

E.17 Landscaping Native, Non-Native, and Invasive Species

Description

Vegetation Management on Properties

What is a Native Plant?

Native plants (also called indigenous plants) are plants that have evolved over thousands of years in a particular region. They have adapted to the geography, hydrology, and climate of that region. Native plants occur in communities, that is, they have evolved with other plants in association with animals, parasites, and disease-causing organisms. As a result, a community of native plants provide habitat for a variety of native wildlife species such as birds and butterflies.

What is a Non-Native Plant?

While native species occur in their natural regions without the direct or indirect activities of humans, “non-native” species occur outside that natural range. In North America, many non-native plants were brought over for agricultural, medicinal, and ornamental purposes. Many plants were introduced accidentally as well. The introduction of the non-native organisms continues to be a problem today due to our increased travel and international trade. Not all non-native plants or animals become a problem. However, some of these plants have certain aggressive traits that make them an invasive species.

What is an Invasive Species?

Invasive species are those non-native species that can significantly disrupt natural communities causing environmental or economic harm. In a new environment, invasive plants are released from the natural constraints of their native ranges. They lack the control of herbivores, parasites, diseases, and competition that was present in their native habitats. Invasive plants exhibit both rapid growth and reproduction rates because of abundant seed production, reproduction through vegetative clones, and/ or extended growing seasons.

Why are Invasive, Non-Native Plants a Concern?

Invasive, non-native plants displace native plants and animals, and so disrupt ecological processes, and degrade biological resources. Invasive plants often lack the natural population controls that keep them in check in their native ecosystems. Controls existing in the new ecosystem (herbivores, parasites, diseases, and native plants) is not adapted to make use of the non-native invaders. This disparity of population controls, in addition to their rapid growth and reproduction, creates a situation in which the invasive plants are better competitors. They reduce the amount of sunlight, water, nutrients, and space available to native plants, eventually competing with and replacing natives. This represents a loss in habitat and food source for wildlife. Invasive plants have even shown to alter hydrological patterns and soil chemistry. In the big picture, invasive plants reduce biodiversity.

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NPDES Stormwater Permit Compliance

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