

Memorandum



Date: February 4, 2016

To: Honorable Chairman Jean Monestime and Members
Board of County Commissioners

From: Carlos A. Gimenez
Mayor 

Subject: Miami-Dade County's Mosquito Control Program

This memo provides information on the actions of the Department of Solid Waste Management's (DSWM) Mosquito Control Section to address mosquito populations countywide and to reduce and prevent the transmission of mosquito-borne illnesses. DSWM's Mosquito Control Section is dedicated to reducing mosquito populations using the most effective methods and technologies that will protect human health and enhance the quality of life for all residents.

The Mosquito Control program is designed to be proactive in terms of surveillance and monitoring activities in order to control mosquito larvae and eliminate adult mosquito populations as much as possible. While mosquito control efforts take place year-round, the traditional mosquito season occurs during the period from May to October. This year's unusually rainy winter has created some of the conditions necessary for increased mosquito activity; however, the number of service requests for inspections to address mosquitoes as a nuisance has not been significant.

Of concern to the public is the possible transmission of mosquito-borne illnesses such as the West Nile Virus, Dengue Fever, Chikungunya Fever, and, most recently, the Zika virus. The Florida Department of Health in Miami-Dade (FDOH Miami-Dade) investigates these and other human mosquito-borne diseases. FDOH Miami-Dade works closely with DSWM's Mosquito Control Section in order to protect our community. To date, the confirmed Florida cases are imported cases, meaning they involve travelers who are returning from outside the country, and were not locally transmitted.

Over the last three (3) weeks, DSWM has followed its standard mosquito control protocol in response to notifications from FDOH Miami-Dade that there are suspected cases of Zika. When the DSWM is notified of a suspected or confirmed case of a mosquito-borne illness, the Mosquito Control Section carries out the following steps to reduce the possibility that the illness will be spread locally:

- conducts property inspections to eliminate mosquito breeding;
- treats storm drains in the area;
- initiates local and area-wide insecticide applications;
- collects mosquito surveillance data to assess the mosquito population before and after the mosquito control measures are implemented; and
- collects mosquitoes for laboratory screening to determine if they carry the mosquito-borne viruses.

In response to the Governor's February 3, 2016 Executive Order declaring a Health State of Emergency, the DSWM will continue to work in partnership with the FDOH Miami-Dade to address any suspected or confirmed cases of Zika, or any other mosquito-borne illness. The Mosquito Control Section will remain vigilant and prepared to respond aggressively should elevated mosquito control measures, such as truck or aerial spraying activities, become necessary. Conditions that would necessitate an increased level of response include mosquito counts that exceed existing standards and an increase in the number of complaints. When these conditions occur, trucks are deployed nearly every day to address high mosquito counts. When necessary, aerial spray missions are conducted to cover large areas of land where mosquitoes are breeding and/or creating a nuisance.

Spray activities are conducted to distribute a safe, EPA-approved insecticide to areas of the County that have documented high concentrations of mosquitoes. The distribution of insecticides is accomplished in two (2) different methods. The first is with truck-mounted equipment utilizing in-house staff and the second is by aerial application with an aircraft through an established contract with the creation of a work order. All insecticides used in our operations are applied in strict accordance with label instructions and Florida Statutes as detailed in Chapter 388. The insecticides used to control mosquitoes are non-persistent, which means they last only a short period of time and are biodegraded into harmless byproducts, eliminating any residual effects. However, it is suggested that people with known allergies stay indoors during spray activities. DSWM also notifies beekeepers and requests that they keep their bees covered during the spraying operations in their area.

In addition to the Mosquito Control operations, DSWM will continue to utilize the existing "Drain and Cover" public education campaign to increase public awareness of our mosquito control efforts in partnership with the FDOH Miami-Dade. Public involvement is crucial to prevent mosquito breeding and to reduce the risk of contracting mosquito-borne illnesses. The educational materials associated with this campaign communicate simple measures that can be undertaken by residents to prevent mosquito breeding and to protect themselves from mosquito bites and transmission of mosquito-borne illnesses. These materials will be made available to each District Commissioner for inclusion in your constituent communications.

Copies of the tri-lingual flyer are attached to this memorandum. The "Drain and Cover" campaign is available to the public at <http://www.miamidade.gov/solidwaste/mosquito-control.asp>. Additional information on Miami-Dade County's mosquito control efforts can also be found at this site as well.

