

Santa Clara County Vector Control District

Operations and Surveillance Report

June 2018



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District Mission

To detect and minimize vector-borne diseases, to abate mosquitoes, and to assist the public in resolving problems with rodents, wildlife and insects that can cause disease, discomfort or injury in humans.

Services Provided

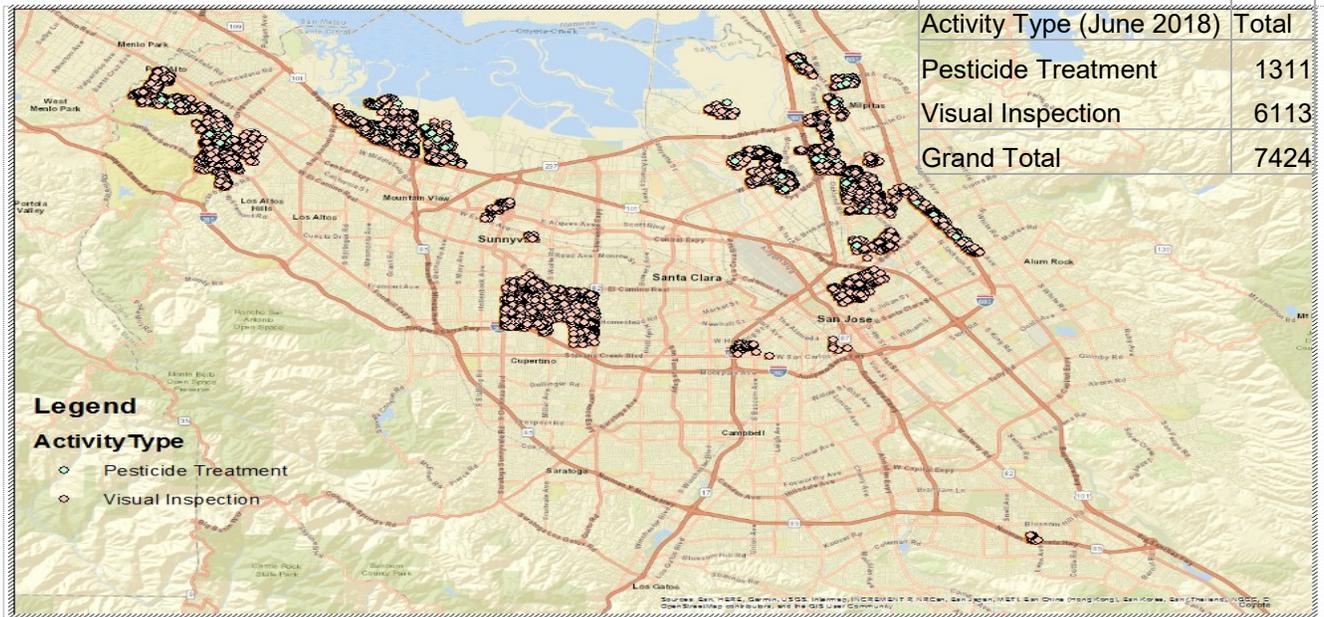
- Detection of the presence/prevalence of vector borne diseases, such as Plague, West Nile Virus, rabies, & Lyme disease, through ongoing surveillance and testing
- Routine inspections, and treatment as necessary, of known mosquito and rodent sources
- Response to customer initiated service requests for identification, advise, and/or control measures for mosquitoes, rodents, wildlife, and miscellaneous invertebrates (ticks, yellow jackets, cockroaches, bees, fleas, flies, etc.)
- Free educational presentations for schools, homeowners associations, private businesses, civic groups and other interested groups
- Free informational material on all vectors and vector borne diseases

