

# Mosquitoes in Bellflower: What you need to know

Presented by:

**Maritza Olmos**

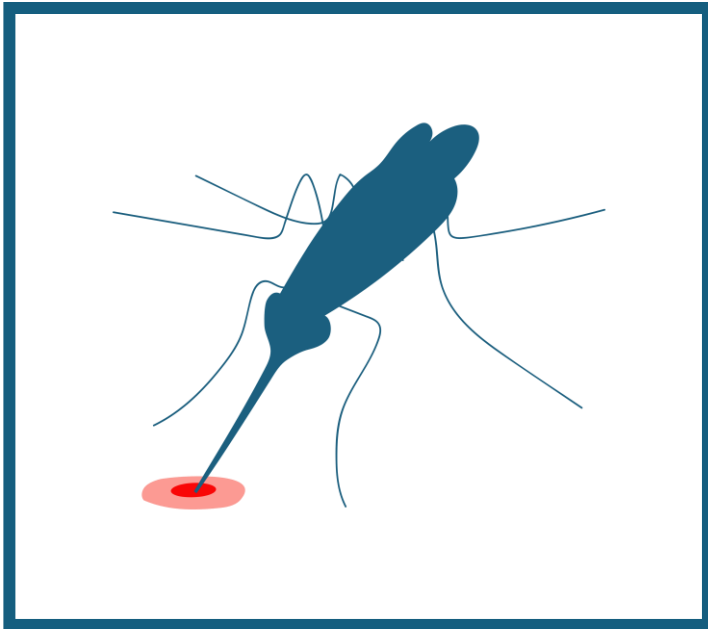
Operations Manager



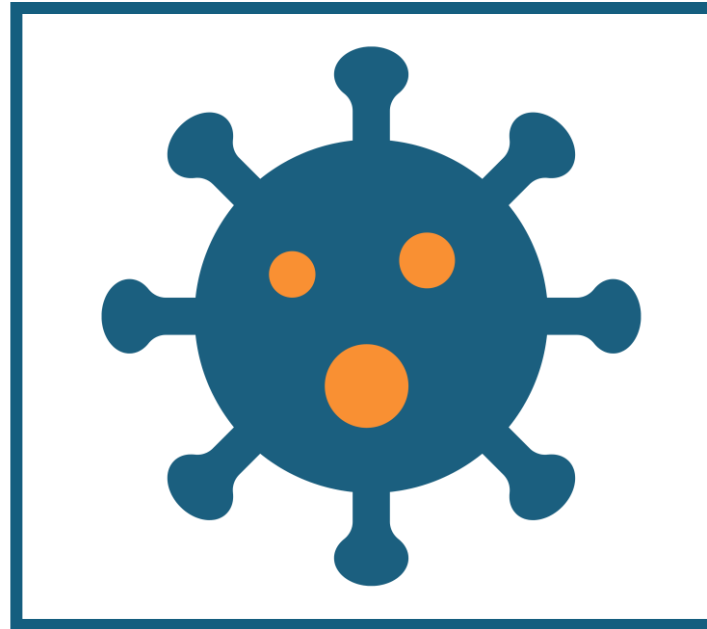
Greater Los Angeles County Vector Control District



