

# **DELTA VECTOR CONTROL DISTRICT**

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## **REPORT OF THE MANAGER APRIL 2019**

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

Temperatures increased significantly in April, and precipitation began to decrease. The average high temperature for the month was 81.3°F, and the average low was 50.4 °F, with 0.29 inches of rainfall reported as preliminary data by the National Weather Service, Hanford 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 to 661,959 acre-feet. By the end of the month Pine Flat Reservoir's inflow increased by over 100% to 8,525 cubic feet per second (CFS) while the release decreased by 40% to 3,894 CFS. Lake Kaweah Reservoir water storage increased during the month, by over 100%, to be 128,985 acre-feet at the end of the month. Lake Kaweah's inflow nearly doubled to 2,714 CFS, while its release stayed consistent at 1,228 CFS at month end.

### **II. Narrative**

The Delta Vector Control District laboratory staff began its full functioning WNV surveillance program with lab techs setting 172 gravid traps on a weekly basis in the District's incorporated cities at the beginning of April. These traps are designed to attract egg-laying *Culex quinquefasciatus*, a native species of mosquito which is capable of carrying West Nile Virus (WNV), St. Louis Encephalitis Virus (SLEV), and Western Equine Encephalitis Virus (WEEV). In Mid-April the *Aedes* surveillance program began, with lab techs setting 60 Biogents Sentinel (BGS) traps on a weekly basis across the District's incorporated cities. These traps are non-specific and attract both native and invasive host-seeking mosquitoes. Up to 20 additional BGS traps were set, weekly, within urban areas based on service requests, technician requests, and to better identify potential problem areas. 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. Mosquito abundance varied throughout the month of April. In general, trap counts were higher than the average trap counts reported from April of last year.

Arbovirus screening began on a limited number of mosquito collections in mid-April, due to concern raised by the public in Dinuba. At the end of April, testing began on all mosquito collections, and will continue for the remainder of the year. No mosquito collections tested positive for either WNV, SLEV or WEEV as of yet. Historically, the earliest the District has detected WNV activity has been the last week of April. Last year, 2018, the first SLEV infected mosquito collection was detected in early June, and the first WNV infected mosquito collections wasn't detected until late June.

Post-emergent weed treatments continue on a 14 day return time, which is ahead of schedule. Larval requests remained low through April. Bti Truck route is on schedule. Catch-basin treatments are being made on schedule. Zone Techs have completed spring mapping and their Field Condition Charts and have begun making inspections and treatments. Kings River and Alta Irrigation began making water deliveries to farmers on April 15<sup>th</sup>, the Southern Irrigation Districts that utilize the Kaweah and St John's rivers will start on May 6<sup>th</sup>.

There were ninety-two service requests during the month of April:

2019 Service Request Summary

	<b>Fish</b>	<b>Inspection</b>	<b>Mosquito</b>	<b>Source</b>	<b>Other</b>	<b>Total</b>
<b>January</b>	0	4	1	1	1	<b>7</b>
<b>February</b>	0	9	0	0	0	<b>9</b>
<b>March</b>	3	15	0	3	0	<b>21</b>
<b>April</b>	7	26	29	30	0	<b>92</b>
<b>Total</b>	<b>10</b>	<b>54</b>	<b>30</b>	<b>34</b>	<b>1</b>	<b>129</b>

**III. Vector and Disease Surveillance**

**Delta VCD Summaries**

Humans:

There are no new WNV positive human cases reported within Delta VCD boundaries.

Birds:

During the month of April, one dead bird was reported from Orosi within Tulare County, but was not submitted for testing.

Mosquito:

Due to public disease concern in Dinuba, all mosquito samples both from within the city and the surrounding areas were tested in mid-April, and all were negative for disease.

**State Surveillance:**

Humans: As of April 26<sup>th</sup>, 2019, no human cases of WNV have been detected across the state of California. At this date in 2018, no human cases had been detected.

Birds: As of April 26<sup>th</sup>, 2019, one bird has tested positive for WNV from San Diego County. At this date in 2018, four WNV positive birds had been reported from 2 counties in the Bay Area.

Mosquitoes: As of April 26<sup>th</sup>, 2019, one mosquito pool has tested positive for WNV from Orange County. At this date in 2018 one mosquito collection had tested positive for WNV from San Bernardino County.

**IV. Expenditures & Revenues – 2018/19**

TOTAL BUDGET \$3,092,198.15

EXPENDITURES – July 1, 2018 – April 30, 2019

Salaries	\$1,773,050.08
Services & Supplies	\$500,371.63
Tax Admin Fee	\$29,587.00
Capital	\$75,865.89
Building Improvements	\$52,360.42
<b>TOTAL EXPENDITURES</b>	<b>\$2,431,235.02</b>

REVENUE RECEIVED – July 1, 2018 – April 30, 2019

July	\$47.38
August	\$262.76
September	\$14,274.20
October	\$1,338.16
November	\$1,280.52
December	\$1,322,084.51
January	\$356,387.57
February	\$5,843.24
March	\$19,739.58
April*	
<b>TOTAL REVENUE TO DATE</b>	<b>\$1,721,257.92</b>

**V. Time Sheet Summary**

Month	Available Work Hrs	Sick Hrs Used	Total Hrs Available for Work	Pct. Of Hrs Avail for Work
July	4320	66.50	4253.50	98.46
August	5152	118.50	5033.50	97.70
September	3792	88.25	3703.75	97.68
October	3160	50.25	3109.75	98.41
November	2128	94.95	2033.05	95.54
December	1736	86.75	1649.25	95.01

<b>January</b>	<b>2352</b>	<b>64.00</b>	<b>2288.00</b>	<b>97.28</b>
<b>February</b>	<b>2128</b>	<b>85.25</b>	<b>2042.75</b>	<b>96.00</b>
<b>March</b>	<b>3161</b>	<b>58.50</b>	<b>3102.50</b>	<b>98.15</b>
<b>April</b>	<b>5280</b>	<b>60.25</b>	<b>5219.75</b>	<b>98.86</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.

*\*April revenue not available from Tulare County as of 5/3/19.*