

# **DELTA VECTOR CONTROL DISTRICT**

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## **REPORT OF THE MANAGER JULY 2020**

### **I. Water and Weather**

The temperature in July continued to increase, with temperatures reaching over 100°F on and off throughout the month. The average high temperature for the month was 97°F, and the average low was 67°F, with 0.0 inches of rainfall reported as preliminary data from the National Oceanic and Atmospheric Administration. The 30-year seasonal averages for high and low temperatures in July are 94.1 °F and 66.7 °F respectively, with the 30-year average rainfall reported as 0.01 inches by the National Oceanic and Atmospheric Administration.

Water storage at Pine Flat Reservoir decreased by almost 50% to 338,758 acre-feet by the end of the month. By July 31<sup>st</sup> Pine Flat Reservoir's inflow had decreased by 38%, to 807 cubic feet per second (CFS) and its release decreased slightly to 5,007 CFS. The Lake Kaweah Reservoir ended the month with over 70% less water as the previous month, with 22,654 acre-feet on the 31<sup>st</sup> of July. Lake Kaweah's inflow decreased slightly to 116 CFS and its release was decreased dramatically, by over 82%, to 352 CFS.

### **II. Narrative**

The Delta Vector Control District laboratory staff continued its combined native mosquito and invasive mosquito surveillance programs to the best of their ability, with testing continuing for West Nile virus (WNV), St. Louis Encephalitis Virus (SLEV), and Western Equine Encephalitis Virus (WEEV). Unfortunately due to COVID-19, in July it became significantly more difficult to purchase yeast, which is needed for the setting of BG traps. Additionally, short staffing due to unpredicted circumstances, and truck break downs led to the inability to set the standard number of strategic EVS traps.

Arbovirus screening continued in July, with 13 mosquito collections testing positive for WNV mosquito-borne disease. There have been a total of 16 positive WNV detections from within the District boundaries so far this season and no positive SLEV detections. This is a dramatic decrease from last year at this time, when there were 486 positive WNV samples and 38 positive SLEV samples. So far, no samples have tested positive for WEEV.

The invasive *Aedes aegypti* mosquitoes have continued to be collected from across the District, with inspections from service requests and from high count trap areas already taking place. The

total number of *Aedes aegypti* caught to date are higher than last year, with a continuing rising trend likely in August. As of the end of July, a total of 1,315 inspections for the invasive *Aedes aegypti* have been conducted. Last year at this time, 780 inspections were completed. This is not a count of individual properties, as some properties have required multiple inspections both last year and this year.

Due to some resident complaints in the area and a mosquito survey resulting in a widespread of mosquitoes breeding in Cemetery containers, negotiations took place with the Manager of Visalia Public Cemetery District (VPCD) for a Vectobac WDG Wide Area Larviciding spray (WALs) application to be done in the cemetery in August. The Assistant Manager attended the VPCD board meeting to answer questions and explain the spray application process. The VPCD Board approved the plan, with a start date of August 5, 2020.

The aerial larvicide treatment of the Santa Fe Aggregates continued in July. Swimming pools identified by the aerial photographs were examined by technicians throughout the month, with some resident lockouts requiring the use of the warrant. The catch basins of outlying towns are being treated every 28 days to ensure no mosquito breeding taking place. The House Mosquito Crew is continuing to survey known sources and handle the locations from the aerial photos. To assist the House Mosquito Program, each of the field technicians has been assigned one day a week to assist in the urban areas within their zone.

Throughout the Month of July, employees continued to complete the online COVID-19 screening survey and to take paid time off to seek test results when required. All employees at this time have tested negative for COVID-19. The District will continue to be proactive in keeping all employees and the public safe, with no planned rollback of any of the safety precautions that have been put in place.

Sheri Davis, the DVCD Administrative Assistant, passed her notary exam on July 9, 2020, allowing her to continue to act as a notary when required by the District. In addition, all of the staff of DVCD recognized, congratulated, and celebrated Sheri’s 15-year work-time milestone anniversary!

The General Manager attended the National Association of County and City Health Officials (NACCHO) Virtual Annual Conference on July 7 – 9, 2020 and led a session on vector control.

The General Manager and Assistant Manager continued to attend the Mosquito and Vector Control Association of California statewide biweekly virtual Zoom discussion on COVID-19 and vector response related issues.

There were four-hundred and thirty-eight service requests during the month:

2020 Service Request Summary

<b>2020</b>	<b>Fish</b>	<b>Inspection</b>	<b>Mosquito</b>	<b>Source</b>	<b>Other</b>	<b>Total</b>
<b>January</b>	0	3	0	0	3	<b>6</b>
<b>February</b>	2	6	0	4	0	<b>12</b>
<b>March</b>	1	7	0	5	0	<b>13</b>
<b>April</b>	16	22	13	22	2	<b>75</b>
<b>May</b>	13	21	47	24	2	<b>107</b>

<b>June</b>	12	45	157	32	6	<b>252</b>
<b>July</b>	21	71	274	65	7	<b>438</b>
<b>Total</b>	<b>65</b>	<b>175</b>	<b>491</b>	<b>152</b>	<b>20</b>	<b>903</b>

**III. Vector and Disease Surveillance**

**Delta VCD Summaries**

Humans: There are no WNV positive human cases, SLEV positive human cases or WEEV positive human cases reported within Delta VCD boundaries at this time.

Birds: In July 2020, five dead birds were reported to the District, of which only one was suitable for testing. At this time, a total of five birds were viable for testing and only one tested positive for WNV.

Mosquitoes: As of July 31<sup>st</sup>, 2020, 1,494 mosquito samples from within the District have been tested for WNV, SLEV and WEEV, and 16 samples have tested positive for WNV. At this time last year, 2,439 samples were tested, with 486 testing positive for WNV and 38 testing positive for SLEV.

**State Surveillance:**

Humans: As of July 31<sup>st</sup>, 2020, five human cases of WNV were reported from three counties within the state of California. No human cases of SLEV have been detected across the state of California. At this date in 2019, four human cases were detected from four counties.

Birds: As of July 31<sup>st</sup>, 2020, 64 WNV positive dead birds have been reported from 12 counties. At this time in 2019, 43 WNV positive dead birds were reported from eight counties.

Mosquitoes: As of July 31<sup>st</sup>, 2020, 474 WNV positive mosquito samples have been reported across the state of California, from 21 counties. Additionally, a total of 143 SLEV positive mosquito pools have been reported from four counties. At this date in 2019, 1,371 WNV positive mosquito samples were reported from 20 counties, and 95 SLEV positive mosquito samples from five counties.

**IV. Expenditures & Revenues – 2020/21**

TOTAL BUDGET \$3,516,071.89

**EXPENDITURES – July 1, 2020 – July 31, 2020**

Salaries	\$420,680.77
Services & Supplies	\$121,064.55
Tax Admin Fee	0
Capital	0
Building Improvements	0
<b>TOTAL EXPENDITURES</b>	<b>\$541,745.32</b>

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

July	\$1,011.30
<b>TOTAL REVENUE TO DATE</b>	<b>\$1,011.30</b>

V. **Time Sheet Summary**

<b>Month</b>	<b>Available Work Hrs</b>	<b>Sick Hrs Used</b>	<b>Total Hrs Available for Work</b>	<b>Pct. Of Hrs Avail for Work</b>
<b>July</b>	<b>5,632</b>	<b>50.25</b>	<b>5,581.75</b>	<b>99.10</b>

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.