

Mosquito Control Matters

FIGHT THE BITE

Current Issues and Challenges Related
to Mosquito Control

Gary Goodman
District Manager



Sacramento-Yolo
MOSQUITO & VECTOR
CONTROL DISTRICT

www.FIGHTtheBITE.net  

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**

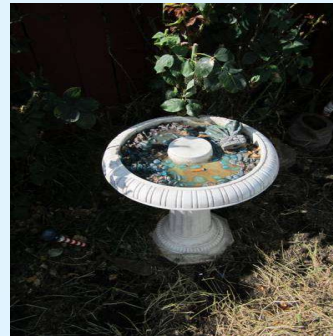


Mosquito season is here!

- Late spring rain and very 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 more infections are reported each year in California



Different Mosquito Breeding Habitats



Integrated Mosquito Management Approach

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

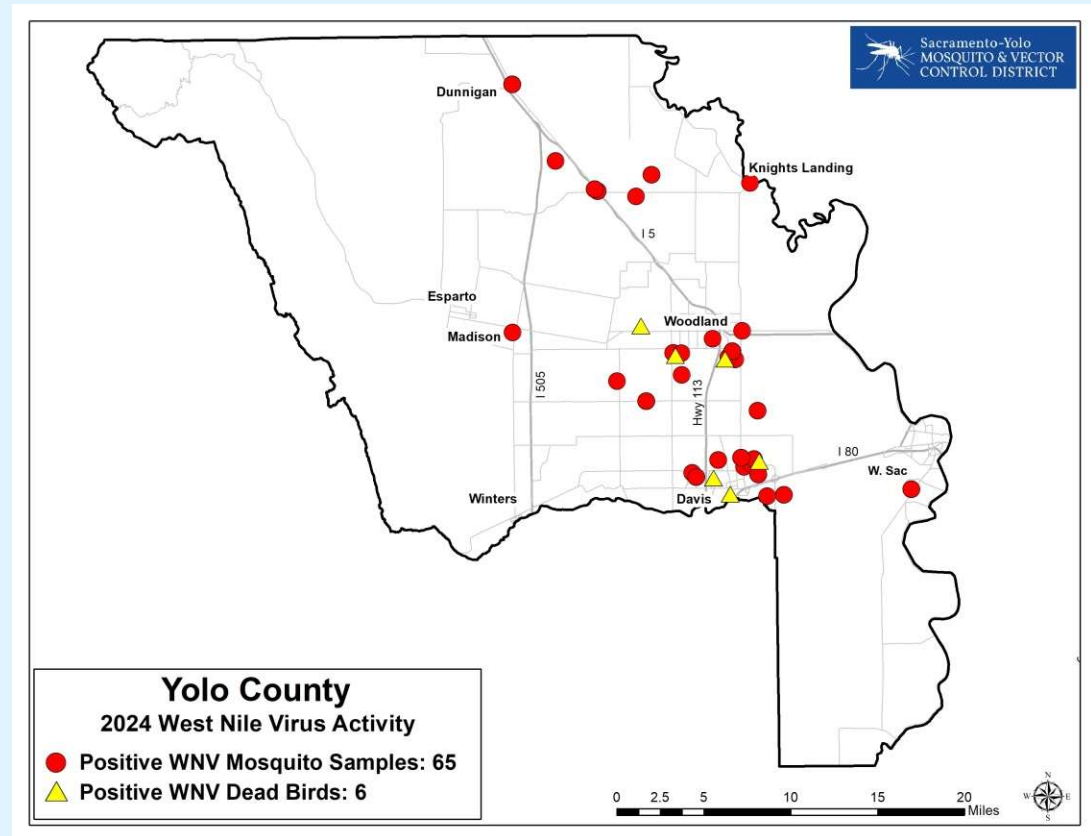


WNV Activity

California:

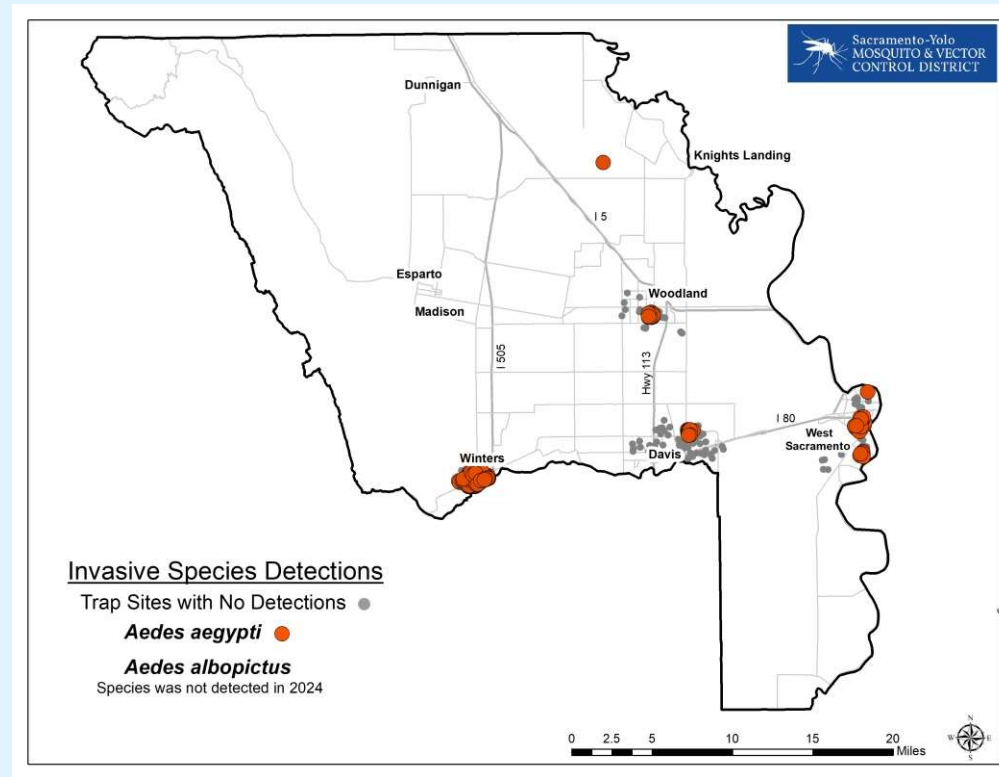
<u>Year</u>	<u>Human Cases</u>	<u>Potential Cases</u>
2024	129	3,000-9,000
2023	428	12,000-30,000
2022	208	6,000-15,000
2021	126	3,000-9,000
2020	231	6,000-15,000

****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 and West Sacramento continue to have large established populations of invasive mosquitoes.
- Last year in California there 647 travel-related cases of dengue and 18 that were locally transmitted.



Innovative Mosquito Control Strategies

Sterile Insect Technique:

- Environmentally friendly insect control technique developed in the United States more than 60 years ago
- Involves the mass rearing and sterilization of mosquitoes utilizing different approaches followed by their release into designated areas to mate with wild females resulting in no offspring and a significant decline in mosquito populations
- Used by the Consolidated Mosquito Control District in Fresno County during a three year pilot project that successfully reduced invasive mosquitoes by 95%
- SIT has been used by the United States Department of Agriculture to control screwworms that affect cattle
- California Department of Food and Agriculture has utilized this method to control the med fly infestations in citrus crops

Moving Forward

- Explore use of SIT and other control methods as new tools for mosquito control
- 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!



1-800-429-1022

info@fightthebite.net