



Invasive Species in Critical Dune Areas

Michigan's Critical Dune Areas (CDA) are a unique resource of global importance. They support numerous natural communities and are home to many native plants and animals. Native plants support the health of the dunes by providing habitat and controlling erosion. An invasive species is a species that is not native to an area and that can cause harm or is likely to cause harm to Michigan's economy, environment, or human health.

Invasive species are a major threat to the diversity, quality, and functions of CDAs. Invasive species disrupt the diversity of dunes by displacing native plants or even killing native plants as is the case with invasive tree pests, creating instability with shallow root systems, or threaten human health.

All applications submitted for a use in the CDA under Part 353, Sand Dunes Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451 as amended, require a [vegetation assurance](#). As part of the vegetation assurance, applicants may be asked to include control and monitoring of invasive species present on their site. This could range from actively working with your local [Cooperative Invasive Species Management Area \(CISMA\)](#) staff to include their recommendations, writing published control methods by the [Michigan Invasive Species Program](#) into a vegetation assurance, or hand removal of widespread, established species where possible. Applicants are encouraged to reference our sample vegetation assurance and [FAQ on Vegetation Assurance](#) when developing the vegetation assurance for their project.

The following list of species are known to occur in the CDA. This list was created using [Midwest Invasive Species Information Network](#) resources and with assistance from Department of Natural Resources Invasive Species program staff. If these species occur on your project site, it is recommended that you include them in your vegetation assurance. You may be requested to add control and monitoring of the species to your vegetation assurance by EGLE staff during the application review process. This is not a complete list of all invasive species in the CDA and there may be other or new species where active management is needed.

Common Name	Scientific Name	Category
Oak Wilt	<i>Bretziella fagacearum</i>	Tree Pest
Hemlock Woolly Adelgid	<i>Adelges tsugae</i>	Tree Pest
Beech Leaf Disease	<i>Litylenchus crenatae mccannii</i>	Tree Pest
Japanese Knotweed	<i>Fallopia japonica</i>	Herb
Kudzu	<i>Pueraria montana var. lobata</i>	Vine
Baby's Breath	<i>Gypsophila paniculata</i>	Herb
Mile-a-Minute Weed	<i>Persicaria perfoliata</i>	Vine
Lyme Grass	<i>Leymus arenarius</i>	Grass
Wild Parsnip	<i>Pastinaca sativa</i>	Herb
Calligraphy Sedge	<i>Carex kobomugi</i>	Grass
Poison Hemlock	<i>Conium maculatum</i>	Herb
Chaff Flower	<i>Achyranthes japonica</i>	Herb
Purple Jewelweed	<i>Impatiens glandulifera</i>	Herb
Cinnamon Vine	<i>Dioscorea polystachya</i>	Vine

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Common Name	Scientific Name	Category
Tree of Heaven	<i>Ailanthus altissima</i>	Tree
Black Jetbead	<i>Rhodotypos scandens</i>	Shrub
Giant Knotweed	<i>Reynoutria sachalinensis</i>	Herb
Giant Hogweed	<i>Heracleum mantegazzianum</i>	Herb
Multiflora Rose	<i>Rosa multiflora</i>	Shrub
Butterbur	<i>Petasites hybridus</i>	Herb
Black Swallow-wort	<i>Cynanchum louiseae (Vincetoxicum nigrum)</i>	Vine
Pale Swallow-wort	<i>Cynanchum rossicum (Vincetoxicum rossicum)</i>	Vine
Invasive Bittersweet	<i>Celastrus obovatus</i>	Vine
Canada Thistle	<i>Cirsium arvense</i>	Herb
Invasive Honeysuckles	<i>Lonicera morrowii; Lonicera tatarica; Lonicera x bella; Lonicera maackii</i>	Shrub
Lombardy Poplar	<i>Populus nigra</i>	Tree
White Poplar	<i>Populus alba</i>	Tree
Spotted Knapweed	<i>Centaurea stoebe</i>	Herb
Beech Bark Disease	<i>Cryptococcus fagisuga + Neonectria spp.</i>	Tree Pest
Garlic Mustard	<i>Alliaria petiolata</i>	Herb
Autumn Olive	<i>Elaeagnus umbellata</i>	Shrub
Japanese Barberry	<i>Berberis thunbergii</i>	Shrub
Black Locust Tree	<i>Robinia pseudoacacia</i>	Tree
English Ivy	<i>Hedera helix</i>	Vine
Periwinkle or Vinca	<i>Vinca minor</i>	Herb
Burning Bush	<i>Euonymus alatus</i>	Shrub
Leafy Spurge	<i>Euphorbia virgata</i>	Herb
Common Buckthorn	<i>Rhamnus cathartica</i>	Shrub
Glossy Buckthorn	<i>Rhamnus frangula or Frangula alnus</i>	Shrub
Norway Maple	<i>Acer platanoides</i>	Tree
Common St. Johnswort	<i>Hypericum perforatum</i>	Herb
White Sweet Clover	<i>Melilotus alba</i>	Herb
Hawkweeds	<i>Hieraceum spp.</i>	Herb
Seaside Rose	<i>Rosa Rugosa</i>	Shrub

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