

# Field Facts: Morningglory

Morningglory is a notoriously difficult weed to control, because it has a naturally occurring tolerance to glyphosate.

- **Common names:** Pitted morningglory, tall morningglory, ivyleaf morningglory
- **Scientific name:** *Ipomoea lacunosa*, *Ipomoea purpurea*, *Ipomoea hederacea*
- **Cotyledons:** Two, notched leaves
- **Leaf shape:** Heart-shaped
- **Reproduction:** Seed pods
- **Flowers:** Trumpet-shaped in many colors, including purple, pink, blue and white



## Fast facts<sup>1</sup>

- Morningglory is a summer annual broadleaf.
- IWillTakeAction.com and WeedScience.org do not list morningglory as being herbicide-resistant in any state in the United States. However, the weed is shown to have a natural tolerance to glyphosate.
  - The Mississippi Soybean Promotion Board does list morningglory as being resistant in the state on its website.
  - The University of Michigan has also conducted research on morningglory's tolerance, calling it resistance, which the university wrote about in an article you can find at <https://phys.org/news/2020-02-probing-genetic-basis-roundup-resistance.html>.
- A single tall morningglory plant per row foot can potentially cut soybean yield in half.
- Depending on the species, a single morningglory plant can produce as many as 15,000 seeds.
- The weed is very difficult to control, because it produces large, hard seed pods with an impermeable seed coat.
- Morningglories can germinate late in the growing season after crops have already been established.

## Control tips<sup>1</sup>

- Control existing morningglories with a preplant burndown herbicide application.
- Use a program approach to weed control, with multiple modes of action, including the use of the full rate of a non-glyphosate, preemergence herbicide.
- Use narrow row spacing when planting crops like soybeans. This will decrease the amount of time needed for the crop canopy to develop and take sunlight away from morningglories.

## Corteva Agriscience offers the following weed control solutions.

### Corn herbicides:

- Enlist Duo<sup>®</sup> herbicide, as part of the Enlist<sup>®</sup> weed control system
- Enlist One<sup>®</sup> herbicide, as part of the Enlist weed control system
- Cinch<sup>®</sup> ATZ herbicide
- Durango<sup>®</sup> DMA<sup>®</sup> herbicide
- Elevore<sup>®</sup> herbicide
- FulTime<sup>®</sup> NXT herbicide
- Keystone<sup>®</sup> LA NXT herbicide
- Keystone<sup>®</sup> NXT herbicide
- Realm<sup>®</sup> Q herbicide
- Resicore<sup>®</sup> herbicide
- SureStart<sup>®</sup> II herbicide

### Soybean herbicides:

- Enlist Duo herbicide, as part of the Enlist weed control system
- Enlist One herbicide, as part of the Enlist weed control system
- Afforia<sup>®</sup> herbicide
- Durango DMA herbicide
- Elevore herbicide
- Enlite<sup>®</sup> herbicide
- EverpreX<sup>®</sup> herbicide
- Sonic<sup>®</sup> herbicide
- Surveil<sup>®</sup> herbicide
- Trivence<sup>®</sup> herbicide

<sup>1</sup>Bradley, Kevin and Bish, Mandy, eds. Take Action. *Morningglory Management in Soybeans*. Chesterfield, MO: United Soybean Board, 2016.

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