Attachments

- c: Honorable Harvey Ruvlin, Clerk of the Board
- Abigail Price-Williams, County Attorney
- Alina T. Hudak, Deputy Mayor, Office of the Mayor/Director, Department of Solid Waste Management
- Russell Benford, Deputy Mayor, Office of the Mayor
- David Downey, Chief, Miami-Dade Fire Rescue
- Curtis Sommerhoff, Assistant Director, Miami-Dade Fire Rescue/Director, Office of Emergency Management
- Paul Mauriello, Deputy Director, Waste Operations, Department of Solid Waste Management



Feeling the sting of
mosquitoes?
Then it's time to
drain and cover.



Drain standing water.

Drain water from garbage cans, house gutters, pool covers, coolers, toys, flower pots or any other containers where sprinkler or rain water has collected.

DISCARD:

old tires, drums, bottles, cans, pots and pans, broken appliances and other items that aren't being used.

EMPTY AND CLEAN:

birdbaths and pets' water bowls at least once or twice a week.

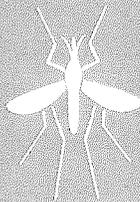
PROTECT:

boats and vehicles from rain with tarps that don't accumulate water.

MAINTAIN:

the water balance (pool chemistry) of swimming pools. Empty plastic swimming pools when not in use.

**Stop mosquitoes from living and multiplying around
your home or business.**



Protect yourself
from mosquito
bites and the
diseases they
carry.

Don't forget to
drain and **cover**.



COVER YOUR SKIN WITH:

CLOTHING If you must be outside when mosquitoes are active, cover up. Wear shoes, socks, long pants, and long sleeves.

REPELLENT Apply mosquito repellent to bare skin and clothing. Always use repellents according to the label. Repellents with DEET, picaridin, oil of lemon eucalyptus, and IR3535 are effective. Use mosquito netting to protect children younger than 2 months.

COVER DOORS AND WINDOWS WITH SCREENS.

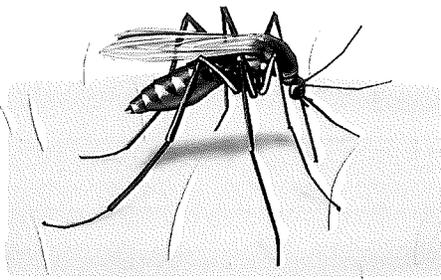
Keep mosquitoes out of your house. Repair broken screens on windows, doors, porches, and patios.



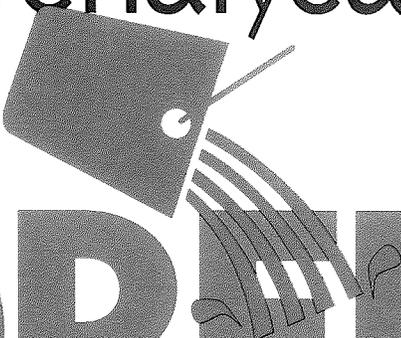
www.dadehealth.org



www.miamidade.gov/solldwaste



¿Siente la picada de los mosquitos?
Entonces es hora de drenar y cubrir.



DRENE

Drene el agua estancada.

Drene el agua de potes de basura, cañerías residenciales, cubiertas de piscina, neveras portátiles, juguetes, materos o cualquier otro contenedor donde se ha acumulado agua de rociadores o de lluvia.

DESCARTE:

llantas viejas, recipientes para agua, botellas, latas, potes y ollas, aparatos rotos y otros artículos que no se estén utilizando.

VACÍE Y LIMPIE:

baños para pájaros y tazones de agua para mascotas por lo menos una o dos veces por semana.

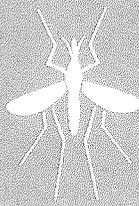
PROTEJA:

botes y vehículos de la lluvia con cubiertas que no acumulen agua.

MANTENGA:

el balance químico de la piscina. Vacíe piscinas de plástico cuando no se estén utilizando.

Detenga a los mosquitos para que no vivan y se multipliquen alrededor de su casa o negocio.



Protéjase de las
picadas de
mosquitos y las
enfermedades
que transmiten.

No se olvide de
drenar y cubrir.

CUBRA



CÚBRASE LA PIEL CON:

ROPA Si usted debe estar afuera cuando los mosquitos están activos, cúbrase. Póngase zapatos, medias, pantalones largos y mangas largas.

REPELENTE Aplique repelente de mosquitos en la piel descubierta y en la ropa. Siempre utilice repelentes de acuerdo a las instrucciones en la etiqueta. Repelentes con DEET, picaridin, aceite de eucalipto de limón y IR3535 son eficaces. Use mallas de mosquitos para proteger niños menores de 2 meses.

CUBRA PUERTAS Y VENTANAS CON MALLAS.

