



**Volume 11, Issue 1**  
**March 2023**

**A-ALL PEST TERMITE EXTERMINATORS, INC.**  
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# The Party Animal News

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## How to prevent West Nile Virus

It has been over twelve years since the high number of West Nile Virus (WNV) deaths in Dallas. I have pointed out in past letters how A-All was doing mosquito control in Dallas before this episode in Dallas' history. WNV was first reported in 1999 in New York. Dr. Deborah Asnis was an infectious-disease specialist who went out of her way to report strange symptom of two Queens, NY hospital patients. By the end of September, the Centers for Disease Control experts had diagnosed WNV. Unfortunately, from what I have read, it was never contained in New York because so many people complained about the pesticide spraying, and so the disease continued to spread throughout the US. Now, I'm not saying it would have ever been contained, but limiting control certainly made any attempt unsuccessful. It became a big enough problem here, that the county government actually brought back airplane pesticide spraying, something that had not been done since the 1960's.

WNV is just one of many diseases transmitted by mosquitoes. Ann pointed out an article to me about Dr. Philip Low, Purdue University's Presidential Scholar for Drug Discovery and Ralph C. Corley Distinguished Professor of Chemistry, and his research on a cancer drug that looks to be 100% effective against malaria. One of Ann's degrees is in Chemistry, so she gets info that the Entomology Department might not send to alumni of my degree.

In 2020 there were 241 million cases worldwide of malaria and 627,000 people died from the disease. Eighty percent of these were children. So a cure would be amazing for malaria. Most of the past treatments were to kill the parasite that causes the disease when transferred from the mosquito to the human, but the parasite would continue to develop resistance to drugs used. The cancer drug developed by Dr. Low and his colleagues blocks a critical red blood enzyme that is needed by the parasite. Since the parasite cannot mutate proteins in our blood cells to combat this process, the parasite actually dies. In testing to date this treatment has been 100% effective. Incredible.

### Pest of the Quarter: Termites



- ◆Winged termites swarm in spring
- ◆Workers produce dirt on sheetrock walls, wood siding and baseboards
- ◆Treatment requires gallons of pesticide and special equipment to inject it into soil around and under the home
- ◆Liquid termiticide treatments protect the home for over 10 years if properly applied
- ◆A-All has been doing termite treatments since the 1960s

The traditional techniques to lower malaria cases have been physical barriers to keep the mosquito from the human or pesticide products to kill the mosquitoes. If you are familiar with the "Nothing but Net" programs for mosquitoes that have been promoted by service groups, some of the bedding nets have a pesticide embedded in the nets to kill the mosquitoes and the net itself prevents mosquitoes from biting the sleeping person in the bed. To lower the number of mosquitoes in the environment in 2016, studies were conducted on the Ivory Coast to determine the effectiveness of In2Care Eave Tubes. The researcher for the In2Care used a fungus in the In2Care product coated on window screening.

While Eave Tubes are available, the In2Care product that A-All has been offering since 2020 is a bucket of water with a mesh screen floating on a support in the water. The mosquitoes lands on the mesh to lay eggs into the water thereby contacting the fungus on the mesh. The fungus spores can effectively kill mosquitoes. Another good point of the fungus infection is that it counteracts resistance to pesticides. Think of all pesticide spraying that is going on and this product will make mosquitoes susceptible to regular pesticides again. Finally, if the mosquito has the fungus in its

system, it cannot transmit mosquito borne diseases. The In2Care system also contains a larvacide in the product, so any eggs laid do not reach maturity, and this product the mosquito passes along to other breeding sites where it lays eggs before dying, thereby contaminating those spots with the larvacide and essentially causing a domino effect of control.

The West Nile Scare has produced many mosquito control companies. A-All has decided In2Care is the most environmentally sound program. Some of the latest info states that if we want to get the best control for mosquitoes we need to implement the program now (Feb-March) so it is in place when breeding begins. So, if you are interested in the IN2CARE program contact our office now and we can get you a price and begin to lower your mosquitoes for the summer. - David

*More info available at [in2care.org](http://in2care.org)*

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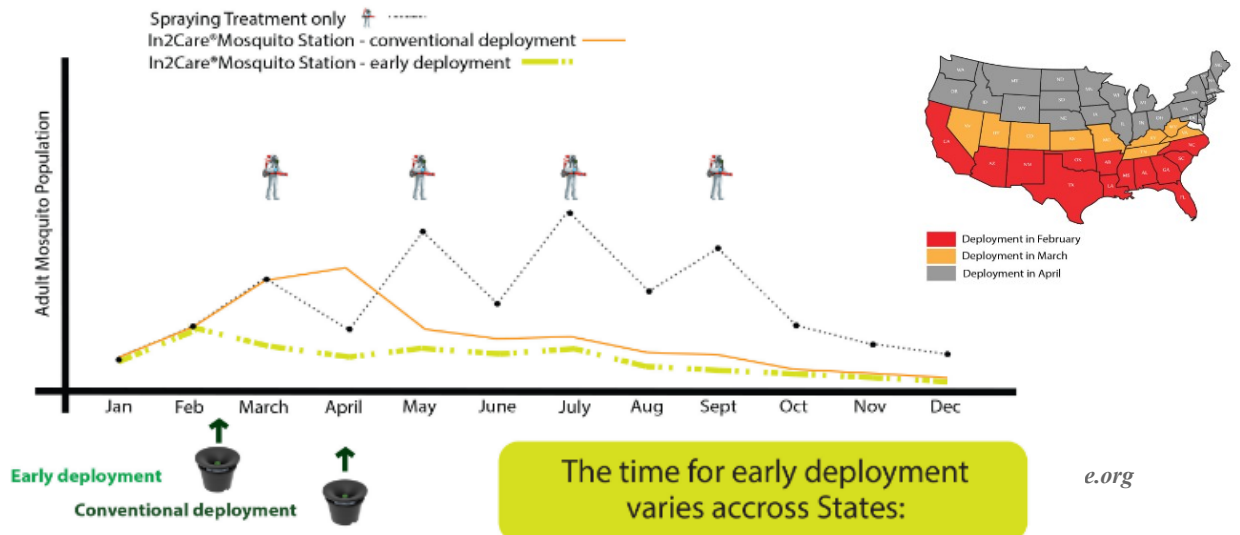
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**In2Care Early Deployment**

*This graph is a broad recommendation for implementing the IN2CARE program in the USA. We have been trying multiple techniques in our field treatments. The weather pattern in Houston, San Antonio and even Austin is different then in DFW. When pest companies are getting termite swarms in these cities nothing is happening here. As for mosquitoes, the data says to start in February in DFW, but I feel that the next two months to start the IN2CARE program would fit our local weather pattern.*



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Information from Vesperis email 2-13-23