



**Your First Line of Defense for  
Sustainable High-Yielding Southern Rice**

Command® 3ME Herbicide Technical Brochure

# COMMAND® 3ME HERBICIDE

## Your First Line of Defense

For stopping competitive annual grasses and weeds — especially those with the highest potential for herbicide resistance — no other product shares the reputation of Command® 3ME herbicide. Successful rice growers have relied on Command in their weed control programs in field after field, year after year. Command holds back weed pressure early for a clean seedbed, and goes on protecting tender rice seedlings in those first crucial weeks of stand establishment. This explains why Command maintains its standing as rice country's number one preemergence herbicide. Apply Command, the foundation herbicide for rice, before planting, at plant or early post as your first line of defense against tough weed competition.

### COMMAND TARGET WEEDS

- Barnyardgrass
- Broadleaf Signalgrass
- Crabgrass (Large, Smooth)
- Panicum (Common, Fall, Texas)
- Sprangletop Species

### WEED RESPONSE RATING FOR RICE HERBICIDES

Preemergence or Delayed Pre Product	Mode of Action	WEEDS					
		Barnyardgrass	Broadleaf Signalgrass	Crabgrass	Fall Panicum	Sprangletop (loosehead) (bearded sprangletop)	Sprangletop (tighthead) (Amazon)
Bolero® herbicide delayed pre	Lipid synthesis inhibitor	7	5	7	7	7	7
Command® herbicide pre/delayed pre	Pigment inhibitor	9	9	9	9	9	9
Facet® herbicide pre/delayed pre	Synthetic auxin	9	9	9	9	0	0
Prowl® herbicide delayed pre	Cell division inhibitor	8	6	8	7	6	6

Rating scale: 0=no control 10=100% control

### ***CROP SAFETY ASSURED***

No other preemergence rice herbicide combines the proven weed control and crop safety of Command. That's why university extension weed scientists and consultants recommend Command applications at the start of each year's rice production.

- Command has versatility to be applied preplant, at-plant or early post (up to five-leaf stage).
- Command is rated safe on germinating seed and rice seedlings (avoid direct contact with seed).
- Follow your seed supplier's advice as to seeding rate and soil temperature — no need to adjust practices for Command.

### ***COMMAND – LABELED CROPS***

- Rice
- Tobacco
- Soybeans
- Sugarcane
- Sweet Potatoes
- Vegetable crops (see label)
- Herb crops (see label)



# ASSISTING CLEARFIELD® RICE PRODUCTION

Herbicide resistance threat level — high. University studies have shown barnyardgrass to be the number one competitive weed in Southern rice. If you grow rice, you know how difficult barnyardgrass is to control. Wherever it gains a foothold, barnyardgrass challenges every control effort, stealing nutrients, water and sunshine needed for maximum rice yields. University weed scientists have confirmed discoveries of barnyardgrass plants with resistance to most of the herbicides used in rice production. Unchecked, resistant plants mean expanding resistant populations.

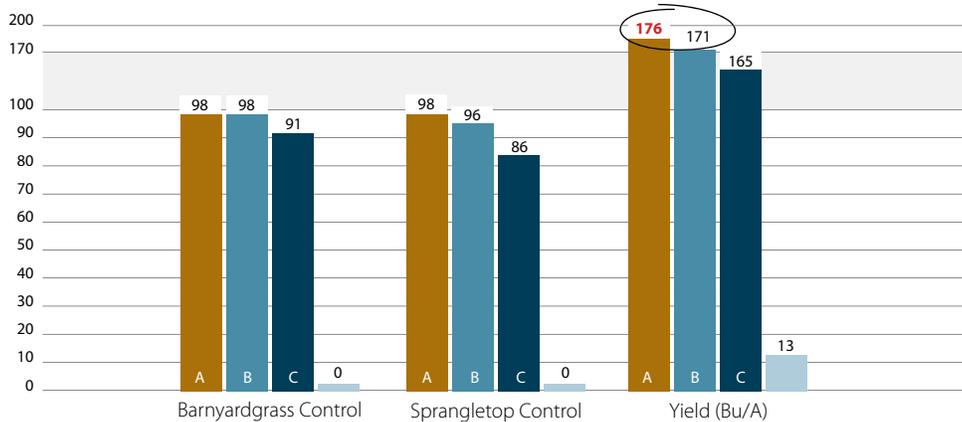
Barnyardgrass resistance to the herbicide products used in Clearfield® rice production is of particular concern. Fortunately, proven weed management practices are available that effectively slow the spread of resistant weeds. University and industry advocates are urging rapid adoption of resistance management practices, to enable rice growers to maintain the weed control necessary for high yielding rice fields.