Manager's Message

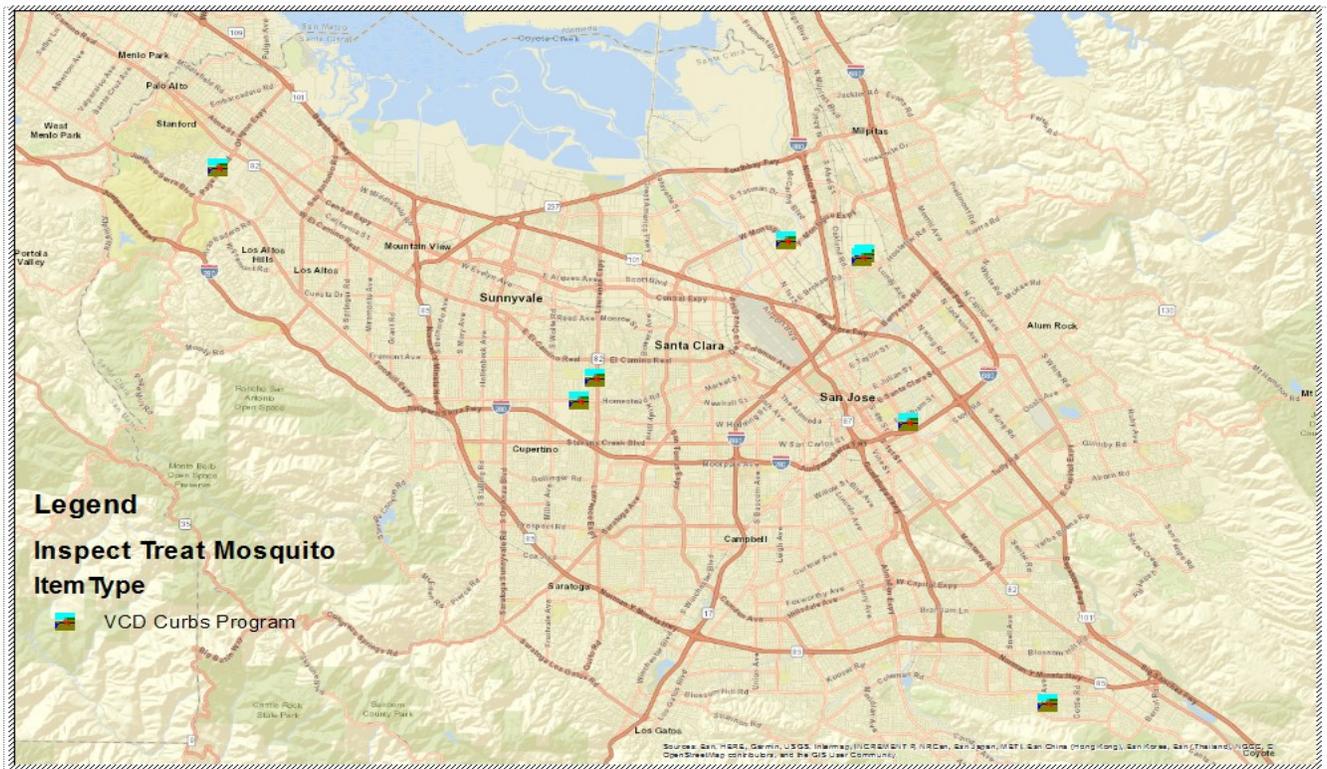
Reminder of how to keep your family safe:

Drain any standing water that may produce mosquitoes
 Dawn and Dusk are most mosquitoes active
 Dress long sleeves and pants when working outdoors
 Defend using an effective insect repellent
 Door & window screens should be in good conditions
 District staff are available to inspect any mosquitoes problem
 Please call us (408) 918-4770

Operations Report: Curbs and Catchbasins



*The District employs seasonal staff to check and treat mosquitoes in flooded street stormwater catchbasins. These sites hold standing water due to rainfall or urban runoff from domestic water usage. **During June 2018, there were 1311 catch basins treated out of 6113 basins inspected.***



*The District also employs seasonal staff to check and treat mosquitoes in flooded curbs. These sites hold standing water because of obstructions or depressions in the curbs. **Curbing operations were performed at 7 locations during June.***

Invasive Mosquito Cross Training

On June 13th, four staff from the District attended a day of invasive *Aedes aegypti* cross-training hosted by Consolidated Mosquito Abatement District. Discussions included surveillance, control and outreach of invasive *Aedes* mosquitoes that have infested residential zones in the Fresno area. Discussions at the Clovis field station were followed by field observation of invasive mosquito trapping techniques using the specialized, Biogents Sentinel trap that utilized dry ice (carbon dioxide) and human lure (lactic acid) as attractants. After the field demonstrations, we were provided with a District tour of the newly constructed Consolidated headquarters building including tour of their laboratory. Staff at the lab were counting mosquitoes captured for the Debug Fresno that is a partnership with Verily Life Sciences (Google) and MosquitoMate with the mission of reducing invasive *Aedes* using an innovative technique based on releasing male mosquitoes that cannot produce offspring due to the presence of certain type of bacterium called *Wohlbachia*.



