

DELTA VECTOR CONTROL DISTRICT

Michael W. Alburn
Manager

Post Office Box 310 * Visalia, California 93279-0310

Jesse Erandio
Biologist

1737 West Houston Avenue * Visalia, California 93291

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

Mir Bear-Johnson
Biologist

Paul D. Jobe
Superintendent

www.deltavcd.com

Taylor Tushar
Scientific Program Manager

Crystal Grippin
Biologist

Sheri D. Davis
Administrative Assistant

Mark Nakata
Biologist

REPORT OF THE MANAGER April 2018

I. Water and Weather

Temperatures began rising in April with the average high temperature in April 10 degrees greater than the month of March. The average high temperature for the month was 77°F and the average low was 50°F, with 0.25 inches of rainfall reported by Weather Underground, Visalia station. The 30-year seasonal averages for high and low temperature in April are 73.4°F and 49.2 °F respectively, with the 30-year average rainfall reported as 0.94 inches by the National Oceanic and Atmospheric Administration.

Water storage at Pine Flat Reservoir increased by approximately 33% and was recorded at 875,103 acre-feet by the end of the month. Pine Flat Reservoir's inflow was 3,732 cubic feet per second (CFS) and its release was 3,374 CFS. Lake Kaweah Reservoir water storage doubled from March to April and was recorded at 159,970 acre-feet at the end of the month. The inflow and outflow were 1,003 CFS and 15 CFS respectively.

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 all of the District's incorporated cities. In addition to gravid trapping in the populated areas, Encephalitis Virus Surveillance (EVS) traps were set to monitor mosquito activity in rural regions of the district. Mosquito abundance varied throughout the month of April. In general, trap counts were lower than the average trap counts reported from April of last year.

Arbovirus screening began on a limited number of mosquito collections in April. No mosquito collections tested positive for West Nile Virus (WNV), St. Louis Encephalitis Virus (SLEV) or Western Equine Encephalitis Virus (WEEV). Historically, the earliest the District has detected WNV activity has been the last week of April. Last year, 2017, the first WNV infected mosquito collections were detected the first week of May and it is anticipated virus activity will begin in May of 2018 as well.

Post emergent weed treatments continued as weather permitted and are currently at a 14 day return time. Few Larval treatment requests were made through April above the normal Bti treatment route. Catch-basin treatments were initiated the first week of April to the outlying communities and Visalia basin treatments started the second week. Aerial photos were received, and the House Mosquito Technicians began inspection of those mapped sites. Zone Techs completed spring mapping and their Field Condition Charts and have begun making inspections and treatments.

There were thirty-eight service requests during the month categorized as follows:

2018 Service Request Summary

	Fish	Inspection	Mosquito	Source	Other	Total
January		4	1			5
February		3				3
March		5		2		7
April	8	12	6	10	2	38
Total	8	24	7	12	2	53

III. Vector and Disease Surveillance

Delta VCD Summaries

Humans: No human cases of vector-borne disease have been reported to Delta VCD in 2018 to date.

Birds: Six dead birds were reported within Tulare County, all within the city of Visalia. One bird met the requirements for arbovirus testing and did not test positive for WNV, SLEV or WEEV.

Mosquito: Mosquito abundance data was collected weekly from 172 fixed gravid trap locations. A total of 143 mosquito pools were tested with 0 pools testing positive for WNV, SLEV or WEEV.

State Surveillance:

Humans: As of April 27th, 2018 no human cases of WNV have been detected across the state of California. At this date in 2017, one human case had been detected in Kings County.

Birds: As of April 27th, 2018 four birds had tested positive for WNV from 2 counties in the Bay Area. At this date in 2017 three WNV positive birds had been reported from 3 different counties.

Mosquitoes: As of April 27th, 2018 one mosquito pool had tested positive for WNV from San Bernadino County. At this date in 2017 no mosquito collections had tested positive for WNV.

IV. Expenditures & Revenues – 2017/18

TOTAL BUDGET \$4,205,079.78

EXPENDITURES – July 1, 2017 – April 30, 2018

Salaries	\$1,741,596.13
Services & Supplies	\$407,523.21
Tax Admin Fee	\$58,558.00
Capital	\$26,325.96
Long-Term Debt	\$1,448,190.13
TOTAL EXPENDITURES	\$3,682,193.43

REVENUE RECEIVED – July 1, 2017 – April 30, 2018

July	\$533.21
August	\$158.70
September	\$12,310.49
October	\$205.60
November	\$810.30
December	\$1,634,092.49
January	\$334,738.65
February	\$1,405.97
March	\$24,300.04
April	\$963,281.62
TOTAL REVENUE TO DATE	\$2,971,837.07

V. Time Sheet Summary

Month	Available Hrs	Work	Sick Hrs Used	Total Hrs Available for Work	Pct. Of Hrs Avail for Work
July		4320	66.50	4253.50	98.46
August		4600	30.75	4569.25	99.34
September		4000	207.25	3792.75	94.82
October		2824	137.15	2686.85	95.15
November		1976	119.30	1856.70	93.97
December		1560	77.75	1482.25	95.02
January		2184	101.75	2082.25	95.35
February		2128	42.50	2085.50	98.01
March		3360	59.50	3300.50	98.23
April		5040	103.75	4936.25	97.95

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.