

Mosquito Threats in Cudahy

West Nile virus and Zika Update



Presented by
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The District at a Glance

- An independent special district formed under authority of the CA State Health and Safety Code
- Formed in 1952 and governed by a Board of Trustees
- Provide services to 35 cities within Los Angeles County and sections of unincorporated LA County
- Serve approximately 6.8 million residents over 1,340 square miles



Vector-borne Disease Risks

Disease of Concern:

- Dog heartworm
- Dengue fever
- Chikungunya
- Yellow Fever
- Zika

Transmitted by:

Aedes Mosquitoes

Active: Daytime, evenings
Bites: humans and other mammals

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- **West Nile virus**
 - St. Louis Encephalitis
 - Western Equine encephalomyelitis

Culex Mosquitoes

Active: Dawn and Dusk
Bites: birds, humans, other mammals

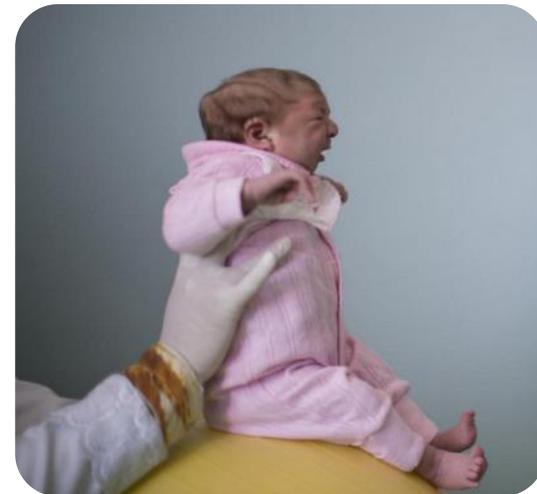
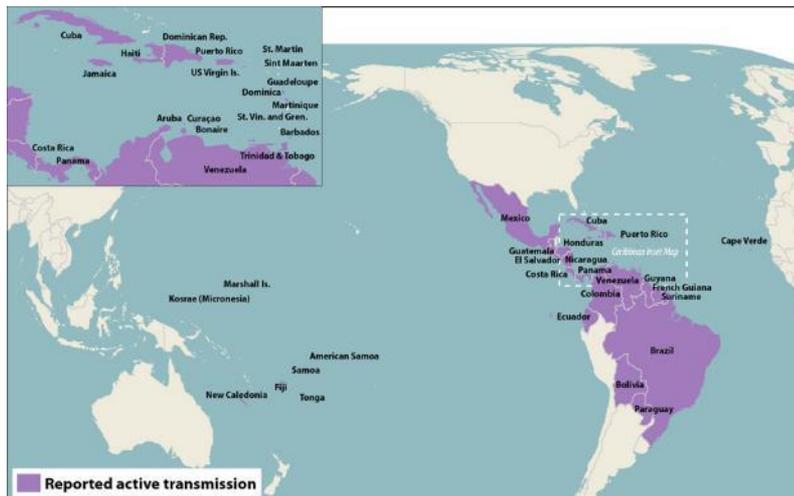


Zika Virus – What is the risk in California?

Zika is a virus transmitted *primarily* to people through the bite of infected *Aedes mosquitoes*. It can also be spread from mother to a child during pregnancy, through blood/organ donations, and sexual contact.

170 human cases of Zika reported in California (to date); 37 in LA County

- *No confirmation of Zika virus in L.A. County mosquitoes*
- *No confirmation of local outbreak*



Invasive *Aedes* Mosquitoes

Asian tiger mosquito (*Aedes albopictus*) - 2011

Yellow fever mosquito (*Aedes aegypti*) - 2014



1. Aggressive **daytime biters** are NOT a normal part of our fauna
2. Can thrive **indoors**
3. Transmit **Dengue, Yellow Fever, Zika & Chikungunya**
4. Container breeders

