



2017 Product / Label Update

DuPont Crop Protection

LACA Update
February 2017

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For Dickie Edmund
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DuPont™ Dermacor® X-100 Seed Treatment in Rice

- 2(ee) Recommendation for Reduced Rates for control or suppression of Rice Water Weevil, Mexican Rice Borer, Rice Stalk Borer, & Sugarcane Borer
 - Rate range – 1.5 to 5 oz/cwt - target is **1.5 oz/A**, except for Hybrids
 - Hybrid Rice – 4-**5** oz /cwt
- Allows for economical approach to treating Hybrid rice in combination with a neonic due to 1 loading rate for all seeding rates with Crusier Maxx & Nipsit Inside
 - Crusier Maxx 7 oz/cwt
 - Nipsit Inside 1.92 oz/cwt
- Benefits of combination (Dermacor plus neonic)
 - Broader pest spectrum
 - Less impact from high moisture environments
 - Longer residual and better control of RWW larvae compared to neonic alone
 - Fall armyworm control
 - Late season protection against borer complex

Hybrid Rice - Rough Rice Yields bu/A

Cooperator	Dermacor [®] X-100 + Nipsit or Cruiser	Nipsit or Cruiser	+/-
Turner	NA	NA	-----
Jaggers	187	181	+6 bu/A
Koger	233	230	+3 bu/A
Farr	256	255	+1 bu/A
Univ. of AR	189	175	+14 bu/A
Yield Response to Dermacor[®] (Avg.)			+6 bu/A

DuPont™ FirstShot® Herbicide

- FirstShot® Rate Range: 0.5 – 0.8 oz/A
 - **0.5 oz/A** - soybean preplant interval **1 day**
 (excluding coarse textured soils or pH > 7.9)
 > 0.5 – 0.8 oz/A preplant interval is 7 days
 - Excellent tank mix option with Sharpen close to planting – complement one another, reduces regrowth
 - Rice: 0 day
 - Soybean: 1 day (0.5 oz/A)
 - Follow the most restrictive label regarding adjuvants and preplant intervals

Control of PPO-Resistant Palmer Amaranth

2016 University of Arkansas Field Evaluations – 26 Pre Programs

Leading PRE Treatments included several DuPont Programs

- Trivence® 8 oz/A
- Trivence® 8 oz/A + Zidua 1.5 oz/A
- Canopy® 6 oz/A + Cinch 1 pt/A (Metolachlor)
- Canopy® 6 oz/A + Zidua 1.5 oz/A
(Soil pH < or = 7)
- Canopy® 2.25 oz/A + Boundary 1.5 pt/A (2ee label)
(Soil pH > 7, no rotational restrictions)

Pre Programs fit all Herbicide Tolerant Traits

(Roundup Ready, Liberty Link, Xtend, and Enlist)

**Apply the Post application no later than 21 days after planting,
include a residual component per labeling**

DuPont Crop Protection - Pre / Post Programs for 2017



Trivence® 8 oz + Zidua 1.5 oz Pre

Fb

Liberty 29 oz + Cinch® 1 pt E. Post



Canopy® 6 oz + Cinch® 1 pt Pre

Fb

Liberty 29 oz + Cinch® 1 pt E. Post



Pre's applied 5/12/16
E.Post applied 6/10/16
Photos taken 7/8/16, 28 DAT of E.Post

DuPont™ FeXapan™ herbicide plus VaporGrip™ Technology Technical Presentation



Pioneer® Brand Soybeans with Roundup Ready 2 Xtend™ Technology

20 commercial varieties in Groups IV and V

Extensive local testing for proven performance on your farm



DuPont™ Inzen™

herbicide tolerance trait for sorghum

+

DuPont™ Zest™ WDG (water-dispersible-granule)

postemergence herbicide for grass control





**Cinch[®] ATZ 3.25 pts/A – PRE
fb**

Zest[™]* 0.75 ozai/A - POST
+ COC 1%v/v + AMS 2lb/A

Untreated

35 DAT - POST

Application Information:
Pre – April 4, 2014
Post - May 1, 2014
SWK-14-001 Mertens, TX



THANK YOU



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1st - THANK YOU

Sales Reps:

