

DELTA MOSQUITO & VECTOR CONTROL DISTRICT

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REPORT OF THE MANAGER MAY 2021

I. Water and Weather

The temperature remained low throughout the month of May. The average high temperature was 86.1°F with an average low of 56.4°F. Preliminary data from the Delta Mosquito & Vector Control District (DMVCD) Weather Station reported 0.18 inches of rainfall. The National Oceanic and Atmospheric Administration 1981-2010 seasonal averages for high and low temperatures in May were 81.6°F and 55.7°F respectively, with average rainfall of 0.35 inches.

Water storage at Pine Flat Reservoir increased to 404,841 acre-feet by the end of the month. By May 31, 2021 Pine Flat Reservoir's inflow had decreased to 1,047 cubic feet per second (CFS) and its release increased dramatically to 1,363 CFS. The Lake Kaweah Reservoir ended the month with more water than the previous month, with 62,913 acre-feet on May 31, 2021. Lake Kaweah's inflow decreased to 146 CFS and its release was increased to 62 CFS.

II. Narrative

Routine mosquito surveillance continued throughout the month of May. A total of 8,584 mosquitoes were collected across 1,018 trap nights. The District-wide average of 8.4 mosquitoes per trap night for the month of May is 64.1% lower than the 5-year average of 23.4 but only 22.2% lower than the 2020 average of 10.8 mosquitoes per trap night.

Mosquito-borne disease testing for West Nile virus (WNV), St. Louis Encephalitis virus (SLEV), and Western Equine Encephalitis virus (WEEV) began on May 3, 2021. Mosquito-borne disease testing provides an early warning for virus activity and is an important component of the District's integrated vector management plan. On May 14, 2021, disease testing was temporarily halted after a power outage damaged some electrical components in the laboratory. Testing resumed on May 24, 2021, following repairs.

Mark Nakata, Biologist, traveled to the San Joaquin County Mosquito and Vector Control District in early May to receive mosquitofish to stock District tanks. It had been increasingly hard these past years, and especially this year, to locate healthy fish within District borders, and we greatly appreciate our sister agency being able to donate five pounds of mosquitofish to the District.

Throughout the month of May, approximately 1,147 mosquitofish were distributed through 39 homeowner and technician requests. In addition, approximately 1,661 mosquitofish fry were produced during the month.

District Manager, Dr. Debboun and Assistant Manager, Mir Bear-Johnson attended the American Mosquito Control Association Virtual Washington Conference and participated in its Legislative Day and spoke to the offices of Representative Nunes, Representative McCarthy, and Representative Valadao regarding the Strengthening Mosquito Abatement for Safety and Health (SMASH) Act, the importance of mosquito control, and VectorSurv.

On May 5, 2021, at 10 am, Mir Bear-Johnson participated in an Instagram Live event hosted by San Gabriel Valley Mosquito and Vector Control District called Mosquito Bites Live.

With the lifting of some safety restrictions, requests for presentations began in May, with Crystal Grippin, Scientific Program Manager, presenting at the Visalia Breakfast Lions Club early in the month.

Mir Bear-Johnson attended a Woodlake City Council Meeting on May 10, 2021, by request, and presented on current District activities, as well as why a potential assessment was being considered by the District.

The photos for the aerial flyover were given to the District in early May, and after evaluation, 270 locations were distributed to the Urban Zone Technicians to begin inspections, across all urban areas within the District. Out of the 270 aerial pools identified, 210 have been inspected and completed. Twenty three of the 270 pools are currently pending inspections and 37 properties will require a warrant inspection.

On Tuesday, May 25, 2021, the District hired Riley Unrau as a seasonal who will be assisting the urban mosquito crew. He will work under Rick Alvarez (Field Supervisor) to aid in inspections of high trap count areas throughout the District.

During the month of May, the District has completed one full rotation of applications in our storm drain program throughout our jurisdiction. This includes all street drain, parking lots, schools, and parks. Inspections and treatments will be continuous throughout the mosquito season.

On Thursday, May 20, 2021, the District hosted the Vector Control Technician Exam for 21 participants, 10 of whom were from the District. Following the exam, Bryan Ferguson, Vector Control Tech III Mechanic and Alex Ward, Vector Control Tech II are now fully certified. Additionally, Mario Sanchez, Vector Control Tech III Mechanic, and three seasonal technicians all passed Category A.

Larviciding aerial treatment of the Kaweah River Rock Plant continued in May, with the second treatment taking place on May 25, 2021. Contact with the impending management of the site has confirmed that there will be no gaps in necessary larviciding coverage.

Throughout May, employees who were not fully vaccinated continued to complete the online screening of COVID-19 survey and take paid time off to seek test results when required. The District will continue to be proactive in keeping employees and the public safe. Staff are encouraged to be fully vaccinated and allowed to take work time to do so.

There were 114 service requests in May:

2021 Service Request Summary

2021	Fish	Inspection	Mosquito	Source	Other	Inquiries	Total
January	0	0	1	2	0	0	3
February	0	0	0	2	0	0	2
March	0	0	7	17	1	2	27
April	21	0	14	31	1	1	68
May	31	20	27	35	0	1	114
Total	52	20	49	87	2	4	214

III. Vector and Disease Surveillance

Delta MVCD Summaries

Humans: There were no human cases of an arbovirus reported by the local public health department for the month of May.

Birds: A total of 4 dead birds were reported to the District and tested for WNV, SLEV, and WEEV in May. None were positive.

Mosquitoes: A total of 203 mosquito samples were tested in May. None were positive for WNV, SLEV, or WEEV. So far, 251 mosquito samples have been tested in 2021 with no positive samples.

State Surveillance:

Humans: No human cases of an arbovirus have been reported across the state.

Birds: Four WNV positive birds have been reported out of 260 tested in the month of May. In 2021, a total of 475 birds were tested with 4 positive for WNV.

Mosquitoes: Statewide, a total of 5,526 mosquito samples were tested for WNV, SLEV, and WEEV. No mosquito samples were positive.

IV. Expenditures & Revenues – 2020/21

TOTAL BUDGET \$3,594,403.09

EXPENDITURES – July 1, 2020 – May 31, 2021

Salaries	\$2,155,931.60
Services & Supplies	\$546,989.35
Tax Admin Fee	\$61,380.00
Capital	\$9,765.74
Building Improvements	\$355,882.69

TOTAL EXPENDITURES	\$3,129,949.38
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REVENUE RECEIVED – July 1, 2020 – May 31, 2021

July	\$1,011.30
August	\$0.00
September	\$22,679.32
October	\$4,651.34
November	\$62.67
December	\$1,551,138.77
January	\$296,201.40
February	\$2,082.40
March	\$19,522.97
April	\$861,016.79
May	\$349,396.80
TOTAL REVENUE TO DATE	\$3,107,763.76

V. **Time Sheet Summary**

Month	Available Work Hrs	Sick Hrs Used	Total Hrs Available for Work	Pct. Of Hrs Avail for Work
July	5,632	50.25	5,581.75	99.10
August	5,376	133.25	5,242.75	97.53
September	4,816	99.75	4,716.25	97.93
October	3,520	123.25	3,396.75	96.50
November	2,016	132.00	1,884.00	93.46
December	1,960	100.00	1,860.00	94.90
January	1,950	146.00	1,804.00	92.52
February	2,100	30.25	2,069.75	98.55
March	2,576	93.25	2,482.75	96.38
April	3,664	88.00	3,576.00	97.60
May	5,120	122.25	4,997.75	97.62

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.