# Why Care About Mosquitoes?



**World's Deadliest Animal-**  
Cause over  
**700,000 human deaths**



**Mosquito-borne diseases**  
like **West Nile virus,**  
**Dengue virus, etc.**



**Potential for outbreaks**  
in your community



# What We Do: **Integrated Vector Management (IVM)**



## Disease Surveillance

- Mosquito populations
- Virus Activity



## Mosquito Management

- Inspection & service requests
- Source reduction & treatments



## Education & Outreach

- Community events
- Elementary education



# What We Do: Integrated Vector Management (IVM)



RIVERS



RIVER CHANNELS



UG STORM DRAINS



STREET GUTTERS



GREEN POOLS



PROPERTY  
INSPECTIONS



MOSQUITO TRAPS



MOSQUITO  
IDENTIFICATION

# Services provided to City of Bellflower from 2022 – 2023 so far:

Residential / Public Inspections

1905

Swimming Pools

440

Service Requests

39

Underground Storm Drains

2,575

Date

1/1/2022 6/21/2023

DACity

BELLFLOWER

Non-Pool	
Source Type	Inspection Count
CATCH BASINS	44
DITCHES	53
DRAINS	497
FCC	34
FWY DRAINS	103
GUTTERS	72
MISC RES SRCS	419
OUTFALLS	277
PONDED WATER	25
Ponds	1
RIVER	31
STANDING WATER	25
SUMPS	303
UTILITY VAULT	21
<b>Total</b>	<b>1905</b>

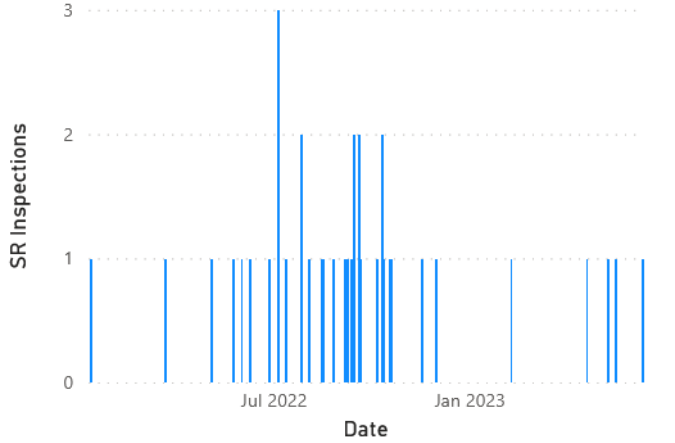
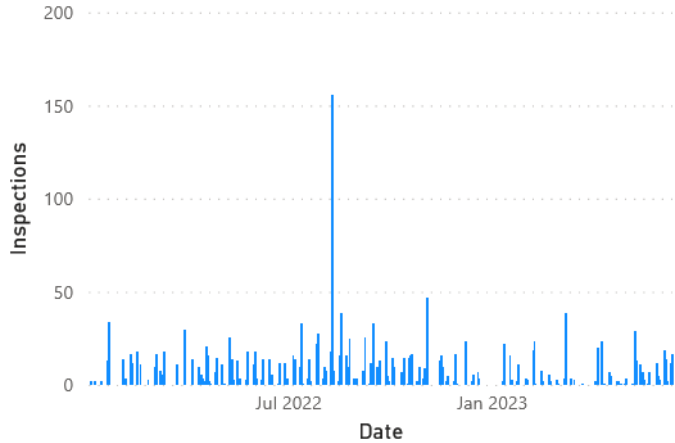
Pools	
Source Type	Inspection Count
doboy	9
FOUNTAIN	15
ORNPD	75
SPA	23
SWPL	318
<b>Total</b>	<b>440</b>

