

**From:** [Zelinka, Al](#)  
**To:** [Estanislau, Robin](#); [Aguilar, Steven](#)  
**Cc:** [Hopkins, Travis](#)  
**Subject:** FW: Vector Report  
**Date:** Thursday, August 24, 2023 2:22:02 PM  
**Attachments:** [G.1 Agenda Item.pdf](#)  
[G.2 Agenda Item.pdf](#)  
[G.3 Agenda Item.pdf](#)

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Robin and Steven – Please provide this as a supplemental communication and please note under City Managers Report on the 9/5 Agenda a simple bullet point of: August update from Orange County Mosquito and Vector Control (OCMVC. Thanks! Al

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**From:** Michael Posey <mikeposey@earthlink.net>  
**Sent:** Thursday, August 24, 2023 6:23 AM  
**To:** Zelinka, Al <Al.Zelinka@surfcity-hb.org>  
**Subject:** Vector Report

Good Morning Mr. Zelinka,

There was no report for July as the Board was dark. September meeting schedule conflicts with the League of Cities Conference and may be canceled due to lack of quorum. Confirmation of schedule to follow.

At the August Board meeting, the Board of Trustees received two presentations.

1. The first presentation was from OC Waste and Recycling to discuss the organic waste program. The main takeaways were that the organics programs in Orange County are in the beginning stages with many jurisdictions just starting. The State of California is requiring that all jurisdictions separate out organic waste. The presenter stated that at this time there was no known correlation between the organics programs and an increase in pests. OCMVCD staff will continue to partner with OC Waste and Recycling on messaging to residents and will work with other vector control Districts in the state that have more developed organic waste programs to see what impacts they may have experienced.
2. The second presentation outlined the District's response to flea-borne typhus. Orange County has seen an increase in flea-borne typhus cases every year. With the increase in human cases, the District has developed a response to address higher risk areas such as public spaces, investigating human cases and investigating areas that fleas have tested positive for flea-borne typhus. Details in attachment G.1. Huntington Beach not affected by typhus but monitoring continues.
3. See Attachment G.2, page 1. Huntington Beach could benefit from including truck magnets on City vehicles and sending out PSAs for enhanced messaging. The graph illustrates how we compare with other cities in utilization of Vector marketing materials. Let's utilize the PSA and truck magnet materials to get the message out.
4. See Attachment G.3. There has been a concerted effort in targeting mobile home parks for both mosquito breeding and rodent infestation.

There was one business item on the August agenda, which was to update the Expense

Reimbursement Policy. The update provides additional clarity on Trustee travel and the types of conferences the Trustees participate in. Motion for approval made by Trustee Posey with a second from Trustee Jung with unanimous approval of the motion.

**Reminders:**

- The Communications Department has been rolling out highlight videos to increase awareness of the District's role in the community. [CLICK HERE](#) for a link of the videos.

**Outreach talking point (City Manager's report suggestion):**

- The recent storm has caused many small residential sources to fill up with water, combined with the high summer temperatures, mosquitoes will be thriving in the community. Residents need to inspect their backyards for all water sources, even small sources such as BBQ covers, children's toys or backyard drains can breed mosquitoes. Any containers should be drained, landscape drains can be treated with store bought products to prevent mosquito breeding or screened to prevent mosquito access.
  - Homeowner Mosquito Products: [https://www.ocvector.org/files/62f49ab42/DIY\\_PesticideOptions.pdf](https://www.ocvector.org/files/62f49ab42/DIY_PesticideOptions.pdf)
  - Drain filters: [https://www.ocvector.org/files/14275af5e/OCVector\\_DrainFilterPoster.pdf](https://www.ocvector.org/files/14275af5e/OCVector_DrainFilterPoster.pdf)



## Orange County Mosquito and Vector Control District

*A Public Health Agency Serving Orange County Since 1947*

**INFORMATION ITEM:** Department Report

**Board Meeting Date:** August 17, 2023

**Department:** Scientific Technical Services

**Submitted By:** Amber Semrow, Director of Scientific Technical Services

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### Mosquito Surveillance & Disease Activity:

The California Department of Public Health Vector-Borne Disease Section (CPDH-VBDS) is reporting a total of 14 human cases of West Nile virus (WNV) in the state. Year-to-date CDPH reports a total of 1,998 positive mosquito pools and 236 dead birds across 31 counties. Additionally, CDPH has reported one human case of St. Louis encephalitis (SLEV) and 182 positive mosquito pools for SLEV so far this year. Please visit [www.westnile.ca.gov](http://www.westnile.ca.gov) for the distribution map and other resources.

