

DELTA VECTOR CONTROL DISTRICT

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REPORT OF THE MANAGER November 2018

I. Water and Weather

Temperatures started to get chilly in November, with the average 24-hour being 55°F. The average high for the month was 64°F and the average low was 49°F, with 1.1 inches of rainfall reported by Weather Underground, Visalia Municipal 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 was recorded at 270,526 acre-feet by the end of the month. Its inflow increased by over 200% to 1,674 cubic feet per second (CFS), while its outflow decreased to 111 CFS. Lake Kaweah Reservoir was recorded at 13,353 acre-feet at the end of the month, over 2,000 acre-feet higher than the previous month. The inflow increased to 495 CFS, while the outflow decreased to 6 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 2018 mosquito season and cleaned and corrected hazards that were found during the October safety inspection. 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 and put together a shopping list of necessary items for the remainder. Crystal Grippin, Biologist, began work editing and updating the invasive *Aedes* surveillance plan for the 2019 mosquito season. Jesse Erandio, Biologist, began work on his poster being presented at the 2019 annual AMCA conference and worked on the budget for the 2019-2020 fiscal year. Mir Bear-Johnson, Scientific Program Manager, began work on the annual report for the District.

Once again, the District hosted the semi-annual examination for certification in Public Health Vector Control on November 15th. Crystal Grippin, Biologist, took the C and D categories of the exam and passed both to become fully certified, making the entire fulltime laboratory staff fully certified at this time.

Due to warm weather, larval treatments to dairy lagoons continued through the second week of November. Technicians continued to respond to service requests as needed. 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 twenty-nine service requests during November categorized as follows:

2018 Service Request Summary

| | Fish | Inspection | Mosquito | Source | Other | Total |
|------------------|-------------|-------------------|-----------------|---------------|--------------|--------------|
| January | 0 | 4 | 1 | 0 | 0 | 5 |
| February | 0 | 3 | 0 | 0 | 0 | 3 |
| March | 0 | 5 | 0 | 2 | 0 | 7 |
| April | 7 | 11 | 7 | 11 | 2 | 38 |
| May | 1 | 9 | 6 | 16 | 0 | 32 |
| June | 5 | 9 | 6 | 6 | 0 | 26 |
| July | 3 | 21 | 9 | 14 | 1 | 48 |
| August | 2 | 22 | 49 | 11 | 1 | 85 |
| September | 3 | 24 | 92 | 15 | 1 | 135 |
| October | 2 | 19 | 101 | 18 | 1 | 141 |
| November | 1 | 4 | 15 | 9 | 0 | 29 |
| Total | 24 | 131 | 286 | 102 | 6 | 379 |

III. Vector and Disease Surveillance

Delta VCD Summaries

Humans: Five confirmed human cases of WNV have been reported to Delta VCD as of November 30th, 2018, two in Porterville, two in Earlimart, and one in Farmersville. Three probable cases of WNV within Tulare County have also been reported; none of these probable cases are within district borders. These are the same numbers that were reported in October, although confirmation status has changed on two of the cases. All the confirmed cases and two of the probable cases are for neuroinvasive WNV.

No Aedes-borne disease cases have been reported to the District so far in 2018.

Birds: The dead bird hotline closed in mid-October and will open again in April of 2019.

Mosquito: No additional mosquito testing occurred in the month of November.

State Surveillance:

Humans: As of November 30th, 2018, 189 human cases of WNV have been reported from 31 counties. 133 had neuroinvasive illness and 8 fatalities have been reported of those 189. At this date in 2017, 489 human cases had been detected from 26 counties. One human case of SLEV has been reported from Los Angeles County as of November 30th, 2018. At this time last year only one human SLEV case had been reported from one county as well.

Birds: As of November 30th, 2018, 498 birds had tested positive for WNV from 21 different counties. At this date in 2017, 505 WNV positive birds had been reported from 39 different counties.

Mosquitoes: As of November 30th, 2018, 1,963 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, 3,370 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 – November 30, 2018

| | |
|---------------------------|-----------------------|
| Salaries | \$1,024,471.96 |
| Services & Supplies | \$332,455.68 |
| Tax Admin Fee | |
| Capital | \$55,566.07 |
| Building Improvements | \$1,000.00 |
| TOTAL EXPENDITURES | \$1,413,493.71 |

REVENUE RECEIVED – July 1, 2018 – November 30, 2018

| | |
|------------------------------|--------------------|
| July | \$47.38 |
| August | \$262.76 |
| September | \$14,274.20 |
| October | \$1,338.16 |
| November | \$1,280.52 |
| TOTAL REVENUE TO DATE | \$17,203.02 |

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 |

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.