

# Engenia® Outlook®

Herbicide

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## Best Weed Management Practices for Post Applications to Cotton

### Why Engenia® Herbicide?

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

#### 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

#### Most Flexible

- 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

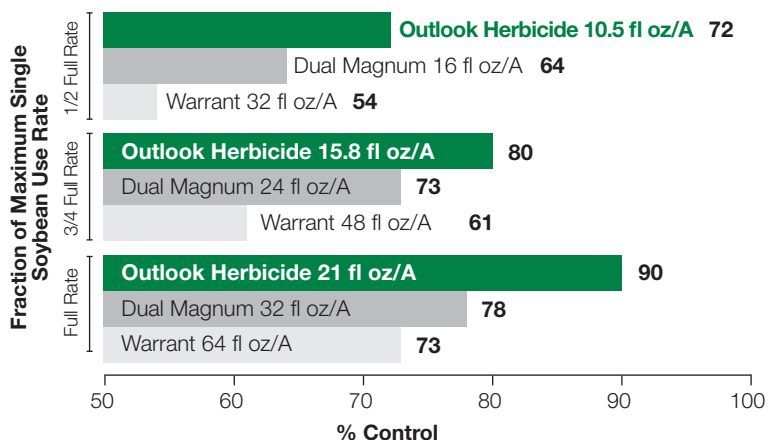
### Why Outlook® Herbicide?

#### Advantages of Outlook Herbicide Over Competitors

- Better control of Palmer amaranth and waterhemp
- Most reliable activation with just 1/4" of rain
- Lower use rate

#### Additional Outlook Herbicide Advantages

- Residual control of annual grasses and small seeded broadleaves
  - Including glyphosate, PPO, and HPPD resistant species
- Readily washes off crop residue to where weeds germinate
- Compatible with post tank-mix partners to meet field specific weed control needs
- Multi-crop flexibility



Amaranthus spp. control – 4 to 6 weeks after treatment. Average of internal and BASF sponsored research trials (2017). N=5 (WI, ND, IA, IL, and NE).

**BASF**

We create chemistry

Technical Information Bulletin

**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.**

## Engenia Herbicide Label Summary

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

- **Use Rate:** 12.8 fl oz/A
- **Application Timing:** Preplant, Preemerge, POST (up to 60 days after planting or mid-bloom, whichever comes first)
  - No more than 2 POST applications
- **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
- **Buffer Zones:** 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

## Outlook® Herbicide Label and Best Use Summary

**For Dicamba-Tolerant Cotton:**

**Use Rate:** 8 to 21 fl oz/A

- Use higher rates for high weed populations and/or longer residual activity
- A post herbicide tank mix partner is required to control emerged weeds
- Sequential applications may be made 2 weeks or more apart
- DO NOT exceed 21 fl oz/A per season
- An approved drift reduction agent (DRA) MUST be used if tank-mixing with Engenia herbicide. Visit [www.engeniatankmix.com](http://www.engeniatankmix.com) for a list of approved DRA products.

### Postemergence Application Timing

- First true leaf cotton to 2 weeks after first bloom stage
- DO NOT apply preplant incorporated, preplant surface, or preemergence in cotton
- DO NOT apply to cotton from emergence through cotyledon stage or injury may occur

## 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.



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

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