

# WEEKLY REPORT

OWENS VALLEY MOSQUITO ABATEMENT PROGRAM ◦ MAMMOTH LAKES MOSQUITO ABATEMENT DISTRICT

## WEEK 23: JUNE 2 TO JUNE 8, 2024

### PAST WEEK'S TREATMENT SUMMARY

Larvacide treatments have been ongoing throughout the Owens Valley and the high country including the Mammoth Lakes District. Larvacide applications were applied in the Mammoth Lakes area and treatments were also performed in the north and northeast pastures near Bishop. Treatments have been made north of Big Pine this week also including the Klondike Lake area. Independence had treatments made in the fields east of town including parts of the Lower Owens River. Treatments were also made in the Lone Pine and Cartago areas. Ongoing surveillance in the Olancha and Keeler areas has checked out minimal for mosquito activity. OVMAP staff continues to survey and make treatments in the high country as necessary.

The Lower Owens River Project water flows have increased this week from 43 to over 100 cfs so far for the Seasonal Habitat Flow. It's expected to peak at 200 cfs by next Tuesday. OVMAP staff have made pre-flood treatments this week and are monitoring this closely in case any ULV fog treatments might need to be performed.



Photo on the left is a not so common tree hole mosquito (*Aedes sierrensis*) and on the right, is a CO2 mosquito trap on the Owens Dry Lake.



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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 sierrensis</i>	<i>Culiseta inornata</i>	<i>Culiseta incidens</i>	TOTAL
Mammoth Lakes (Tamarack)	No Mosquitos Detected										0
Mammoth Lakes (Snow Creek)	No Mosquitos Detected										0
Bishop (Bear Creek)	No Mosquitos Detected										0
Bishop (Williams Creek)	17	0	0	0	1	0	0	0	0	0	18
Bishop (Van Loon)	33	0	0	0	1	0	0	0	0	0	34
Bishop (Airport Road)	167	0	2	0	2	0	0	0	0	0	171
Big Pine (Klondike Lake)	Trap Failure										0
Big Pine (Rolling Green)	2	0	0	0	0	0	0	0	0	0	2
Big Pine (Big Pine Creek)	0	0	0	0	1	0	0	0	0	0	1
Tinemaha	40	0	0	0	2	0	0	1	0	0	43
<b>TOTAL</b>	<b>259</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>269</b>

## 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 Klondike Lake trap failed. Adult mosquito abundance is on the rise for the north district run this week. The total amount of mosquitoes collected added up to 269. Most of the mosquitoes came from the Bishop Airport Road trap, collecting 167 *Culex tarsalis*, 2 *Anopheles freebornii* and 2 *Aedes melanimon*. The Tinemaha trap caught 40 *Culex tarsalis*, 2 *Aedes melanimon* and 1 less common *Aedes sierrensis* - Tree Hole Mosquito. Van Loon had 33 *Culex tarsalis* and 1 *Aedes melanimon*. Williams Creek north of Bishop produced 17 *Culex tarsalis* and 1 *Aedes melanimon*. Big Pine Rolling Green trap came in with 2 *Culex tarsalis* and Big Pine Creek only had 1 *Aedes melanimon*. No mosquitoes had been detected in any of the remaining 4 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 16 *Culex tarsalis* and 1 *Aedes increpitus* at the Bishop Golf Course. The Big Pine trap had 3 *Culex tarsalis* and 1 *Anopheles freebornii*. Lone Pine collected 4 *Culex tarsalis*. Mammoth and Independence BGS traps didn't produce any mosquitoes. No invasive *Aedes* species were detected.

A CO<sub>2</sub> EVS trapping run was completed on Owens Dry Lake this week. Three of the five traps set worked well and did not produce any mosquitoes. ODL trap # 1 and # 5 failed. ODL trap #2 produced 6 *Culex tarsalis*. No mosquitoes had been detected in any of the remaining ODL traps.

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.