

# Technical Update

Log onto [dupont.com/ag/](http://dupont.com/ag/) for up-to-date DuPont™ Crop Protection product labels & MSDS's.

Michael T. Edwards

DuPont™ Crop Protection

Research and Development Representative – Southern Louisiana and Mississippi

(225) 264-0413 – Office and Cell

(866) 385-7464 - Fax

Michael.T.Edwards@usa.dupont.com

# DuPont™ Cereal Herbicides:

Affinity® Broadspec, Affinity Tank Mix, Agility SG,  
Ally Extra® SG, Harmony® SG, Harmony® Extra SG  
and Express® SG



- **Old Grazing Restrictions:** *Do not graze or feed forage or hay from treated areas*

## **New Grazing Restrictions** – (approved by EPA)

- 7 days between application and grazing treated areas or feeding treated forage livestock.
- 30 days between application and feeding of hay from treated areas to livestock.
- Harvested straw may be used for bedding and/or feed.

# Finesse<sup>®</sup> Herbicide

- **2EE for Volunteer Corn control**
  - Apply FINESSE<sup>®</sup> for control of volunteer corn with preplant, preemergence, or early postemergence applications in winter wheat.
  - Apply 0.3 to 0.5 oz per acre for control of corn up to 18" in height.

# Volunteer Glyphosate Tolerant Field Corn In Wheat

**Ignite<sup>®</sup>**  
**preplant**

**Finesse<sup>®</sup>**  $\frac{1}{2}$  oz/acre  
+  
**Roundup Original MAX<sup>™</sup>**  
**preplant**

University of Tennessee Trial  
Dr. Larry Steckel – Jackson, TN



# Optimum<sup>®</sup> GAT<sup>®</sup> Trait

## New Weed Management Tool

- Optimum<sup>®</sup> GAT<sup>®</sup> trait is a new glyphosate and ALS herbicide tolerance trait under development for corn and soybeans.
  - Corn trait U.S. approvals expected Q2 09
  - Soybean trait U.S. approvals received in 2008
- Federal Registration of new products expected
  - : 2011 for soybeans
  - : 2010 for corn.
- Technology delivered to the market by Pioneer, Syngenta Seeds, and Green Leaf Genetics.



## DuPont Herbicides Designed for Crops Containing the Optimum® GAT® Trait

DuPont Brand	Active Ingredients	Use	Key Weeds
Traverse™	Rimsulfuron Chlorimuron ethyl	Fall and spring burndown prior to corn <b>or</b> soybeans	Winter annuals No-till weeds
Instigate™	Rimsulfuron Chlorimuron ethyl Mesotrione	Preemergence use for corn	Gly resistant weeds ALS resistant weeds Tough to control weeds
Trigate™	Rimsulfuron Tribenuron methyl Mesotrione	Postemergence use for corn	Gly resistant weeds ALS resistant weeds Tough to control weeds
Diligent™	Rimsulfuron Chlorimuron ethyl Flumioxazin	Preemergence use for soybeans	Gly resistant weeds ALS resistant weeds Tough to control weeds
Freestyle™	Chlorimuron ethyl Thifensulfuron methyl Tribenuron methyl	Postemergence use for corn <b>or</b> soybeans	Gly “challenged” weeds Morningglory Lambsquarters

DuPont™ Diligent™, Freestyle™, Instigate™, Traverse™ and Trigate™ are not registered for sale or use in the United States. No offer for sale, sale, or use of these products is permitted prior to issuance of the required EPA and state registrations.

# DuPont™ Soybean Herbicides

## 2009 Update – Key Residual Options

Product	Market	Timing
<b>Canopy® EX</b> Registered in March 2007	Contact + Residual Winter / Spring / Summer Annuals Chlorimuron + Tribenuron	Post harvest to 7 days preplant
<b>Envive™</b> Registered in April 2008	Contact + Residual Spring / Summer Annuals <b>KEY rate: 3.5 oz/A</b> Chlorimuron + Thifensulfuron + Flumioxazin	Preplant to 3 days Post Plant*
<b>Enlite™</b> (new in 2009 - January) <b>High pH Soils</b>	Contact + Residual Spring / Summer Annuals <b>KEY rate: 2.8 oz/A</b> Chlorimuron + Thifensulfuron + Flumioxazin	Preplant to 3 days Post Plant*

(\*Prior to soybean emergence)

# FirstShot® SG

## New Burndown Herbicide

- More tribenuron (Express®) vs Harmony® Extra
- New SG TotalSol formulation
- Use rate of 0.5 to 0.8 oz/acre
- Can be tankmixed with gly + 2,4-D or gly alone
- Reduced Preplant Intervals
  - Wheat & Rice – 0 days
  - Soybeans – 7 days
  - Cotton, Corn, G. Sorghum – 14 Days
- Registered in March 2007

