

WEEKLY REPORT

OWENS VALLEY MOSQUITO ABATEMENT PROGRAM ◦ MAMMOTH LAKES MOSQUITO ABATEMENT DISTRICT

WEEK 33: AUGUST 13 TO AUGUST 19, 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 Owens River out of Pleasant Valley has finally calmed down and is holding steady at around 400 cfs. This should allow us to access more of the breeding oxbows and gain better control of the mosquito larvae.

The Lower Owens River Project water flows have receded slightly this week, holding around 90 cfs at the intake. OVMAP staff are still monitoring this and making larvacide applications as necessary.

ULV fog treatments were performed in the Dixon Lane, Bear Creek and Yribarren Ranch areas near Bishop this week.



Photo on the left is an EVS trap net with live SLEV positive adult mosquitoes, on the right are the mosquito pool samples that were sent out this week for disease 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>	TOTAL
Mammoth Lakes (Tamarack)	No Mosquitos Detected										0
Mammoth Lakes (Snowcreek)	10	0	0	0	0	0	0	3	0	3	16
Bishop (Bear Creek)	No Mosquitos Detected										0
Bishop (Williams Creek)	334	0	5	0	19	0	0	0	3	0	361
Bishop (Van Loon)	131	0	1	0	9	0	0	0	0	0	141
Bishop (Airport Road)	1	0	0	0	0	0	0	0	0	0	1
Big Pine (Klondike Lake)	0	1	0	0	0	0	0	0	0	0	1
Big Pine (Rolling Green)	59	0	10	0	36	0	0	0	0	0	105
Big Pine (Big Pine Creek)	1	0	0	0	0	0	0	0	0	0	1
Tinemaha	54	0	1	0	35	0	0	0	0	0	90
TOTAL	589	1	17	0	99	0	0	3	3	3	715

ANALYSIS OF COLLECTION RESULTS

EVS traps were positioned along the north district run (Mammoth Lakes to Tinemaha) this week. All ten traps set ran well with no malfunctions. Adult mosquito abundance has decreased for the north district runs this week. The total amount of mosquitoes collected was 715 compared to 887 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 4 different species containing: 334 *Culex tarsalis*, 5 *Anopheles freeborni*, 19 *Aedes melanimon* and 3 *Culiseta inornata*. The Van Loon trap in Bishop caught 131 *Culex tarsalis*, 1 *Anopheles freeborni* and 9 *Aedes melanimon*. Big Pine Rolling Green produced 59 *Culex tarsalis*, 10 *Anopheles freeborni* and 36 *Aedes melanimon*. Tinemaha had 54 *Culex tarsalis*, 1 *Anopheles freeborni*, and 35 *Aedes melanimon*. Snowcreek from Mammoth picked up 10 *Culex tarsalis*, 3 *Aedes tahoensis* and 3 *Culiseta incidens*. Klondike Lake had 1 *Culex erythrothorax*. Both the Bishop Airport Road and Big Pine Creek traps only caught 1 *Culex tarsalis* each. 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 14 *Culex tarsalis*, and 2 *Culiseta incidens*. Bishop caught 114 *Culex tarsalis*, 1 *Anopheles freeborni* and 1 *Culiseta inornata*. Big Pine had 28 *Culex tarsalis* and 1 *Anopheles freeborni*. Independence picked up 10 *Culex tarsalis*. Lone Pine came in with 27 *Culex tarsalis* and 2 *Culex erythrothorax*. 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 8 Mosquito Pool Samples to be tested for West Nile virus last week. All samples tested negative for (WNV), Saint Louis encephalitis virus (SLEV) and Western equine encephalitis (WEE) except for the sample on the far right, it tested positive for **St. Louis encephalitis virus**. The sample was collected north of Bishop near Williams creek.