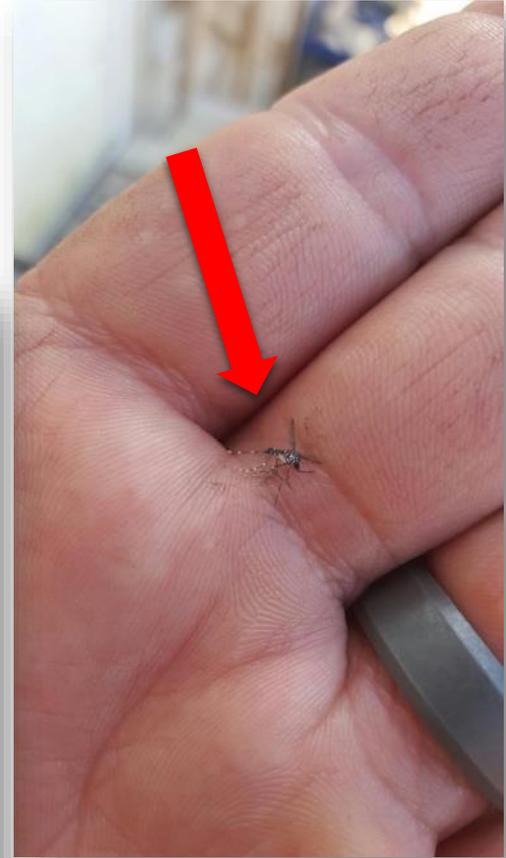


Aedes Mosquitoes – Life Cycle



Mosquito eggs laid on plant stems or sides of containers

Immature mosquitoes live in water-filled containers; emerge as adults in 5-7 days