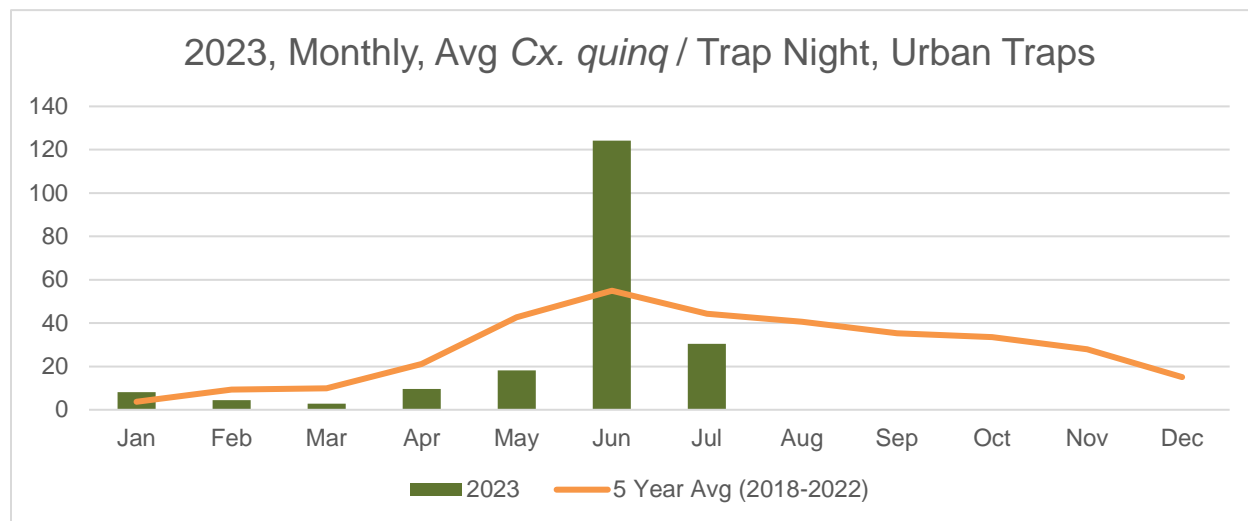
This report covers Disease Weeks 29 to 32 (July 17 – August 11). During these weeks, District personnel set a total of 643 traps (554 routine traps and 89 non-routine traps). Urban routine traps averaged 27.5 mosquitoes per trap night (PTN). Comparatively, last year's average at this time was 43.4 PTN. The surveillance team collected and identified 47,928 mosquitoes from Week 29 to Week 32. The microbiology lab tested 683 mosquito samples (2,850 YTD) for various infectious diseases. There were 12 mosquito pools that tested positive for WNV (see map for locations). Additionally, 10 dead birds (41 YTD) were tested, none were positive. Below, is a breakdown of the infectious disease testing results.

### OCMVCD West Nile Virus Testing and Results 2023 Year-to-Date as Compared to 2022

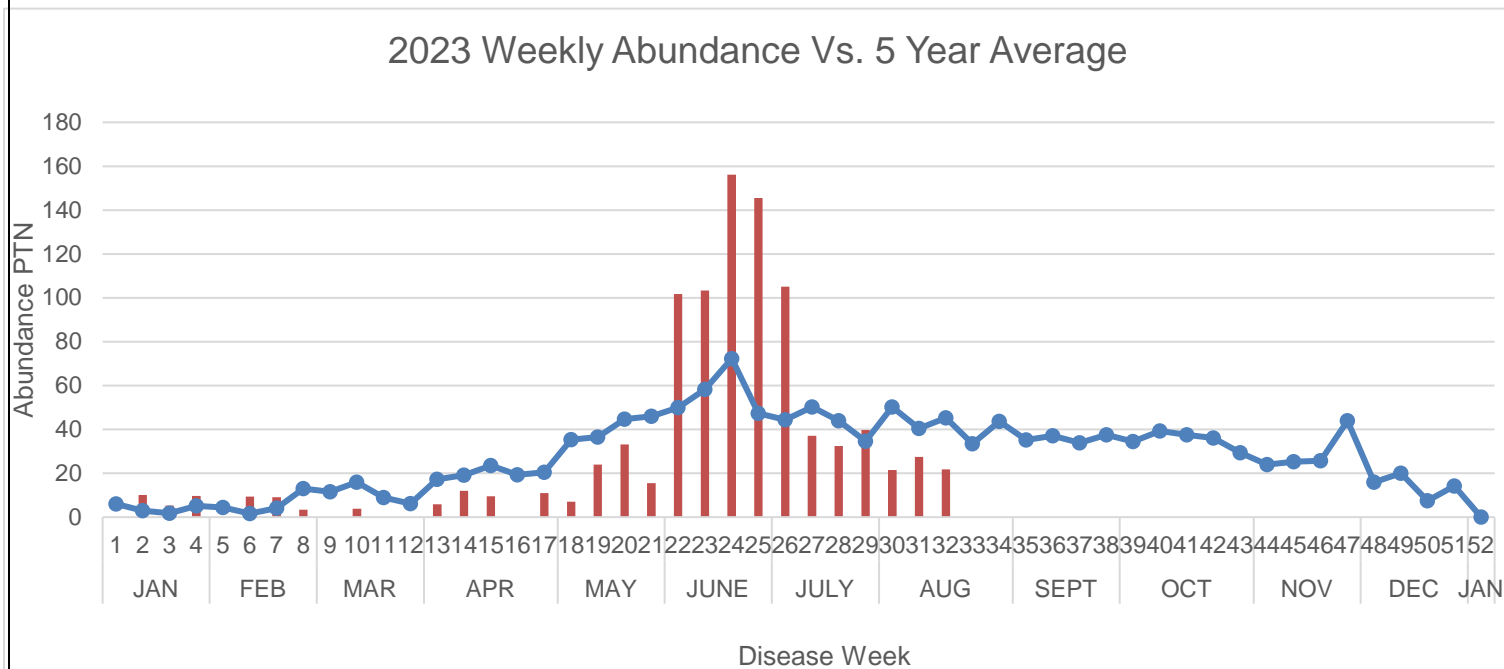
Disease Agent	Tested This Year	Positive	2022 To Date Tested	2022 To Date Positive
West Nile Virus	2,850	12	2,859	22
Dead Birds	41	0	203	0
Human Infections		0		1

# Scientific and Technical Services Department

County-wide, Monthly Average (*Cx. quinquefasciatus*, gravid trap, routine sites only)

