

DELTA VECTOR CONTROL DISTRICT

Michael W. Alburn
Manager

Post Office Box 310 * Visalia, California 93279-0310

Mir Bear-Johnson
Scientific Program Manager

1737 West Houston Avenue * Visalia, California 93291

Paul D. Jobe
Superintendent

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

Jesse Erandio
Biologist

www.deltavcd.com

Sheri D. Davis
Administrative Assistant

Crystal Grippin
Biologist

Mark Dyngge
Systems Administrator

Mark Nakata
Biologist

REPORT OF THE MANAGER October 2018

I. Water and Weather

Temperatures stayed rather warm in October, with the average temperature being 65°F. The average high temperature for the month was 80°F and the average low was 51°F, with 0.29 inches of rainfall reported by Weather Underground, Visalia Municipal Station. The 30-year seasonal averages for high and low temperature in October are 78.2 °F and 52.5 °F respectively, with the 30-year average rainfall reported as 0.61 inches by the National Oceanic and Atmospheric Administration.

Water storage at Pine Flat Reservoir increased, being recorded at 239,567 acre-feet by the end of the month. Its inflow was 544 cubic feet per second (CFS), while its outflow was 142 CFS. Lake Kaweah Reservoir water was recorded at 10,922 acre-feet at the end of the month. The inflow was 44 CFS, while the outflow decreased to 40 CFS.

II. Narrative

The Delta Vector Control District laboratory staff wrapped up its WNV surveillance program and routed *Aedes* surveillance program on October 5th, with the loss of the seasonal employees. A total of 271 traps were placed in October, with 229 of those being routed traps, and the remaining 42 being strategic sets. Testing wrapped up as well, after having three sequential days without any positive pools. The last positive for SLEV was from a September 26th trap set, tested on September 28th, and the last positive for WNV was from a September 24th trap set, tested on September 26th. No further human cases from within the district have been reported.

Inspections continued, however, with a steady number of service requests detailing “day-biting” mosquitoes. Some of these requests were not suffering from *Aedes aegypti*, but rather from *Culex* species swarming houses for overwintering locations. The staff also continued to return to locations with continuous breeding.

The second week of October saw laboratory staff attending the annual Society for Vector Ecology conference in Yosemite, where they were able to network, and keep up to date on the activities and breakthroughs for vector control globally. October 30th saw the entire district attending a Continuing Education day, and the laboratory staff left on October 31st to attend the quarterly MVCAC meeting in Palm Springs.

Dairy lagoon treatments continued through the month of October. The last catch basin treatments were completed for the season. Field Techs completed fall crop mapping and made final treatments to irrigated crops. They also continued to inspect house mosquito sources and answer service requests. The remaining two Seasonal Tech. II's were discharged the end of October. Full time Technicians have begun District clean-up and safety inspection remediation in preparation for winter maintenance work.

There were one hundred and forty-one service requests during October, 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
May	1	9	6	16		32
June	5	10	6	5		26
July	3	21	9	14	1	48
August	2	15	52	15	1	85
September	3	24	91	16	1	135
October	2	25	96	17	1	141
Total	24	128	267	95	6	520

III. Vector and Disease Surveillance

Delta VCD Summaries

Humans: Three confirmed human cases of WNV have been reported to Delta VCD as of October 25th, 2018, two in Porterville and one in Farmersville. Five probable cases of WNV within Tulare County have also been reported, none of these probable cases are within district borders.

Birds: In October, six dead birds were reported within Tulare County, one within the city of Visalia, one in Dinuba, and four in Tulare. None of the birds met the requirement for arbovirus testing.

Mosquito: Mosquito abundance data was collected the first week of October, from 172 fixed gravid trap locations and 60 fixed BG trap locations. Strategic trap sets of BGs continued throughout the month. Pools were only tested through the 3rd of October, with no pools testing positive in October.

State Surveillance:

Humans: As of October 26th, 2018, 156 human cases of WNV have been reported from 29 counties. At this date in 2017, 403 human cases had been detected from 23 counties.

Birds: As of October 26th, 2018, 492 birds had tested positive for WNV from 20 different counties. At this date in 2017, 481 WNV positive birds had been reported from 39 different counties.

Mosquitoes: As of October 26th, 2018, 1,954 pools have tested positive for WNV from 29 counties and 387 mosquito pools have tested positive for SLEV from 8 counties. At this date in 2017, 3,325 mosquito collections had tested positive for WNV from 26 counties and 179 mosquito collections had tested positive for SLEV from 14 counties.

IV. Expenditures & Revenues – 2018/19

TOTAL BUDGET \$3,092,198.15

EXPENDITURES – July 1, 2018 – October 31, 2018

Salaries	\$881,908.26
Services & Supplies	\$313,734.53
Tax Admin Fee	
Capital	\$55,463.00
Building Improvements	\$1,000.00
TOTAL EXPENDITURES	\$1,252,105.79

REVENUE RECEIVED – July 1, 2018 – October 31, 2018

July	\$47.38
August	\$262.76
September	\$14,274.20
October	\$1,338.16
TOTAL REVENUE TO DATE	\$15,922.50

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

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.