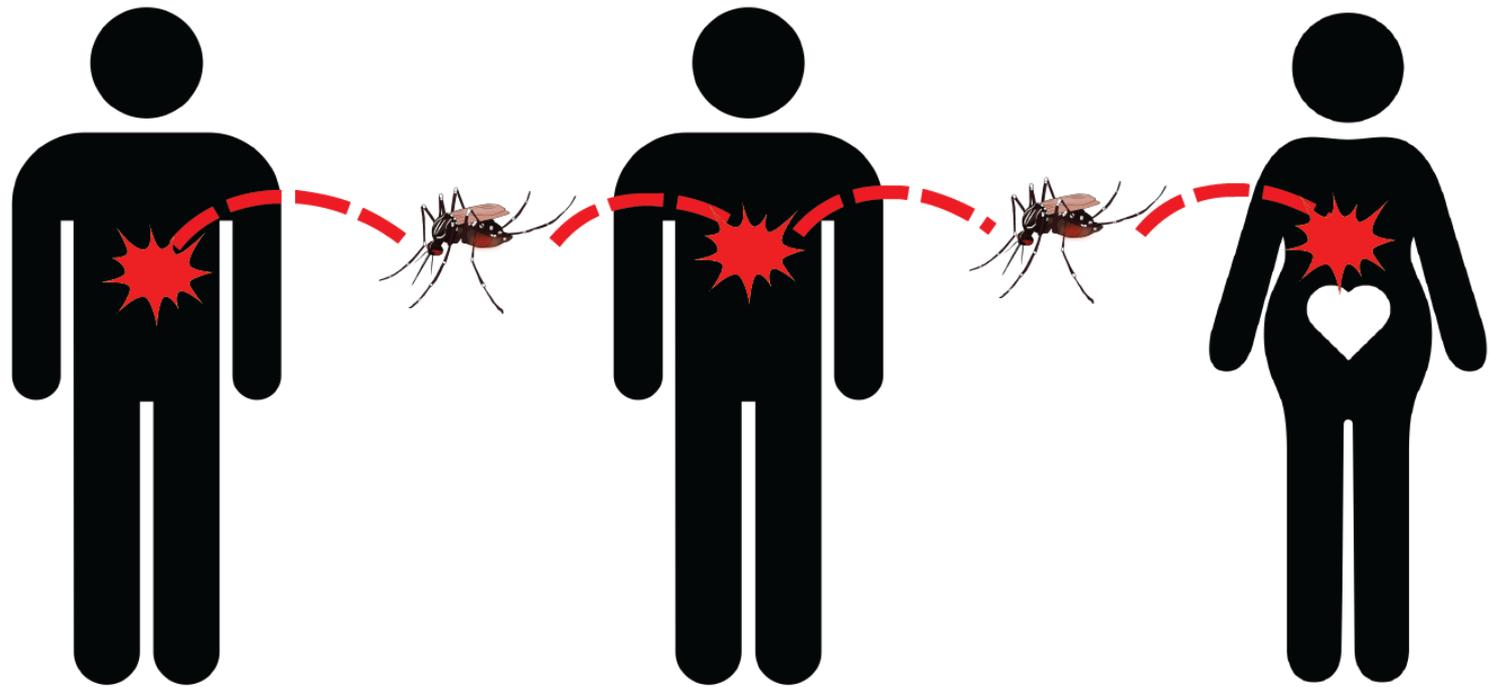


