



Common Buckthorn
Rhamnus cathartica



Dog-Strangling Vine
Cynanchum rossicum and
Cynanchum louiseae



Garlic Mustard
Alliaria petiolata



Giant Hogweed
Heracleum mantegazzianum



Himalayan Balsam
Impatiens glandulifera



Wild Parsnip

Pastinaca sativa

Wild parsnip is an invasive plant native to Europe and Asia. It was likely brought to North America by European settlers, who grew it for its edible root. Since its introduction, wild parsnip has escaped from cultivated gardens and spread across the continent.



Wild parsnip roots are edible, but the sap of the plant can cause severe burns. Collecting the plant from the wild should only be done with extreme care. See the section *Protective Clothing* below.

Wild parsnip, which is also known as poison parsnip, is a member of the carrot/parsley family. It typically grows a low, spindly rosette of leaves in the first year while the root develops. In the second year it flowers on a tall stalk and then dies. The plant can form dense stands and spreads quickly in disturbed areas such as abandoned yards, waste dumps, meadows, open fields, roadsides and railway embankments. Its seeds are easily dispersed by wind and water, and on mowing or other equipment.

Like giant hogweed and other members of the carrot family, it produces sap containing chemicals that can cause human skin to react to sunlight, resulting in intense burns, rashes or blisters.

Range

In North America, scattered wild parsnip populations are found from British Columbia to California, and from Ontario to Florida. It has been reported in all provinces and territories of Canada except Nunavut. The plant is currently found throughout eastern and southern Ontario, and researchers believe it is spreading from east to west across the province.


Impacts of Wild Parsnip





- The plant can form dense stands that outcompete native plants, reducing biodiversity.
- Stem, leaves, and flowers contain chemicals that can increase skin sensitivity to sunlight and cause severe dermatitis.
- Wild parsnip reduces the quality and saleability of agricultural forage crops such as hay, oats, and alfalfa.
- Chemical compounds in the plant are known to reduce weight gain and fertility in livestock that eat it.

How to Identify Wild Parsnip

- Grows up to 1.5 metres tall.
- The single green stem is two to five centimetres thick and smooth with few hairs.
- Compound leaves are arranged in pairs, with sharply toothed leaflets that are shaped like a mitten.
- Yellowish green flowers form umbrella-shaped clusters 10 to 20 centimetres across.
- Seeds are flat and round.

Check the chart below to know how to identify wild parsnip.

 <p>Giant Hogweed (<i>Heracleum mantegazzianum</i>)</p>	Height:	Height: 2.5 to 5 m
	Flowers:	Large, white umbrella-shaped flower clusters 30 to 90 cm across, made up of 50 to 150 small flower clusters
	Leaves:	<ul style="list-style-type: none"> • Prominently spiked edges Up to 1.5 m long • Leaflets grow right out of each side of main stem, with no leaf stalk
	Stem:	Hollow, 5 to 15 cm thick Prominent purple blotches Distinct, coarse, bristly hairs
	Origin:	Biennial (lives for two years) or perennial (lives longer than

		two years)
	Origin:	Invasive
<p>Cow Parsnip (<i>Heracleum maximum</i>)</p> 	Height:	1 to 2.5 m
	Flowers:	White umbrella- shaped flower cluster 10 to 30 cm across, made up of 15 to 30 small clusters
	Leaves:	Leaves have lobes shaped like a hand with fingers, with fuzzy undersides Up to 0.5 m long and wide Leaf blade separated from main stem by leaf stalk
	Stem:	Hollow, 5 cm thick at base Green, few to no purple spots Soft and fuzzy hairs
	Origin:	Perennial
	Origin:	Native
<p>Wild Parsnip (<i>Pastinaca sativa</i>)</p> 	Height:	0.5 to 1.5 m
	Flowers:	Yellowish-green flower clusters 10 to 20 cm across
	Leaves:	Leaves consist of 2 to 5 pairs of leaflets that grow across from each other along the stem, and one diamond-shaped leaflet on the end Leaflets toothed and often shaped like a mitten
	Stem:	Green, 2.5 to 5 cm thick Smooth with few hairs
	Origin:	Biennial/Perennial
	Origin:	Invasive
<p>Queen Anne's Lace (<i>Daucus carota</i>)</p> 	Height:	0.3 to 1.5 m
	Flowers:	White flower cluster 5 to 10 cm across. Pale pink before fully opened. Often single purple flower in centre of flower cluster
	Leaves:	Leaves are staggered along the stem (alternate) Leaves consist of leaflets that are finely divided into narrow segments. Each segment of the lower leaves is further divided into fine lobes, resulting in a feathery appearance
	Stem:	Green, 1 to 2.5 cm thick Covered with fine bristly hairs
	Origin:	Biennial
	Origin:	Invasive
<p>Angelica (<i>Angelica spp.</i>)</p> 	Height:	1.2 to 2.1 m
	Flowers:	Greenish-white globe-like flower clusters 8 to 25 cm across
	Leaves:	Alternate leaves, divided into 2 to 3 leaflets
	Stem:	Purple or purple blotched Smooth (no hairs)
	Origin:	Perennial
	Origin:	Native

Wild Parsnip Removal and Management

If you have small clusters of wild parsnip on your property (fewer than 100 plants), you may be able to manage the plant yourself. Wear protective clothing and dispose of plants carefully, as described below. To remove larger infestations (thousands of plants), you will likely need a professional exterminator and repeated treatments over several years.