440  
Pool Inspections

1905  
Non-Pool Inspections

2575  
USD Inspections

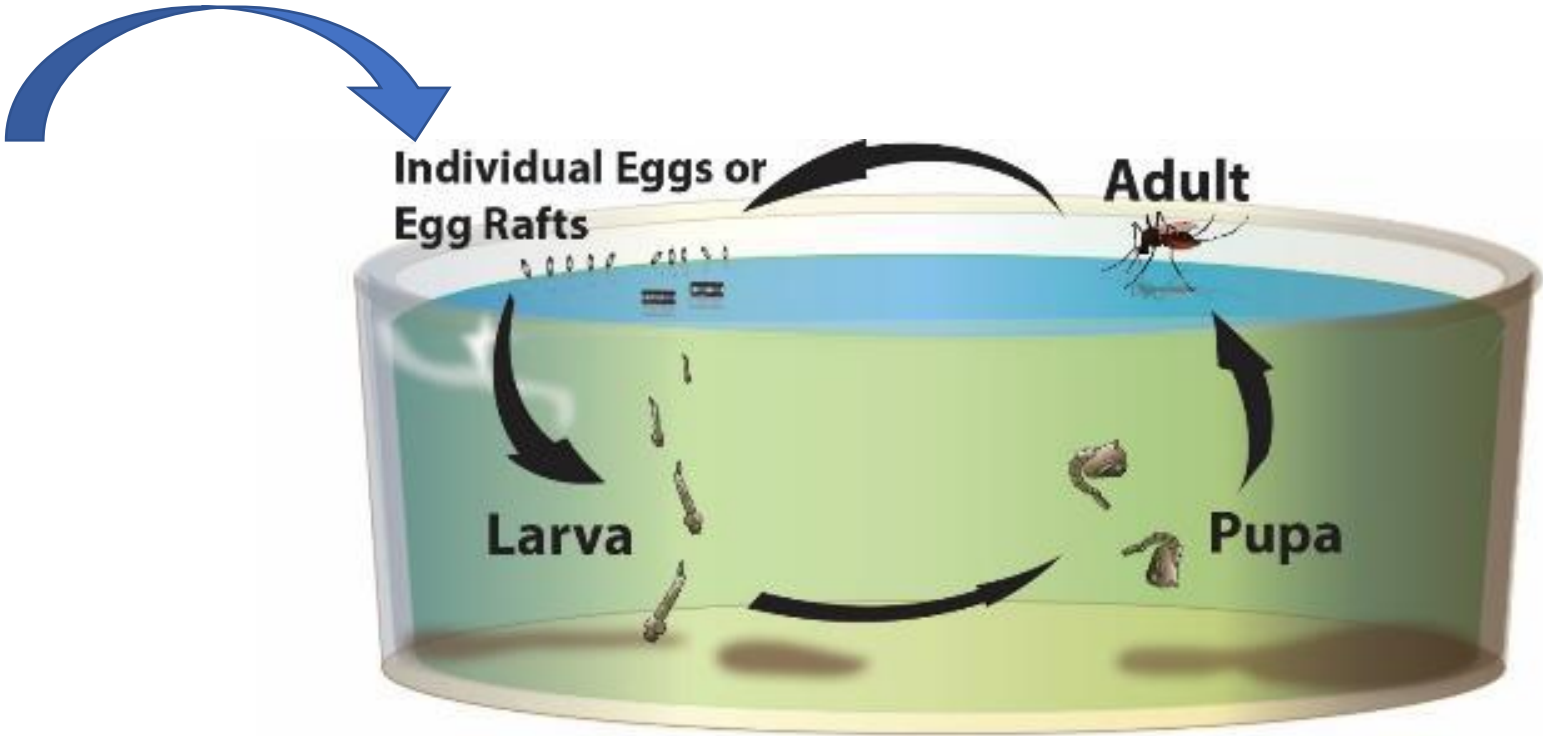
39  
Service Request



# Mosquito Life Cycle



- After a female mosquito bites us, she will look for standing water
- Mosquitoes develop in WATER



- Lay 100-350 eggs
- 4 life stages
- 5-7 days from egg to adult



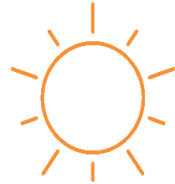


# Culex mosquitoes

# Aedes mosquitoes



**Dawn & Dusk** biters



**Aggressive daytime** biters



Prefer **larger water sources** like green pools, fountains, and ponds



Prefer **small containers** like plant saucers, old tires, buckets, etc.



