

LACA Meeting Emerging Technologies Sessions

FMC



***Don Johnson
Sr. Technical Sales Mgr.***

FMC Product Update -



Solstice on Corn



Solstice
HERBICIDE

- **Active ingredients:**
 - fluthiacet-methyl + mesotrione
- **4 lb/gallon SC formulation**
- **Strong Broadleaf Control in Post Program**
- **Multiple MOA Resistance Fighter**
- **Application Stage : Up to V8 corn**
- **2.0 - 3.15 oz/A**
 - 2.0 oz rate + Atrazine : Clean-up over PRE such as Anthem/Anthem ATZ
- **2.5 - 3.15 oz are primary rates.**
 - Stronger control on tougher weeds.
 - Maximum performance on toughest weed situations.
- **Recommend with Anthem ATZ**
 - 0.5-1.5 lb a.i. / A.
 - High rate for extended residual
 - Up to 12 inches tall with atrazine products
- **Adjuvants**
 - COC – 1% v/v + AMS 8.5 lb /100 gal
 - MSO – More crop response (Caution)



***Solstice 2.5 oz +
Atrazine 1 pt +
Roundup***

***30-DAT: Pigweed, Lambsquarters,
Kochia***



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Registration Pending

Authority Brands



Authority Elite

- Elite pre-emergence soybean herbicide for annual grasses and broadleaf weeds including Palmer pigweed and Waterhemp.
- Unique combination of 2 long-trusted and valuable weed control tools.
 - Sulfentrazone
 - S-metolachlor
- Sulfentrazone / s-metolachlor premix
 - 1: 9 ratio
 - 7 lb /gal SC formulation
 - Avg. use rate of 24 oz/A
 - 0.131 lb ai/A sulfentrazone
 - 1.18 lb ai/A s-metolcchlor
 - Max use rate of 38 oz/A
- Application volume
 - Minimum of 10 GPA by ground
 - Minimum of 5 GPA by air



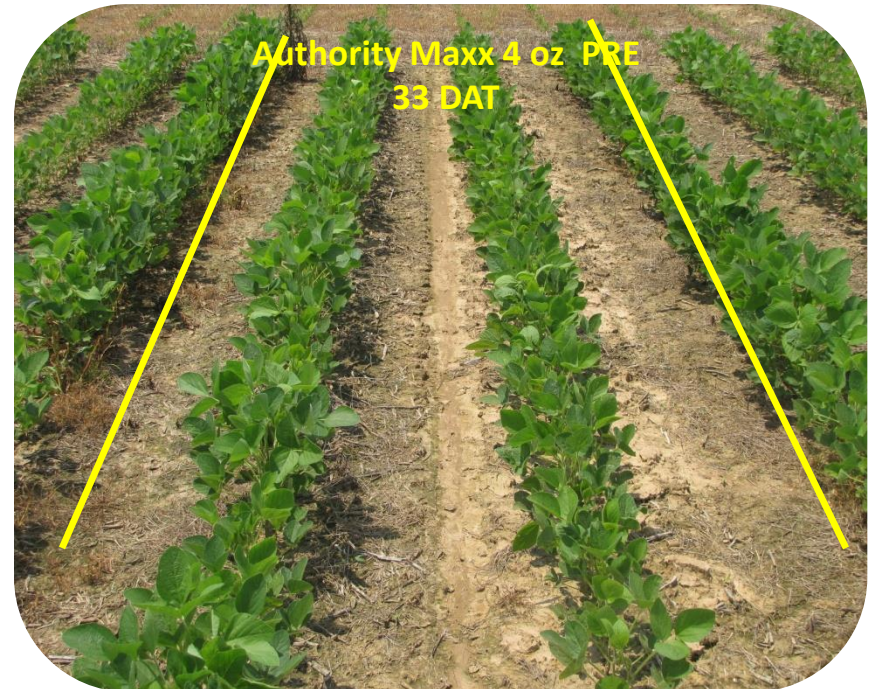
HERBICIDE



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Authority Maxx

- Soil applied herbicide for soybeans.
- Unique combination of 2 trusted and valuable weed control tools.
 - Sulfentrazone
 - Chlorimuron ethyl
- Sulfentrazone/chlorimuron premix
 - 16 to 1 ratio; 70% WG formulation
- Application volume
 - Minimum of 10 GPA by ground
 - Minimum of 5 GPA by air



