



2018 Mosquito Update:

Helpful information to reduce your property's risk



Mosquito Science

- In 2017, over 2,000 human cases of West Nile Virus were reported; more than 65% were considered neuroinvasive, meaning they included meningitis, encephalitis, or acute paralysis.
- Although news of Zika virus has subsided, scientists believe that it is still a threat. People returning to the U.S. or visiting the U.S. from areas where Zika is active can spread the virus through mosquito bites and sex.
- In 2017, there were several locally acquired Zika virus cases in Florida.
- Mosquitoes can spread pathogens to animals, such as dogs and horses.
- Even in drought conditions, mosquitoes can be present and spread disease.
- Mosquitoes only need a tablespoon of water to breed.



Mosquito Species of Concern

There are more than 170 mosquito species in North America. These are three species commonly associated with disease spread.



Culex pipiens
(House mosquito)
Entire U.S.



Aedes aegypti
(Yellow Fever mosquito)
Southern half of U.S.



Aedes albopictus
(Asian tiger mosquito)
Eastern U.S.,
So. California, Southwest U.S.



Diseases and Disease-Causing Pathogens Spread by Mosquitoes

- West Nile virus
- Zika virus
- Chikungunya virus
- Eastern equine encephalomyelitis
- Heartworm (dogs)
- Dengue fever (endemic in Puerto Rico, Latin America, and other areas frequented by North American travelers)
- Malaria (not endemic to North America, but can be travel-acquired)



Protect Employees, Customers & Guests

- ✓ Wear an EPA-approved insect repellent when outdoors.
- ✓ Wear long-sleeved shirts and long pants when possible to prevent mosquito bites.
- ✓ Ensure all windows and doors have screens.
- ✓ Eliminate standing water on your property.
- ✓ Where possible, remove objects that can collect water.
- ✓ Animals can be sensitive to mosquito-borne disease. Alert guests bringing animals to mosquito activity.
- ✓ If you are in a high-risk area for Zika virus, educate employees and consider preparing information to advise visitors.
- ✓ Leverage your pest control professional to conduct landscape treatments to deter mosquitoes.

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Industries Susceptible to Mosquito Activity & Risk

By nature of their business and clientele, some businesses may need to have a heightened awareness around mosquito activity and risk. This chart may help you identify if you need to take additional actions for your organization.

Industry	Areas of increased concern	Who is at heightened risk
 <p>Healthcare providers</p>	<ul style="list-style-type: none"> • Areas near automatic doors • Near and around water features • Outdoor dining or smoking areas • Landscaped shrubs and plants • Fountains, water features, and lakes 	<ul style="list-style-type: none"> • Patients • Pregnant women • High-risk ages (elderly, young) • Grounds crew
 <p>Education</p>	<ul style="list-style-type: none"> • Playgrounds and athletic fields • Areas around dormitories • Outdoor common and dining areas • Landscaped shrubs and plants • Fountains and water features 	<ul style="list-style-type: none"> • Students • Pregnant women • Outdoor athletic staff • Grounds crew
 <p>Hotels & resorts</p>	<ul style="list-style-type: none"> • Areas near automatic doors • Near and around water features • Fountains, lakes, and water features • Outdoor dining areas • Guest patios and balconies • Wooded areas • Landscaped shrubs and plants 	<ul style="list-style-type: none"> • Guests • Pregnant women • High-risk ages (elderly, young) • Outdoor employees (valet, grounds crew, etc.)
 <p>Golf courses, parks & recreational areas</p>	<ul style="list-style-type: none"> • Courses, especially near water features or wooded areas • Fountains, lakes, and water features • Clubhouse outdoor social and dining areas • Playgrounds • Wooded areas 	<ul style="list-style-type: none"> • Players • Course attendants • Grounds crew • High-risk ages (elderly, young) • Pregnant women
 <p>Apartments & multifamily homes</p>	<ul style="list-style-type: none"> • Playgrounds • Pool areas • Wooded areas • Landscaping near lower-level homes • Fountains, lakes, and water features 	<ul style="list-style-type: none"> • High-risk ages (elderly, young) • Pregnant women • Maintenance/grounds crew
 <p>Offices & commercial property</p>	<ul style="list-style-type: none"> • Areas near water features • Areas near automatic doors • Landscaped shrubs and plants • Fountains and water features 	<ul style="list-style-type: none"> • Pregnant women • High-risk ages (elderly, young) • Employees who work outdoors, such as grounds crew

Vector-borne illnesses triple in U.S., says CDC

The U.S. Centers for Disease Control and Prevention (CDC) issued a report in May of 2018 listing staggering statistics for illnesses spread by mosquitoes, ticks, and fleas. **From 2004 - 2016, vector-borne diseases nearly tripled, with 640,000 cases reported in the 12-year period.** The CDC also reported that nine new pathogens spread by mosquitoes and ticks were discovered in that timeframe. For more details, visit the CDC's website: <https://www.cdc.gov/vitalsigns/vector-borne/index.html>

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