

Mosquito Control Matters

FIGHT THE BITE

Current Issues and Challenges Related
to Mosquito Control

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District Manager



Mission: Protect Public Health

- To provide safe, effective and economical mosquito and vector control. To accomplish this, we provide ongoing surveillance of mosquitoes and other vectors to determine the threat of disease transmission and lower annoyance levels.
- District operates under the California Health and Safety Code

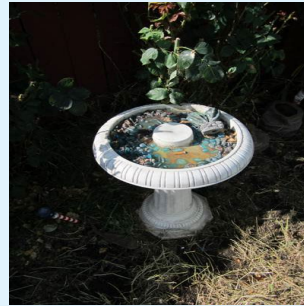


Mosquito season is here!

- Late spring rain and warm temperatures can create many mosquito breeding sources.
- West Nile threat continues as the mosquito season gets longer each year.
- Concern for dengue grows as invasive mosquitoes spread and locally acquired dengue infections are reported each year in California.



Different Mosquito Breeding Habitats



Sacramento-Yolo
MOSQUITO & VECTOR
CONTROL DISTRICT

Integrated Mosquito Management Approach

- Public Information
- Surveillance
- Biological Control
- Ecological Management
- Control Operations

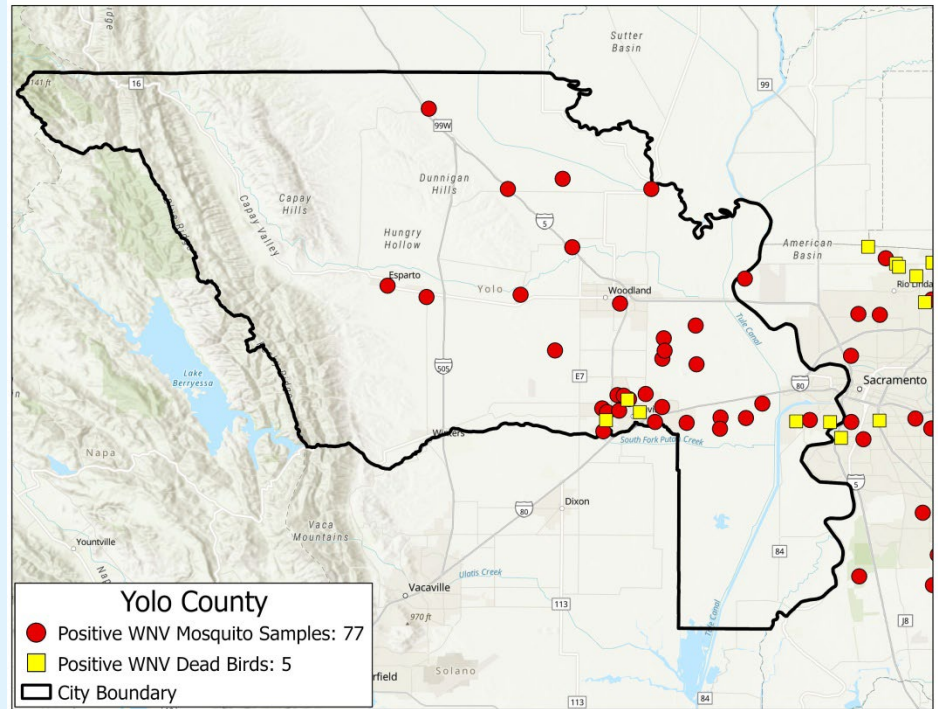


WNV Activity

California:

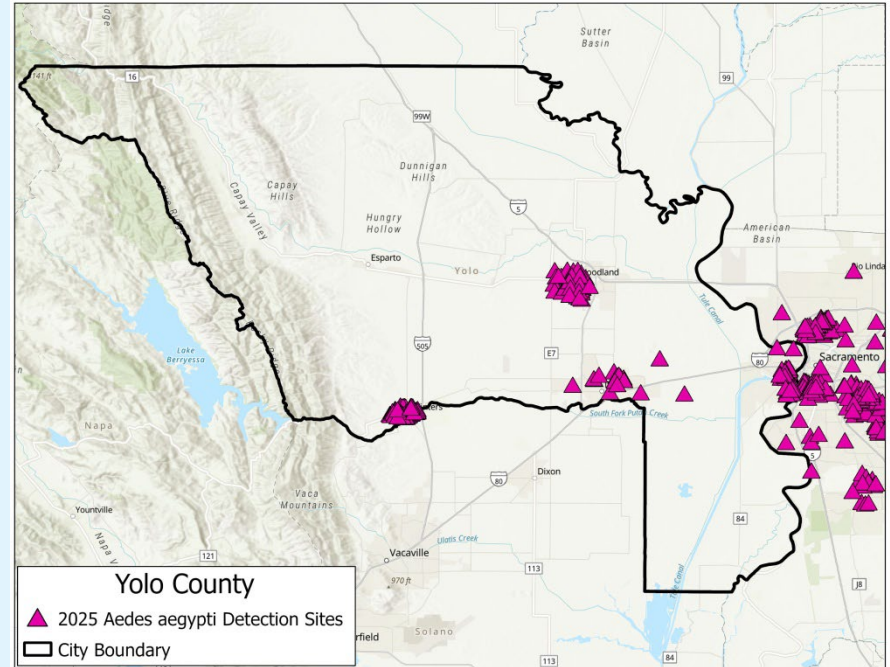
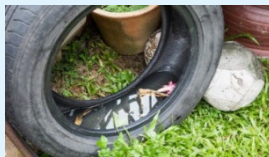
<u>Year</u>	<u>Human Cases</u>	<u>Potential Cases</u>
2025	113	3,000-7,000
2024	129	3,000-9,000
2023	428	12,000-30,000
2022	208	6,000-15,000
2021	126	3,000-9,000
2020	231	6,000-15,000

****West Nile virus is extremely under reported. The Centers for Disease Control estimates that for every neuroinvasive case confirmed, there are 30-70 cases that are not unreported****



Detections of Invasive Mosquitoes

- Aggressive day biting mosquitoes found for the first time in 2019 and have spread rapidly since then.
- Winters, Woodland and West Sacramento continue to have large established populations of invasive mosquitoes.
- Last year in California there 193 travel-related cases of dengue and 6 that were locally transmitted.



Innovative Mosquito Control Strategies

Sterile Insect Technique:

- Proven, environmentally friendly insect control method developed over 60 years ago
- Uses the release of sterile male mosquitoes (including *Wolbachia*-based methods)
- Sterile males mate with wild females, resulting in no offspring leading to a gradual and significant reduction in mosquito populations
- SIT conducted as a pilot program in South Natomas in Sacramento County with positive results that demonstrated a decrease in mosquito populations in the area



Moving Forward

- Expand SIT to other areas with high populations of invasive mosquitoes
- Continue surveillance and control efforts
- Explore more outreach opportunities in affected communities
- Encourage public to report day biting mosquitoes, drain all water on their property, discard unwanted items that can collect water and scrub containers that are in use



Thank you!



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