**West Nile Virus**

St. Louis encephalitis  
Western equine encephalitis



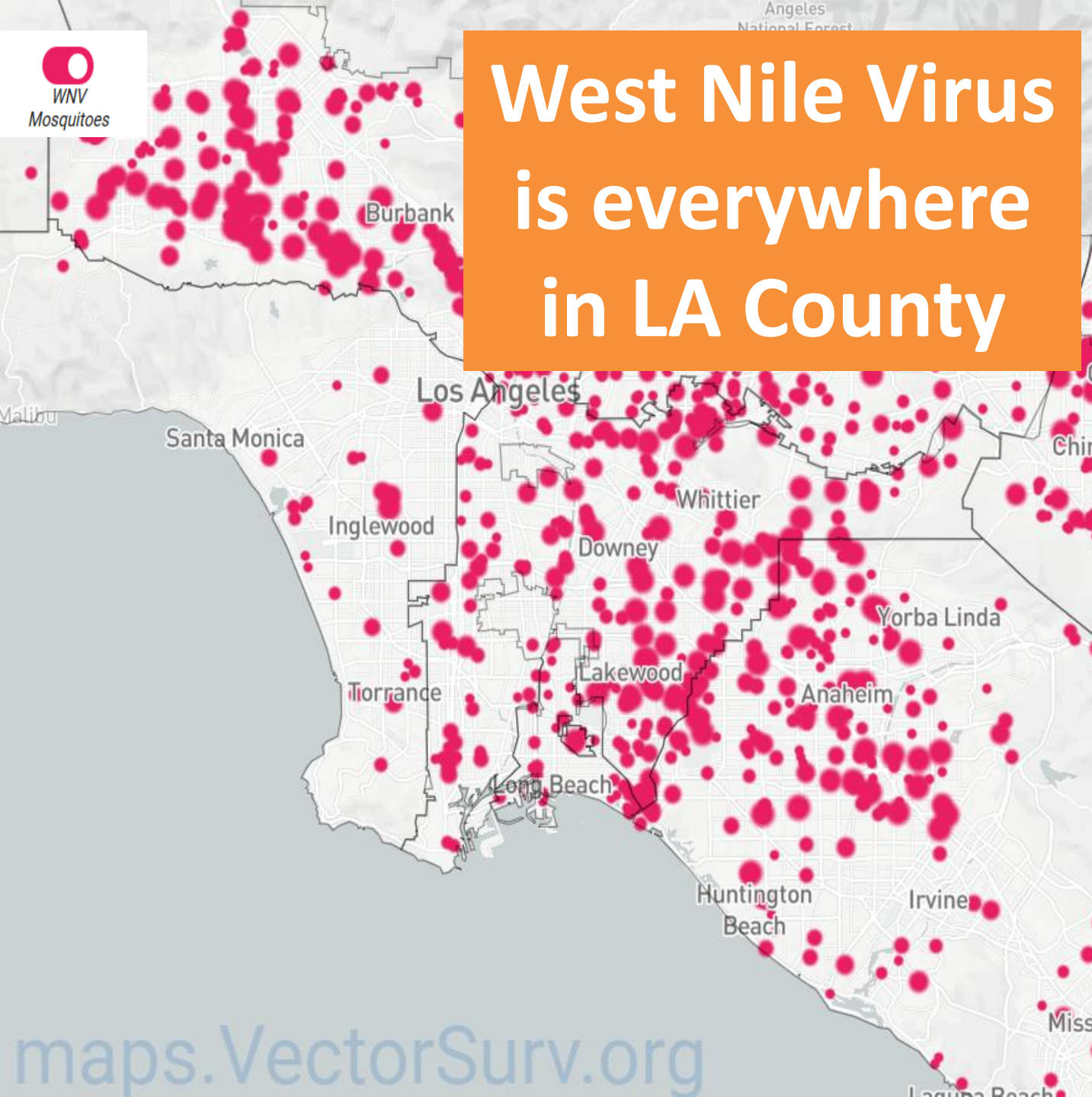
Zika\*  
Dengue\*  
Chikungunya\*  
Yellow Fever\*  
Canine Heartworm

***Infected travelers can bring these viruses to Los Angeles County***

*\*No Local Transmission*



# West Nile Virus is everywhere in LA County



\*CA statistics:  
[www.Westnile.ca.gov](http://www.Westnile.ca.gov)

## In California:

- 2023 WNV+ Mosquitoes: 31
- 2023 WNV+ Human Cases: 0\*
- 2022 WNV + Mosquitoes: 3,165
- 2022 WNV + Human Cases: 211
- 2021 WNV+ Mosquitoes: 2,263
- 2021 WNV+ Human Cases: 12\*