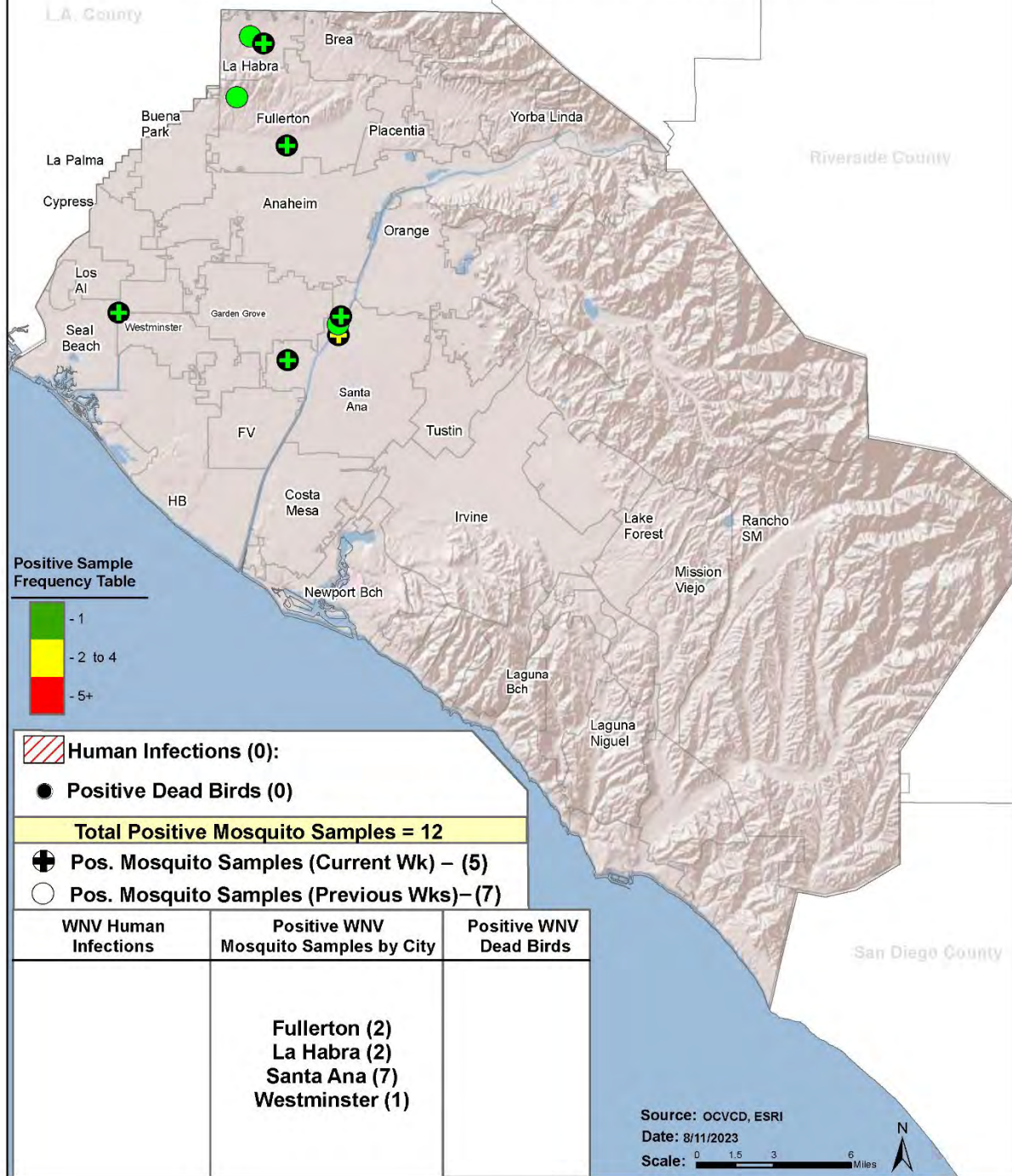


Weekly Abundance vs. 5-year Abundance: Countywide



# Scientific and Technical Services Department

## Mosquito-borne Virus Activity Orange County, Aug 11, 2023

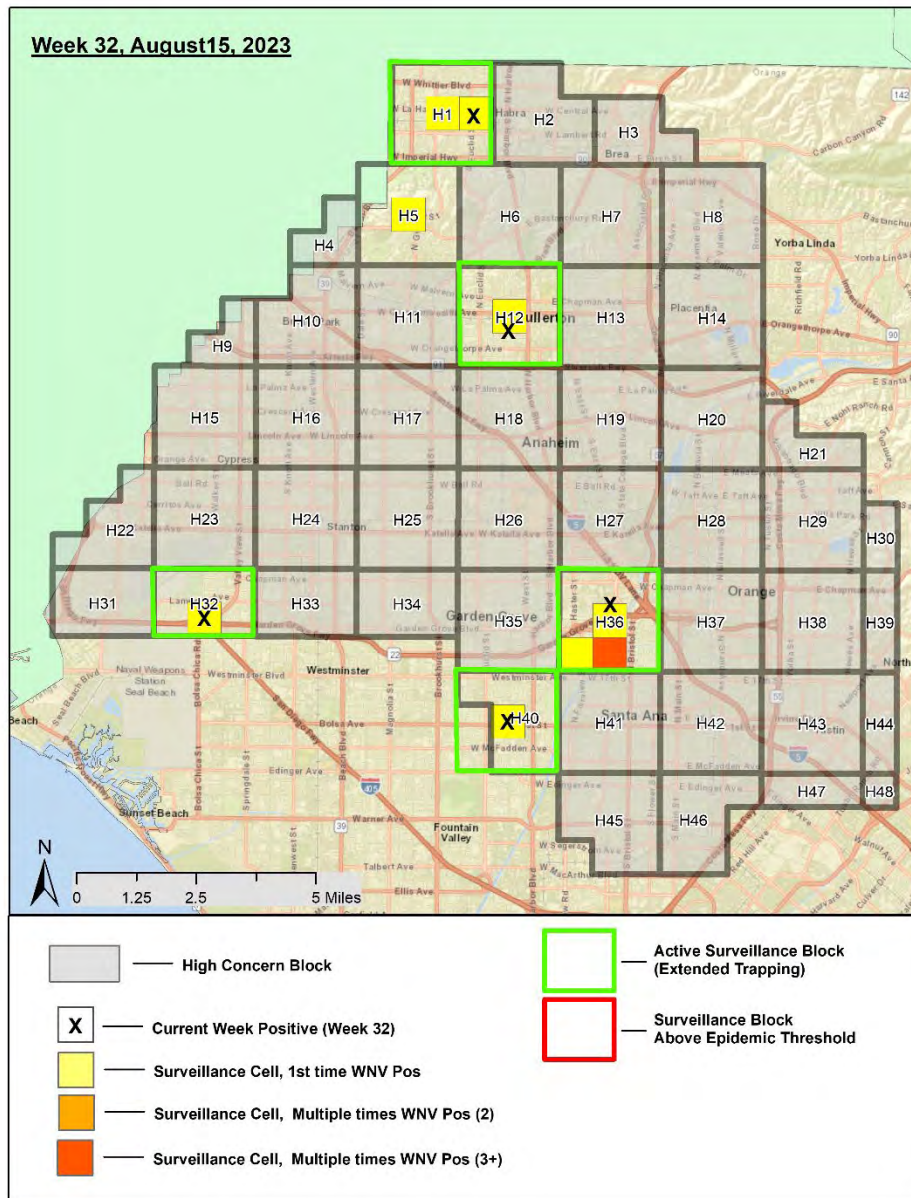




# Scientific and Technical Services Department

## Extended Trapping Response:

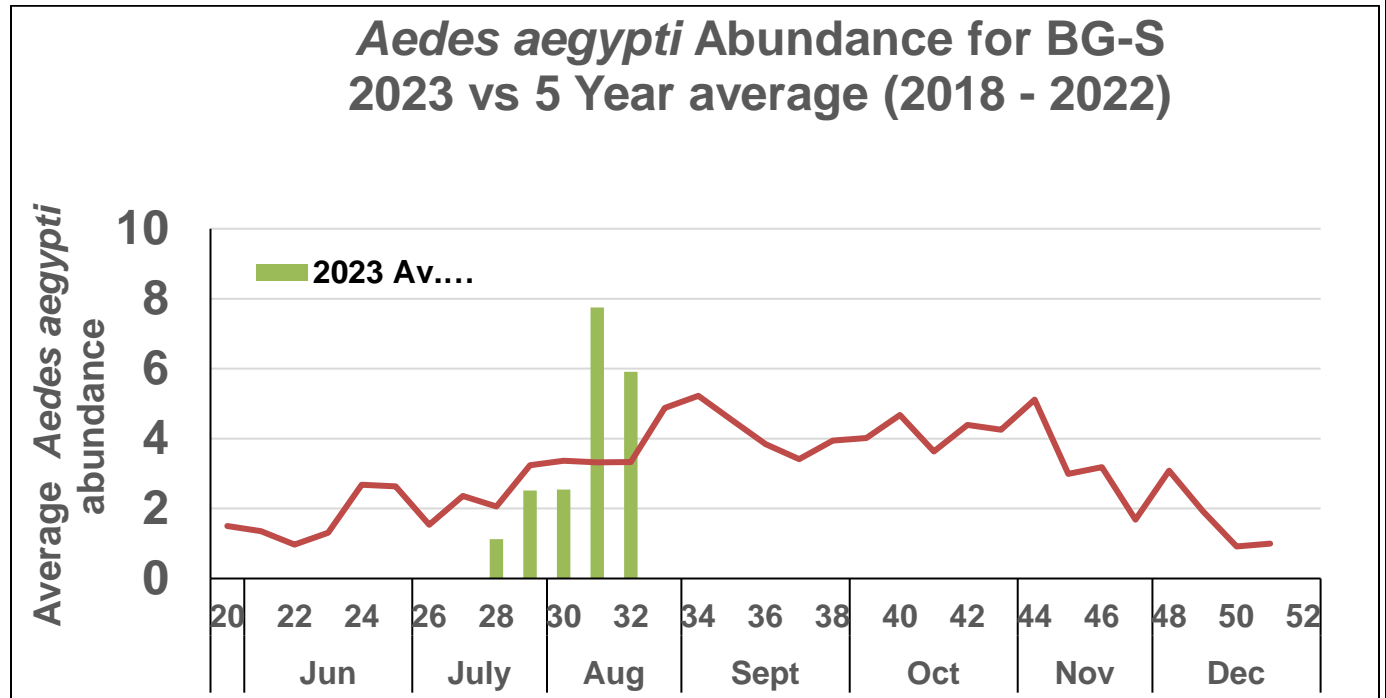
This month, extended trapping was conducted in six separate high risk area blocks, including Block H1 (La Habra), H5 (Fullerton), H12 (Fullerton), H32 (Westminster), H36 (Santa Ana), and H40 (Santa Ana). None of the blocks have registered a Vector Index of 500 or greater (Epidemic threshold and triggering threshold for truck mounted adult mosquito control). (See Map)



