



**Zidua<sup>®</sup> PRO**  
Herbicide

**Engenia<sup>®</sup>**  
Herbicide

# Best Weed Management Practices for Dicamba Tolerant Soybeans

## Why Zidua<sup>®</sup> PRO Herbicide?

### Premium Residual Option

- Flexible solution for any soybean traits on conventional, minimum and no-till acres
- Unique combination of 3 sites of action gives consistent, broad-spectrum weed control
- Superior waterhemp and Palmer amaranth performance
- Fast and complete burndown with extended residual weed control
- Convenient premix formulation with planting flexibility

### Weed Control in Dicamba Tolerant Soybeans

- Layer residuals both PRE and POST
- Use multiple effective sites of action
- Target weeds less than 4 inches tall

## Why Engenia<sup>®</sup> Herbicide?

Engenia Herbicide is a patented formulation developed specifically for use on your dicamba-tolerant soybeans.

- 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
- Most advanced formulation
  - BAPMA salt reduces volatility potential
- Lowest use rate = 12.8 fl oz/A
  - 5 lbs ae/gal formulation
  - Less product to handle
  - Convenient for use with direct injection



**Engenia herbicide is the most flexible and advanced dicamba for dicamba-tolerant crops**

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**Technical Information Bulletin**

## Performance Under High Weed Pressure



Flexstar®\*

Zidua PRO Herbicide  
& Engenia Herbicide\*\*

**\*PRE:** Glyphosate (32 fl oz/A) + 2,4-D LV4 (16 fl oz/A) + adjuvants. **POST:** Flexstar GT 3.5 (4.5 pts/A) + adjuvant. **\*\*** Zidua PRO Herbicide and Engenia Herbicide in a layered residual program. Photos taken 3 months after plantings, Purdue University, Medaryville, Indiana, 2016 BASF sponsored research trial. Primary weeds: waterhemp, Palmer amaranth, foxtail, and velvetleaf.

## Zidua PRO Herbicide Best Use Recommendations

### Application Rate:

*Conventional & minimum tillage:* 4.5-6.0 fl ozs/acre\*

*No till:* 6.0 fl ozs/acre. Apply with MSO at 1% v/v for burndown of emerged weeds (add AMS/UAN).

\* Apply 6 fl ozs/A on fields with high weed pressure, resistant weed populations, or emerged weeds at the time of application. If less than 6 fl ozs/A is applied under these conditions, weed control may be diminished.

### Application Timing:

Early preplant through preemergence for burndown and/or residual weed control prior to crop emergence (30 day preplant interval on coarse soil with less than 2% organic matter).

## Engenia Herbicide 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 requirements, can provide maximum broadleaf weed control and effectively minimize off-target potential.

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## Engenia® Herbicide Label Summary

**Only for Use on Dicamba-Tolerant Soybeans:  
Additional State Restrictions May Apply**

- **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/esp](http://www.epa.gov/esp) or call 1-844-447-3813 and follow any 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



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

**Always read and follow label directions.** Engenia, Outlook and Zidua are registered trademarks of BASF. Flexstar is a registered trademark of Syngenta.

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