Best Weed Management Practices for Dicamba Tolerant Soybeans

Why Zidua® 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

Why Engenia® 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

**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

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

We create chemistry
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.

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 Label Summary

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

- ** Use Rate: 12.8 fl oz/A
- ** Application Timing: Preplant, Preemerge, 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 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
- ** Tank Mixtures: Visit 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

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

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

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