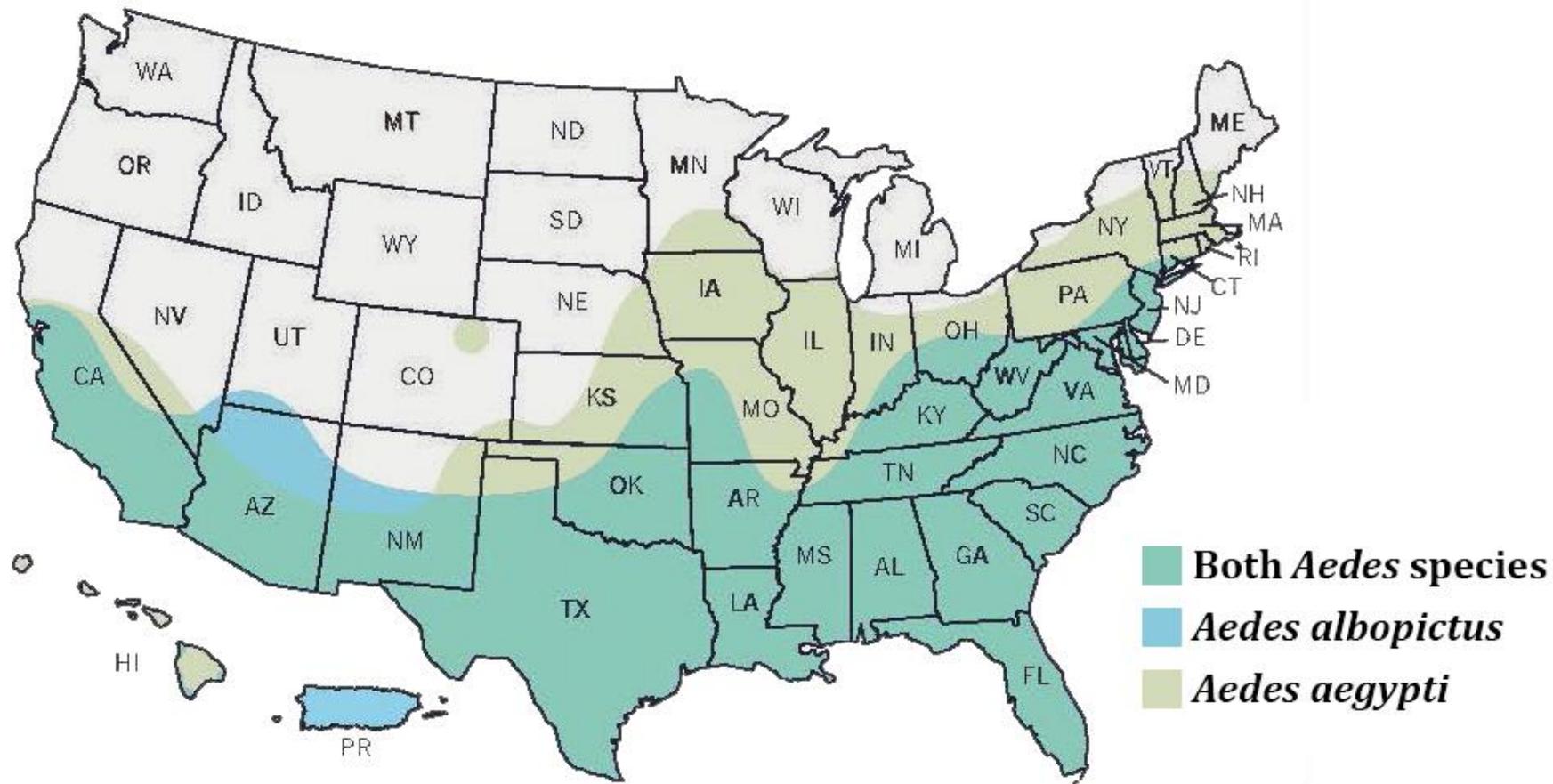
Adult *Aedes* are TINY!



