

# Field Identification and Control of Suspected Herbicide-Resistant Weeds

## HERBICIDE RESISTANCE IS NO LONGER JUST A REGIONAL ISSUE. IT'S A NATIONAL THREAT.

Though herbicide resistance has been an issue in parts of North America for many years, it's growing in severity. Farmers have become accustomed to a very efficient and simple weed management strategy - using a herbicide-resistant trait with the associated herbicide - but managing existing herbicide-resistant weeds or working to prevent the development of new ones requires farmers to consider more complex weed-management strategies. The occurrence of resistance on a farm can increase rapidly and proper identification and confirmation of resistance is imperative to timely mitigation.





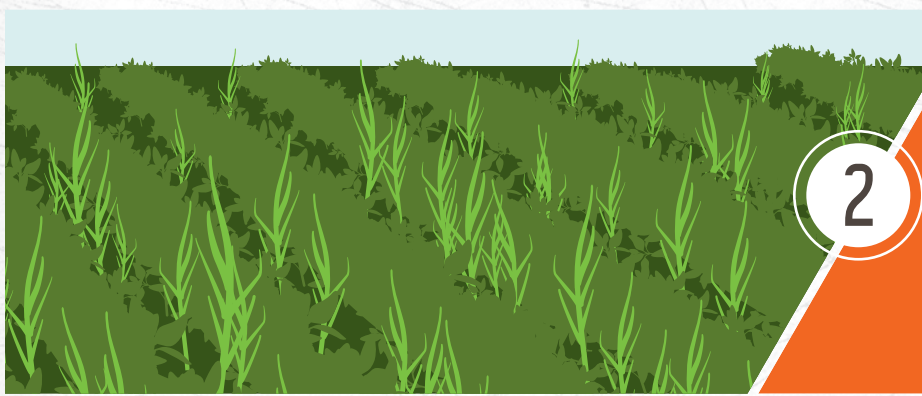
# What does resistance look like?

Three indicators of possible herbicide resistance:



**1**

A herbicide's failure to control a weed species normally susceptible to the herbicide at the dose applied, especially if control is achieved on adjacent weeds



