

DELTA MOSQUITO & VECTOR CONTROL DISTRICT

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REPORT OF THE MANAGER APRIL 2021

I. Water and Weather

The temperature remained low throughout the month of April. The average high temperature was 79.7°F with an average low of 50°F. Data from the Delta Mosquito and 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 April were 73.4°F and 49.2°F respectively, with average rainfall of 0.94 inches.

Water storage at Pine Flat Reservoir increased to 328,143 acre-feet by the end of the month. By April 30, 2021 Pine Flat Reservoir's inflow had increased to 1,342 cubic feet per second (CFS) and its release increased to 264 CFS. The Lake Kaweah Reservoir ended the month with more water than the previous month, with 46,246 acre-feet on April 30, 2021. Lake Kaweah's inflow increased to 408 CFS and its release was increased to 59 CFS.

II. Narrative

Seasonal vacancies in both the laboratory and operations continued to be filled during the month, with all current positions filled by the end of April, and training completed. Safety training took place in batches to ensure COVID-19 compliance. Staff began field work in earnest during the month, with field staff starting in early April and urban staff starting mid-April. Staggered start times began to ensure COVID-19 compliance and allow staff to avoid the worst of the heat where possible.

Routine mosquito trapping surveillance began in the first week of April. Approximately 259 mosquito traps were set per week. Of these, 239 were set in urban and suburban areas with 4 gravid traps and 1 BG Sentinel trap set per square mile of populated area. The remaining 20 Encephalitis Virus Surveillance (EVS) traps were set in rural areas of historically high mosquito and arbovirus activity.

The Dead Bird Hotline (1-877-968-2473) re-opened on April 12, 2021, allowing residents to report dead birds to the DVCD for arbovirus testing.

Dr. Debboun and Mir Bear-Johnson attended the Mosquito and Vector Control Association Virtual Legislative Day and spoke to Assembly member Patterson and Assembly member Mathis regarding the importance of the VectorSurv system and Vector Control as a whole.

Dr. Debboun was invited and attended a Visalia City Council Member Meeting on April 19th, prompting an article in the Visalia Times-Delta, a brief interview and news segment on the CBS Eyewitness Channel 47 news the following week, and a recent article in early May in the Exeter Sun-Gazette Newsletter.

An aerial flyover for green pools was conducted near the end of the month. The photos and results are anticipated to be sent to the District in early May.

Larviciding aerial treatment of the Kaweah River Rock Plant began for the year, following high trap counts. The first treatment took place on April 27th, and subsequent treatments are planned every four weeks for the remainder of the mosquito season, dependent on trap results. Management is likely to change for the site, and the District has been in contact with the new management to ensure a smooth transition and no gaps in larviciding coverage.

Throughout April, 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, with no planned rollback of any of the safety precautions that have been put in place. Staff are encouraged to be fully vaccinated and allowed to take work time to do so.

There were sixty-eight service requests in April:

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
Total	21	0	14	52	2	3	100

III. Vector and Disease Surveillance

Delta VCD Summaries

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

Birds: No dead birds were reported within the District boundaries in the month of April.

Mosquitoes: The average number of female mosquitoes per trap night in April was 2.51, which is 77.8% lower than the 5-year average. A total of 48 mosquito samples, containing 10 to 50 mosquitoes each, were collected in April and tested for West Nile virus, St. Louis encephalitis virus, and Western Equine encephalitis virus on May 3rd, 2021.

State Surveillance:

Humans: No human cases were reported in April. At this time in 2020, no human cases were reported.

Birds: No birds were positive for an arbovirus out of the 215 submitted for testing. At this time in 2020, 3 dead birds were positive out of 125 tested.

Mosquitoes: No mosquito samples were positive out of the 1,619 tested. At this time in 2020, no mosquito samples were positive out of 1,400 tested.

IV. Expenditures & Revenues – 2020/21

TOTAL BUDGET \$3,516,071.89

EXPENDITURES – July 1, 2020 – April 30, 2021

Salaries	\$1,961,609.09
Services & Supplies	\$517,992.17
Tax Admin Fee	\$61,380.00
Capital	\$9,765.74
Building Improvements	\$351,882.69
TOTAL EXPENDITURES	\$2,902,629.69

REVENUE RECEIVED – July 1, 2020 – April 30, 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
TOTAL REVENUE TO DATE	\$2,758,366.96

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

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.