

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

REPORT OF THE MANAGER APRIL 2020

I. Water and Weather

Rains during the second week of April brought cooler weather, followed by temperatures increasing until the end of the month saw temperatures reaching the low 90's. The average high temperature for the month was 74°F, and the average low was 51°F, with 2.08 inches of rainfall reported as preliminary data by the National Oceanic and Atmospheric Administration, Visalia Station. The 30-year seasonal averages for April are 49.2°F and 73.4 °F respectively, with the seasonal average rainfall reported as 0.94 inches.

Water storage at Pine Flat Reservoir increased by over 25% to 685,899 acre-feet by the end of the month. By April 30th Pine Flat Reservoir's inflow had increased significantly, by over 650%, to 6,652 cubic feet per second (CFS) and its release increased only by 394% to 1,321 CFS. The last date with full data for Lake Kaweah Reservoir is from the 23rd of April, at which point the water storage was at 69,488 acre-feet, an increase of approximately 68% from the storage at the end of March. Lake Kaweah's inflow increased by over 200% by the 23rd, to 943 CFS and its release was decreased slightly to 24 CFS.

II. Narrative

The Delta Vector Control District laboratory staff began its combined native mosquito and invasive mosquito surveillance programs, setting approximately 230 mosquito traps a week. The combined program has each technician setting both gravid traps and Biogents Sentinel (BGS) traps, in set locations across the District's urban and suburban areas. Each square mile of urban or suburban area is covered with an average of five traps, four gravid and one BGS, set each week. In recent years, the urban and suburban areas across the District have been expanding into new mile sections, and prior to the start of the year, there was an intent to begin trapping in these locations as well. Unfortunately, due to COVID-19 and the desire to limit exposure between staff and the public, plans for finding additional trap hosts have been delayed at this time.

In addition to gravid trapping and BGS trapping in the urban and suburban areas, an average of 20 Encephalitis Virus Surveillance (EVS) traps were set a week to monitor mosquito activity in rural regions of the district. BGS traps have also begun to be utilized in response to service requests and to gather more data from areas we may be lacking information. Mosquito

abundance varied throughout the month of April, but in general, trap counts were lower than the average trap counts reported from April of last year.

Even though all in person outreach events for the month of April were canceled due to COVID-19, social media engagement continued. During the Mosquito and Vector Control Awareness Week, April 19-25, Biologist Crystal Grippin made themed posts across all social media outlets. Additionally, Dr. Debboun participated in an Instagram Live Event on Wednesday April 22nd in conjunction with the San Gabriel Valley Mosquito and Vector Control District.

Zone Techs completed spring mapping and their Field Condition Charts and have begun making inspections and treatments. Post emergent weed treatments continued as weather permitted and are currently at a 14-day return time. A few larval treatment requests were made through April above the normal *Bacillus thuringiensis israelensis* (Bti) treatment route. Catch-basin treatments were initiated the fourth week of April to the outlying communities, with the House Mosquito staff receiving assistance from the Zone technicians. Visalia basin treatments started the first week.

Due to COVID-19, a delay of the aerial photos is anticipated, with the flight hopefully still possibly taking place in May. Aerial larvicide treatment of the rock plant began near the end of the month and will continue for the remainder of the season, every four weeks, per protocol.

There were seventy-five service requests during the month:

2020 Service Request Summary

	Fish	Inspection	Mosquito	Source	Other	Total
January	0	3	0	0	3	6
February	2	6	0	4	0	12
March	1	5	0	7	0	13
April	16	16	17	24	2	75
Total	19	30	17	35	5	106

III. Vector and Disease Surveillance

Delta VCD Summaries

Humans: There are no West Nile Virus (WNV) positive human cases or St Louis Encephalitis Virus (SLEV) positive human cases reported within Delta VCD boundaries.

Birds: During the month of April, no dead birds were reported to the District.

Mosquitoes: Surveillance began at the start of April across the entire district. Testing will begin at the start of May.

State Surveillance:

Humans: As of May 1st, 2020, no human cases of WNV or SLEV have been detected across the state of California. At this date in 2019, no human cases were detected.

Birds: As of May 1st, 2020, three WNV positive dead birds have been reported, all from Santa Clara County. At this time in 2019, one WNV positive dead bird was reported from San Diego.

Mosquitoes: As of May 1st, 2020, no positive mosquito samples have been reported across the state of California. At this date in 2019, one positive mosquito sample had been reported from Orange County.

IV. Expenditures & Revenues – 2019/20

TOTAL BUDGET \$4,053,625.97

EXPENDITURES – July 1, 2019 – April 30, 2020

Salaries	\$2,059,531.36
Services & Supplies	\$651,594.14
Tax Admin Fee	\$61,996.00
Capital	\$45,337.36
Building Improvements	\$94,483.72
TOTAL EXPENDITURES	\$2,912,942.58

REVENUE RECEIVED – July 1, 2019 – April 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
TOTAL REVENUE TO DATE	\$3,363,980.86

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

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.