

WEEKLY REPORT

OWENS VALLEY MOSQUITO ABATEMENT PROGRAM ◦ MAMMOTH LAKES MOSQUITO ABATEMENT DISTRICT

WEEK 35: AUGUST 27 TO SEPTEMBER 2, 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. Treatments were also made east of Independence and south of Lone Pine along with the Diaz Lake area.

The Owens River out of Pleasant Valley has gone down and is holding steady at around 300 cfs. This allows us to access more of the mosquito breeding areas and gain better control of the mosquito larvae.

The Lower Owens River Project water flows have receded down to 50 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, Glenwood and Highlands mobile home parks, Laws Museum and the Yribarren Ranch areas this week.



Photo on the left is a ULV fog treatment inside the Tri-County fairgrounds from this morning, on the right are the five 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 Taohensis</i>	<i>Culiseta inornata</i>	<i>Culiseta incidens</i>	TOTAL
Mammoth Lakes (Tamarack)	No Mosquitos Detected										0
Mammoth Lakes (Snowcreek)	3	0	0	0	0	0	0	1	0	0	4
Bishop (Bear Creek)	9	0	0	0	0	0	0	0	0	0	9
Bishop (Williams Creek)	191	1	1	0	33	0	0	0	1	0	227
Bishop (Van Loon)	No Mosquitos Detected										0
Bishop (Airport Road)	5	0	0	0	1	0	0	0	0	0	6
Big Pine (Klondike Lake)	1	0	0	0	0	0	0	0	0	0	1
Big Pine (Rolling Green)	0	0	0	0	1	0	0	0	0	0	1
Big Pine (Big Pine Creek)	138	0	0	0	0	0	0	0	0	0	138
Tinemaha	No Mosquitos Detected										0
TOTAL	347	1	1	0	35	0	0	1	1	0	386

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 386 compared to 715 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: 191 *Culex tarsalis*, 1 *Culex erythrothorax*, 1 *Anopheles freeborni*, 33 *Aedes melanimon* and 1 *Culiseta inornata*. The Big Pine Creek trap caught 138 *Culex tarsalis*. Bear Creek in Bishop produced 9 *Culex tarsalis*. Airport Road had 5 *Culex tarsalis* and 1 *Aedes melanimon*. Snowcreek from Mammoth picked up 3 *Culex tarsalis* and 1 *Aedes taohensis*. Both the Big Pine Rolling Green and Klondike Lake 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 9 *Culex tarsalis*, and 1 *Culiseta inornata*. Bishop caught 60 *Culex tarsalis* 3 *Anopheles freeborni* and 1 *Aedes melanimon*. Big Pine had 45 *Culex tarsalis* and 6 *Anopheles freeborni*. Independence picked up 9 *Culex tarsalis*. Lone Pine came in with 46 *Culex tarsalis*. No invasive *Aedes* species were detected.

Staff set out adult mosquito EVS traps on the Owens Dry Lake this week which did not produce any mosquitoes.

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

DISEASE TESTING SUMMARY

OVMAP sent out 5 Mosquito Pool Samples to be tested for disease last week. All samples tested negative for (WNV), Saint Louis encephalitis virus (SLEV) and Western equine encephalitis (WEE) except for the sample in the middle, it tested positive for **West Nile virus**. The sample was collected north of Bishop near Williams creek.