Command® is a strategic asset for a planned rice weed resistance management program. This is because the mode of action (MOA) in Command controls weeds differently than other products. Applying

Command early, followed by applications of postemergence products with other MOA's will improve weed control, reducing the development of resistance. By applying Command early, and utilizing other resistance management practices when they can, growers can extend the useful life of the Clearfield rice technology.

Weed management has become more challenging as weed species are developing resistance to the established herbicide products for rice. Command can help growers stay ahead of this threat. Use a full rate or split Command applications early in a program approach, followed up with timely applications of recommended postemergence herbicide products.

## COMMAND 3ME IN A CLEARFIELD RICE HERBICIDE PROGRAM



### TREATMENT REGIME A

- 1st appl'n: Command® 3ME herbicide 1.1 pt/A PRE
- 2nd appl'n: NewPath® herbicide 4 oz/A + NIS .25% v/v 1-2 leaf
- 3rd appl'n: NewPath 4 oz/A + NIS 0.25% v/v 4-5 leaf

### TREATMENT REGIME B

- 1st appl'n: NewPath 4 oz/A + NIS .25% v/v 1-2 leaf
- 2nd appl'n: NewPath 4 oz/A + NIS 0.25% v/v 4-5 leaf

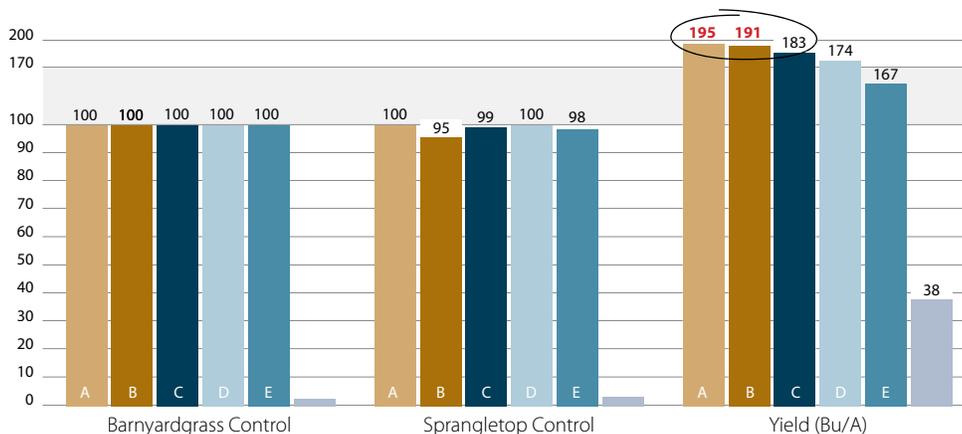
### TREATMENT REGIME C

- 1st appl'n: NewPath 4 oz/A PRE + NIS .25% v/v PRE
- 2nd appl'n: New Path 4 oz/A + NIS 0.25% v/v 4-5 leaf

### UNTREATED

Data courtesy of University of Arkansas. Trial from Rowher Research Station, Rowher, AR, 2005; Dr. Ken Smith, SEREC, UA Cooperative Extension Service.

## COMMAND 3ME IN A CLEARFIELD RICE HERBICIDE PROGRAM Clearfield Hybrid Variety, No-Till Situation



### TREATMENT REGIME A

- 1st appl'n: Command® 3ME herbicide 1.1 pt/A PRE
- 2nd appl'n: NewPath® herbicide 4 oz/A + NIS .25% v/v 1-2 leaf
- 3rd appl'n: NewPath 4 oz/A + NIS .25% v/v 4-5 leaf

### TREATMENT REGIME B

- 1st appl'n: Command 3ME 1.1 pt/A PRE
- 2nd appl'n: NewPath 4 oz/A + NIS .25% v/v 1-2 leaf
- 3rd appl'n: NewPath 4 oz/A + NIS .25% v/v 4-5 leaf