	Authority XL	Authority Maxx
Ratio	8:1	16:1
Rate/acre formulated	4 oz	4 oz
Lbs. a.i. of SLZ/CE	.156/.019	.156/.0097





Marvel – Soybeans

- Pre & Post applied herbicide for soybeans
- Combination of 2 valuable weed control tools

- Fluthiacet-methyl (Cadet)
- Fomesafen
- 1:25 ratio, 3 lb/gal formulation

- Timing - Preplant –full flowering

- Rates Range

- 5 – 7.25 oz/A
- Target rate of 7.25 oz/A
- 35% ± less fomesafen

- Application volume

Minimum of 10 GPA by ground
Minimum of 5 GPA by air

Authority XL 4 oz/A PRE fb
Marvel 7 oz/A + Roundup 22 oz/A POST
20 DA POST App.



Most Economically Important Weeds	7.25 oz/Acre - Weeds 4" or Less		
	Marvel	Fomesafen	Cobra
Palmer Amaranth	E	E	E
Waterhemp	E	E	E
Lambsquarters	E	G	G
Velvetleaf	E	G	F
Cocklebur	G	E	G
Giant Ragweed	G	G	G
Common Ragweed	E	E	E
Morningglory	E	G	F
Crop Response			





Soybeans

- **Anthem[®] - pyroxasulfone + fluthiacet-methyl**
 - 2.15 lb/gal SE formulation
 - Use rate from 5 to 13 oz/A (avg. use rate 7 to 8 oz/A)
- **Application Timing – Preplant/Preemergence/Post**
 - **Preplant through V3** soybean stage; ground application only.
 - Apply in a tank mix with other post herbicides for broad-spectrum grass and broadleaf control .
- **Benefits**
 - **Long residual** performance; up to 2-4 weeks longer control
 - Broader spectrum residual control of broadleaves
 - Second post mode-of-action to make in-crop post applications more effective and reduce resistant weed selection.
 - **Low use rate**, easy mixing liquid formulation.
 - **Good crop safety**, No soil pH restrictions, No herbicide or insecticide interactions



**Competitive Pre with no Post
Glyphosate**



**Authority® Product *fb* Early Post
Anthem (Overlapping Residuals)**

Soil Type	Coarse	Medium	Fine
Post Use Rates			
– fl oz/acre	5 – 7	6 – 9	7 – 11.5



Key Rotational Crops For Southern Region

Crop	Anthem 2.15 SE Use Rate (oz/A)				
	3.25 Both Crops	6.5 Both Crops	9.75 Both Crops	11.4 Soybean Only	13 Corn Only
	Rotational Crop Interval (months after application)				
Alfalfa	10	10	10	10	10
Corn	0	0	0	0	0
Cotton	0	0	0	0	0
Peanut	4	4	4	4	4
Peas, field (dry)	4	6	6	8	8
Rice	10	12	18	24	24
Small grains (other than wheat)	11	11	11	18	18
Soybean	0	0	0	4	4
Sunflower	4	4	4	4	4
Wheat	4	4	4	6	6
*Other crops	18	18	18	18	18



*See Anthem label for full list of rotational crops.



- **Anthem Flex - pyroxasulfone + carfentrazone-ethyl**
 - 4 lb/gal SE formulation
 - Use rate from 1.25 to 4.25 oz/A
- **Pending Registrations**
 - Winter wheat label expected 2014
 - At-plant, delayed pre and early post
 - Control Italian ryegrass
 - Cotton label expected early 2015
 - Early PPL, PPI, PRE, and post-direct
 - Apply only on medium and fine soils
 - Peanut label expected 2016

Untreated



Anthem Flex
2.7 fl oz/A (90 g PYR/ha)



