

DuPont™ Harmony® Extra XP and Express® XP

herbicides

Managing Canada thistle isn't impossible — it just takes time, patience and Harmony® Extra XP or Express® XP

Canada thistle is sweeping through the area and can be found in crops and pastures throughout the northern United States. Left unchecked, Canada thistle forms dense patches that decrease moisture and nutrients while displacing valuable crops.

A tough competitor

Canada thistle spreads by seed and via the plant's horizontal-spreading roots. A single flower head may contain up to 90 seeds. Each plant produces 1,500 seeds on average, while more than 5,000 seeds may be produced when conditions are ideal. The plant's roots act as a large underground food storage system and can produce new shoots for about one and a half growing seasons, even with repeated cultivation.*

No one-shot solutions

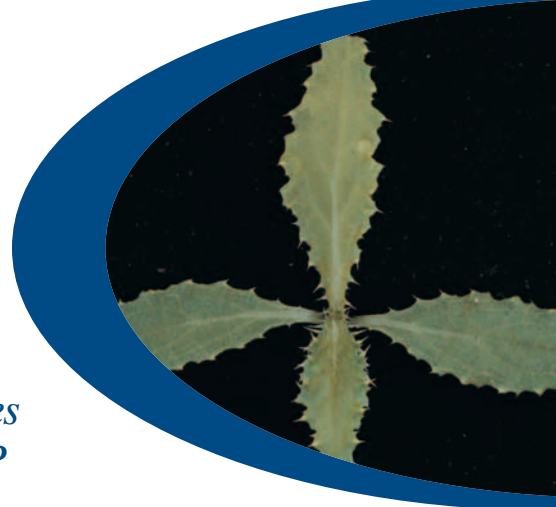
Controlling Canada thistle is no easy task. It requires time, patience and a commitment to your herbicide program. Control ultimately depends on successful destruction of the root system or depletion of the plant's food reserves.

It's virtually impossible to destroy the plant's root system with a single herbicide treatment or tillage operation. However, the plant's food reserves can be depleted through repeated herbicide applications that prevent the development of vigorous shoots.

Programs that target shoot growth — both in-crop and after crops have been harvested — can result in drastic reductions in Canada thistle after two years of continued treatments, without the high cost of treatments like Curtail, Curtail M or WideMatch.

An economical, program approach

Any amount of Canada thistle is too much. Keep it in check with DuPont™ Harmony® Extra XP or Express® XP herbicide. Either product will keep Canada thistle at bay and from competing with your crop, while controlling a host of other broadleaf weeds.



How the program works

Start with a spring application of Harmony® Extra XP to your wheat, barley or oat crop; or Express® XP to your wheat or barley crop. Then attack the weed's root system with a pre- or postharvest application of a glyphosate herbicide product.

If Canada thistle shares the field with tough weeds like wild buckwheat, apply Harmony® Extra XP at the rate of 0.6 ounce per acre. For best results add 2,4-D at recommended rates. This treatment will keep Canada thistle partially controlled while controlling wild buckwheat, redroot pigweed and more than 60 of your toughest broadleaf weeds. For control in oats, apply Harmony® Extra XP at 0.4 ounce per acre plus 2,4-D at recommended rates.

For the most economical control of heavy infestations of Canada thistle, apply Express® XP at the rate of ½ ounce per acre. For best results, add 2,4-D at recommended rates. This treatment will give you optimum control of Canada thistle at an optimum price. See the product labels for complete directions for use.

*Information provided by the National Botanical Services, Ottawa, Ont., Canada.

For best results

- Apply DuPont™ Harmony® Extra XP or Express® XP in the spring when all thistles are 4 to 8 inches tall with 2 to 6 inches of new growth.
- Follow up with a pre- or postharvest application of a glyphosate herbicide such as Roundup.

See the Harmony® Extra XP or Express® XP labels for complete details.

Broad-spectrum control

For multiple broadleaf weed problems, Harmony® Extra XP helps keep Canada thistle in check and delivers reliable control of field pennycress, Pennsylvania smartweed, redroot pigweed, wild buckwheat and more than 60 of your toughest broadleaf weeds.

For heavy infestations of Canada thistle, Express® XP provides the most economical control on the market today. It also controls a host of other tough broadleaf weeds.

For added flexibility, there are several grass and wild oat herbicides that you can tank mix with either Harmony® Extra XP or Express® XP to address the specific weed problems on your land. Talk to your DuPont retailer or representative for details.

Profit protection

When you use Harmony® Extra XP or Express® XP as the foundation of a Canada thistle management program, you'll get reliable results and set yourself up for a bigger return at the end of the season. For starters, by keeping Canada thistle in check, you'll help to preserve your yield. Plus, you're likely to save a few dollars per acre compared to a program that's built around Curtail M or Curtail.

Perfect timing

Ideally, in wheat, Canada thistle should be treated when the crop is between the tillering and boot stages. Harmony® Extra XP and Express® XP, when tank mixed with 2,4-D, can be safely applied before flag leaf emergence. Curtail M or Curtail can be applied between the jointing and boot stage. However, since the risk of crop injury increases as application timing approaches the boot stage, apply Curtail M or Curtail only if the risk of injury is acceptable.

For more information

Managing Canada thistle isn't impossible. It just takes time, patience and Harmony® Extra XP or Express® XP. Contact your local DuPont crop protection retailer or DuPont representative to develop the Canada thistle management program that's right for you. And visit us on the Web at harmonyextra.dupont.com or express.dupont.com.

This reference guide is not intended as a substitute for the product label for the products referenced herein. Product labels for the above products contain important precautions, directions for use and product warranty and liability limitations that must be read before using the product. Applicators must be in possession of the product label(s) at the time of application. Always read and follow all label directions and precautions for use when using any pesticide alone or in tank mix combinations.

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