Mosquito Control Matters

FIGHT THE BITE

Current Issues and Challenges Related to Mosquito Control

Gary Goodman
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
Integrated Mosquito Management Approach

- Public Information
- Surveillance
- Biological Control
- Ecological Management
- Chemical Control
Different Mosquito Breeding Habitats
Wet winter could mean a busy mosquito season

- Record amount of rain
- Many sources of stagnant water
- Combination of water and warm temperatures create ideal mosquito breeding conditions
# WNV Activity in California

<table>
<thead>
<tr>
<th>Year</th>
<th>Mosquito Samples</th>
<th>Human Cases</th>
<th>Potential Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>2022</td>
<td>3,165</td>
<td>208</td>
<td>6,000-15,000</td>
</tr>
<tr>
<td>2021</td>
<td>2,263</td>
<td>128</td>
<td>3,000-8,000</td>
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<tr>
<td>2020</td>
<td>2,628</td>
<td>231</td>
<td>6,000-15,000</td>
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<tr>
<td>2019</td>
<td>3,288</td>
<td>225</td>
<td>6,000-15,000</td>
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<td>2018</td>
<td>1,963</td>
<td>218</td>
<td>6,000-15,000</td>
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<tr>
<td>2017</td>
<td>3,371</td>
<td>536</td>
<td>16,000-37,000</td>
</tr>
</tbody>
</table>

**WNV is extremely under reported. The Centers for Disease Control estimates that for every neuroinvasive case confirmed, there are approximately 30-70 cases that are not reported**
West Nile Virus Activity in Folsom

City of Folsom

2022 West Nile Virus Activity within city boundaries

- Positive WNV Mosquito Samples: 0
- Positive WNV Dead Birds: 1
New Concern: Invasive Mosquitoes

*Aedes aegypti and Aedes albopictus*  
(Yellow Fever Mosquito and Asian Tiger Mosquito)

- An aggressive day biting mosquito that prefers to bite humans.
- They especially like to bite ankles, wrists and elbows.
- Prefers to live in urban areas both indoors and outdoors.
- Can breed in as little as 1 teaspoon of water and can complete life cycle in 7-10 days.
- Eggs are laid on the side of containers and are resistant to drying out. They can survive without water for many months.
- Capable of transmitting several debilitating diseases including Zika, dengue and chikungunya.
Detections of Invasive Mosquitoes

- No invasive mosquitoes have been detected in Folsom.
- Initially discovered in Citrus Heights in 2019 and have been rapidly spreading throughout the District.
- In 2022 invasive mosquitoes were detected in various new areas and known infestations became larger.
- This year invasive mosquitoes have not been detected in any areas.
Thank you!

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