



# Invasive *Aedes* By the Numbers

“The long-term impact of invasive *Aedes* on our districts’ operations will be catastrophic.”

## INVASIVE *Aedes* ARE SPREADING LIKE WILDFIRE

### Districts across the state report:

- By the 3rd year of detection they had proliferated over the entire city
- Year over increase was 309%
- 2015: 1 sq. mi; 8 cities; 2019: 100 sq. mi; 31 cities

## INVASIVE *Aedes* HAVE A MASSIVE IMPACT ON MOSQUITO AND VECTOR CONTROL DISTRICTS’ BUDGETS

Invasive *Aedes* =



Labor costs  
 Equipment costs  
 Testing costs  
 Pesticide costs  
 Surveillance costs

“We had to increase our budget by 34% in FY 18/19 for staffing, equipment, chemicals and outreach to deal with the *Aedes* infestation.”

### Districts across the state report:

- Need for year-round technicians as opposed to seasonal staff
- Approximately 1000% year-over-year increase in service requests and call volume
- Outreach has increased approximately 500%
- Increased costs for surveillance, pesticides and new equipment including *Aedes*-specific traps and batteries
- Approximately \$12,000 per travel-related *Aedes* disease case in 2019



“We have maxed out the Benefit Assessment and had to reallocate staffing and resources to accommodate the increase in requests and diseases responses.”

## INVASIVE *Aedes* REQUIRE INNOVATIVE SOLUTIONS

**Invasive *Aedes* mosquitoes exploit small and cryptic water sources and have shown resistance to many commonly used insecticides, limiting the efficacy of traditional control approaches.**

- New technologies including a form of Sterile Insect Technique that utilizes a naturally-occurring bacteria called Wolbachia are being evaluated. When *Aedes* males are infected with a particular strain of Wolbachia and then are released to breed with wild female mosquitoes infected with a different strain of Wolbachia the resulting offspring are not viable.

“Initial trials using Wolbachia in Los Angeles County and Fresno County show great promise, but districts need funding to get these abatement techniques off the ground.”

Scan this QR code to learn more and see our digital story map



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