DELTA VECTOR CONTROL DISTRICT

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REPORT OF THE MANAGER December 2020

I. Water and Weather

The temperature in December remained low throughout the month of December. The average high temperature for the month was 59.7°F with an average low of 36.9°F. Preliminary data from the Delta Vector Control District Weather Station reported with 0.77 inches of rainfall. The 30-year seasonal averages for high and low temperatures in December were 54.5°F and 37.8°F respectively, with the 30-year average rainfall reported as 1.74 inches by the National Oceanic and Atmospheric Administration.

Water storage at Pine Flat Reservoir increased to 215,929 acre-feet by the end of the month. By December 31, 2020 Pine Flat Reservoir's inflow had increased to 200 cubic feet per second (CFS) and its release increased to 140 CFS. The Lake Kaweah Reservoir ended the month with significantly more water than the previous month, with 12,350 acre-feet on the 31st of December. Lake Kaweah's inflow increased to 67 CFS and its release was decreased dramatically to 5 CFS.

II. Narrative

In the laboratory, winter maintenance work, inventory, and annual report for the 2020 mosquito season began in December and will continue to take place over the winter. Posters and presentations for the 2021 MVCAC Annual Conference were completed and submitted online. Additionally, a new arbovirus-testing protocol was established and verified for Zika, dengue, and chikungunya viruses. The District will begin testing invasive *Aedes aegypti* mosquitoes for these viruses in the 2021 mosquito season, providing an early warning system for potential human outbreaks within the District.

Throughout December, employees continued to complete the online screening of COVID-19 survey and take paid time off to seek test results when required. One employee on December 15, 2020 tested positive for COVID-19, with all precautions being taken. 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.

In operations, staff continued to work on vehicle maintenance, and the maintenance needs of the District grounds and correcting safety concerns. Repair work on the auto shop roof began by M&M roofing in December.

Staff was given the opportunity to receive appreciation grocery gift cards and all opted to do so. An optional white elephant gift exchange took place on December 16, 2020.

December marked the last month that Tim Christian was an employee at Delta Vector Control District, and a farewell luncheon was held on December 22nd for him. Tim will be missed.

There were two service requests in December:

Fish Inspection Mosquito **Source** Other **Total** January **February** March April May June July August September October November **December** 1,671 **Total**

2020 Service Request Summary

III. <u>Vector and Disease Surveillance</u>

Delta VCD Summaries

<u>Humans</u>: There were no human cases of an arbovirus reported by the local public health department for the month of December. Tulare County Health and Human Services is finalizing human arbovirus results for 2020. Preliminary results show that the single human West Nile virus (WNV) infection within the District boundaries was symptomatic with the person surviving the infection. There were no WNV asymptomatic cases.

<u>Birds:</u> No dead birds were reported in the month of December. Although the Dead Bird Hotline will remain closed until April 2021, residents can still report dead birds online or directly to the District. In 2020, a total of 47 dead birds were reported to the District with only 10 considered testable. Of the 10 birds, 4 tested positive for WNV.

<u>Mosquitoes:</u> No mosquito testing took place in the month of December. For the year 2020, 2,785 mosquito samples were tested for WNV, St. Louis Encephalitis virus (SLEV), and Western Equine Encephalitis virus (WEEV). Of these 139 were positive for WNV and 37 for SLEV.

State Surveillance:

<u>Humans:</u> In 2020, there were a total of 223 human infections of WNV in California of which 197 were symptomatic infections resulting in 8 deaths and 26 asymptomatic infections. These infections were spread across 24 counties with the majority occurring in Los Angeles County (n=72). Additionally, a total of 5 human cases of SLEV were reported across 4 counties during this time period.

<u>Birds:</u> In 2020, there were a total of 1,665 dead birds tested for WNV in California. Of these, 21% (n=343) tested positive. The American Crow made up the vast majority of positive bird carcasses (n=207), followed by the California Scrub-Jay (n=61) and Yellow-billed Magpie (n=27).

<u>Mosquitoes</u>: Statewide, a total of 2,628 mosquito samples tested positive for WNV and 510 for SLEV in 2020. SLEV activity was spread across 9 counties, while WNV positive mosquitoes were found throughout 28 counties.

IV. <u>Expenditures & Revenues – 2020/21</u>

TOTAL BUDGET

\$3,516,071.89

EXPENDITURES – July 1, 2020 – December 31, 2020

Salaries	\$1,322,742.11
Services & Supplies	\$323,682.11
Tax Admin Fee	\$30,690.00
Capital	\$7,333.74
Building Improvements	\$201,123.29
TOTAL EXPENDITURES	\$1,885,571.25

REVENUE RECEIVED – July 1, 2020 – December 31, 2020

THE VERVEE RECEIVED July 1, 2020	December 51, 2020
July	\$1,011.30
August	\$0.00
September	\$22,679.32
October	\$4,651.34
November	\$62.67
December	\$1,551,138.77
TOTAL REVENUE TO DATE	\$1,579,543.40

V. <u>Time Sheet Summary</u>

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	1,820	100.00	1,720.00	94.51

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.