## Scientific and Technical Services Department

### Invasive Aedes

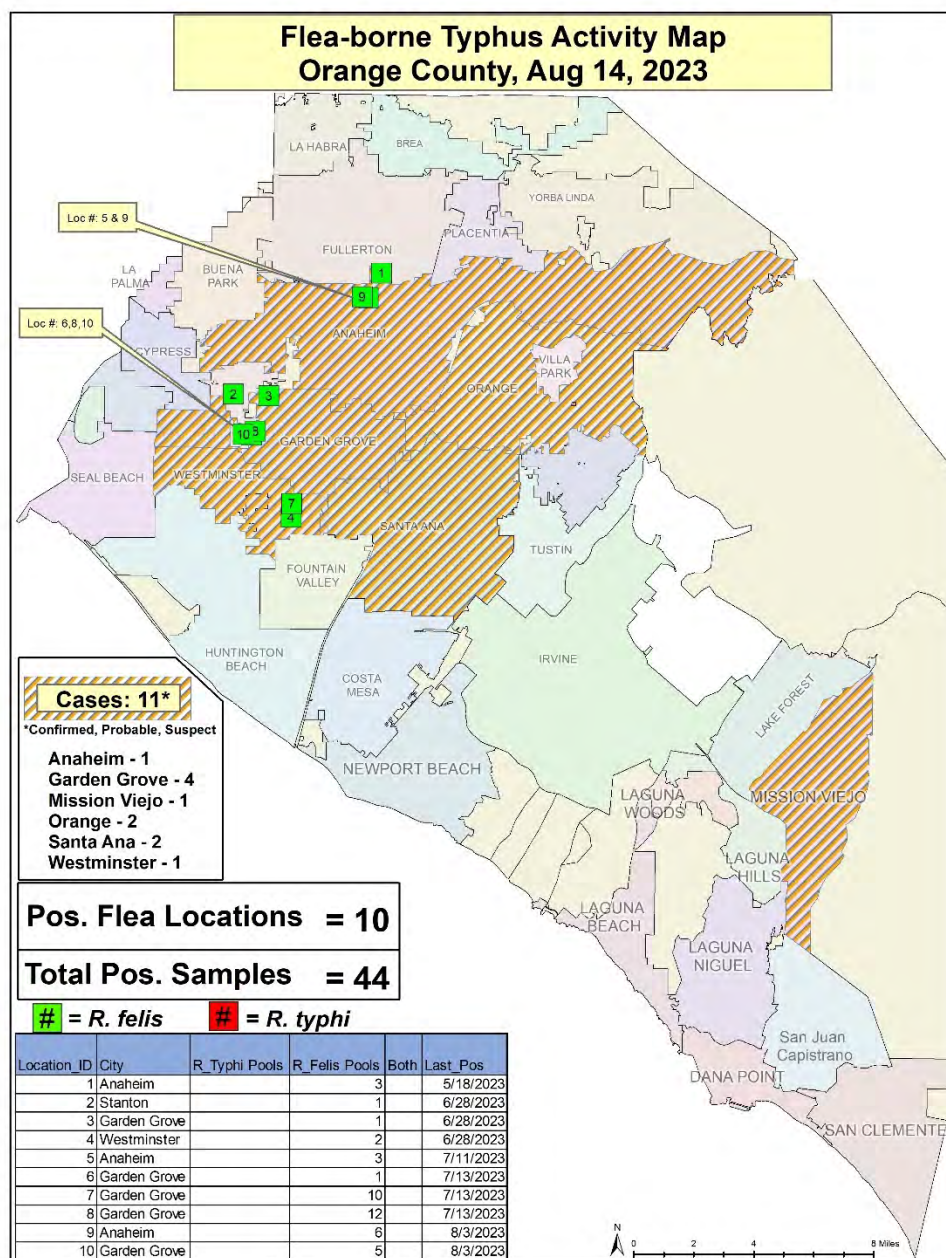
Routine and non-routine surveillance has recovered invasive *Aedes aegypti* at 67 unique locations. There is an increase in *Ae. aegypti* detections and an overall increase in abundance throughout traps set. Below, is an average abundance of *Ae. aegypti* countywide compared to the last 5 years.



# Scientific and Technical Services Department

## Flea-borne Typhus:

There has been one new human case of flea-borne typhus reported to by the Orange County Health Care Agency since the last report. This recent case was in Orange. The total is now 11 cases. Year-to-date, a total of 240 flea pools have been tested for flea-borne typhus, of which 42 were positive for *Rickettsia felis* none were positive for *R. typhi*.







