

# Engenia®

Herbicide

## The Most Flexible and Advanced Dicamba for Dicamba-Tolerant Crops

Engenia® Herbicide is a patented formulation developed specifically for use on your dicamba-tolerant soybean\*



Palmer amaranth



waterhemp



ivy leaf  
morningglory



marestail

\* Dicamba-tolerant soybean sold under the trait name Roundup Ready 2 Xtend® Soybeans.



 **BASF**

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Technical Information Bulletin

# Why Engenia® Herbicide?

## Benefits of Engenia Herbicide

- Provides postemergence broadleaf weed control
  - Effective on over 200 broadleaf weeds
  - Including glyphosate, triazine, ALS, and PPO resistant broadleaf weeds
  - Up to two weeks residual
  - Excellent crop tolerance
- Most advanced formulation
  - Unique BAPMA salt reduces volatility potential
- Lowest use rate = 12.8 fl oz/A
  - 5 lbs ae/gal formulation
  - Convenient for use with direct injection

## Handle Less Product Per Acre

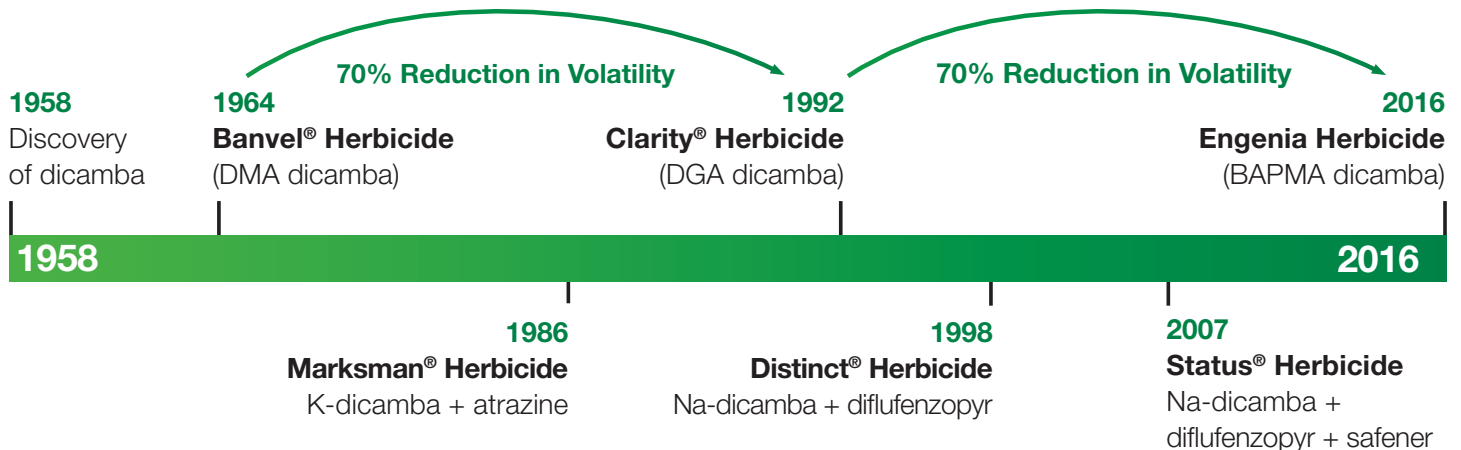


**Engenia Herbicide**  
8 Jugs = 200 Acres



**XtendiMax® Herbicide with VaporGrip® Technology**  
14 Jugs = 200 Acres

## A 50+ Year History of Dicamba Innovation from BASF



# Engenia<sup>®</sup> Herbicide

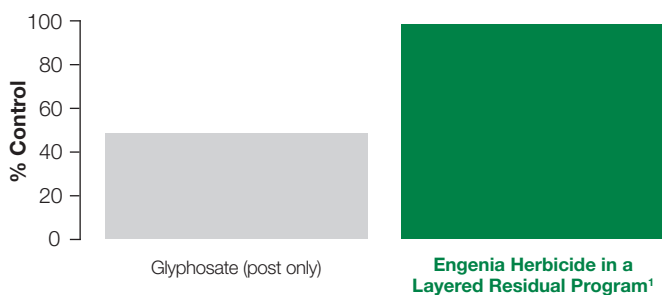
## Weed Control Stewardship

### Use a System Approach for Effective Weed Control

- Target weeds less than 4 inches tall
- Implement a residual herbicide program
- Use multiple, effective sites of action
- Maintain a vigorous crop

