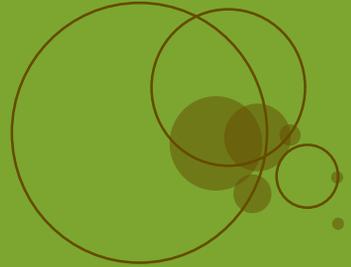


# Breaking the Zika Virus Cycle



Mosquitoes that carry the Zika virus can live indoors and outdoors. They will bite during daytime. Mosquitoes need very little water to breed.



## PREPARE YOUR HOME TO PROTECT YOURSELF FROM ZIKA VIRUS-INFECTED MOSQUITOES

### Eliminate standing water around the home from:

- Buckets
- Children's outdoor toys
- Pet dishes
- Fountains
- Ornamental ponds
- Bird baths
- Boats on trailers/Jet Skis
- Clogged rain gutters
- Tarps
- Garden equipment/supplies
- Pool/yard drains
- A/C Drains
- Sporting equipment
- Ice coolers
- Open septic tanks
- Rain/irrigation barrels
- Accordion-style drains
- Livestock troughs
- Flat roofs



**Have a pool? Keep it clean and safe for swimming**

### Remove:

- Containers (cans/bottles/lids)
- Old auto parts
- Old tires
- Litter
- Debris



### Also check:

- Faulty sprinkler system
- Leaking hose spigots
- Bromeliad plants
- Flower/plant pots
- Tree Holes
- Coconut shells



Highway and Bridge Maintenance Division – Mosquito Control



1201 W. Airport Road, Pembroke Pines, FL 33023  
Phone: 954-765-4062 / FAX: 954-985-1959

Email: [mosquito@broward.org](mailto:mosquito@broward.org) / Website: [Broward.org/Streets/Mosquito](http://Broward.org/Streets/Mosquito)



# Breaking the Zika Virus Cycle

## Help #ZapZikaBroward



- Maintain and inspect your facility regularly to prevent the spread of Zika.



- Dump or flush standing water frequently from air conditioner pans, rooftops, gutters and drainage systems – at least weekly. Keep gutters clean and drainage systems clear.



- Keep roof drain clean. Where possible, remove containers that hold roof-drain water.



- If unable to eliminate standing water, treat with larvicide.



- Eliminate all standing water from school yards, parking lots, play areas, fields, etc. If unable to remove, treat with larvicide. Cover openings and holes.



- Eliminate standing water from tree holes, plants and pots, children's toys, buckets; anything on the property that can hold water.



- Keep doors and windows closed.



- Change water for indoor plants frequently.

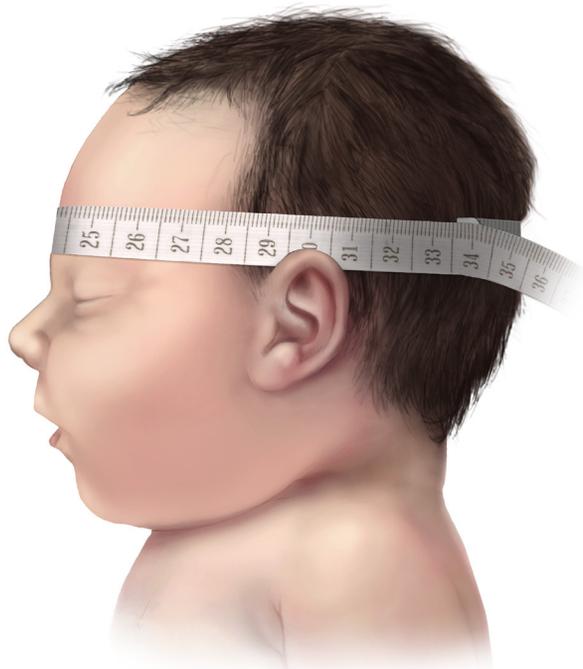


# MEASURING HEAD CIRCUMFERENCE



Typical Head Size

Typical Head Size



**Baby with Typical Head Size**



**Baby with Microcephaly**



**Baby with Severe Microcephaly**

- Use a measuring tape that cannot be stretched
- Securely wrap the tape around the widest possible circumference of the head
  - » Broadest part of the forehead above eyebrow
  - » Above the ears
  - » Most prominent part of the back of the head

- Take the measurement three times and select the largest measurement to the nearest 0.1 cm
- Head circumference measurements should be taken on the first day of life because commonly-used birth head circumference reference charts by age and sex are based on measurements taken before 24 hours of age