**2**

A spreading patch of non-controlled plants of a particular weed species



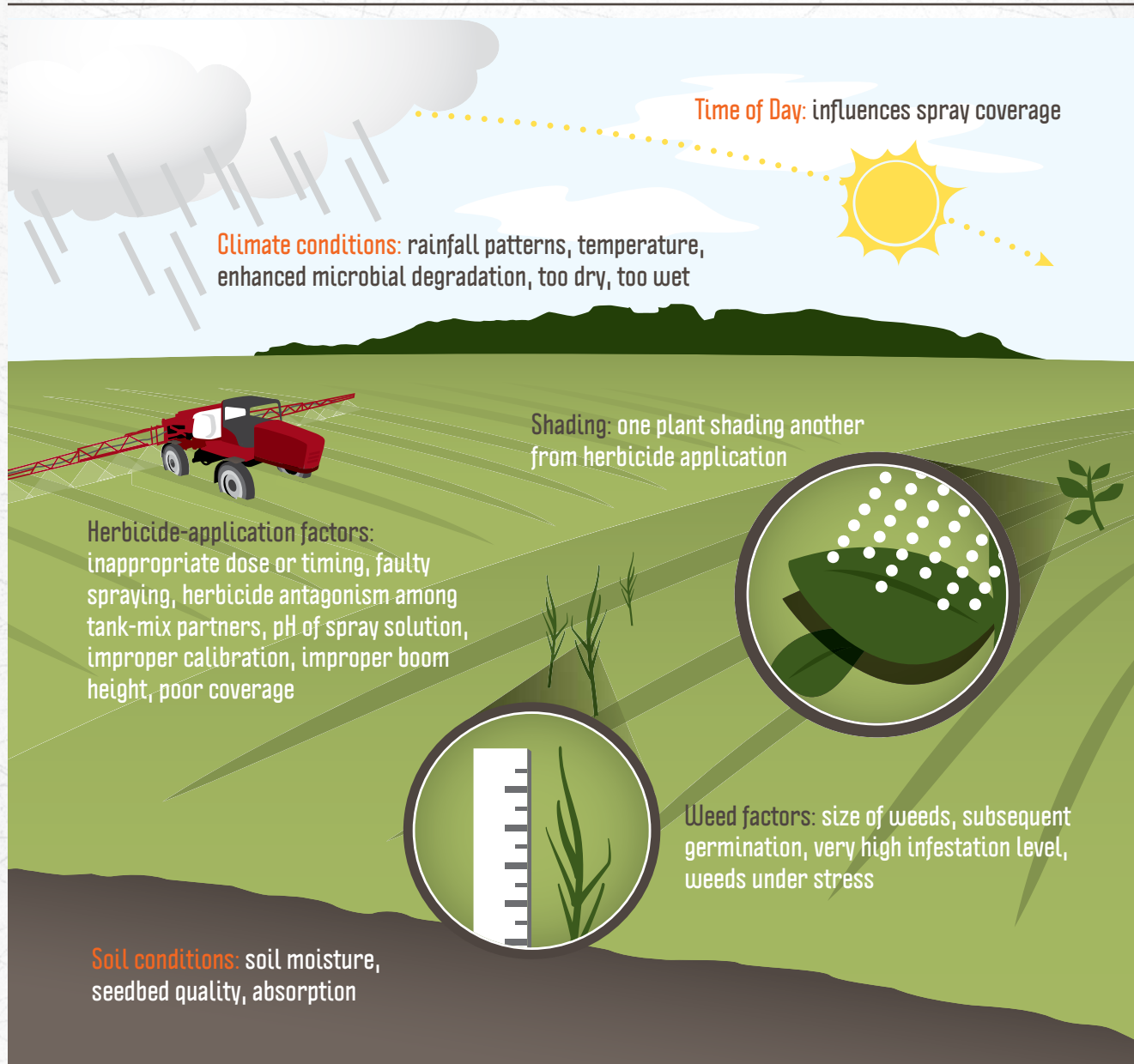
**3**

Surviving plants mixed with controlled individuals of the same or different species



# What causes herbicide failure?

9 out of 10 herbicide failures are due to factors other than resistance.



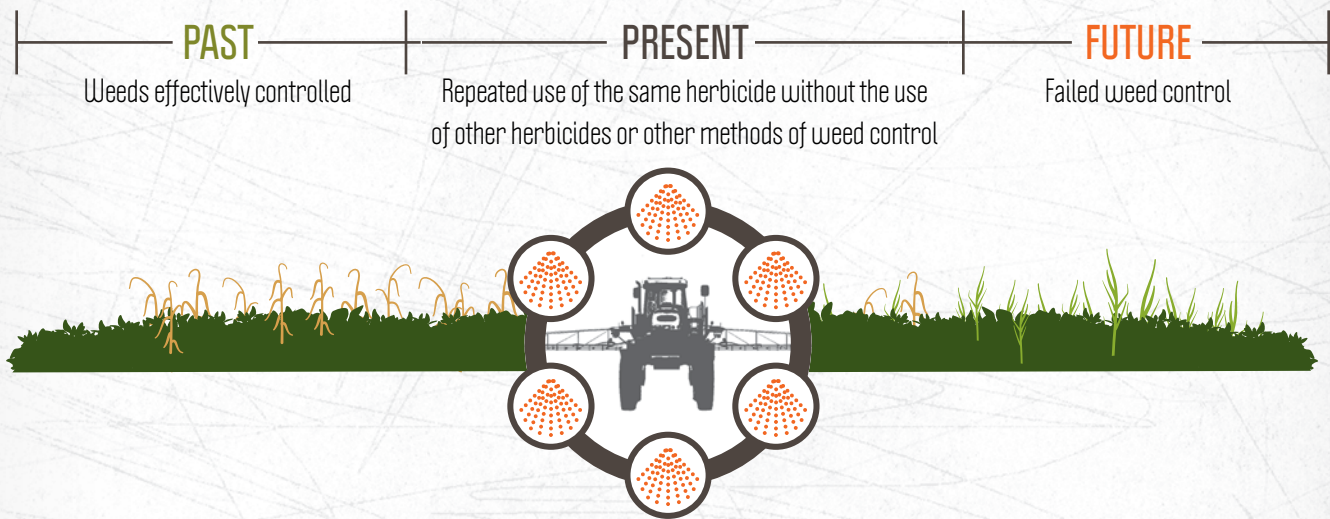
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# How does herbicide resistance occur?



## What should be done now if herbicide resistance is suggested?

Scout soon after the initial treatment, and re-treat, if necessary, using a herbicide with a different site of action or a different weed-management practice.

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Contact your dealer, applicator, extension agent or others for guidance.

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If weeds are too large, the second application may not be effective. Consider cultivation and hand weeding. Consider destroying the infested area if resistance is extremely isolated.

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Follow-up during and after harvest. Rotate herbicides and crop next season.

The complex block contains four horizontal sections, each with a text-based recommendation and an accompanying illustration. The sections are separated by plus signs (+). The illustrations include a plant being sprayed, a person talking to a dealer, a hand pulling a weed, and crop rotation.



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