Josh Wilson – North / Northeast AR

Jim Burkett – East Central AR

Steve Frost – Southeast AR

Darrin Malone – Field Development Technical Consultant

Grower Program:

DuPont Crop Protection / Pioneer Seed

Herbicides / Insecticides / Fungicides

Financing Program

See your local Sales Rep for details

General Information: DuPont™ Zest™ WDG herbicide

- Received registration in 2016
- Postemergence application for control of key annual grass weeds – use rate of 2/3 to 1 oz/A + COC or NIS
- Target Market: DuPont™ Inzen™ Grain Sorghum only
- Apply between 4-20” tall grain sorghum
- Tank mix flexibility – key tank mix partner is atrazine
- Fits best in a pre –fb- post program
 - Metolachlor PRE –fb Zest™ + Atrazine POST
- Follow all label use directions

Stewardship – DuPont™ Inzen™ Grain Sorghum

- Stewardship requirements must be met to grow Inzen™ grain sorghum
- Growers must complete training on stewardship website to better understand resistance management within the Inzen™ system
 - Zest.DuPont.com, available once we have state registrations
- Growers will sign a stewardship agreement at the time of seed purchase
- Seed Tags will contain instructional information (much like you see on corn or soybean seed tags)
- Growers should follow best management practices listed on the label

DuPont™ Dermacor® X-100 Seed Treatment – 2016 Univ of AR Trials

Trial #	Technology, Seeding Rate/A	Rate fl oz/cwt	#RWW/Core UTC % Con	+/- Bu/A vs UTC
SWH-16-076	Hybrid, 23 lbs	5 oz	7.8, 81%	- 1.8
SWH-16-077	Hybrid, 23 lbs	5 oz + Nipsit Inside 1.92 oz	26.9, 62%	+ 23.0
SWH-16-078	Hybrid, 23 lbs	5 oz	9.6, 53%	+ 13.4
SWH-16-118	Clearfield, 60 lbs	2.5 oz	6.3, 43%	- 3.6
SWH-16-119	Clearfield, 60 lbs	2.5 oz	6.7, 92%	+ 8.8
SWH-16-120	Clearfield, 60 lbs	2.5 oz	2.3, 99%	+ 0.8
SWH-16-121	Clearfield, 60 lbs	2.5 oz	4.9, 61%	- 2.5
SWH-16-122*	Conv, 75 lbs	2.3 oz	10.4, 82%*	+5.8*

(* Planting date study, averaged across 6 planting dates, 3/22 through 6/9)
(Trials conducted by Drs. Gus Lorenz & Jarrod Hardke)

General Information: DuPont™ Inzen™ grain sorghum

- Novel, non-genetically modified crop herbicide tolerance that provides the first post emergence grass control in grain sorghum
- Naturally occurring ALS resistance trait (obtained from shattercane)
- Seed Availability – DuPont Pioneer and Advanta are currently developing Inzen™ sorghum hybrids
 - Additional seed companies have expressed interest in adding this to their portfolios
- Advanta – limited seed supply in 2017

Crop Response from DuPont™ Zest™ WDG Herbicide



Stillwater, OK CEH-16-018 6 Days After Application (6/5/16)



Stillwater, OK CEH-16-018 27 Days After Application (6/26/16)

- Temporary yellowing and reduction in height of DuPont™ Inzen™ traited grain sorghum may occur following a postemergence application of Zest™ WDG herbicide.
- Crop response may be more pronounced when conditions exist that result in slowed crop growth, such as but not limited to cloudy, cool, or wet conditions, or the Inzen™ traited grain sorghum is small (4 to 6 inches in height) at application.
- Normal growth and appearance should resume when normal growing conditions return.

Results: Crop response to 6.0 oz/a LeadOff® (4X) @ planting



USA-15-172, SWH-15-021, England, AR
Picture taken: 6/18/15

**Untreated
Check**

Inzen™ traited grain and forage must be channeled until PNT Approval

- Inzen™ traited grain sorghum is currently in review by the Canadian Food Inspection Agency under the Canadian Regulatory Process for Plants with Novel Traits (PNT)
- Grain or forage **must not** be released into the commercial grain channel until PNT approval – **expected late 2017**
- Grain *may* be used in the United States for farm feeding, feedlots or in ethanol production
- Forage *may* be use anywhere within the US