### Why a System Approach in Soybeans?

#### Better Weed Control To Prevent and Manage Weed Resistance



Waterhemp control at 8-10 WAP. n = 5 waterhemp. Zidua<sup>®</sup> herbicide rates were labeled rate adjusted according to soil texture. 1). Zidua herbicide = labeled rate. Engenia herbicide applied at 12.8 fl oz/A. Outlook<sup>®</sup> herbicide applied at 12-16 fl oz/A. Glyphosate = 22 fl oz/A. All POST treatments included NIS at 0.25% v/v. BASF sponsored trials conducted in 2014 in IL, IA, NC, NE, ND. Refer to [www.engeniatankmix.com](http://www.engeniatankmix.com) for a list of approved tank-mix combinations.

### Engenia Herbicide Weed Control

#### Glyphosate Only



#### Engenia Herbicide in a Layered Residual Program



BASF Trial Story City, IA 2014.



# Engenia® Herbicide Application Stewardship

**Reducing risk of off-target movement and sensitive plant injury is a result of effective application stewardship. The advanced dicamba formulation of Engenia herbicide, along with proper application, can provide maximum broadleaf weed control and effectively minimize off-target potential.**

## Label Summary – Only for Use on Dicamba-Tolerant Soybeans:

- **Use Rate:** 12.8 fl oz/A
- **Application Timing:** Preplant, Preemergence, POST (up to 45 days after planting or R1, whichever comes first)
- **Application Volume:** ≥ 15 GPA
- **Windspeed:** 3 to 10 MPH
- **Boom Height:** 24 inches or less above target
- **Sensitive Crops:** DO NOT spray if wind is blowing toward neighboring sensitive crops (like non-dicamba-tolerant soybeans) or residential areas
- **Sensitive Areas:** Leave 110' downwind buffer to bodies of water and non-residential, uncultivated areas that may harbor sensitive plant species
  - Consult [www.epa.gov/espp](http://www.epa.gov/espp) or call 1-844-447-3813 and follow any county specific dicamba use restrictions for corresponding endangered species
- **Ground Speed:** ≤ 15 mph, recommend 5 mph on field edges
- **Use Only Approved Nozzles:** For a list of approved nozzles visit [www.engeniatankmix.com](http://www.engeniatankmix.com)
- **Tank Mixtures:** Visit [www.engeniatankmix.com](http://www.engeniatankmix.com) for a list of approved tank-mix partners and adjuvants
  - No acidifying water conditioners; DO NOT use ammonium additives (e.g., AMS, UAN)
- **Avoid Inversions:** DO NOT apply when temperature inversions exist at the field level
- **Daytime Spraying:** Only apply from 1 hour after sunrise until 2 hours before sunset
- **Training:** Complete annual dicamba or auxin specific training
- **Record Keeping:** Including application, planting date, buffer zone determination, and tank cleanout
- **Sprayer Cleanout:** Triple rinse, use a detergent-based commercial cleaner before and after application
- **Rain Free Interval:** DO NOT apply if expected rainfall within 24 hours after application will result in runoff
  - **Rainfast:** 4 hours

## Training and Education

Applicator training requirements vary depending on the state. Visit [www.engeniastewardship.com](http://www.engeniastewardship.com) for BASF resources on proper application according to label requirements. Proper nozzle selection, calibration, boom height, weather conditions, and the use of approved tank-mixtures are all addressed.

To learn more, go to: [www.engeniastewardship.com](http://www.engeniastewardship.com)

Engenia Herbicide is a U.S. EPA Restricted Use Pesticide. Additional state restrictions may apply.

Turbo TeeJet® Induction TTI11004



To learn more about crop protection products from BASF, visit [www.agproducts.basf.us](http://www.agproducts.basf.us)

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**Always read and follow label directions.** Barvel, Clarity, Distinct, Engenia, Marksman, Outlook, Optill, Sharpen, Status and Zidua are registered trademarks of BASF. XtendiMax, VaporGrip, Bollgard II and XtendFlex are registered trademarks of Monsanto Technology LLC. TeeJet is a registered trademark of TeeJet Technologies a subsidiary of Spraying Systems Company. ©2018 BASF. All Rights Reserved. APN# 1801006 Engenia-Post Registration-Soybean-Dec18