## In GLACVCD:

- 2023 WNV + Mosquito: 1
- 2022 WNV + Mosquito: 372
- 2021 WNV+ Mosquitoes: 68
- 2020 WNV+ Mosquitoes: 313

## In Bellflower:

- 2022 WNV + Mosquitoes: 8
- 2021 WNV+ Mosquitoes: 5
- 2020 WNV+ Mosquitoes: 8



# Controlling for Aedes Mosquitoes

## Challenges of Invasive Aedes

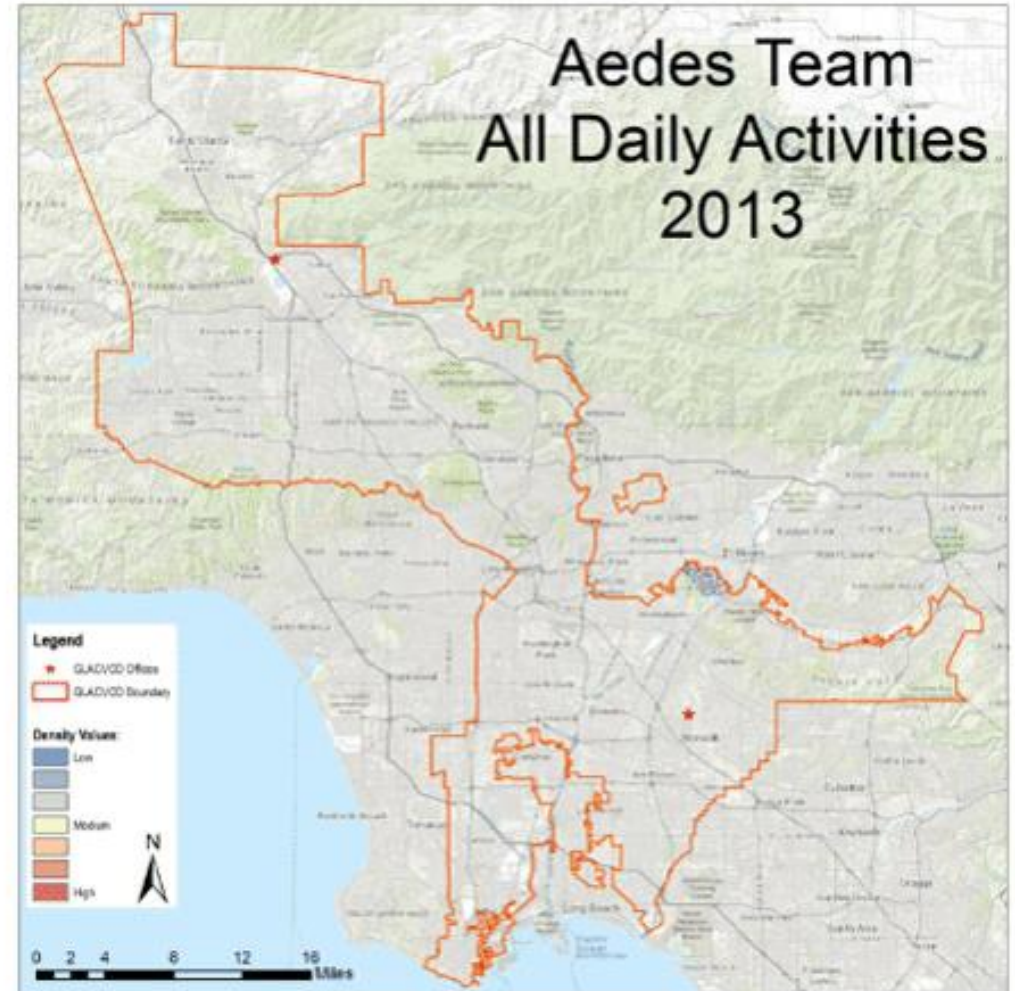
- Have rapidly spread throughout California.
- Found in every city in LA County
- Prefer smaller water sources, making them harder to control
- They lay their eggs in water sources in people's front yards, backyards, and patios
  - Areas where mosquito control agencies can't easily inspect



