



Mosquito Update:

Helpful information to reduce your property's risk



Mosquito Science

- Excessive moisture across parts of the U.S. over the 2018/2019 winter, combined with mild temperatures, may amplify mosquito activity in 2019.
- In 2020, over 557 human cases of West Nile Virus were reported; more than 76% were considered neuroinvasive, meaning they included meningitis, encephalitis, or acute paralysis.
- Mosquitoes can spread pathogens to animals, such as dogs and horses.
- Even in drought conditions, mosquitoes can be present and spread disease.
- Many mosquito species' larvae only need a teaspoon of water in which to develop.



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
- Eastern equine encephalomyelitis
- LaCrosse virus
- Heartworm (dogs)
- Zika virus
- Chikungunya virus
- 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 | <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 | <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 • 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 • 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 | <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 | <ul style="list-style-type: none"> • Pregnant women • High-risk ages (elderly, young) • Employees who work outdoors, such as grounds crew |

Do you know?

Rentokil's sister company, Vector Disease Control International (VDCI) provides municipalities, mosquito abatement districts, county, and state entities with the tools they need to run effective mosquito control programs. VDCI's professionals have comprehensive Integrated Mosquito Management experience, offer supplemental services to existing mosquito surveillance and control efforts, and can assist in the wake of flood events. Learn more at: <http://www.vdci.net/>



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