# Orange County Mosquito and Vector Control District

*A Public Health Agency Serving Orange County Since 1947*

**INFORMATION ITEM:** Department Report

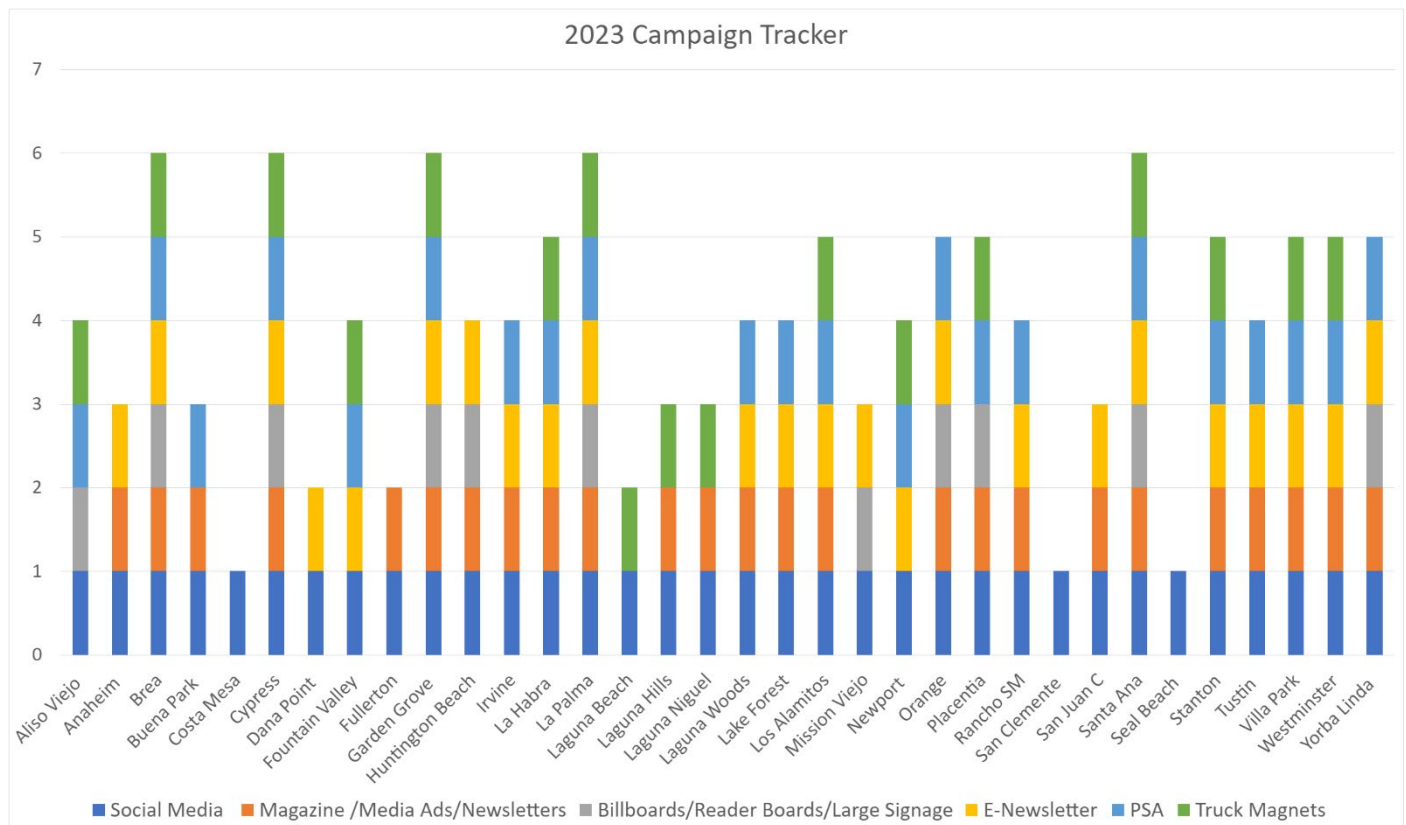
**Board Meeting Date:** August 17, 2023

**Department:** Communications Department

**Submitted By:** Heather Hyland, Director of Communications

## Outreach:

The Communications Department's "Fight Back OC" campaign is ending August 28. There is still time to participate in a variety of ways. The city tracker is still in progress, thank you to all the cities for full county-wide support.



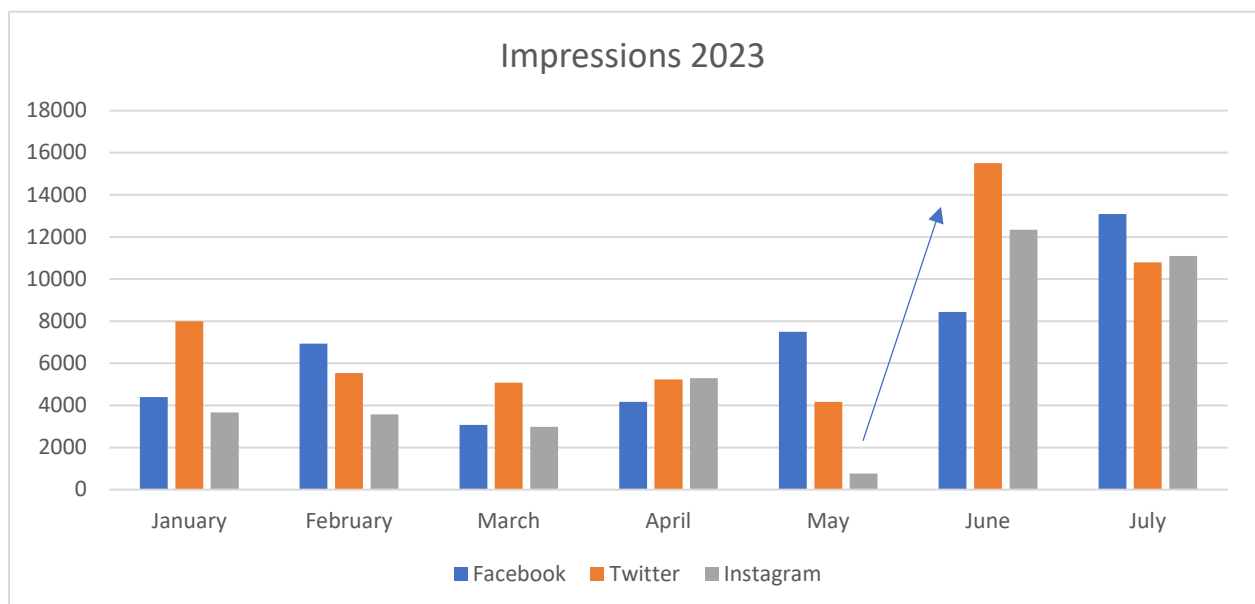
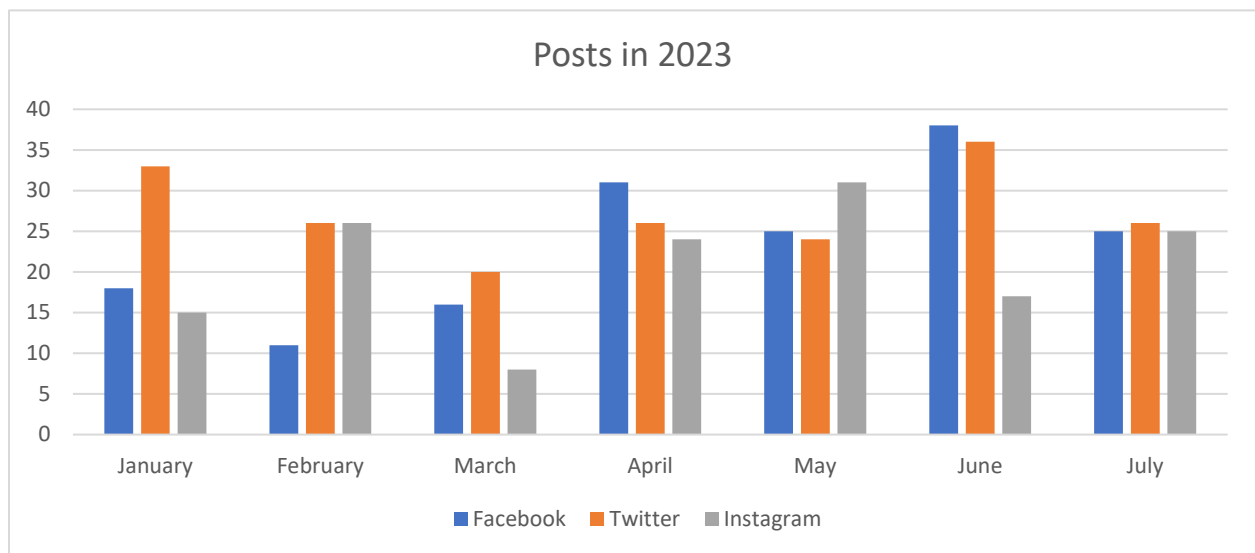
## Communications Department