# Controlling for Aedes Mosquitoes

## Impacts of Aedes

- Impact the quality of life and how residents spend time outdoors
- Increase the risk of additional mosquito diseases entering the county
  - Zika
  - Dengue
  - Chikungunya
  - Yellow Fever
  - Dog heartworm



# GET RID OF STANDING WATER AROUND YOUR HOME

- Once a week – empty and scrub, turn over, cover or throw out any items that hold water.
- **Tip and Toss** any standing water (indoors and outdoors)
- **REMOVE, SCRUB, FLIP OVER,** or **COVER** any dirty containers that can hold water
- **Drill** a hole at the bottom of open containers



# Do-it-Yourself Solutions for Mosquito Problems

Reduce mosquito breeding on your property by eliminating common sources



[www.TipTossTakeAction.org](http://www.TipTossTakeAction.org)

Download this Checklist



## POTENTIAL MOSQUITO SOURCES IN YOUR HOME

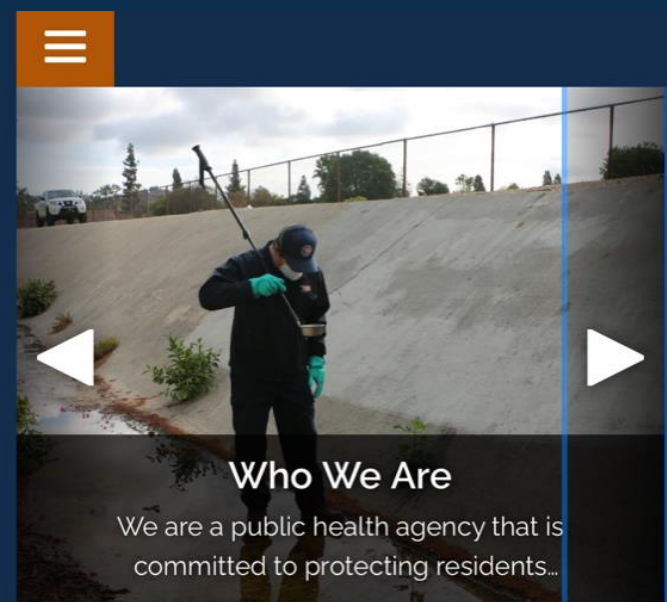
The best method to reduce breeding on your property is to limit the number of potential sources. Inspect around and inside your home for potential breeding sources. If standing water is found, remove the source. If the source is not removed, you must check weekly for standing water to prevent mosquito breeding. Remember to look for mosquito sources every week and after rain events.



