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Billions of GE Mosquitoes Released, Health Risks Ignored

Analysis by Dr. Joseph Mercola | Fact Checked

May 28, 2022

STORY AT-A-GLANCE

- In March 2022, the UK-based biotech company Oxitec is now year extension of its emergency use permit
- This allows Oxitec to release additional GE mosquitoes in Florida as well as release the GE insects in four counties in California for the first time
- The extension was granted even before Oxitec had publicly released results from its 2021 field trial release in Florida
- Nobody seems to care about whether the release of GE mosquitoes approaches mosquito populations, so, importantly, whether it reduces transmission of diseases carried by the mosquitoes
- The health and environmental effects of this reckless experiment remain completely unknown, and the EPA continues to prioritize corporate interests over public health

Biotechnology company Oxitec spent years trying to gain approval to release its controversial genetically modified mosquitoes in Florida. In March 2021, the EPA, the Florida Keys Mosquito Control District, the Florida Department of Agriculture and Consumer Services gave the go-ahead for the plan, following the U.S. EPA's granting of an experimental use permit that would allow the GE mosquitoes to be released in Florida as well as Texas.

April 2021 marked the culmination of Oxitec's efforts, when nearly 5 million GE Aedes aegypti mosquitoes were released in the Keys over a seven-month period.[1] Despite backlash from residents and environmental groups, in March 2022, the EPA granted Oxitec a two-year extension of its emergency use permit, which allows the company to release its mosquitoes in Florida as well as release the GE insects in four counties in California for the first time.

The EPA's extension to Oxitec's EUP paves the way for up to 2.45 billion GE mosquitoes to be released[2] — an extension that was granted even before Oxitec had publicly released results from its 2021 field trial release in Florida.[3]

What Are GE Mosquitoes?

The Aedes aegypti mosquito species, (A. aegypti), carries yellow fever, dengue fever, chikungunya, Zika, West Nile and Mayaro's, a dengue-like disease. Oxitec's biotechnology is a different mosquito, however, it's still a GE mosquito. Oxitec's GE mosquitoes are designed to mate with and suppress the yellow fever, dengue, chikungunya and Zika, though its advocates whether this is the purpose.

The male A. aegypti mosquitoes have been genetically engineered to carry a "genetic kill switch," such that when they mate with wild female mosquitoes, their offspring inherits the lethal gene and cannot survive or reproduce in the wild. In the U.S., Oxitec is marketing the insects as "Friendly™ mosquitoes and explained:[4]

> "After release of Friendly™ males into the field, which find and mate with wild female mosquitoes and transmit the engineered gene, the offspring inherit the lethal gene and do not survive to adulthood. In turn, these males are able to pass on the self-limiting gene to half of their offspring, of which female carriers of the gene cannot survive.
>
> The self-limiting gene can thereby persist but declines over time, offering potentially multiple-but still self-limiting generations of suppression for every Oxitec Friendly™ Aedes aegypti male released."

The U.S. FDA, which was previously reviewing the GE mosquitoes, initially stated that GE mosquitoes "would not have a significant impact on the environment, but was reportedly interested in how "genetic kill switch" would behave in the wild and whether it could humans or other animals.[5]

In October 2017, the FDA then transferred the power for regulatory approval over to the EPA, after apparently categorizing the GE mosquitoes as pesticides rather than drugs to prevent disease.[6] The transfer was a huge win for Oxitec, as the EPA is reported to review new pesticide products within 12 months of submission, while the FDA has no set time limit.

After the handover to the EPA, Oxitec wasted no time in resubmitting its request to release mosquitoes in Florida, as well as Texas — and was the EPA's approval — but residents have expressed concerns about the lack of transparency and the potential health and environmental risks GE mosquitoes were previously released in the Cayman Islands, Brazil, Panama and Brazil.

EPA Ignores Potential Health and Environmental Effects

The Florida Department of Agriculture and Consumer Services (FDACS) has already approved the EPA's extension of Oxitec's field trial despite unknown risks posed by the GE mosquitoes. This revised backlash from environmental groups and scientists. Jaydee Hanson, policy director at Center for Food Safety, told Sustainable Pulse:[7]

> FDACS should have required Oxitec to cease claiming an "confidential business information" exemption for the data on the environmental impacts and health impacts of the mosquitoes. Clearly, when Oxitec confirmed the data, the Florida government should have refused to make public and environmental safety effects of their genetically engineered insect.
>
> Florida should have done the same. Moreover, FDACS should not have allowed a second major release without making public the data from the first that was being in necessary for unbiased scientists in the field."