### Measurements:

From May to June, the District's social media impressions increased by 11,573 on Instagram, by 11,325 on Twitter, and by 933 on Facebook.

From June to July, the District's social media impressions increased by 4,655 on Facebook, while decreasing slightly on Twitter and Instagram.

The number of social media posts from May to June increased on Facebook and Twitter, while from June to July, the number of posts only increased on Instagram.



# Communications Department

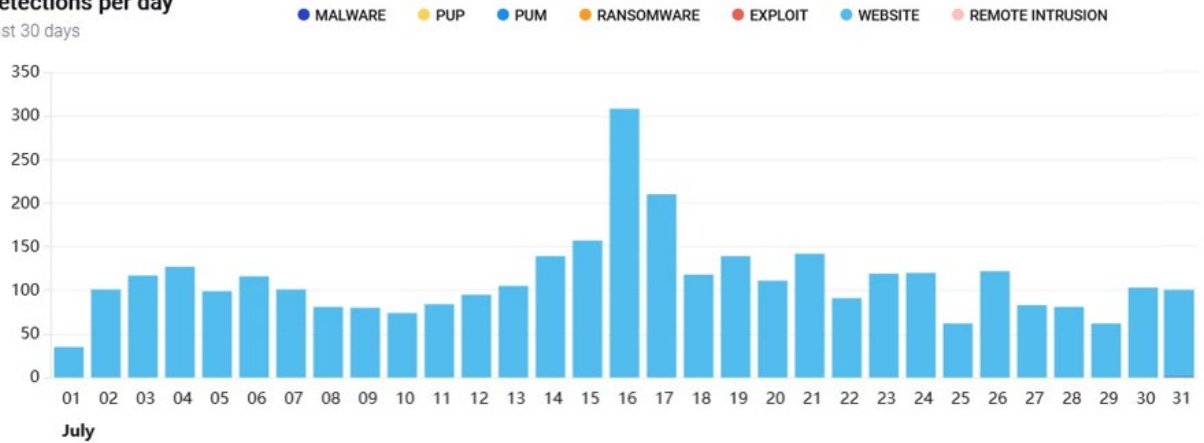
## Information Technology Department

### Malwarebytes Endpoint Protection

Total Detections 3,342

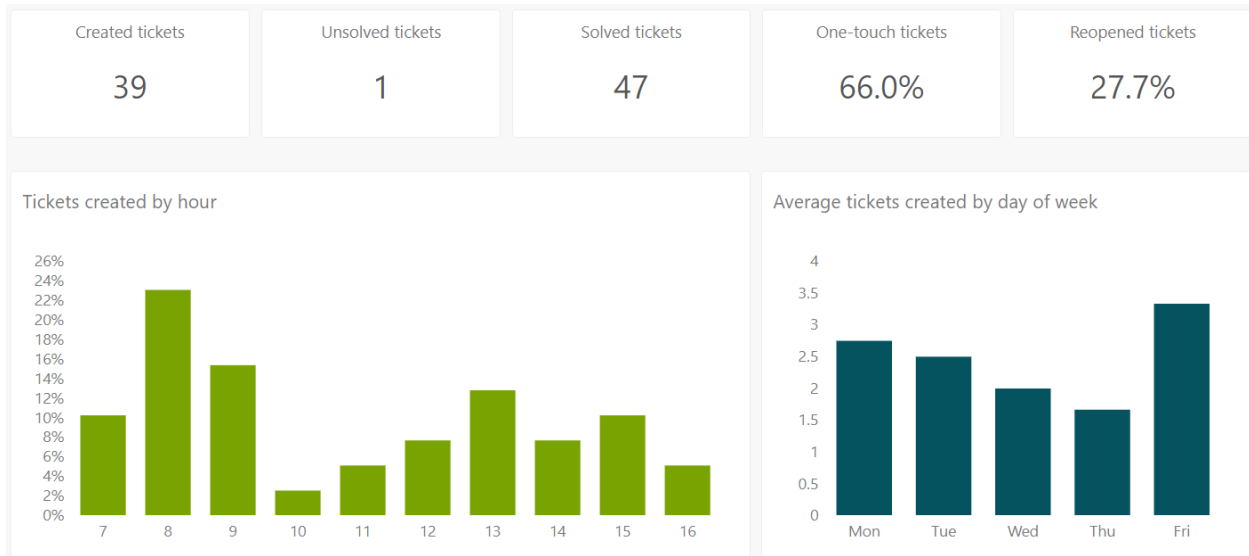
#### Detections per day

Last 30 days



### Help Desk Ticketing System

Month of July



## Information Technology Department

The following projects have been completed for the month of July:

- Re-cabled and reconfigured board room setup
- Installed outdoor speakers for intercom paging



# Orange County Mosquito and Vector Control District

*A Public Health Agency Serving Orange County Since 1947*

**INFORMATION ITEM:** Department Report

**Board Meeting Date:** Aug 17, 2023

**Department:** Operations Department

**Submitted By:** Steve Shepherd, Director of Operations

Mobile Home Park inspections have continued, and the Door-to-Door team has been to 3,686 sites over the past four weeks. During the inspections, there were numerous locations for potential mosquito breeding and the early season educational efforts will help reduce nuisance biting from *Aedes* mosquitoes. Results of the team's findings are below:

174 active breeding sites found	399 sites with numerous (30+) sources
3630 plants	3525 small containers
1091 tarps	1031 recyclables
436 fountains	393 rain barrels
126 tires	107 drains
28 cat feeders	8 pools
93.5% inspection rate with only 241 refusals	





## Operations Department

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In the city of Brea, staff were able to help a mobile home resident connect with resources to deal with a severe rodent infestation. The operations team connected the resident with a pest control operator who was able help solve the infestation issue by fumigating the home. Exclusion, clean-up, and sanitation services are also underway by the resident and private pest control, and the resident will soon be able to reoccupy the clean, rodent-free home.



The zone inspector from Brea helped facilitate the effort

The District, partnering with VCJPA, provided additional safety training to all seasonal staff. The training included driver safety, driving right-hand drive vehicles, and heat illness prevention. This is an annual event and helps keep staff safe while performing the important work to achieve the mission.



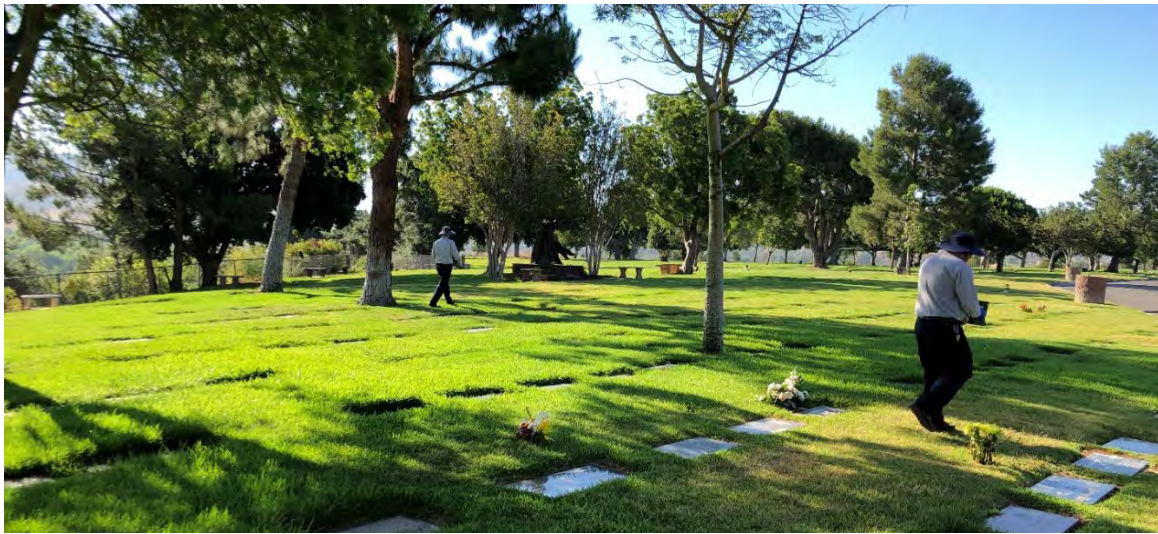


## Operations Department

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Vector Reduction Coordinator, Michael DuBose, gave a presentation about the District's use of UAS (Unmanned Aerial Systems, or drones) to battle mosquitoes in coastal marsh sites across the county. The event was hosted by the Federal Aviation Administration (FAA). The FAA hosts these events around the country. They are free, open to the public, and highlight the societal, economic, and educational benefits of drones. The events provide demonstrations and information sessions on public safety training, career opportunities, The Recreational UAS Safety Test (TRUST), and other important aspects of drone ownership and operation.

Staff from the Red Imported Fire Ant team and the lab have been partnering to conduct a study to determine the effectiveness of fire ant bait at different application rates. This is a sixteen-week study and is being conducted at a cemetery in Orange.



During a committee meeting earlier this year, a member of the public utilized their public comment time to inform the District of an overgrown vee ditch along the Santa Ana Gardens Trail. The Vector Reduction Coordinator was able to determine this area is maintained by OC Public Works. Based on the resident's comments, staff contacted OC Public Works and was able to work with them to identify and clear out this site and several others. The inter-agency communication has helped OC Public Work's staff understand how maintenance efforts can assist mosquito control and water flowing downstream.