- CHECKLIST**
- Any container capable of holding at least a teaspoon of water  
Throw away, turn over, empty once a week or drill holes in the bottom.
  - Buckets, watering cans, drinking glasses, cups, bottle caps, or trash that can hold water  
Store inside or turn over. If trash, throw away.
  - Old Tires  
Dispose of at your local recycling facility. If used for playground equipment, drill holes for water to run. If on ground, ensure holes are not blocked by debris.
  - Dripping Outdoor Faucets and Window Air Conditioners  
If puddling, repair faucet. Place rocks under window air conditioner to ensure water runs off or fill hole with dirt.
  - Drainage Ditch, Culvert, or Low Areas Clogged by Grass or Weed Clippings  
Remove grass and weed clippings so water can flow and/or drain freely.
  - Gutters, including "Covered" Types  
Clean so water runs freely.
  - Base of Patio Umbrella and Portable Basketball Stand  
Fill with sand or, if filled with water, be sure to stand on top. Keep water out of depressions in stand.
  - Bird Baths  
Dump out once a week or flush out with garden hose.
  - Bromeliads (Plants that Hold Water)  
Turn plant over to dump water. For plants too large, flush out cavities with garden hose once a week. Discard or remove from landscaping if possible.
  - Pet Water Bowls  
Scrub and rinse out once a week.
  - Potted Plant Saucers  
Empty saucers or flush out with garden hose once a week. Remove saucers from under plants. Place fine aquarium gravel in saucers.
  - Tarps, Plastic Covers, Flexible Sandbox Covers  
Drain water trapped in folds and arrange so water runs off.
  - Garbage Cans, Barrels, Recycling Bins  
Keep cans covered with lid or drill holes in bottom. If collecting rain water, cover with fine mesh screen.
  - Hollow Fence Posts Without Caps  
Put caps on open chain link or plastic fence posts.
  - Old Playground Equipment  
Remove and dispose of. If it must be stored, put under cover. Be sure water drains off.
  - Sump Pumps  
Cover with screening.
  - Under Decks and Porches: Stored Items, Depressions in Dirt or Plastic Ground Linings  
Fill in depressions. Remove or turn over any stored items that hold water.
  - Ornamental Ponds and Fountains  
Filter water or apply larvicide to prevent breeding.
  - Outdoor Grills  
Keep covered. Ensure the vent is closed.
  - Plastic in Gardens to Prevent Weeds  
Use landscape cloth that will allow water to pass through instead of plastic sheets that hold water.
  - Wheelbarrow Stored Outside  
Store upside down when not in use.

# Service Requests

- Anyone can submit a Service Request
  - Online – [GLAmosquito.org](http://GLAmosquito.org)
  - Phone – (562)944-9656
- Report unmaintained swimming pools



SERVICE  
REQUEST



VECTORS



VECTOR-BORNE  
DISEASES



RESOURCES



SOCIAL MEDIA



SUBSCRIBE



# WEAR INSECT REPELLENT

Use EPA-approved and CDC-recommended Repellent; look for the following active ingredients:

- DEET® (20% OR HIGHER)
- Picaridin
- IR3535
- Oil of Lemon Eucalyptus\*

Wearing insect repellent is the best way to prevent bites, even for children and pregnant women.

