

DELTA VECTOR CONTROL DISTRICT

Dr. Mustapha Debboun
General Manager

Post Office Box 310 * Visalia, California 93279-0310

Jesse Erandio
Biologist

1737 West Houston Avenue * Visalia, California 93291

Mir Bear-Johnson
Assistant Manager

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

Crystal Grippin
Biologist

www.deltavcd.com

Sheri D. Davis
Administrative Assistant

Mark Nakata
Biologist

Mark Dyngge
Systems Administrator

Javier Valdivias
Biologist

REPORT OF THE MANAGER JUNE 2020

I. Water and Weather

The temperature in June continued to increase, with temperatures reaching over 100°F on and off throughout the month. The average high temperature for the month was 93.1°F, and the average low was 63.7°F, with 0.0 inches of rainfall reported as preliminary data from the Delta Vector Control District weather station. The 30-year seasonal averages for June are 61.6°F and 89.1°F respectively, with the seasonal average rainfall reported as 0.14 inches.

Water storage at Pine Flat Reservoir decreased by over 20% to 640,411 acre-feet by the end of the month. By June 30th Pine Flat Reservoir's inflow had decreased by almost 60%, to 1,301 cubic feet per second (CFS) and its release more than doubled to 5,352 CFS. The Lake Kaweah Reservoir ended the month with 40% less water as the previous month, with 81,700 acre-feet on the 30th of June. Lake Kaweah's inflow decreased by more than 75%, to 134 CFS and its release was increased dramatically to 1,966 CFS.

II. Narrative

The Delta Vector Control District laboratory staff continued its combined native mosquito and invasive mosquito surveillance programs, with testing continuing for West Nile virus (WNV), St. Louis Encephalitis Virus (SLEV), and Western Equine Encephalitis Virus (WEEV). Gravid trap averages were down from last year, at only 15 mosquitoes per trap per night, versus the 27 mosquitoes per trap per night collected in 2019. Routed BG trap averages were also down, coming in around 8 mosquitoes per trap per night, versus the 23 mosquitoes per trap per night in 2019. Strategic traps aren't directly comparable due to the lack of consistency in trap placement, but both strategic BG traps and EVS traps had lower averages than last year.

The invasive *Aedes* have continued to be found 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 slightly higher than last year, with trends looking like they will continue to rise.

Arbovirus screening officially continued in June, with one mosquito collections testing positive for disease. There have been a total of three positive WNV detections from within the District boundaries this year and no positive SLEV detections. This is a dramatic decrease from last

year at this time, when there were 87 positive WNV samples and five positive SLEV samples. So far this year, positive samples have been found from Dinuba (one) and Visalia (two) and no samples have tested positive for WEEV.

Aerial larvicide treatment of the Santa Fe Aggregates continued in June, with interference of Memorial Day at the end of May causing a slight shift in the planned schedule. Aerial photographs were examined by Mir Bear-Johnson and Mark Dynge throughout the month to locate potential breeding locations. Technicians are still attempting to access some of the locations that were marked. The catch basins of outlying towns are being treated every 28 days to ensure no mosquito breeding is taking place. The House mosquito crew is continuing to check known sources and handling the locations from the aerial photos.

On June 25th the Vector Control Technician Exam took place at Delta Vector Control District. Due to COVID-19 restrictions, the California Department of Public Health (CDPH) worked with staff to ensure appropriate sanitation and safety, leading to CDPH having a testing session at both DVCD and at Consolidated Mosquito Abatement District. DVCD hosted 18 individuals separated into three rooms, including 5 from DVCD, 12 from Kern Mosquito and Vector Control District, and 1 from Westside Mosquito and Vector Control District. Of the five who took the exam from DVCD, three passed the two exams they took.

Throughout the Month of June, several employees developed COVID-19 like symptoms, and were given paid time off as they sought out test results. All employees at this time have tested negative. The District intends to 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.

The General Manager was selected and voted in to be the Chair of the National Association of County and City Health Officials (NACCHO) Vector Control Advisory Working Group and appointed to the Mosquito and Vector Control Association of California (MVCAC) Adhoc *Aedes* Committee.

There were two-hundred and fifty-two service requests during the month:
 2020 Service Request Summary

2020	Fish	Inspection	Mosquito	Source	Other	Total
January	0	3	0	0	3	6
February	2	6	0	4	0	12
March	1	7	0	5	0	13
April	16	22	13	22	2	75
May	13	21	47	24	2	107
June	15	35	172	28	2	252
Total	47	94	232	83	9	465

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: As of June 26th, 2020, four dead birds were reported to the District, only one of which was suitable for testing. At this time no birds have tested positive for disease within the District.

Mosquitoes: As of June 26th, 2020, 1,041 mosquito samples from within the District have been tested for WNV, SLEV & WEEV, and three samples have tested positive for WNV. One sample from Dinuba and two from Northeastern Visalia. At this time last year, 1,395 samples were tested, with 87 being positive for WNV and five testing positive for SLEV.

State Surveillance:

Humans: As of June 26th, 2020, one human case of WNV was reported from Stanislaus County. No human cases of SLEV have been detected across the state of California. At this date in 2019, no human cases were detected.

Birds: As of June 26th, 2020, 19 WNV positive dead birds have been reported from seven counties. At this time in 2019, 13 WNV positive dead bird were reported from six counties.

Mosquitoes: As of June 26th, 2020, 92 WNV positive mosquito samples have been reported across the state of California, ten counties. Additionally, a total of 40 SLEV positive mosquito pools have been reported from four counties. At this date in 2019, 351 WNV positive mosquito samples were reported from nine counties, and 16 SLEV positive mosquito samples were reported from four counties.

IV. Expenditures & Revenues – 2019/20

TOTAL BUDGET \$4,053,625.97
 EXPENDITURES – July 1, 2019 – June 30, 2020

Salaries	\$2,445,585.83
Services & Supplies	\$701,663.83
Tax Admin Fee	\$61,996.00
Capital	\$45,337.36
Building Improvements	\$94,483.72
TOTAL EXPENDITURES	\$3,349,066.74

REVENUE RECEIVED – July 1, 2019 – June 30, 2020

July	\$356.00
August	\$82.30
September	\$17,909.97
October	\$2,858.74
November	\$1,593.76
December	\$1,834,682.15
January	\$385,487.27
February	\$9,687.75
March	\$32,196.19
April	\$1,079,126.73

May	\$512,255.92
June*	
TOTAL REVENUE TO DATE	\$3,876,236.78

V. **Time Sheet Summary**

Month	Available Work Hrs	Sick Hrs Used	Total Hrs Available for Work	Pct. Of Hrs Avail for Work
July	4928	94.25	4833.75	98.08
August	5104	106.00	4998.00	97.93
September	4400	71.25	4328.75	98.38
October	2680	72.50	2607.50	97.30
November	2160	75.75	2084.25	96.50
December	1920	46.50	1873.50	97.58
January	2640	78.50	2561.50	97.03
February	2280	48.00	2232.00	97.89
March	3032	70.75	2961.25	97.67
April	5632	83.75	5548.25	98.52
May	4960	72.00	4888.00	98.54
June	5456	251.50	5204.50	95.39

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.

**June revenue not available from Tulare County as of 7/3/2020.*