Barry Mizer, director of Florida Area Environmental Coalition, echoed these concerns, particularly with regard to the EPA's failure to look out for the public:[8]

> "We should all be very concerned about an EPA that forgets its middle name, protection, with this approval. Our public trust is abused by Oxitec's lack of scientific transparency and the government's complicity in hiding the data. Oxitec's GM mosquitoes have proven to cause deleterious effects, and the EPA's action — it is strongly rumored to release these mosquitoes."

Brazil Trials Show GE Genes Escaped to the Wild

Red flags have already been raised by Oxitec's previous trials, including the release of Oxitec's GE mosquitoes, dubbed OX5034, which occurred in the city of Jacobina in Bahia, Brazil. About 450,000 male mosquitoes were released weekly for 17 months in the region in an attempt to reduce populations of the dengue fever mosquito.[9]

The technology is complex, releasing the strain should only reduce population size and not affect the genetics of the target population,[10] researchers wrote in Scientific Reports.

However, this wasn't the case. The Oxitec University researchers monitored the population of A. aegypti mosquitoes in Jacobina to determine if the release of GE mosquitoes affected the genetics of the wild population by transferring genes. The researchers found:[11]

> When analyzed on, 12 and 27 to 36 months after release, the researchers found "clear evidence that portions of the transgenic strain genome have been incorporated into the target population."
>
> The study explained:[12]
>
> "Evidently, our stable hybrid offspring between the release strain and the Jacobina population are sufficiently robust to be able to reproduce in nature. The release strain was developed using a strain originally from Cuba, then outcrossed to the Jacobina population.
>
> Thus, Jacobina has acquired on now a mix of three populations. It is unclear how this may affect disease transmission or other effects to control these dangerous vectors."

A 14-hybrid population of GE mosquitoes now exists in Jacobina (Cuba/Mexico/Brazil). Due to their genetic diversity, they may be difficult to control, the researchers fretted, "more robust" than it was prior to the GE mosquitoes release due to "hybrid vigor."

Oxitec Release Webinar of Field Trial Data

In April 2021, after the EPA extended Oxitec's EUP, the company presented a webinar going over results from its open-air Florida mosquito trial. To conduct the study, tones of GE mosquito eggs were placed onto private properties, surrounded with traps. The male GE mosquitoes hatched and emerged in the area, in a new feature (U.K. series) image Karly similar to the cargo ship Ever Given.[13]

After the mosquitoes mated and wild females laid eggs in the traps, researchers collected about 22,000 of them and brought them to a lab in Nairobi. Females with the inherited GE gene were identified because they fluoresce under a light in the lab.

Oxitec stated that females that inherited the GE gene died prior to adulthood, meaning that the gene was no longer found in wild mosquitoes after a few generations. "They also noted that no GE mosquitoes were found in human-baited BG traders (n27,27 mosquitoes in total)."[14] Nobody seems to care about whether this release reduced the number of diseases carried by the mosquitoes.

Yet, the pilot study does not reveal whether the release of GE mosquitoes suppresses wild mosquito population or, importantly, whether it reduces transmission of diseases carried by A. aegypti. Thomas Scott, an entomologist at the University of California, Davis, made an interesting point, stating that the U.S. EPA, FDA and CDC "have not yet made it clear what they would do if the public health impact. There's not enough relative transmitted and infected in the Florida Keys."[15]

If rates of Aedes transmitted diseases are so low in Florida, why release the GE insects in the first place? According to the CDC:

- Dengue — "Nearly all dengue cases reported in the 48 contiguous US states were in travelers infected elsewhere."
- Chikungunya — From 2014 to 2020, there have been no cases of locally acquired chikungunya virus in the U.S."
- Eastern equine encephalitis virus (EEEV) — "Only a few cases are reported in the United States each year."
- Zika virus — From 2016 to 2020, no locally acquired cases have been reported."[16]

What's more, according to Scott, even very few populations of A. aegypti can lead to disease outbreaks, so even if Oxitec's GE mosquitoes succeed in reducing local populations, it may not reduce disease transmission. Scott, who has studied Zika in Puerto Rico, noted that Oxitec's data need for GE mosquitoes at 36, dwarfed around "six orders of magnitude" of mosquitoes in the Florida Keys.

