

## INTRODUCTION

This project is aimed at understanding and managing mosquito populations in our city. By working together, we can make a real difference in promoting public health and advancing scientific knowledge.

## OBJECTIVES

- I. Educate citizens of Jonesboro about mosquito Integrated Pest Management.
- II. Monitor mosquito populations through citizen-led trapping efforts

## WHAT IS INTEGRATED PEST MANAGEMENT (IPM) FOR MOSQUITOES?

IPM involves a comprehensive approach that emphasizes prevention, population reduction, & habitat examination.

We want to educate the citizens of Jonesboro on how to help prevent mosquito habitats to reduce mosquito populations.



## JONESBORO CITIZEN SCIENCE MOSQUITO SURVEY: EDUCATING AND MONITORING FOR MOSQUITO MANAGEMENT

## SCIENCE IN YOUR BACKYARD!

## HOW YOU CAN BE INVOLVED

For this project you would help us by trapping for mosquitoes in your backyard!

Our team would bring a mosquito trap to your house one evening and help you set up the trap. The trap would run overnight and be picked up the next morning.

After the trap is collected we will analyze the number and types of mosquitoes. Then we will send that information back to you, helping you learn about the mosquito population in your backyard!

## HOW TO SIGN UP

Use the QR code/link below and fill out the form and a member of our team will be in touch.





# What the Traps Look Like



<https://www.johnwhock.com/products/mosquito-sandfly-traps/cdc-miniature-light-trap/>



# Mosquitoes as Vectors

What is a vector?

A vector is organism that can carry and transmit viruses, parasites, and bacteria.

Female mosquitoes can transmit diseases to humans and animals when they take a blood meal.

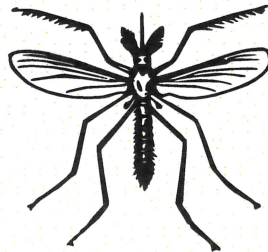
Diseases that mosquitoes can transmit to humans include :

- Malaria
- West Nile Virus
- Zika
- Many others

Mosquitoes can also transmit diseases to your furry family members.

- These insects are responsible for the transmission of heartworm that can be lethal for dogs.

# What You Should Know About Mosquitoes



## Mosquito Life

- On average mosquitoes live 2-4 weeks.
- Female mosquitoes are the ones that blood feed. They require a blood meal for reproductive purposes. Males feed on nectar
- Mosquitoes need water for reproduction, as the females lay eggs in stagnant water
- They can lay eggs in an area as small as a bottle cap filled with water.
- Peak active hours are between dusk and dawn.

# How To Reduce and Prevent Mosquitoes

Eliminate stagnant water:

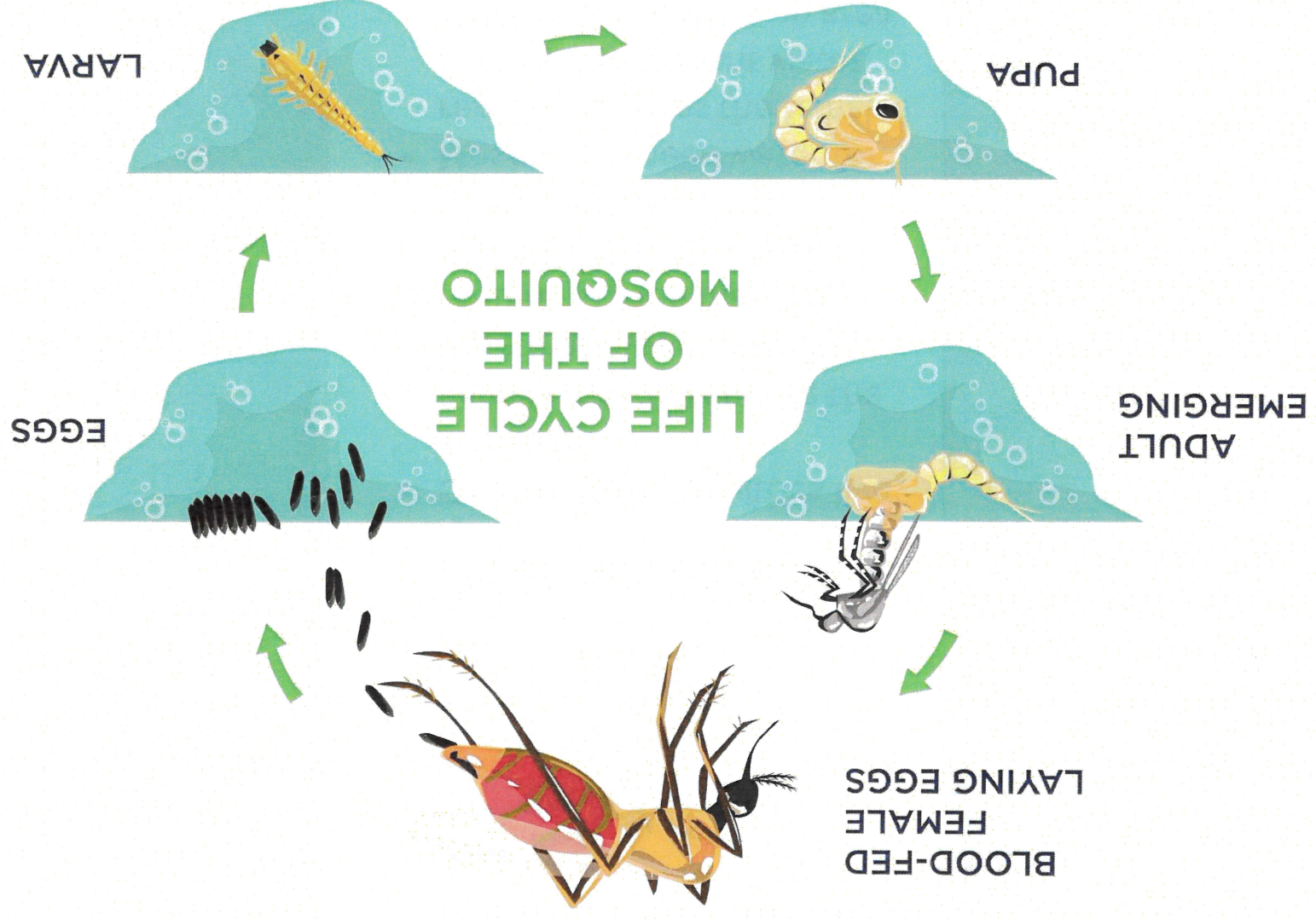
- Remove containers that can hold water.
- Make sure gutters are clean so that water can flow.
- Change the water in pet bowls once a week.

Use mosquito repellent products.

Provide an environment to support natural enemies such as frogs and birds.

Keep in mind that one prevention method alone is not guaranteed to work, so consider trying multiple approaches to see the best results.







You will help set up a special trap to lure in these buzzy insects and help us learn more about them!



Become a Mosquito Mastermind:

You will learn about different types of mosquitoes, where they like to hang out, and how they grow up

# Kids Can be Scientists Too!



## Let's Explore Mosquitoes Together

Hey, young scientists! Are you up for a wild adventure in your own backyard?

Join our special project and become a Mosquito Scientist!

As a Junior Scientist in our project, you'll get to team up with real-life scientists to catch mosquitoes right in your backyard!







## Why Should You Join?



- **Adventure Awaits:** Explore the world of science right in your own back yard!
- **Make a Difference:** Your discoveries could help keep people safe from mosquitoes
- **Learn and Have Fun:** Discover new things about mosquitoes while having fun with friends and family.
- **Be a Hero:** You'll be a real-life scientists, helping make big discoveries that help everyone.

So, If it is okay with your parents, and your family is interested, your parent can sign your family up using the QR code shown. But make sure you have your parents permission, because an adult has to fill out the form.

\*Must be residents of Joneboro, AR\*

