

WEEKLY REPORT

OWENS VALLEY MOSQUITO ABATEMENT PROGRAM ◦ MAMMOTH LAKES MOSQUITO ABATEMENT DISTRICT

WEEK 21: MAY 19 TO MAY 25, 2024

PAST WEEK'S TREATMENT SUMMARY

Larvacide treatments have been ongoing throughout Owens Valley. Larvacide applications were applied in the north and northeast pastures near Bishop. Significant efforts have been made to mitigate larval finds along the Owens River oxbows. Treatments have been made north and east of Big Pine this week, also including the Klondike Lake area. Independence and Lone Pine had treatments including parts of the Lower Owens River. Ongoing surveillance in the Cartago and Keeler areas has checked out minimal for mosquito activity.

The Owens River water flows have been running high due to spring runoff. OVMAP staff are monitoring this closely and making larvacide treatments in accessible areas. ULV fog applications were made near the Owens River also.

Staff is monitoring mosquito sources and making treatments near the Bishop Fairgrounds for the Mule Days event.

OVMAP had a public outreach - mosquito booth at the Earth Day event that was held in the Bishop City Park last month.



Photo on the left is our Earth Day booth at the Bishop City Park. and on the right, a variety of 5 different species of mosquitoes caught in a single trap near Cartago last week.



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 vexans</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)	Trap Failure										0
Bishop (Williams Creek)	No Mosquitoes Detected										0
Bishop (Van Loon)	1	0	0	0	0	0	0	0	1	0	2
Bishop (Airport Road)	39	0	1	0	2	0	0	0	1	0	43
Big Pine (Klondike Lake)	1	0	0	0	0	0	0	0	0	0	1
Big Pine (Rolling Green)	10	0	0	0	0	0	0	0	1	0	11
Big Pine (Big Pine Creek)	1	0	0	0	0	0	0	0	0	0	1
Tinemaha	11	0	0	0	0	0	0	0	0	0	11
TOTAL	63	0	1	0	2	0	0	0	3	0	69

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 wind blew the bottom off the Bear Creek trap near Bishop and was counted as a failure. The cooler temperatures and windy trapping conditions probably helped keep the adult mosquito abundance lower, considering the extra water spreading around the north district run this week. The total amount of mosquitoes collected was 69. Most of the mosquitoes came from the Bishop Airport Road trap, it collected a variety of mosquitoes, with four genera and four different species: 39 *Culex tarsalis*, 1 *Anopheles freebornii*, 2 *Aedes melanimon*, and 1 *Culiseta inornata*. The Big Pine Rolling Green trap caught 10 *Culex tarsalis* and 1 *Culiseta inornata*. Tinemaha came in with 11 *Culex tarsalis*. The Van Loon trap in Bishop caught 1 *Culex tarsalis*, and 1 *Culiseta inornata*. Both Big Pine Creek and Klondike Lake only produced 1 *Culex tarsalis* each. 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 CO₂ to attract mosquitos. It specializes in attracting invasive disease carrying mosquito species such as the *Aedes albopictus* and *Aedes aegypti*. The Bishop BGS trap captured 27 *Culex tarsalis* and 1 *Culiseta inornata*. Big Pine collected 3 *Culex tarsalis*. Lone Pine had 8 *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

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