Note: To manage wild parsnip effectively, learn how to identify the plant in both its first-year stage as a small rosette of leaves, and in its second year, as a tall flowering plant. The area must be monitored for several seasons to ensure complete eradication.

Protective Clothing

Wear protective clothing, including waterproof gloves, long-sleeved shirts, pants and eye protection. A disposable spray suit over your normal clothing provides the best protection. Spray suits are commercial-grade waterproof coveralls. After working around the plant, remove your protective clothing carefully to avoid transferring any sap from your clothing onto your skin. Wash your rubber gloves with soap and water, then take off your spray suit or outer clothing. Wash your rubber gloves again and then take them off. Finally, take off your protective eye wear. Put non-disposable clothing in the laundry and wash yourself immediately with soap and water.

Mechanical Control

For a small infestation in a yard or garden (fewer than 100 plants), dig out as much of the taproot as you can with a sharp shovel or spade. Digging is most effective in the spring when the soil is moist and the taproot is more easily removed. Follow-up digging will be required every few weeks to deal with re-growth (if the taproot was not completely removed) or missed plants.

Pulling up the plants is impractical for larger infestations, but mowing can be effective if begun just after peak blooming, but before the seeds set in the late summer or early fall. Cut plants will likely re-sprout after mowing, so it is important to combine mowing with other control methods.

Another method of control is to cover the dug or mowed areas with black plastic to smother new growth of all plants. The plastic should be left in place for at least one season to ensure the roots are smothered. The area must be replanted after the plastic is removed to replace desirable plants and rehabilitate the soil.

Chemical Control

In Ontario, herbicide use, storage and disposal is regulated under the [Pesticides Act](#). While many uses of herbicides are banned, certain herbicides may be used to control plants that are poisonous to humans who touch them, such as wild parsnip. Herbicides that may be used for this purpose include those containing the active ingredient glyphosate. If you are considering using a pesticide, read the product label before buying it to ensure it can legally be used on wild parsnip.

Herbicides containing glyphosate can be an effective tool to control larger populations of wild parsnip. Glyphosate is a broad spectrum herbicide that kills green plants that it comes into contact with. New seedlings will often germinate and emerge after glyphosate has been applied, meaning that follow up applications may be required.

For the best results, apply herbicide to the leaves of actively growing plants in the spring, followed by a summer application for missed plants that are still growing. Herbicide treatments may need to be repeated in following years. Follow directions on the product label and provincial and [federal laws](#) when using herbicides.

Disposal

DO NOT burn or compost wild parsnip plants that have been cut down or dug up. If possible, leave the stems to dry out completely at the site. Carefully dispose of plant material in black plastic bags and leave in direct sun for a week or more. Contact your municipality to determine if the bagged plants can be sent to your local landfill site.

What You Can Do

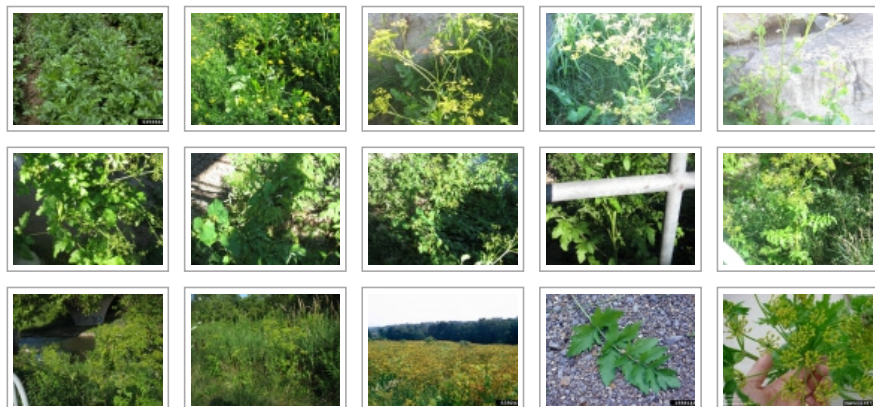
- Learn how to identify wild parsnip and other invasive plants.
- Stay on trails and away from areas known to have wild parsnip or other invasive species.
- Inspect, clean and remove mud, seeds and plant parts from clothing, pets (including horses), vehicles (including bicycles) and equipment such as mowers and tools. Before travelling to new areas, clean vehicles and equipment in a place where plant seeds or parts aren't likely to spread, such as in a driveway or at a car wash. It's very important to carefully wash any sap from clothing, equipment and pets.
- Avoid disturbing soil and removing plants from natural areas; they may be rare native plants or even invasive plants.
- If you think you have wild parsnip on your property or if you see it in your community, please call the Invading Species Hotline at 1-800-563-7711, or [report your sighting online](#). You will be asked to send in photos for identification. **DO NOT** touch, cut or collect parts of the plant for identification purposes.

Other Resources

- [Ontario Invasive Plant Council](#)
- [Invasive Species: A Threat to Ontario's Biodiversity](#)
- [Ontario Ministry of Agriculture, Food and Rural Affairs – Ontario Weeds](#)
- [Invasive Species Centre](#)

OFAH/OMNR Invading Species Awareness Program. (2012). *Wild Parsnip*. Retrieved from: <http://www.invadingspecies.com>. This factsheet may be reproduced for non-commercial purposes.

Photo Gallery



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[Fact Sheet - Wild Parsnip](#) (853.7 KiB)



[Best Management Practices in Ontario - Wild Parsnip](#) (2.4 MiB)

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