



# Emerging Technologies Session II

**LATMC**  
**February 15, 2018**

# Outlook® Herbicide

## Residual Weed Control in Soybeans and Cotton

### ■ Optimal water solubility

- Less moisture required for activation
- Easily washes off of residue

### ■ More available for weed uptake

- Almost twice as much active available in the soil compared to metolachlor

### ■ Superior formulation

- Lower use rates
- Easier handling
- Improved tank-mixing

### Soybeans

- Preplant, PRE, EPost (from emergence to 5<sup>th</sup> trifoliolate

- Dimethenamid-p
- Chloroacetamide – Group 15

Reduce risk from lack of herbicide activation

# Zidua® Herbicide for Peanuts



- EPA Registration approved in May 2017
- EPost applications only from cracking to beginning pod development
- The rate range of 1.5 to 2.1 ozs wt/A on all soil textures
- Residual control of annual grasses, sedges and annual broadleaf weeds



# Zidua<sup>®</sup> SC Herbicide

## New Formulation for 2018 Season



### Liquid SC formulation of Zidua Herbicide:

- **Packaging:** 2x2.5 GA
- **Use Rate:** 3.2 oz = 100 acres per jug
- **Features:** Improved handling and tank mixing
- **Label:** Similar label as WG formulation

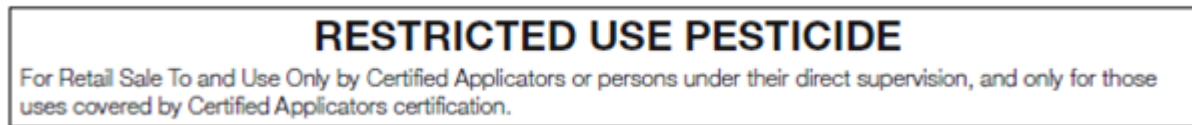
Comparable Rates	
Zidua WG OZ WT	Zidua SC FL OZ
1.0	1.75
1.5	2.50
2.0	3.25
2.5	4.00

# Engenia® Herbicide

## 2018 Federal Label Requirements

### Engenia herbicide is a Restricted Use Pesticide (RUP)

- In Louisiana, only Certified Applicators and those who have completed approved state Auxin Module Training program may buy, sell or apply Engenia herbicide.
- Louisiana 24c Registration requires registrant training.



# Glyphosate Resistant Palmer amaranth Infestation

## Postemergence and Residual Control Program

Untreated

Engenia 12.8 fl oz/A + Zidua 2 oz/A + Roundup  
Powermax 1 qt/A + NIS 0.25% v/v EPost



Dicamba Tolerant Soybean Treatment; Panther Burn, MS – June 12, 2017; 24 DAT

# Effective Weed Management

Use residual herbicide at planting

Systems Approach for DT Soybeans

PREPLANT / PRE	EARLY POST
<p><b>Outlook® 10-16 fl oz/A + Sharpen®/Verdict® or metribuzin + glyphosate herbicides</b></p>	<p><b>Zidua® 1.5-2 oz wt/A + Engenia® 12.8 fl oz/A + approved glyphosate + approved adjuvant</b></p>

Dicamba Tolerant Soybeans ONLY

**PRE residual followed by POST dicamba preserves yield potential**

# Approved Dicamba Formulations

## 2018 Federal label requirements

Additional state restrictions may apply.	
<b>Timing</b>	Burndown through R1 (soybeans); Up to 7 day Preharvest (cotton)
<b>Nozzle</b>	see <a href="http://www.EngeniaTankMix.com">www.EngeniaTankMix.com</a> for approved nozzles
<b>Ground Speed</b>	≤ 15 mph / recommend 5 mph on field edges
<b>Boom Height</b>	≤ 24 inches to spray target
<b>Wind Speed</b>	3 – 10 mph
<b>Sensitive Crops</b>	<b>DO NOT</b> spray if wind is blowing toward neighboring sensitive crops Includes non-dicamba-tolerant soybeans
<b>Buffer Zones</b>	110 feet downwind to non-crop areas as needed according to label directions
<b>Tank Mixtures / Additives</b>	Updated list at <a href="http://www.EngeniaTankMix.com">www.EngeniaTankMix.com</a> NO ammonium salts (e.g., AMS, UAN) or acidifying water conditioners
<b>Application Volume</b>	10 GPA minimum for Engenia herbicide, recommend 15-20 GPA 15 GPA minimum for Xtendimax® herbicide and FeXapan® herbicide
<b>Temperature Inversions</b>	<b>DO NOT</b> apply during a field level temperature inversion
<b>Daytime Applications</b>	Only apply from sunrise until sunset
<b>Sprayer Cleanout</b>	Triple rinse – use detergent based cleaner before and after application
<b>Training</b>	Complete dicamba or auxin-specific training
<b>Recording Keeping</b>	Including application and tank cleanout
<b>Weed Height</b>	4" or less
<b>Rain Free Interval</b>	24 hours
<b>No Aerial Applications</b>	



# Engenia® Herbicide

- [www.engeniatankmix.com](http://www.engeniatankmix.com) – tank mixtures and nozzles
- [www.engeniaherbicide.com](http://www.engeniaherbicide.com) – information and bulletins
- [www.engeniastewarship.com](http://www.engeniastewarship.com) – new Stewardship Portal

Always read and follow the specific product label.

**These products are US EPA Restricted Use Pesticides.**

**Engenia®**  
Herbicide

 **BASF**  
We create chemistry



We create chemistry