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The Journey Forward

2009 FMC Sugarcane Product Update

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FMC

Agricultural Products Group



HERBICIDE



MUSTANG **MAX**®





Command 3ME

Sugarcane

- Late summer / early fall to newly planted cane
- Preemergent in spring through layby to newly planted or ratoon cane
- Rate: 1.0 to 1.25 lb ai/a (2.67 to 3.33 pt/a)
- Do not apply more than 1.25 lb ai/a per season
- 120 day PHI



AIM EC / Sugarcane Product Profile

- Broad spectrum for broadleaf weeds
- Contact herbicide (coverage essential)
- Adjuvant needed (NIS / COC)
- Rainfast in one hour
- Pre Plant Burndown, Postemergence, Directed Spray
 - Rates up to 2.0 oz/A
 - Not to exceed 6.6 oz/A per season
- Harvest aid
 - Rates up to 2.0 oz/a
 - Minimum of one per season
- 7 day PHI



Mustang Max / Sugarcane

- Provides control of sugarcane and Mexican rice borer.
- Apply as needed based on pest thresholds.
- Use rate: 3-4 oz/a not to exceed 16 oz per season
- 21 day preharvest interval (PHI).



HERBICIDE

Authority MTZ



- New soil applied herbicide for at-plant / layby for sugarcane.
- Unique combination of 2 long-trusted and valuable weed control tools.
 - Sulfentrazone (Authority, Spartan,)
 - Metribuzin (Sencor, Lexone)
- Sulfentrazone/metribuzin premix
 - 1:1.5 ratio, 45% DF formulation

Authority MTZ
Use Rate Program – Sugarcane
At-plant, Lay-by

Broadcast Rate (Oz/Acre)	Soil Texture		
	Coarse	Medium	Fine
% Organic Matter			
1-2%	16-20	20-26	26-30
2-4%	20-26	26-30	30-33

Use higher rates for soils of pH less than 7.0 and lower rates for pH greater than 7.0 within the rate range.

Product composition by rates

Equivalent Product Mix Chart

Authority MTZ 45DF	Sulfentrazone	Spartan 4F	Metribuzin	Metribuzin 75 DF
oz/A	lb ai/A	oz/A	lb ai/A	oz/A
20	0.23	7.4	0.34	7.3
22	0.25	8.0	0.37	7.9
24	0.27	8.6	0.41	8.7
26	0.29	9.3	0.44	9.4
28	0.32	10.2	0.47	10.0
30	0.34	10.9	0.51	10.9
32	0.36	11.5	0.54	11.5
33	0.37	11.9	0.56	11.9

Broadleaf Weed Control & Suppression



- **BROADLEAVES**

- Amaranth, Palmer
- Amaranth, spiny
- Mustard spp.
- Nightshade, eastern black
- Nightshade, hairy
- Nightshade, silverleaf
- Pigweed:
 - Redroot
 - Smooth
 - Tumble
 - Poorjoe
- Purslane, common
- Pusley, Florida
- Ragweed, common
- Senna, coffee
- Sesbania, hemp
- Sida, prickly (Teaweed)
- Smartweed, Pennsylvania
- Smellmelon
- Spurge, spotted
- Starbur, bristly
- Velvetleaf
- Waterhemp, common
- Waterhemp, tall
- Anoda, spurred
- Beggarweed, Florida
- Carpetweed
- Cocklebur, common
- Copperleaf, Hophornbeam
- Henbit
- Chickweed, common

Broadleaf Weed Control & Suppression



- **BROADLEAVES**

- Croton, tropic
- Daisy, American
- Dayflower, common
- Galinsoga, hairy
- Groundcherry, clammy
- Groundcherry, cutleaf
- Horseweed (Marestail)
- Jimsonweed
- Kochia
- Ladysthumb
- Lambsquarters, common
- Sheperdspurse
- Mexicanweed
- Morningglory:
 - Entireleaf
 - Ivyleaf
 - Palmleaf
 - Pitted*
 - Purple
 - Red
 - Smallflower
 - Tall
- Prickly lettuce
- Deadnettle, purple

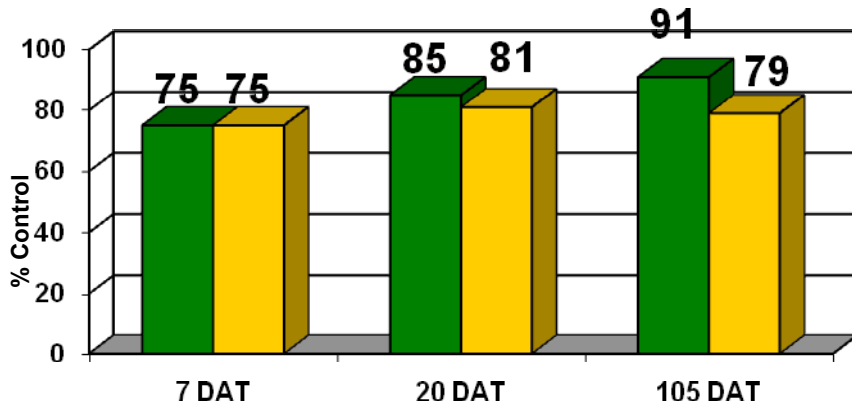
Grass Weed Control

- **Grasses** (Suppression Only)
 - Broadleaf signalgrass
 - Crabgrass, large
 - Crabgrass, smooth
 - Goosegrass
 - Johnsongrass, seedling
 - Orchardgrass
 - Panicum, fall
 - Panicum, Texas

- **Sedges**
 - Nutsedge, yellow
 - Nutsedge, purple
 - Sedge, annual



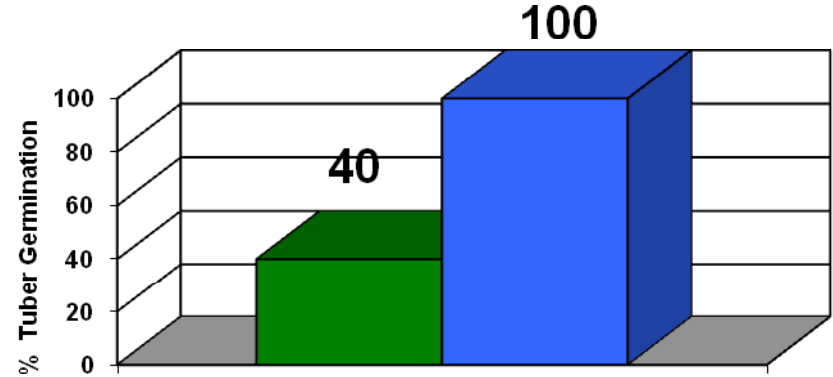
Spartan – Yellow Nutsedge Control



■ Spartan 8 oz/a ■ Spartan 12 oz/a

Data courtesy of Dr. Murphy, University of Georgia

“Residual Control by Tuber Reduction”



■ Spartan 12 oz/a ■ Control

Data courtesy of Dr. Brecke, University of Florida



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Thank You

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