

Syngenta herbicides cleared for tank mixes on Roundup Ready 2 Xtend® soybeans and Bollgard II® XtendFlex® cotton.

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Update and future

Classification: INTERNAL USE ONLY

Syngenta herbicides cleared for tank mixes on Roundup Ready 2 Xtend[®] soybeans and Bollgard II[®] XtendFlex[®] cotton

- Tank mixes will be available for use in the 2018 season upon posting on www.XtendiMaxApplicationRequirements.com and www.EngeniaTankMix.com
- Using multiple modes of action every year is key to preventing herbicide resistance
- Residual herbicide tank mixes are recommended for optimal weed control

GREENSBORO, N.C., USA, Jan. 25, 2018 – Syngenta has received confirmation from the Environmental Protection Agency (EPA) that several Syngenta herbicide tank-mix options have been cleared for inclusion with both XtendiMax[®] with VaporGrip[®] Technology and Engenia[®] herbicides. These herbicides will be available for use on Roundup Ready 2 Xtend[®] soybeans and Bollgard II[®] XtendFlex[®] cotton traits, providing growers with additional weed management options in 2018.

[Syngenta](#) herbicide tank-mix options* now include the following products:

- [Boundary[®]](#)
- [BroadAxe[®] XC](#)
- [Caparol[®]](#)
- [Dual Magnum[®]](#)
- [Flexstar[®]](#) (currently for XtendiMax only)
- [Prefix[®]](#)
- [Reflex[®]](#)
- [Sequence[®]](#)

Syngenta is also currently pursuing dicamba tank-mix clearance for [Envoke[®]](#), Flexstar (with Engenia), [Fusilade[®] DX](#) and [Gramoxone[®] SL 2.0](#) herbicides.

Xtendimax Website as of 2-5-18

- Caparol
- Dual magnum
- Flexstar
- Reflex

Engenia Website as of 2-5-18

- Caparol
- Reflex

All of the recently cleared Syngenta herbicide tank mixes have been tested according to EPA approved protocol, and the results are certified in accordance to the terms and conditions of registration for XtendiMax and Engenia.

Syngenta herbicides cleared for tank mixing with XtendiMax and Engenia may be used **only once listed** on the following websites, which will happen within 90 days of EPA clearance: www.XtendiMaxApplicationRequirements.com and www.EngeniaTankMix.com. Syngenta does not recommend using any dicamba herbicide tank mixes until they are posted on these websites.



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LA Sugarcane – Update

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Trivapro™ in Sugarcane



- **Federal Registration – March 2018***
- Pre-Mix at a use rate 13.7 fl oz/A contains
 - Benzovindiflupyr (SDHI Group 7 **Solatenol™**) 4 floz/A
 - Unprecedented rust control
 - Propiconazole (Group 3) active ingredient in **Tilt®**) 4 floz/A*
 - Azoxystrobin (Group 11) active ingredient in **Quadris®**) 6 floz/A
- **Pest: Rust (Orange or Brown)**
- **STL* – best intrinsic activity on rust complex**
- **Extended residual activity**
- **3 different MOA - efficacy and resistance management**



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LA Sugarcane – Update

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Lumax EZ[®] in Sugarcane

- Pre and Post Emergence use in Sugarcane
- Atrazine (the active ingredient in **Aatrex[®]**)
- Mesotrione (the active ingredient in **Callisto[®]**)
 - Unprecedented broadleaf weed control
- S-Metolachlor (the active ingredient in **Dual Magnum[®]**)
 - Season-long, residual grass control, new MOA in cane



- Equivalent rates

	Callisto	Dual II Magnum	AAtrex 4L
2.5 qt/A	5.4 oz/A	1.8 pt/A	0.625 qt/A
3.0 qt/A	6.4 oz/A	2.0 pt/A	0.75 qt/A

Lumax EZ[®] in Sugarcane

- Resistance Management Tool for over use of Metribuzin (PSII)
- New MOA in Cane w/ S-Metolachlor (AI in Dual Magnum[®])
- Broaden spectrum and synergy
- Weeds: Nightshade, Nutsedge, Ryegrass...etc
- Winter annuals
 - Cutleaf evening primrose
 - Annual bluegrass
 - Ryegrass (GLY, PSII resistance/tolerant)
- Morningglory Spp.
- Pigweed
- Dayflower
- Alligatorweed
- Purslane
- Bermudagrass* (2 apps maybe needed)
- Tank-Mix with Triclopyr for Synergy on bermudagrass and many other weeds



