CALIFORNIA UTILITY VAULTS ARE A MOSQUITO PRODUCTION SOURCE







# WATER RETENTION IN UTILITY VAULTS PROMOTES THE DEVELOPMENT OF MOSQUITOES THAT CAN SPREAD WEST NILE VIRUS.

- Utility vaults have long been recognized as problematic sources for mosquito production, particularly in residential areas.
- In a majority of regions, landscape irrigation or rain may deposit directly into vaults or pool and flow into vaults.
- Often covered by partial or complete shade, the standing water in vaults is protected from evaporation, providing an ideal habitat for mosquitoes to develop and emerge.
- Utility vaults are known to produce the common house mosquito which transmits West Nile virus and St. Louis Encephalitis viruses each year in California.

### THE SPREAD OF INVASIVE AEDES MOSQUITOES THROUGHOUT THE STATE HAS EXACERBATED THE UTILITY VAULT PROBLEM. EVEN SMALL AMOUNTS OF WATER IN UTILITY VAULTS CAN PRODUCE LARGE NUMBERS OF MOSQUITOES.

- With the emergence of invasive mosquitoes, vector control districts identified utility vaults as a major source for these mosquitoes.
- Invasive mosquitoes are a major concern to mosquito and vector control districts because they have the ability to transmit viruses such as yellow fever, dengue, chikungunya, and Zika.

## UTILITY PROVIDERS AND MOSQUITO CONTROL DISTRICTS HAVE AN OBLIGATION TO PROTECT PUBLIC HEALTH.

• Inconsistent access to utility vault information limits mosquito and vector control districts' ability to apply mosquito control products to the vaults.

# SURVEY INFOGRAPHIC

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## **STEPS TO PREVENT MOSQUITO PRODUCTION IN CALIFORNIA UTILITY VAULTS.**

- 1. Facilitate statewide collaboration between mosquito and vector control districts and utility providers to reduce the production of mosquitoes and the threat of mosquitotransmitted diseases.
- 2. Establish a standardized protocol for utility providers to enable mosquito and vector control districts to identify, access and treat problem sources.
- 3. Evaluate and incorporate design modifications to utility vaults to reduce water retention and prevent mosquito production.

# CALIFORNIA MOSQUITO AND VECTOR CONTROL DISTRICTS RESPONDED TO A SURVEY ABOUT MOSQUITO PRODUCTION IN UTILITY VAULTS.



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75% reported mosquito production issues in utility vaults
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Electrical vaults are the **most** problematic source for mosquito production because of access issues



**31%** have sufficient access to utility vaults for their operational needs



**50%** have active relationships with utility vault providers to address issues



**44%** are able to obtain the locations of utility vaults within their district



**80%** of districts that treat utility vaults use expensive residual products to achieve adequate control

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