"The black sash marsh mosquito (Aedes taeniorhynchus) — more of a nuisance than a disease vector — probably represents about 80% of the mosquito population on the islands," according to Mahon, which means that the release of GE mosquitoes also will not reduce the need for pesticides.[17]

Releasing GE Mosquitoes in the Wild is a Bad Idea

Residents are right to be concerned about the release of GE insects in their backyard, as the outcome of the reckless experiment remains completely unknown, and the EPA has been less than transparent about the health risks. As Center for Food Safety stated:[18]

> "Unfortunately, the EPA did not publicly share its entire public health analysis, and data about allergenicity and toxicity were redacted from public documents. EPA's risk environmental assessments were also insufficient and did not mandate scientific tests using expert trials aimed at environmental release."

Dana Perls, emerging technology program manager at Friends of the Earth, expressed further dismay at the EPA's prioritization of corporate interests over public health:[19]

> "Poorly done, secretive science and lack of transparency in once again being rewarded with a free pass by government officials are ignoring the voices of concerned scientists and the public, and putting our health at risk. The EPA's rushed approval of this experiment has ensured the well-organized lobbying for monopoly of private corporation over public health and ecosystem protection."

Mosquitoes certainly can transmit diseases, so while the release of GE mosquitoes is dangerous and misguided, taking sensible measures to avoid getting bitten is wise. You can do this by:

- Wearing long sleeves and pants if you know you'll be outdoors in mosquito-prone areas
- Using natural insect repellants (not synthetic chemical versions), like cinnamon leaf oil, citronella essential oil or catnip oil, if necessary
- Using a fan to blow your backyard to keep mosquitoes away, since mosquitoes are strong flyers, which mosquitoes tend to stay away from
- Draining standing water, including pet bowls, gutters, garbage and recycling bins, spare tires, bird baths and children's toys, as this is where mosquitoes breed
- Installing a bat house, as mosquitoes are one of their favorite meals

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cmdd21yahoo.com
JOINED ON 11/18/2007 7:28:08 AM
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Call for inspections, but Florida doesn't seem interested in it, especially since Oxitec is funded by the Gates Foundation, although that has ceased in the article. www.oxitec.com/en/news/oxitec-to-develop-third-friendly-mosquito-strain...

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Shannon_Flaherty
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Rev the Fan Fast Drive is a subsidiary of Intercept Corporation, which claims to "Powering the Electrolytic Revolution with Better Water" and is considering Oxitec's mosquitoes because the quality of life and the health of the poor. "Dengue Alert" Rev. Ag. Oxitec's stock ticker, Oxitec's marketing website behind it, due to funding by the B & M Gates Foundation (BRTHRN) with the Gates, seem behind it. Oxitec's ticker is so obscure it is worth a little bet on the over-odd. I would vote Rev to support Oxitec in the opinion.

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jackson
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Absolutely. I wonder if the mosquitoes will somehow transfer to other mosquitoes or insects instead or other fingerprinted genetic material. Wouldn't that be a hoot? Or, if the mosquitoes will be able to transfer genetic material to other species of mosquitoes, wouldn't that be a hoot? Oxitec is willing to take the risk mosquitoes to release, it could potentially ruin FDA's case for certain approvals, planned "Deadzone" to allow a person to be positive for the illness. Thus, a coalescence of Gates positives making FDA tests, boilerplates and deprivers "necessary".

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anthony-aaron47
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See this article listed and for various claims are mentioned 7 ways from Sunday in this
www.sott.net/article/445-Genetically-modified-mosquitoes-and-malaria-Wrong-apologies!

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Ed
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Wrong, Anthony, thank you!

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ICONOCLAST
JOINED ON 05/28/2011 2:21:11 AM
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Dear Mr. Mercola, I'm a long time fan of your concerns, my father commented that "I have a master of toxicity." Now he only has a bit of pesticide damage, but neither he nor his wife is a language. Incidentally, I do not comprehend the concern of the pesticides that it had something to do with abbreviation. Ha ha. I hope that mastery of my comment might appreciate my dead way of expressing my disdain for a "philanthropic" and hope of the EPA. Let the EPA be an "R Corpse." May he rest in peace.