Nightshade control



Lumax EZ @ 3.0 qt/A*



Lumax EZ @ 3.0 qt/A*

***All treatments had COC at 1% v/v
Applied 3-17; Picture taken 4-4 (18 DAA)**

CRUISERMAXX® RICE HYBRID RICE OVER-TREATMENT

Better stands, more vigorous plants,
higher yields

Classification: Public, Not for Distribution



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BENEFITS OF HYBRID RICE OVER-TREATMENT

Adds the power of CruiserMaxx® Rice insecticide-fungicide seed treatment to a typical base treatment

Higher stand counts

Vigor improvement you can see

Higher yields

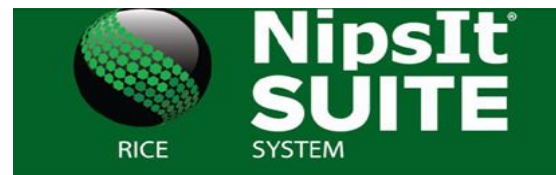
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 **CruiserMaxx®**
Rice

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Key Differences in Fungicide Package Between CruiserMaxx Rice and NipsIt Suite System



- Apron XL (Mefenoxam*)
 - 0.36 fl oz/cwt
 - Pythium
- Maxim 4 FS (Fludioxonil)
 - 0.044 fl oz/cwt
 - Fusarium, Rhizoctonia
- Dynasty (Azoxystrobin)
 - 1.0 fl oz/cwt
 - *Rhizoctonia*, *Pythium* and seed borne rice blast – *Pyricularia grisea*
- Sebring (Metalaxyl)
 - 0.40 fl oz/cwt
 - Pythium
- Spiranto (Fludioxonil)
 - 0.08 fl oz/cwt
 - Fusarium, Rhizoctonia

* Mefenoxam is the active isomeric form of metalaxyl. The active isomeric form comprised 50% of metalaxyl. Mefenoxam is 100% active isomer.

Significant difference in insecticide rate Between CruiserMaxx Rice and NipsIt Suite System



- Cruiser 5FS
 - 3.68 fl oz/ct
- Nipsit Inside
 - 1.92 fl oz/cwt

CRUISERMAXX RICE: PROVEN PERFORMANCE, PROVEN BENEFITS

- Offers protection against seedborne and soilborne diseases, including *Pythium* and *Fusarium*
- Protects against harmful insect pests, including chinch bugs, thrips and early-season insect pests such as grape colaspis and rice water weevil
- Proven to help increase plant stands, uniformity and vigor, and improve quality and yield potential through the Cruiser® Vigor Effect
- Promotes a more efficient root system that supports plant growth even in stress situations like drought, cold, heat, nutrient deficiency, low soil pH and phytotoxic compounds
- Optimizes seeding rates by protecting every seed to help ensure plant establishment
- Insecticide component shows some drift safening properties to help protect against injury from drift from certain herbicides

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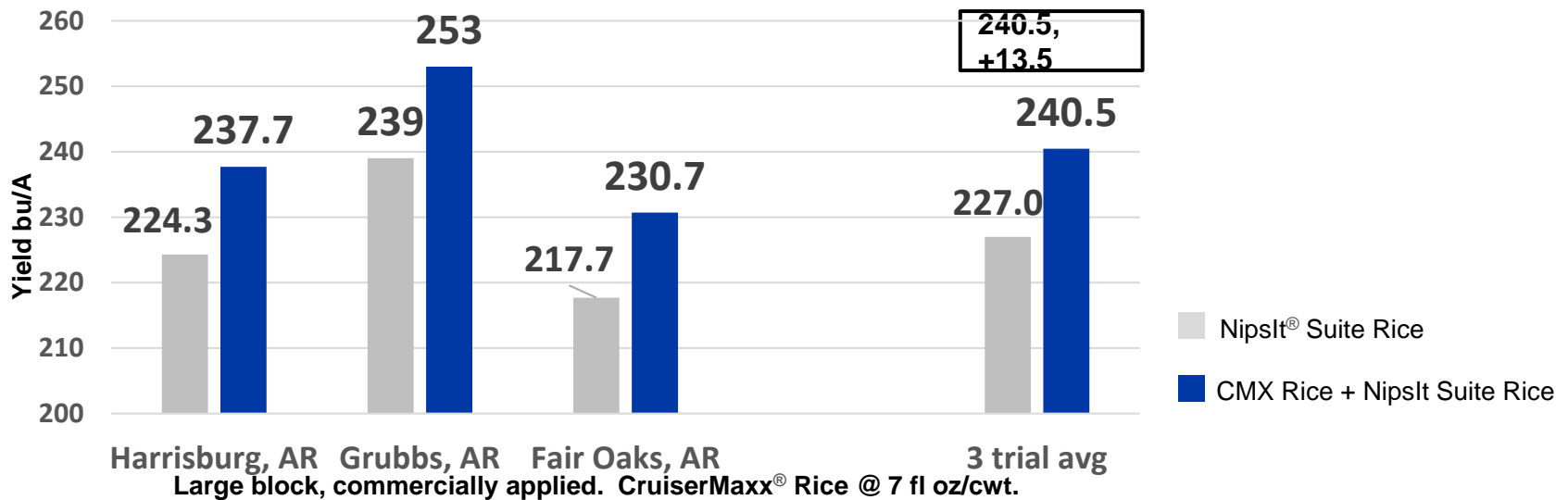


