

DELTA MOSQUITO & VECTOR CONTROL DISTRICT

Dr. Mustapha Debboun
General Manager

Post Office Box 310 * Visalia, California 93279-0310

Mir Bear-Johnson
Assistant Manager

1737 West Houston Avenue * Visalia, California 93291

Phone (559) 732-8606 * (877) 732-8606 * Fax (559)-732-7441

www.deltavcd.com

Hector Cardenas
Operations Program Manager

Crystal Grippin
Scientific Program Manager

Sheri D. Davis
Administrative Assistant



Erick Arriaga
*Community Education and
Outreach Coordinator*

REPORT OF THE MANAGER DECEMBER 2021

I. Water and Weather

The temperature remained low throughout the month of December. The Delta Mosquito and Vector Control District (DMVCD) Weather Station reported an average high temperature of 55.7°F with an average low of 40.4°F and 4.83 inches of rainfall. The National Oceanic and Atmospheric Administration 1981-2010 seasonal averages for high and low temperatures in December were 54.5°F and 37.8°F respectively, with average rainfall of 1.74 inches.

Water storage at Pine Flat Reservoir increased to 271,679 acre-feet by the end of the month. By December 30, 2021, Pine Flat Reservoir's inflow had increased to 1,058 cubic feet per second (CFS) and its release decreased to 70 CFS. The Lake Kaweah Reservoir ended the month with less water than the previous month, with 24,970 acre-feet. Lake Kaweah's inflow increased at the end of the month, with the reading from December 30, 2021, showing 429 CFS and its release was increased significantly to 255 CFS.

II. Narrative

Operations continued with preventative winter maintenance completing 14 fleet vehicles. Vehicle T-26 was placed on auction through Govdeal.com on 12/21/2021 and sold on 12/30/2021. Asset was retrieved on 1/8/2022 and sold at a price of \$3,900.00.

In addition, operation continued building maintenance. The interiors of the auto shop and mechanic office were painted. The old office copy room was converted into an office for the Community Education and Outreach Coordinator, and a desk was modified from the Tulare County Surplus store to fit the room. The filing cabinets for the Administrative Assistant were refurbished. All chairs in the Quonset were replaced with chairs purchased at the Tulare County surplus store. The welding area was moved from the wood shop to the main auto shop. Repair was completed on the Migwelder that was previously out of service. Interior lighting was replaced inside Assistant Manager's office with LED lights.

Operations began recruitment of the Vector Control Technician III/ Mechanic on 12/20/21 on Indeed.

Field operations had a total of 2 service requests and 2 pesticide applications. Field safety equipment was inventoried and all expired items in first aid kits were replaced. Personal Protective Equipment (PPE) was collected, cleaned, and stocked. Additional PPE was ordered to replenish current stock for the 2022 mosquito season.

Mosquito surveillance did not take place in December because of the cold weather. Arbovirus testing for West Nile virus (WNV), St. Louis Encephalitis virus (SLEV), and Western equine encephalitis virus (WEEV), did not take place in December. To date, a total of 3,052 mosquito samples have been tested with 274 samples positive for WNV and 4 positive for SLEV.

There was only one mosquitofish request in December. A total of 60 mosquitofish were distributed through 1 homeowner request. Mosquitofish production has halted for the winter.

The Centers for Disease Control and Prevention (CDC) biobottle assay was performed on a susceptible laboratory CQ1 mosquito colony for baseline data. No field larval mosquito samples were brought to the laboratory for processing.

Laboratory staff worked on creating posters for the American Mosquito Control Association (AMCA) and Mosquito and Vector Control Association of California (MVCAC) Annual Conferences, analyzing data from the 2021 mosquito season, and writing the 2021 DMVCD Annual Report in December. Additionally, staff continued working on winter maintenance and repairs as well as ordering and restocking supplies for the 2022 mosquito season.

In December, we decided on a final version of the updated outdoor facility sign that will replace the old existing sign. Order was placed with a January delivery date. We have obtained a delivery window for the new Community Education and Outreach van for March 2022.

There were 2 service requests in December.

2021 Service Request Summary

2021	Fish	Inspection	Mosquito	Source	Other	Total
January	0	0	1	2	0	3
February	0	0	0	2	0	2
March	0	0	7	17	3	27
April	19	9	11	26	3	68
May	31	51	4	27	2	115
June	23	88	36	34	1	182
July	14	33	64	46	2	159
August	10	14	94	56	0	174
September	14	1	64	31	0	110
October	4	1	27	15	0	47
November	2	1	4	10	0	17
December	1	0	1	0	0	2
Total	117	202	310	267	11	907

III. Vector and Disease Surveillance

Delta MVCD Vector Abundance and Arbovirus Summary

Humans: There were no human cases of an arbovirus reported in December. In 2021, there were 2 WNV human cases and 1 WNV/SLEV human case reported to the District by the local Tulare County Public Health Department.

Birds: There were no dead bird carcasses reported to the District in December. In 2021, a total of 5 dead birds were positive for WNV out of 12 dead birds tested.

Mosquitoes: There were no mosquito samples collected in December. In 2021, a total of 278 samples were positive for WNV and 4 for SLEV out of 3,052 tested.

State Surveillance:

Humans: A total of 10 new human cases have been reported since the previous report. According to provisional data for 2021, 116 human cases of WNV were reported in 27 counties including 8 from Tulare County. An additional 3 human cases of SLEV were also reported. Additionally, there were 3 travel-associated chikungunya virus cases and 1 travel-associated Zika virus case in California during 2021.

Birds: There was 1 WNV positive dead bird since the last report. According to provisional data for 2021, 210 WNV positive dead birds were reported from 19 counties.

Mosquitoes: Since the last report, 2 mosquito samples tested positive for WNV. According to provisional data for 2021, a total of 37,890 mosquito samples were tested for WNV with 2,262 samples positive from 25 counties. A total of 34,965 samples were also tested for SLEV with 44 SLEV positive samples from 8 counties.

IV. Expenditures & Revenues – 2021/22

TOTAL BUDGET \$3,974,072.78

EXPENDITURES – July 1, 2021 – December 31, 2021

Salaries	\$1,462,418.70
Services & Supplies	\$575,102.75
Tax Admin Fee	\$34,248.50
Capital	\$126,242.74
Long Term Debt	\$58,914.03
TOTAL EXPENDITURES	\$2,256,926.72

REVENUE RECEIVED – July 1, 2021 – December 31, 2021

July	\$137.48
August	\$0
September	\$12,309.21
October	\$35,667.25
November	\$0
December	\$2,379,114.09
TOTAL REVENUE TO DATE	\$2,427,228.03

V. **Time Sheet Summary**

Month	Available Work Hrs	Sick Hrs Used	Total Hrs Available for Work	Pct. Of Hrs Avail for Work
July	5,376	119.25	5,256.75	97.79
August	5,808	210.00	5,598.00	96.40
September	5,712	134.50	5,577.50	97.65
October	4,200	105.50	4,094.50	97.49
November	2,584	40.00	2,544.00	98.46
December	1,920	60.00	1,860.00	96.88

The District has a vacation policy that requires 24-hour notice in order to ensure the operational integrity of the workforce. Sick leave for doctor, dentist and/ or family medical necessity also requires advance notice- in so much as it is possible. Illness is unplanned and therefore unscheduled. Attendance records for the current year are shown in the table.