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Nicolas
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JUZ WHAT WILL HAI BEEN DOIN?

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nelgra
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The mosquito was the original blueprint design for the cartoon technology of Gaston Antony ou a very light sleep before pretty needle that delivers deep dreams. What is the world coming to, that it would be a dire and prospect a known global mound that has been through the ice ration of Ferris the power point? Because we are all, that we have been through the ice ration of Ferris the power point. Gaston Antony ou a very light sleep before pretty needle that delivers deep dreams. Gaston Antony ou a very light sleep before pretty needle that delivers deep dreams. Gaston Antony ou a very light sleep before pretty needle that delivers deep dreams. Gaston Antony ou a very light sleep before pretty needle that delivers deep dreams. "Bette Davis through modern chemistry!" Ah! Ohhh. "It ain't

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gulzaina
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Playing God is a bad idea.

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thereadyones
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Amen!

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ammonite
JOINED ON 10/28/2011 1:07:20 PM
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"Dear" Lord Vaby Mamonitoe... playing god at the expense of everyone on this planet and our agencies that are supposed to protect us are all there and are out there. Jackass Gates is every case in profits, profits, profits.

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JRuvin
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My thoughts exactly.

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Sunshine
JOINED ON 11/20/2010 8:38:24 AM
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Who knows what is in the vaccines. Why not? Bill Gates is a genius. Even if he is a pedophile, he is a genius. Bill Gates is a genius. Bill Gates is a genius. Bill Gates

dividingcricker
Joined On 2/25/2012 10:40:20 AM
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The most dangerous thing in the world .... BILL GATES next are Mosquitos

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dfarrich
Joined On 3/28/2016 1:46:04 AM
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My avatar is an artist's conception of a black hole and accretion disk for a reason. We're at the edge of that disc where our lives are being greatly distorted and our very existence is slowly being sucked into oblivion. Ironically, the self-appointed, NWO elites don't realize that "where we go, so go they." Poetic justice. However, they won't bask in their dystopian goal for very long.

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forbiddenhealing
Joined On 2/21/2011 9:31:43 AM
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There goes "The Science" again...er shakedown.

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Catryna
Joined On 7/25/2006 5:48:46 PM
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Wow, what could possibly go wrong?

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sio6474
Joined On 10/19/2018 11:41:31 AM
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I recently saw images of refugees in India who live in the N.E. mountains. They have no access to sanitation, clean water or health care. I have never seen such disturbing images in my life. There is an unimaginable level of suffering for these people, due to poor nutrition, insanitary conditions, and vector borne diseases and parasites. It is beyond shocking. They get bitten alive by vector mosquitoes and suffer for life in extreme ways. Many orphans there. Most have PTSD, and they live in despair. Without health, there is no way out. It seems those are the places that should be helped in the best ways possible, perhaps the genetically altered mosquitoes if there isn't a huge downside, and access to natural protective measures, clean water, roads, safe mosquito repellants, and sewage systems. Shame on the Indian government for not doing more, and allowing this travesty to occur in their country.

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Joe_Below
Joined On 5/17/2020 11:04:08 PM
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It's about human population reduction. Mosquitos? They don't care about mosquitos.

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MMaster
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Lavender oil works, too.

Reply · Mark as Spam · Posted On 5/28/2022 4:40:15 PM
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Shasha
Joined On 5/10/2007 4:23:27 PM
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Mosquitoes only live 3 days...mate and die. Mosquitoes are food for birds/bats etc. Bill Gates wanted this release to happen. Florida/Texas are Republican states. https://youtu.be/CqKcGfXDGYw Bad science/EPA since they didn't even give results for the extension. Stop the experiments since they are not ethical. No one wanted this experiment and they could not make sure bad things didn't happen.

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skinghorn993
Joined On 6/14/2021 11:33:33 AM
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Once again the objection of many people is over ruled in favor of a corporation. If anything goes wrong with this experiment I'm sure it'll just be a coincident.

Reply · Mark as Spam · Posted On 5/28/2022 10:27:55 AM
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mdbrown7111
Joined On 3/10/013 1:31:33 PM
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This is the world we live in where evil corporations can tamper with our very lives for money and our government is complicit. This effects everyone and should not be allowed.