For more information: [www.cdc.gov/zika](http://www.cdc.gov/zika)



U.S. Department of  
Health and Human Services  
Centers for Disease  
Control and Prevention

## Mosquito Control - Chemical List

### Applied directly to bodies of water (by hand)

Chemical Name	Available	Vendor	Uses	Description
CocoBear (dropper)	Liquid	<ul style="list-style-type: none"> <li>• Clarke</li> </ul>	Larvicide	<p>CocoBear, a high performance larvicidal oil, that has a reduction of petroleum distillates from 98.7% to 10% when compared to its predecessor, GoldenBear. Highly effective, (field trials confirm 100% control inside of 2 hours), CocoBear is appropriate for a wide variety of aquatic habitats. This larvicidal oil spreads fast and is even effective in cooler temperatures. CocoBear is non-flammable, does not settle or separate and has a light coconut scent.</p> <p><a href="https://www.clarke.com/cocobear">https://www.clarke.com/cocobear</a></p>
Altosid XR-150 Briquets	Briquet	<ul style="list-style-type: none"> <li>• Clarke</li> <li>• ADAPCO</li> </ul>	Larvicide	<p>Altosid® is a larvicide that disrupts the normal growth pattern of immature mosquitoes in water and prevents them from becoming breeding, biting adults. It prevents the emergence of breeding and provides the extended control. It's perfect for locations where ongoing maintenance is necessary. Altosid® is an easy to use, long-term, cost-effective and environmentally responsible mosquito control larvicide.</p> <p><a href="http://www.myadapco.com/product/altosid-briquets/">http://www.myadapco.com/product/altosid-briquets/</a></p>
BTI (Bacillus thuringiensis israelensis)	Briquet	<ul style="list-style-type: none"> <li>• Summit Chemical (available through AMVAC)</li> <li>• ADAPCO</li> </ul>	Larvicide	<p>BTI is a small circular cork matrix that floats on standing water. As the briquet slowly dissolves, it releases a bacterium which is toxic to all species of mosquito larvae. The active ingredient is bacillus thuringiensis subspecies israelensis which is a common soil-borne substance. BTI is a bacterium that is deadly to mosquito larvae but harmless to other living things; for instance: aquatic insects, fish, and other aquatic life are not harmed. BTI can be used any place water collects and allows mosquitoes to breed and remain for periods of time. After female mosquitoes lay their eggs in or near standing water treated with a BTI, the larvae that hatch feed on the BTI; the BTI will kill the mosquito larvae before they can develop into adults. (Environmentally compliant performance)</p> <p><a href="http://www.amvac-chemical.com/Product-Details/pid/217">http://www.amvac-chemical.com/Product-Details/pid/217</a></p>
Natular DT	Tablet (60-day)	<ul style="list-style-type: none"> <li>• Clarke</li> </ul>	Larvicide	<p>Natular® is the first and only complete formulation portfolio of larvicides with an active ingredient that is a product of a naturally occurring soil bacterium. All formulations contain the patented ingredient, spinosad. Natular is in a chemical class (IRAC Class 5) product, different from all other larvicides with a unique mode of action, a combination needed to fight resistance. (OMRI: U.S. Organic Materials Review Institute approved)</p> <p><a href="https://www.clarke.com/natular">https://www.clarke.com/natular</a></p>
Natular G30	Granule (30-day)			
Natular XRT <b>OMRI</b>	Tablet (180-day)			

## Mosquito Control - Chemical List

### Applied directly to bodies of water (by hand)

#### Vendor Contact Information - Commercial Purposes

Clarke	Kim Dunn, Florida Sales Coordinator Phone (407) 944-0520 x3610 Fax: (407) 944-0709 Email: kdunn@clarke.com <a href="https://www.clarke.com/">https://www.clarke.com/</a>	
ADAPCO	Chris Pederson, Mosquito Control Consultant Phone: (888) 203-5253 Fax: (866) 330-9888 Email: CPederson@MyADAPCO.co <a href="http://www.myadapco.com/">http://www.myadapco.com/</a>	Elizabeth Leibee, Customer Service & Inside Sales Direct: (877) 250-6507 Main: (800) 367-0659 Fax: (866) 330-9888 Email: East@MyADAPCO.com
Summit Chemical	235 South Kresson Street, Baltimore, MD 21224-2616 Phone: (410) 522-0661 Email: info@summitchemical.com Email: marketing@summitchemical.com <a href="http://www.summitchemical.com/">http://www.summitchemical.com/</a>	