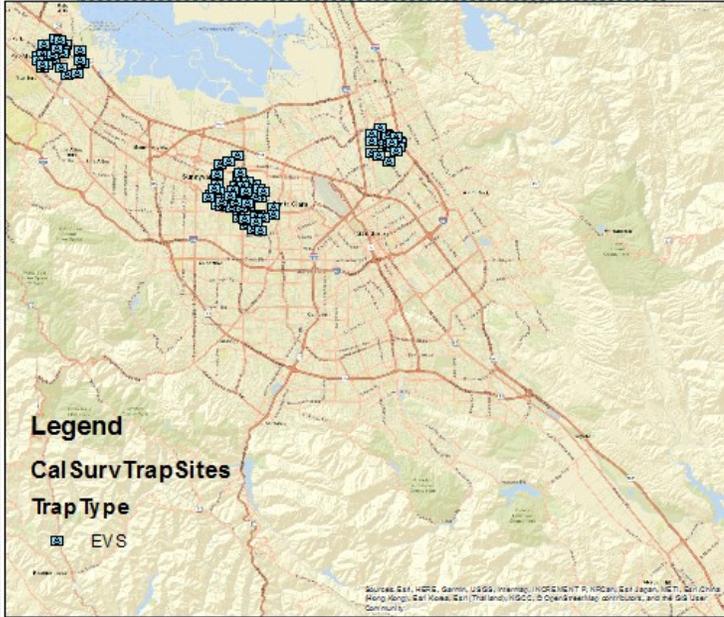
Invasive Aedes Surveillance

Count by Trap Type	Total in June	Positive Detections
AGO	122	0
BG - Sentinel	7	0
Grand Total	129	0



Carbon dioxide-baited Traps

Carbon Dioxide Baited Traps - June 2018



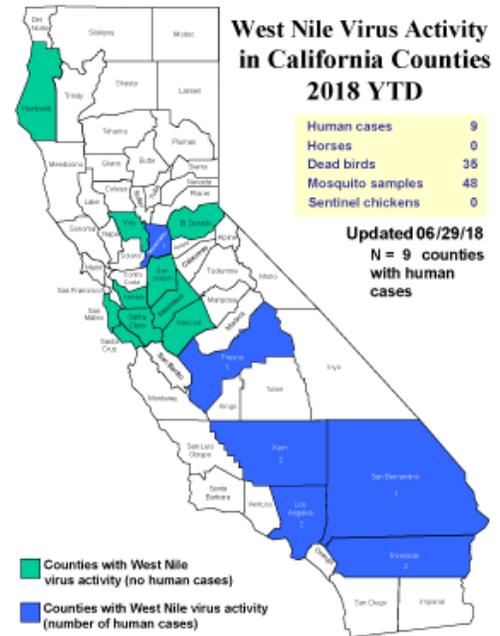
Sampling for arthropod-borne virus (Arbovirus) via dead birds is continuous throughout the year, but mosquito trapping is primarily from April through October when mosquitoes are more active. In June, trapping for mosquitoes targeted the cities of Palo Alto, Sunnyvale, Santa Clara and San Jose.

species	Total
Sum of females - mixed	
<i>Culex pipiens</i>	670
<i>Culex stigmatosoma</i>	2
<i>Culex tarsalis</i>	197
<i>Culiseta incidens</i>	113
<i>Culiseta inornata</i>	7
Grand Total	989

Row Labels	Count of County
Negative	85
American Crow	50
American Robin	1
California Scrub-Jay	1
California Towhee	1
Cooper's Hawk	1
Dark-eyed Junco	1
Finch	1
Goldfinch	2
Great Horned Owl	2
Hawk	1
House Finch	1
House Sparrow	3
Lesser Goldfinch	1
Northern Mockingbird	2
Say's Phoebe	1
Song Sparrow	1
Sparrow	5
Swainson's Thrush	1
Unknown	2
Unknown - songbird	5
Unknown-hawk	1
Woodpecker	1
Positive	6
American Crow	6
Grand Total	91

West Nile Virus Update

Statewide:
As of June 29th 2018, 35 dead birds have tested positive for West Nile Virus (WNV) in California (see map at right). At this time last year, 39 positive birds had been reported in 12 counties.. Thus far in 2018, 48 positive mosquito samples were reported to the state. To date, nine human cases have been reported this year.



Santa Clara County:

As of June 29th, 316 dead birds have been reported in Santa Clara County. Of these reported birds, 91 have been tested for WNV and 6 were found positive. The Sentinel Chickens Program has not had any positive detections.