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Vec7512
Joined On 6/22/2020 5:23:49 AM
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Bill Gates has publicly promoted these GE mosquitoes, so he has probably invested in them and lobbies the government agencies to get them approved.

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ChefBambu
Joined On 8/30/2021 9:55:21 AM
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I have genetically modified skeeters around my house now for years. Each day I go out the female skeeters suck some blood out of me so they can provide food for their babies. Now my DNA is in all the skeeters so we're like kotifuks wanting to lay round home and do nothing. Would have been wiser to mass produce dragon flies to eat skeeters. No doubt Bill Gates and the elites who want to decrease the worlds population are onto figuring out a way to GE humans to do the same. Good luck world....

Reply · Mark as Spam · Posted On 5/28/2022 5:45:58 AM
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Almond
Joined On 2/26/2008 4:23:33 PM
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As the movie, Jurassic park, proclaimed, "Nature will find a way to overcome". This, it is foolhardy to try to control nature rather than working with nature. In this case, I have no answers. As someone who has suffered from mosquito-borne Dengue Fever, with an entire week of severe vomiting, I would very much like to see a solution. (Fortunately, I had the temporary kind that I was able to permanently recover from.) However, I do understand that frequent praying with DDT or releasing genetically altered mosquitos is not the answer. While helpful, those meager measures offered in this article are hardly a solution when it only takes one mosquito bite to become infected. Although lovely, I now prefer to avoid that part of the world in favor of a colder climate.

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Mercola_Fan
Joined On 1/11/2009 12:28:23 AM
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Why did Gov DeSantis approve the Bill Gates' GE mosquito experiment? Trust no one! Especially politicians. They're all bought & paid.

Reply · Mark as Spam · Posted On 5/28/2022 10:00:11 AM
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pattope
Joined On 7/1/2020 10:15:27 AM
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It should NEVER have happened. Keep in mind that BG owns A LOT of farm land in Florida, and with much of it having clean lakes/rivers. Why this was ALLOWED to occur is another question.

Mark as Spam · Posted On 5/28/2022 12:14:28 PM
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lmoberoi
Joined On 3/7/2008 10:08:01 PM
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Mosquitoes in general are a nuisance and any scientic effort in their elimination is a welcome step. But, in Cuba's case they are not solving any problem. Mosquitoes don't pollinate flowers and they only serve as food for lizards. I guess lizards can survive on other insects. We don't need mosquitoes any more and positive research needs to be done.

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Shannon_Flaherty
Joined On 2/19/2021 6:52:36 AM
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Mosquitoes DO pollinate and assist in the spreading of plants for plant diversity. The larvae also live on and consume the algae and microbes from decaying plants in water and while doing so serve as food for fish and birds. Adult mosquitoes further provide food for larger insects, birds, bats, amphibians, reptiles, etc. Are they annoying? Yes. Should we kill things off because we do not like them? No. I was born in and lived in South Florida for 40 years and I have luckily never suffered any diseases from mosquitoes, but apparently, only about 100 of the 3,500 species of mosquitoes carry diseases.

(I need to find where I learned that) However, even IF these biotech companies can successfully come up with a way to eradicate the species that carry the viruses, I am not confident they can do it without endangering the ecosystem and humans. They use genetic engineering and chemicals as their answers to anything natural. It is almost like these people running these companies view nature as anathema to their belief systems and want to replace all things natural with manmade, moneymaking materials.

Mark as Spam · Posted On 5/28/2022 9:24:50 AM
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poplegendpop
Joined On 2/13/2012 3:18:26 PM
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Shame on Florida. Just when I thought I wanted to move there. I've always wanted to visit the keys, but no more.

Reply · Mark as Spam · Posted On 5/28/2022 9:11:04 AM
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Mercola_Fan
Joined On 1/11/2009 12:28:23 AM
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DeSantis is not the person we thought he was.

Mark as Spam · Posted On 5/28/2022 10:02:20 AM
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Shasha
Joined On 5/10/2007 4:23:27 PM
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I don't know if Ron said yes to this experiment. Many people in government don't know science so have no clue if it is a good thing or not. The people said no and they did it anyway.

Mark as Spam · Posted On 5/28/2022 4:41:44 PM
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