# New Resolve Q Herbicide

(registered spring '08)



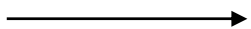
<p><b>DuPont™ Resolve™ Q</b> 1.25 oz/A use rate</p>	<p><b>Rimsulfuron</b>      <b>18.4%</b> <b>Thifensulfuron</b>      <b>4.0%</b> <b>Isoxadifen</b></p>
---	--

Add to glyphosate for contact + residual control

Built-in safener provided confident use with more weather conditions, more hybrids and numerous adjuvants.

# DuPont™ Corn Herbicides

## ■ Resolve™ Formulation Change

**25DF**            **25SG**

- **No change in rates**
- Brings benefits of the Soluble Granule Formulation
  - Completely dissolves in water, clear in tank
  - 100% active ingredient available
  - Faster & easier tank clean out

# DuPont™ Corn Herbicides

- **Resolve™ SG - Recrop Interval to Cotton**
  - **Previously - 10 months for 1 oz/A**
  - **New Interval - 1 month for 1 oz/A**
- **Allows to switch to cotton following an early preplant application of Resolve up to 1 oz/A due to a failed corn stand, inability to plant due to wet weather, etc.**
- **Now have 2 options @ 1 month: Cotton & STS soybeans**

(Label pending @ EPA, expected to issue  
no later than March)

# New Steadfast® Q Herbicide

(registered fall '08)



## DuPont™ Steadfast® Q

1.5 oz/A use rate

Up to 20 inches tall corn or 6 leaf collars

**Rimsulfuron**

**25.2%**

**Nicosulfuron**

**12.5%**

**Isoxadifen**

Contact + residual herbicide for conventional and glyphosate corn.

Built-in safener provided confident use with more weather conditions, more hybrids and numerous adjuvants.

# Vegetation Management and Pasture Portfolio



# DPX-MAT28: Aminocyclopyrachlor

## ➤ *Biological Activity*

- **1.0 to 4.5 oz ai/ac**
  - Controls a broad spectrum of broadleaf weeds, vines and brush species.
- **CHEMICAL FAMILY: PYRIMIDINE CARBOXYLIC ACID**
- **MODE OF ACTION: Auxin-type herbicide**
- **REGISTRATION TIME LINE → VM= End of 2010      Pasture 2012**

### *Partial list of weeds controlled*

- |                              |                        |
|------------------------------|------------------------|
| ➤ <b>Dandelion</b>           | <b>Prickly lettuce</b> |
| ➤ <b>Lespedeza</b>           | <b>Thistle complex</b> |
| ➤ <b>Horseweed/marestail</b> | <b>Winter Annuals</b>  |
| ➤ <b>Honeysuckle</b>         |                        |
| ➤ <b>Box elder</b>           | <b>Dewberry</b>        |
| ➤ <b>Hackberry</b>           | <b>Privet</b>          |
| ➤ <b>Red maple</b>           | <b>Black gum</b>       |
| ➤ <b>Sumac</b>               | <b>Sassafras</b>       |

# Pastora™

## New Bermudagrass Herbicide

- Contains nicosulfuron and metsulfuron
- Use rate of 1.0 to 1.5 oz/acre
- Research in progress to determine control or suppression of :
  - Winter and Summer annual Broadleaf Weeds
  - Johnsongrass, Bahiagrass, Vassegrass, Dallisgrass
  - Ryegrass, Sandbur
- Can be mixed with other registered products in Bermudagrass
- Expect Registration in 2010

# Pastora™



Pastora™ 1 oz/ac + NIS



Check

# Insecticide Portfolio



*\*Suppression. Currently conducting additional studies.*

# Rynaxypyr™ Insecticide

- A new Lep insecticide for use in fruits, nuts, and vegetables as well as some **row crops including cotton.**
- Registration received in May 2008
- New class of chemistry with a new mode of action.
  
- Trade Names:
  - **Coragen™ SC - leafy & fruiting vegetables, brassica, cucurbits, cotton, potatoes**
  - **Altacor™ 35WDG – pome & stone fruits, grapes**

# Dermacor™ X-100 Insecticide

## ■ Rice Seed Treatment

- Currently under development
- Section 18's renewed for 2009
  - Louisiana, Texas – approved
  - Mississippi, Arkansas - pending
- Active Ingredient = Rynaxypyr™
- Rice water weevil control equivalent to Icon
- Appears to have good activity on stem borer complex

# THANKS for your Support