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HYBRID RICE OVER-TREATMENT

2017 Demonstration Trials

3 trials in Arkansas



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Fungicide Innovation by Design

June 2017 External Not for Distribution

Miravis (Adepidyn) is not currently registered for sale or use in the U.S. This is not an offer for sale.

The Syngenta logo, consisting of the word "syngenta" in a lowercase, blue, sans-serif font. A small green leaf icon is positioned above the letter 'n'. A registered trademark symbol (®) is located at the top right of the word.

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Miravis™ Fungicide

ADEPIDYN™: Pydiflumetofen

Novel carboxamide chemistry within the Group 7 SDHI mode of action

High potency + Broad spectrum + Long lasting efficacy

Outstanding leaf spot activity across multiple crops

- **Alternaria, Cercospora, Corynespora, Septoria, Fusarium, Sclerotinia, others**
- **Weak on Rusts and not active on Rhizoctonia**

Miravis will be sold “solo” on some crops and in pre-mixes on others

ADEPIDYN and Miravis are not currently registered for sale in the U.S. and this is not an offer for sale.

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The Miravis brand family

Smart, durable and flexible products tailored to grower needs

Miravis™

Adepidyn

For control of leafspots and other diseases in peanuts



Miravis™ Ace

Adepidyn, Propiconazole

For control of head scab (fusarium) and leaf diseases in wheat



Miravis™ Neo

Adepidyn, Azoxystrobin, Propiconazole

For disease control and crop enhancement in corn and soybeans



Miravis™ Top

Adepidyn, Difenoconazole

For crop enhancement and control of Frog Eye Leaf Spot, target spot and other diseases in soybeans



Miravis™ Prime

Adepidyn, Fludioxonil

For control of early blight and white mold in potatoes
For control of botrytis and powdery mildew in grapes





ADEPIDYN™: Novel carboxamide chemistry

Wheat:



- Miravis™ ACE
- Co-pack: ADEPIDYN™ + Propiconazole
- Broad spectrum foliar and head diseases
- Septoria, Tan Spot, Rusts, Fusarium Head Blight (Scab)
- Excellent Head Scab activity – longer residual than current standards
- wider application window – 50% heading through flowering
- Significant DON (deoxynivalenol) reduction vs. untreated wheat
- Expect wheat label for the 2019 season

Cotton:



diseases

- 9.0 – 13.7 oz
- ADEPIDYN™ + Difenoconazole
- Multiple foliar
- Excellent, long residual *Corynespora* (Target Spot) control
- Premature defoliation prevention superior to current standards
- Expect cotton label in 2020

ADEPIDYN and Miravis are not currently registered for sale in the U.S. and this is not an offer for sale.

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Miravis products, crops and registration timeline for the Mid-South

Soybeans: **Miravis[™] Top**

- 9.0 – 13.7 oz
- ADEPIDYN[™] + Difenoconazole
- Excellent FELS, Septoria, Corynespora (Target Spot) activity
- Disease control + Crop enhancement
- Longer residual than other labeled products
- Efficacy TBD against Web blight, Anthracnose and Pod and Stem Blight
- Expect soybean label for the 2019 season

Peanuts: **Miravis[™]**

- 1.7 – 3.4 oz
- Early and late leaf spot control
- Excellent against Cercospora, Cercosporidium, Sclerotinia
- Outstanding leaf spot residual – up to 28 days (single application)
- Not active on Rhizoctonia and Sclerotium
- Apply alone or with Elatus[®] or Abound[®] to broaden the control spectrum
- Expect peanut label for the 2019 season

Legal

Product performance assumes disease presence.

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Some seed treatment offers are separately registered products applied to the seed as a combined slurry. **Always read individual product labels and treater instructions before combining and applying component products.** Orondis Gold is a combination of separately registered products: Orondis Gold A and Orondis Gold B.

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