Aedes Viruses Transmission Cycle:

Aedes mosquitoes can transmit **Dengue, Yellow Fever, Zika & Chikungunya**





West Nile Virus

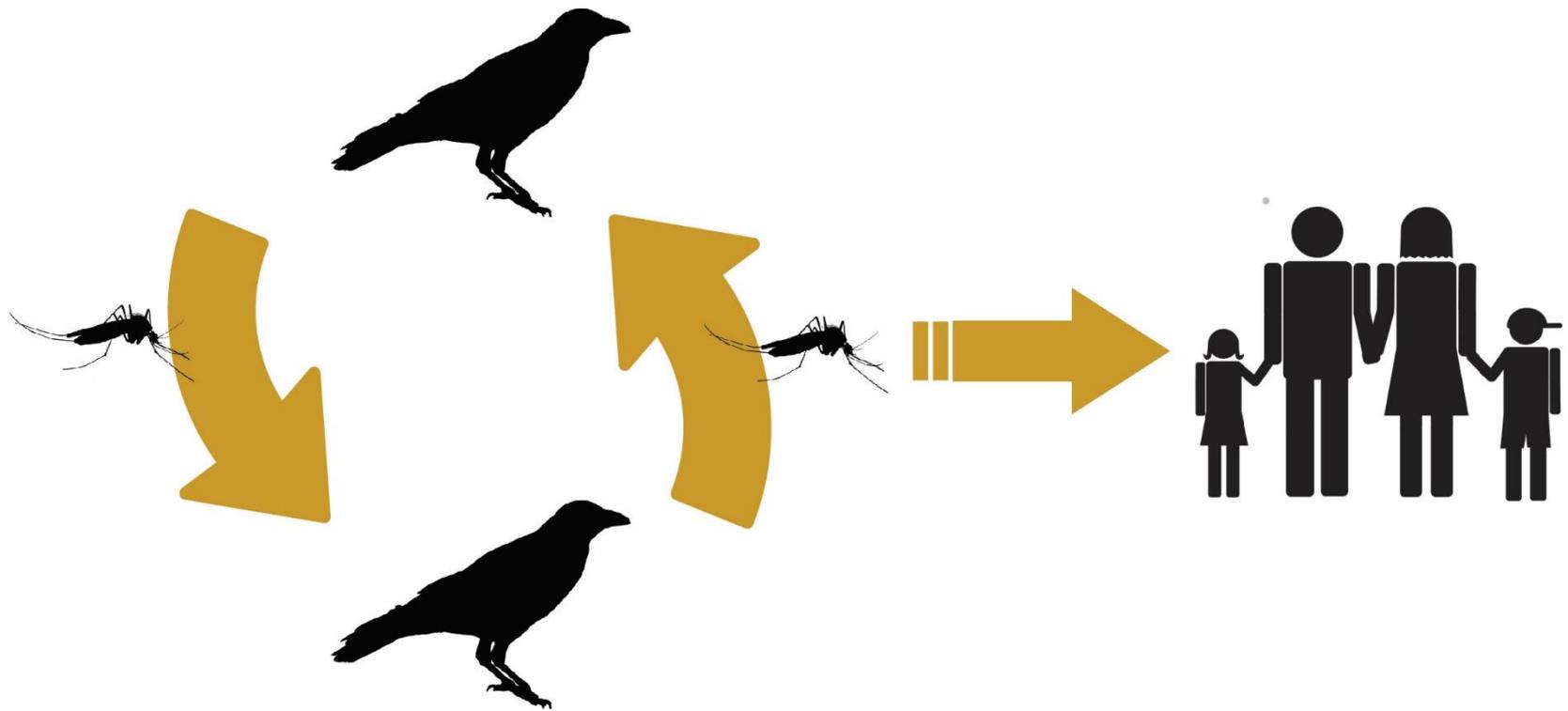
It is Endemic: *Here to stay*

- 1 in 5 will get sick
- 1 in 150 people require hospitalization
- Flu-like symptoms
- Can progress to more serious neurologic disease
- Greatest Risk: those over 65 years, and those with weakened immune systems.

No vaccine, No cure



West Nile Virus Transmission Cycle



Los Angeles County & Cudahy WNV Statistics 2015

Entire L.A. County:

294 WNV+ mosquito samples
103 WNV+ dead birds (corvids)
300 human cases (24 fatalities)



Cudahy:

5 WNV+ mosquito sample
2016 Year-to-date: 1 mosquito sample
0 WNV+ dead corvids



Urban Mosquito Habitat

A Man-Made Problem



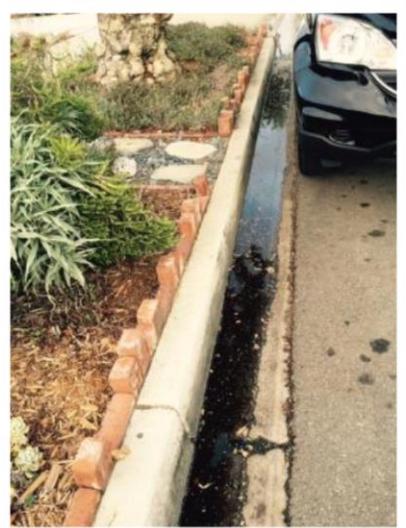
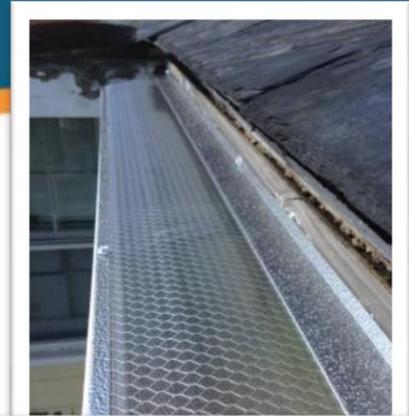
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What We're Doing: *Integrated Vector Management (IVM)*

Disease Surveillance

- Mosquito populations
- Disease transmission

Mosquito Management

- Inspections & service requests
- Source reduction / elimination
- Treatments

Outreach & Education

- Community events
- Elementary education
- Media alerts



How Can Cudahy Help?

The action we take *NOW*
can save lives!

PREVENTION IS THE KEY

- **TIP and TOSS** containers that hold water
- **AVOID BITES:** Wear **INSECT REPELLENT** & keep **SCREENS ON DOORS & WINDOWS**
- **REPORT MOSQUITO PROBLEMS**
- **INVITE US** to your next meeting/event/fair
- **PUBLISH** information in newsletter/websites/bulletins/billboards



CONTACT

Greater Los Angeles County Vector Control District
12545 Florence Avenue, Santa Fe Springs, CA

**INSPECTIONS & ASSISTANCE
AT NO EXTRA CHARGE:**

562-944-9656

www.ReportMosquitoes.org

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