Public Service Requests

Row Labels	Count of ItemID
Bats	4
Bed Bug	12
Bees	4
Cockroaches	13
Coyote	18
Fogging Questions	1
Gambusia (Mosquito Fish)	67
Information Request	1
Midges/Gnats	1
Mosquitoes	44
Neglected Pool	20
Opossum	10
Other (see description)	22
Other Invertebrate	5
Other Vertebrate	1
Raccoons	26
Rodents	86
Skunk	25
Snake	3
Squirrels	3
Wasps/Yellowjackets	5
Grand Total	371

During June there were 371 calls for service among a wide range of issues including rodents, mosquitoes, requests for mosquitofish, stinging insects (bees and yellowjackets) and wildlife. Services provided include home inspections for rodents or wildlife and phone consultations. Calls regarding rodents and mosquitofish were highest in frequency.

Insect Identification

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Eight arthropods were submitted by residents for identification during June including: woodlice, spiders, dog tick and unknown bites.

2018 Public Education Highlights

June Highlights

- ◆ **Bachrodt Academy School Assembly**
 - ◆ 3 classes
 - ◆ 90 Students
- ◆ **Wellness Fair at Valley Medical Center**
 - ◆ 653 visitors
 - ◆ Peoples Choice Award
- ◆ **Media release**
 - ◆ Adult Mosquito Treatment #1
 - ◆ Delivered 13,500 notices

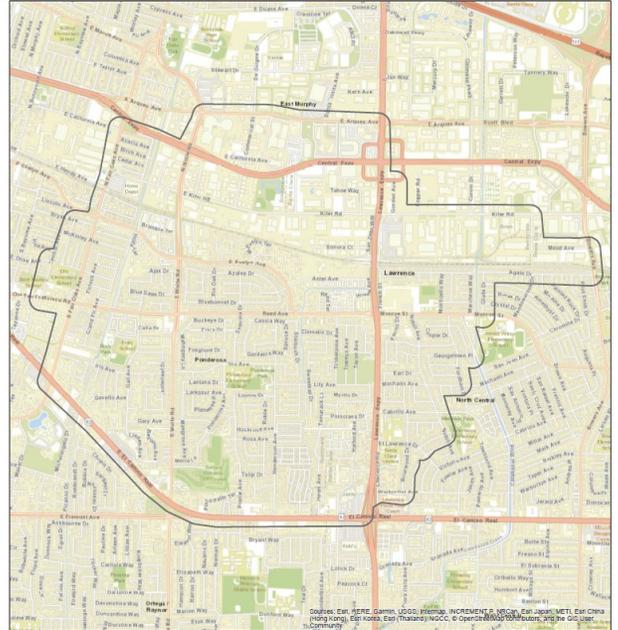


Press release:**County of Santa Clara Prepares for Warm Weather and the Associated Increase in Mosquito and Tick Populations**

The District requests the public eliminate all sources of standing water to discourage mosquito breeding and prevent the spread of West Nile Virus.

First Adult Mosquito Treatment

On June 19th, the District conducted the first treatment in 2018 to suppress adult mosquitoes carrying West Nile virus. Several birds and a mosquito sample were found to be positive in Sunnyvale and part of the city of Santa Clara. The treatment was successfully completed during the night to avoid traffic and when pollinators, such as honey bees are not active. Pickup trucks were used to produce the fine mist that drifts across city blocks and knocks down night active mosquitoes.

***Retirements***

Vector Control Assistant Manager served District for 27 years has decided to retire. VCD assistant Manager has been instrumental in creating the District's Aerial Surveillance Program for neglected swimming pools, San Jose Pollution Control Plant contract, and "COBRA" or invasive Aedes operational response plan. And had provided numerous media interviews over the years.

Vector Control Technician specialist for wildlife has also decided to retire after working for 12 years with the District. He served as a Wildlife Technician assisting the public with issues relating to raccoon, opossum, skunk, coyote and bats.

Vector Control Disease Surveillance technician has also retired after 15 years with the District. She rose from Office Specialist to Technician II and most recently, Technician III.



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County Vector
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Our District Mission is to detect and minimize vector-borne diseases, to abate mosquitoes, and to assist the public in resolving problems with rodents, wildlife, and insects of medical significance in Santa Clara County.



“A VECTOR is any animal that can transmit disease to animals or people.”