Registration Pending

Proctor, AR – 6/27/2013 PRE, 34 DAT



SILT LOAM Palmer amaranth

Cotoran – 1 qt/A



Dual II Magnum – 1.33 pt/A





Beleaf Quick Facts

Beleaf is now registered on pecans

- Active Ingredient: Flonicamid
- Unique Mode of Action, only chemical in IRAC Group 9C.
- Formulation: 50% SG (soluble granule)
- Use Rate: 2 – 2.8 oz/A – average rate 2.5 oz/A
- Active through contact and ingestion, effective on adults and nymphs. Stops aphid feeding in less than 30 minutes.
- PHI: 40 Days
- Signal word: 12 hr. REI

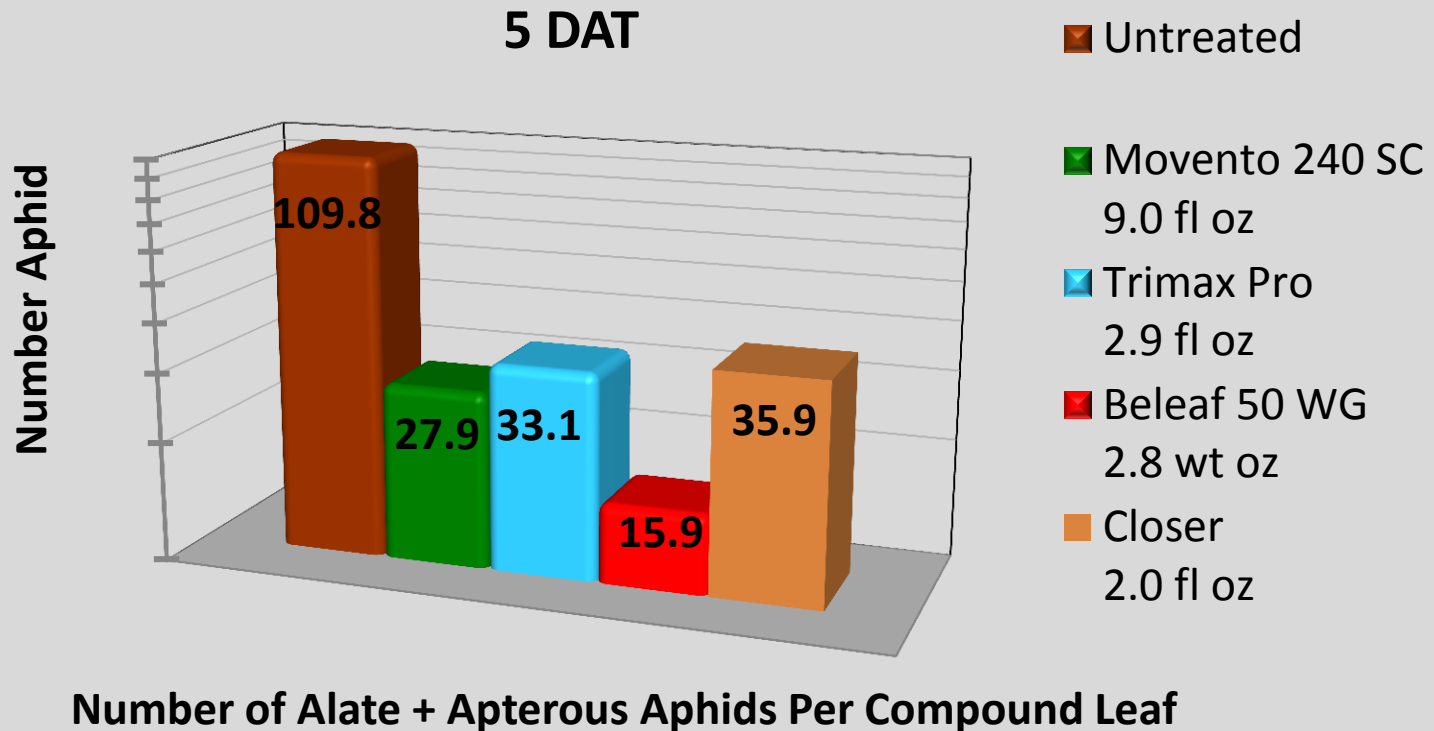


Beleaf – Pecans

Blackmargined Pecan Aphid

New Mexico State University, 2013

(Brad Lewis and Larry Blackwell)



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