures. Adult mosquito abundance has slightly decreased for the north district this week. The total amount of mosquitoes collected was 184 compared to 206 on the last north run, 2 weeks ago. Most of the mosquitoes came from the Klondike Lake trap, collecting a variety of mosquitoes with three different genus and four different species containing 54 *Culex tarsalis*, 2 *Culex erythrothorax*, 11 *Anopheles freebornii* and 6 *Aedes melanimon*. Second place went to the Tamarack trap in Mammoth with 32 *Culex tarsalis*, 1 *Aedes tahoensis*, 2 *Culiseta inornata* and 2 *Culiseta incidens*. Coming in third was Big Pine Creek collecting 26 *Culex tarsalis*. Williams Creek had 14 *Culex tarsalis*, 2 *Anopheles freebornii* and 6 *Aedes melanimon*. Van Loon picked up 12 *Culex tarsalis* and 1 *Aedes melanimon*. Tinemaha caught 7 *Culex tarsalis* and Snowcreek in Mammoth only produced 2 *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 2 *Culex tarsalis* and 1 *Aedes tahoensis*. Big Pine had 3 *Culex tarsalis*. None of the other BGS traps produced 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

OVMAP sent out three Mosquito Pool Samples this week to be tested for West Nile virus (WNV), Saint Louis encephalitis virus (SLEV) and Western equine encephalitis virus (WEEV). The samples were shipped to the UC Davis Laboratory staff and the results came back negative for all viruses.