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> Critters in Our Midst: No-See-Ums

> > by Carol Ellis

"Flying Teeth" This critter appears to be the size of a single grain of ground pepper, until it bites, and a big red welt appears in it's place. Graphic courtesy of www.bug-slayer.com

and reproduce. On the other hand, sand fleas live in

just smelly, muck anywhere that has a food source

and is damp. No way to eliminate them. To protect

screens, burned pyrethrum powder in a burner Russ had made with a pumice base and slotted coconut

shell top. When we had to go out in them, we applied

discovered a screen paint which kept most of them

outside. Mothballs dissolved in kerosene, helped

Ironically, Charlotte's father, J. P. Arpin, had

Broward. You just can't control Mother Nature.

The island was vacated after the Great Labor Day

Hurricane of 1935, when salt water and waves

submerged the island, destroying the homes and

been a reclamation and drainage engineer for Gov.

Island homes belonging to the early settlers,

Conchs and fishermen, were close to the

water, on dry elevated lots. They relied on

prevailing winds to keep them cool and

relatively bug-free. The "window"

openings had screens and shutters,

ourselves from them in the house, we oiled the

Vicks Salve to exposed areas. Eventually we

keep these 'Flying teeth' out."

ruining the farmland.

Imagine living in South Florida or the Florida Keys without some type of protection from the "mosquito." Mosquitos are the most well known of the biting flies, but "no-see-ums," their "all teeth," nearly invisible cousin, are a force to be reckoned with.

Belonging to the Ceratopogonidae family, their common name actually refers to a specific type of tiny biting fly, also known as midges, biting gnats, or sand flies, who depend on a supply of fresh human blood to reproduce. There are about four thousand species of these insects, found in almost all parts of the world where there is suitable wet habitat for multiplying.

The prevailing thought in the early 1900s was that diking and draining the Everglades was needed to make South Florida habitable. Snowbirds came in December, and fled north in late spring, before it became muggy and buggy. Politicians needed more money, so their goal was to get people to visit longer, and eventually move here.

Common name: biting midges, no-see-ums; Scientific name: Culicoides spp. (Insecta: Diptera: Ceratopogonidae)

would be gone forever.

Governor Napoleon Broward (1905-09). campaigned on a promise that, "All that was needed to turn a worthless swamp into rich farmland was to knock a hole in the wall of coral and let a body of water obey natural law and seek the level of the sea." Well, we know how that turned out. Florida's natural beauty laid waste to the bulldozer, and the natural drainage and filtering system,

I often wonder how the early settlers survived. The book, "Charlotte's Story," tells the story of Russ and Charlotte Neidhauk who served as caretakers on the island of Elliott Key, the largest Key in Biscayne Bay, from 1934-35. They describe daily life without running water or power, farming and fishing to feed themselves. They lived in harmony with nature, using only what was available on the island or washed ashore via the "Overseas Lumber Company."

Neidhauk wrote about mosquitos and no-see-ums: "When you get rain, you will soon have mosquitos. To get rid of mosquitos you need to eliminate the water where they live



A hanging fan, placed undercover in an outdoor patio area, keeps you from sweating and swatting.

forms, once used to construct homes in 1960s era Miami. The landlord "Blinky" handed me a spray can of "Screen Pruf," and explained this is what to spray on the window screens to keep the no-see-ums out. It was a thick, black tar-like substance. It definitely worked



Local dog walker Tori happily wears a mesh suit when she is out and about. She was working on a similar mesh outfit for her dog.

the view! These were the days before the no-see-ums screen, a smaller 20 mesh size screen, which keeps no-see-ums out, though it does limit air flow through the screens.

What can we do to live with no-see-ums? Spraying is not practical, as a new crop of no-see-ums are hatching daily. Environmental protections prohibit spraying pesticide over protected hammocks, coastal mangroves and water.

We can wear protective clothing, or apply repellent. Bug repellents containing DEET are labeled for use against no-see-ums and mosquitos. A healthy alternative to chemicals is a homemade no-see-ums spray containing rosemary and alcohol. If you do get bit, wintergreen alcohol stops the itching within a minute and stays gone for hours.

Best defense... It is a good idea to No-See-Ums CONTINUED Photos by Carol Ellis research vacation destinations and potential homesites, so you can avoid

device.

My first apartment in the Keys was a "fish camp" type structure made from wooden keeping out the bugs, but it sure messed up

times or locations with critters

present to "bug" you. Or take a lesson

from your teenager... just stay inside

in the AC tethered to your electronic

Because no-see-ums are so small and are weak fliers, ordinary cage fans can be used at high speeds to keep no-see-ums out of small areas.

This is a recipe from my Honduran friend, Argentina. It works.

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Currently a Master Gardener volunteer, Carol has a dearee in Journalism from the University of Florida and is the resident photographer /artist at Ocean Reef Club.

Make your no-see-um sprayfrom the info below. It's easy. Spray it on when out at dawn or dusk near the water. It is cool and refreshing, plus it keeps the no-see-ums away!

Homemade No See Um **SPRAY**



INGREDIENTS

12 oz. spray bottle 8-10 sprigs rosemary 12 oz wintergreen alcohol



Instructions

- 1. Cut rosemary into lengths that will fit into spray bottle. I made my spray bottle from a 12 oz soda bottle and a sprayer top.
- 2. Fill the bottle with wintergreen alcohol, Close bottle tightly
- 3. Put bottle containing mixture in a dark place for one week. After one week put spray bottle in refrigerator. This spray is an effective repellent from no see ums, with a cool fresh scent. Does not have to be kept refrigerated.

