

DELTA VECTOR CONTROL DISTRICT

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REPORT OF THE MANAGER NOVEMBER 2019

I. Water and Weather

Temperatures continued to remain cool for the month of November, with a cold snap near the end of the month. The average high temperature for the month was 71.6°F, and the average low was 39.6°F, with 0.67 inches of rainfall reported as preliminary data by the National Weather Service, Hanford Station. The 30-year seasonal averages for high and low temperature in November are 64.1°F and 43.5°F respectively, with the 30-year average rainfall reported as 1.23 inches by the National Oceanic and Atmospheric Administration.

Water storage at Pine Flat Reservoir decreased slightly, over the course of November, to be 414,417 acre-feet. By the end of the month Pine Flat Reservoir's inflow had increased, by only slightly more than 13%, to 1,050 cubic feet per second (CFS), while the release decreased significantly by over 85% to 302 CFS. Lake Kaweah Reservoir water storage started to increase during the month, going up by nearly 20%, to be 17,042 acre-feet at the end of the month. Lake Kaweah's inflow almost doubled to be 160 CFS, and its release decreased by over 65%, ending the month at 73 CFS.

II. Narrative

The Delta Vector Control District laboratory staff wrapped up surveillance for *Aedes aegypti* mosquitoes and began to work on winter projects. The final inspections for invasive *Aedes* took place the third week of November.

Laboratory staff organized paperwork and items from the 2019 mosquito season, worked on the outlined winter work, and prepared first drafts for the coming year. All mosquito traps were inspected for faults and those in need of repair catalogued accordingly. Mark Nakata, Biologist, began repair efforts with what materials were available, began to purchase the remaining items required, and worked on his poster for conferences. Crystal Grippin, Biologist, continued to work on creating the information for our updated website, and worked on her poster for conferences. Jesse Erandio, Biologist, worked on updating protocols in the lab, as well as a timeline of important scheduling dates, and worked on his presentation for conferences. Mir Bear-Johnson, Scientific Program Manager, began work on an annual report for the District, worked on the budget, and on required updates throughout the lab.

Once again, the District hosted the semi-annual examination for certification in Public Health Vector Control on November 21st. The district had six seasonal employees attempt the exam, with one employee becoming certified.

Technicians continued to respond to service requests as needed. Technicians worked on creating the office space for Mark Dyngge to move, so that Sheri Davis can move into his old office. The office was also deep cleaned. Technicians not assigned to the above-mentioned duties were assigned maintenance needs of District grounds, vehicles, equipment, and remediation of safety concerns noted on the semi-annual safety inspection report. Weed control billing statements were generated and mailed out the first week of November and the 2019 weed control book is being generated as sign-up slips are returned.

There were sixteen service requests during the month of November:

2019 Service Request Summary

	Fish	Inspection	Mosquito	Source	Other	Total
January	0	4	1	1	1	7
February	0	9	0	0	0	9
March	2	14	0	4	1	21
April	8	36	14	34	0	92
May	5	31	15	24	1	76
June	9	34	102	63	0	208
July	6	31	255	105	17	414
August	11	72	178	98	13	372
September	8	62	110	74	9	263
October	0	10	26	14	1	51
November	0	3	7	6	0	16
Total	49	306	708	423	43	1529

III. Vector and Disease Surveillance

Delta VCD Summaries

Humans:

No additional cases were reported to the district as of November 27th, 2019. There have been 2 confirmed human cases of neuroinvasive WNV, 5 probable cases of neuroinvasive WNV, and 6 probable cases of non-neuroinvasive WNV have been reported from within the district borders to Delta VCD. At this time last year there was one WNV case reported from within district borders.

Birds:

The dead bird hotline closed in mid-October and will open again in April of 2020.

Mosquito:

No additional mosquito testing occurred in the month of November.

State Surveillance:

Humans:

As of November 22nd, 2019, 196 human cases of WNV have been detected across the state of California, in 23 counties, including six fatalities. 17 asymptomatic infections have also been reported from 11 counties. At this date in 2018, 189 human cases of WNV had been detected in 31 counties. Additionally, 6 human cases of SLEV have been reported from four counties, Fresno, Kern, Stanislaus and Imperial. At this time last year, one SLEV human case had been reported from one country.

Birds:

As of November 22nd, 2019, 214 bird had tested positive for WNV from 21 counties. At this date in 2018, 498 WNV positive birds had been reported from 21 counties.

Mosquitoes:

As of November 22nd, 2019, 3,284 mosquito samples have tested positive for WNV from 25 counties. Additionally, 356 mosquito samples have tested positive for SLEV from 12 counties. At this date in 2018, 1,963 mosquito samples had tested positive for WNV from 29 counties, and 387 mosquito samples had tested positive for SLEV from eight counties.

IV. Expenditures & Revenues – 2019/20

TOTAL BUDGET \$4,053,625.97

EXPENDITURES – July 1, 2019 – November 30, 2019

Salaries	\$1,133,979.98
Services & Supplies	\$411,312.69
Tax Admin Fee	\$0
Capital	\$27,446.13
Building Improvements	\$15,682.50
TOTAL EXPENDITURES	\$1,588,421.30

REVENUE RECEIVED – July 1, 2019 – November 30, 2019

July	\$356.00
August	\$82.30
September	\$17,909.97
October	\$2,858.74
November*	
TOTAL REVENUE TO DATE	\$21,207.01

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

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.

**November revenue not available from Tulare County as of 12/6/19.*