\* Apply to children over 3 years old



**Pro Tip:  
Mosquito  
Edition**

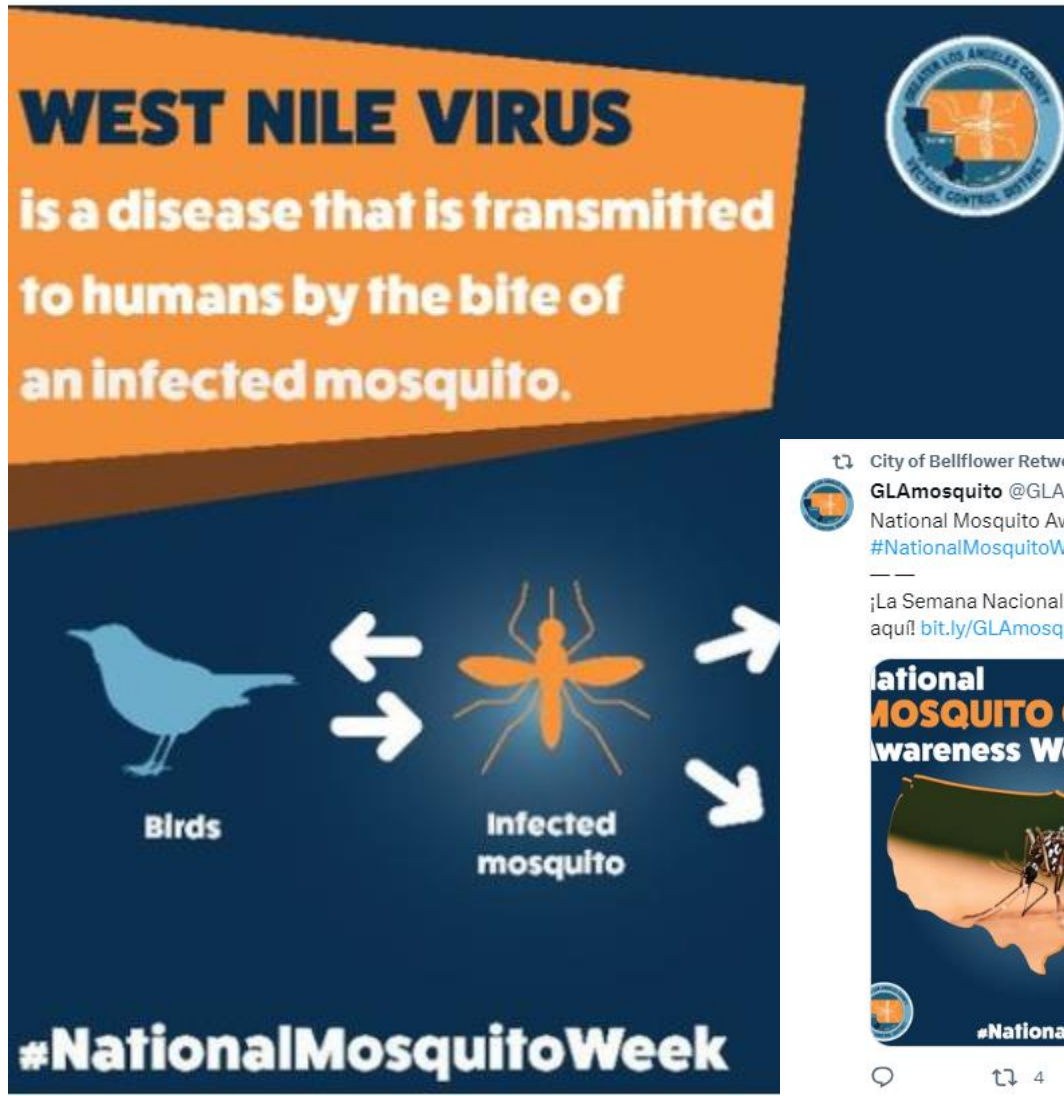
The percentage of the main ingredient in an insect repellent tells you how long the repellent will

Thank you for your continued support and partnership!


 **Bellflower City Hall**  
3h · 🌐


What do birds have to do with the West Nile virus? Some birds infected with WNV may become sick and die, making them good indicators of where WNV is active. If you find a dead bird, call 1-877-WNV-BIRD. Learn More about WNV: [bit.ly/GLAmosquito](http://bit.ly/GLAmosquito)  
[#NationalMosquitoWeek](https://twitter.com/NationalMosquitoWeek)

Spanish Caption: ¿Qué tienen que ver las aves con el virus del Nilo Occidental? Algunas aves infectadas con VNO pueden enfermarse y morir, lo que las convierte en buenos indicadores de dónde está activo el VNO. S... See more



**WEST NILE VIRUS**  
is a disease that is transmitted to humans by the bite of an infected mosquito.



  
Birds      Infected mosquito

**#NationalMosquitoWeek**

City of Bellflower Retweeted

 **GLAmosquito** @GLAmosquito · Jun 19  
National Mosquito Awareness Week is here! [bit.ly/GLAmosquito](http://bit.ly/GLAmosquito)  
[#NationalMosquitoWeek](https://twitter.com/NationalMosquitoWeek)

— —

¡La Semana Nacional de Conocimiento para el Control de Mosquitos está aquí! [bit.ly/GLAmosquito](http://bit.ly/GLAmosquito) [#NationalMosquitoWeek](https://twitter.com/NationalMosquitoWeek)

  
National MOSQUITO CONTROL Awareness Week      Semana de Acción Contra Los MOSQUITOS  
June 18-24      Junio 18-24  
[#NationalMosquitoWeek](https://twitter.com/NationalMosquitoWeek)      [#NationalMosquitoWeek](https://twitter.com/NationalMosquitoWeek)

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*Thank  
you!*

# Greater Los Angeles County Vector Control District

## WEBSITE

[www.GLAmosquito.org](http://www.GLAmosquito.org)

## SERVICE REQUEST

562-944-9656

## SOCIAL MEDIA

@GLAmosquito



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