



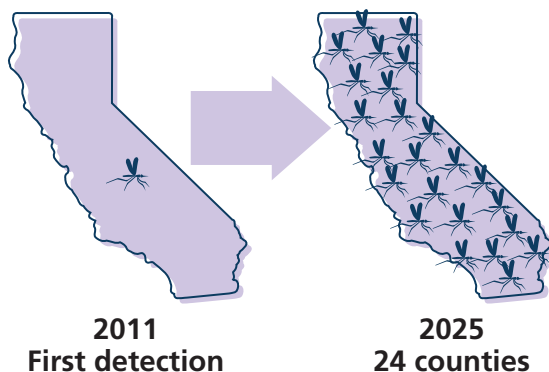
INVASIVE *Aedes* MOSQUITOES ARE SPREADING IN CALIFORNIA

Invasive *Aedes* mosquitoes are rapidly spreading across California although they are not native to the state and don't have a place in our ecosystem. Since their initial detection in 2011, *Aedes* mosquitoes have spread to over 24 counties in the state. Not only are they a nuisance, *Aedes* mosquitoes pose a significant public health threat because of their ability to transmit several diseases like Zika, dengue, chikungunya and yellow fever.

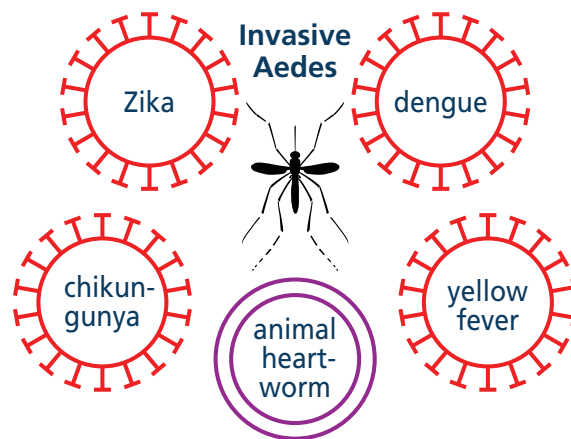
Invasive *Aedes* mosquitoes are characterized by their aggressive, daytime-biting behavior. They are hard to control and can become resistant to commonly-used insecticides. Female *Aedes* mosquitoes lay their eggs in small water sources in front yards, backyards, and patios, areas where mosquito control agencies can't easily inspect or control. Also, their eggs are resistant to drying out and can survive for many months.

Climate change has created more favorable environments for invasive mosquitoes to develop and they have adapted to urban and suburban environments. Surveillance and treatment for invasive *Aedes* mosquitoes are very expensive, labor-intensive, and mosquito and vector control districts throughout the state are saddled with skyrocketing costs.

Aedes Mosquitoes Are Invading Our State



Disease Transmission



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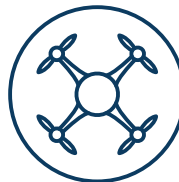
Innovative Technologies and Sterile Insect Technique



Finding environmentally friendly mosquito control tools is a priority. Innovative technologies will not replace traditional mosquito control methods but will be another Integrated Vector Management tool used to protect public health.

Integrated Vector Management Program

Due to the difficult nature of controlling invasive mosquitoes, many mosquito and vector control agencies have been exploring the use of Sterile Insect Techniques (SIT) and innovative technologies such as drones, self-limiting mosquitoes, *Wolbachia*, and irradiation.



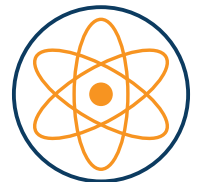
Drones



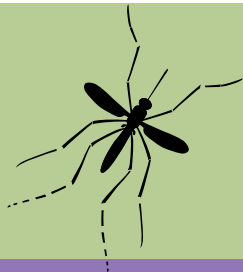
Self-limiting mosquitoes



Wolbachia



Irradiation



Invasive *Aedes* mosquitoes are more than a nuisance — they are a serious public health threat and California's mosquito and vector control agencies need new ways to control them.



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