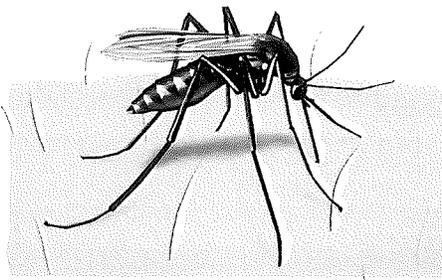
Mantenga los mosquitos fuera de su casa. Repare mallas rotas en ventanas, puertas, porches y patios.



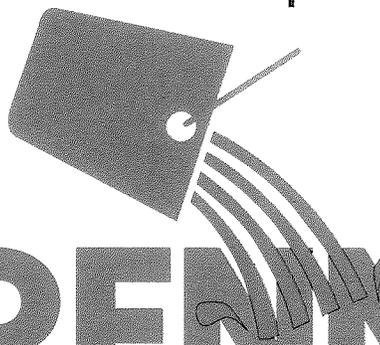
www.dadehealth.org



www.miamidade.gov/solidwaste



Ou santi moustik ap
pike w?
Sa vle di li lè pou
drennen epikouvri.



DRENNEN

Drennen dlo dòmi.

Drennen dlo nan poubèl, goutyè, kouvèti pisin,
glasyè, jwèt, potafèlè oswa tout lòt respidan kote dlo
pou wouze oswa dlo lapli stoke.

JETE:

vye kawotchou, dwoum, boutèy, bidon, po ak
kastwòl, aparèy kase ak lòt atik ki pap sèvi.

VIDE EPI NETWAYE:

basen zwazo ak abrevwa bèt domestik yo, youn oswa
de fwa pa semenn omwens.

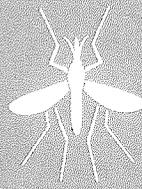
PWOTEJE:

bato ak machin kont lapli ak bach ki pa kenbe dlo.

KENBE:

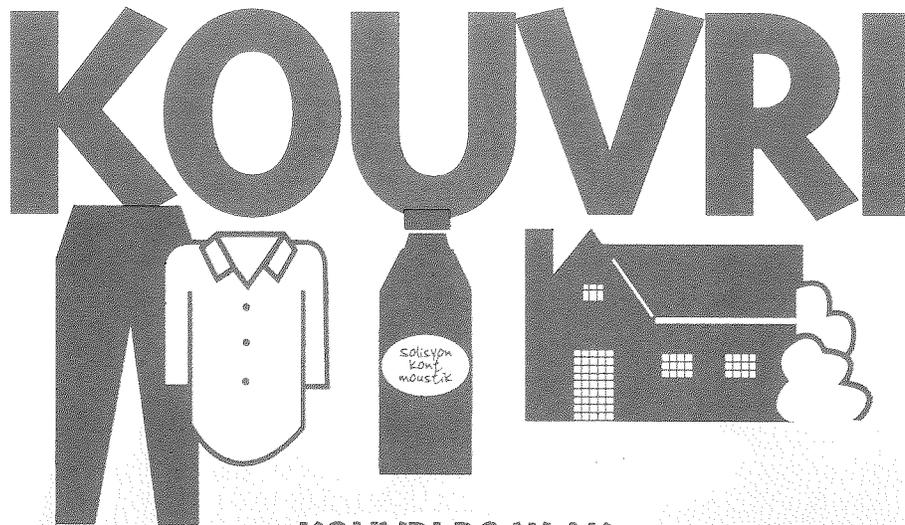
konpozisyon chimik dlo pisin yo.
Vide pisin an plastik yo lè yo pap sèvi.

**Anpeche moustik viv epi miltipliye bò
lakay ak biznis ou.**



Pwoteje tèt ou
kont piki
moustik ak
maladi yo pote.

Pa bliye
drennen epikouvri.



KOUVRI PO W AK:

RAD Si ou dwe rete deyò lè moustik yo aktif, kouvri kò w. Mete soulye, chosèt, pantalon long, ak manch long.

SOLISYON KANPE LWEN POU MOUSTIK Pase solisyon kanpe lwen sou po w ak rad ou. Toujou itilize solisyon kanpe lwen jan etikèt la di l la. Solisyon kanpe lwen ki fèt ak DEET, ikaridin, esans sitwon ekalptis, ak IR3535 efikas. Itilize moustikè an til pou pwoteje timoun pi piti pase 2 mwa.

SKRINE PÒT AK FENÈT YO.

Pa kite moustik rantre nan kay la. Repare skrin fenèt, pòt, galri ak teras yo.



www.dadehealth.org



www.miamidade.gov/solidwaste