### TREATMENT REGIME C

- 1st appl'n: Beyond® herbicide 5 oz/A + NIS .25% v/v 1-2 leaf
- 2nd appl'n: Beyond 5 oz/A + NIS .25% v/v 4-5 leaf

### TREATMENT REGIME D

- 1st appl'n: NewPath 4 oz/A + NIS .25% v/v PRE
- 2nd appl'n: NewPath 4 oz/A + NIS .25% v/v 4-5 leaf

### TREATMENT REGIME E

- 1st appl'n: NewPath 4 oz/A + NIS .25% v/v 1-2 leaf
- 2nd appl'n: NewPath 4 oz/A + NIS .25% v/v 4-5 leaf

### UNTREATED

Data courtesy of University of Arkansas. Trial from Lonoke Research Center, Lonoke, AR, 2006; Dr. Bob Scott, CS-E-E, UA Cooperative Extension Service.

Weed resistance to rice herbicides is a current and escalating threat. Nevertheless, university weed science research is showing how to manage this issue using our existing, available products, including Command. But along with using the products as directed, there are various tactics necessary to restore control and stay ahead of herbicide resistance. The first, important concept is to start clean. This strategy of starting clean plays to the strength of Command herbicide. Applying Command preemergence controls early annual grasses before they emerge. This is the road to establishing a rapidly growing, weed-free rice field. Preventing weeds from getting established allows later applications of postemergence products to perform better, and reduces risks of falling behind when inclement weather hits. And numerous studies show that controlling weeds early through a planned approach is also more economical.

#### **OTHER TACTICS INCLUDE:**

- After starting clean with Command, stay clean with timely herbicide applications until permanent flood.
- Overlap residuals.
- Apply post products to small weeds.
- Select herbicide products with different modes of action for use in sequential treatments.
- Tank mix products with differing modes of action.
- Use full recommended product use rates.
- Crop rotation.

#### **BARNYARDGRASS RESISTANCE MANAGEMENT TACTICS**

Barnyardgrass is the primary weed management concern among rice growers, and the spread of resistant strains has stepped-up this concern.

New scientific insights and management tactics are being promoted for effective weed resistance management. Command herbicide used early enables growers to “start clean,” with a unique mode of action that helps strengthen a planned, season-long weed management program.



#### **CLEARFIELD RESISTANCE MANAGEMENT TACTICS**

Command brings preemergence power when applied as the foundation herbicide in a Clearfield rice program. Use Command on every Clearfield acre to protect your investment:

- Use Command to prevent early annual grass emergence.
- Use Command to help the postemergence products control tough barnyardgrass pressure.
- Use Command for sprangletop control.
- Use Command and other non-ALS mode of action herbicides, along with the imidazolinone or “Imi” products, to help prevent resistance. Only use “Imi” herbicides on Clearfield varieties of rice.



# APPLICATION



Command® is versatile. It controls a broad spectrum of grasses in a wide variety of soils, and is suited for use in conventional tillage or reduced tillage systems.

- Command can be applied preplant, at-plant or early postemergence.
- Aerial application of Command on rice is authorized under State Section 24c labeling.
- Command is labeled for split applications.
- Command may be tank mixed with other rice herbicide products.

Most Command applications are made as a single shot preplant, at plant or early post. Another option for Command application in conventional and Clearfield® rice is a split application. Splitting Command use allows the benefits of protecting the rice seedlings from early germinating annual grasses, along with extended residual control from the second application. FMC recommends tank mixing

Command with products bringing different modes of action in the second application, consistent with weed resistance management principles. When tank mixing, read and follow label directions for all products used.

## **PROPER APPLICATION IS CRUCIAL**

- Proprietary capsule suspension technology greatly reduces volatility and potential for off-target effects.
- Proper stewardship by Command users is an important responsibility. Please review all relevant regulations (Federal, State and local), and read and follow all label directions.
- Please contact your FMC representative if you become aware of any safety or environmental incident involving Command herbicide.

Drift control is critical in minimizing incidents, regardless of which pesticide product is being used. Applicators must strictly adhere to all product label directions with every crop protection product use.

## **WHAT PEOPLE ARE SAYING:**

"Find a way to rotate Command, quinclorac, Prowl® and the Bolero® products in the Clearfield program. With that said, I still believe the use of Command will be the glue that holds it all together."

**- Ford Baldwin, Ph. D., Delta Farm Press**

"You just have so many options with Command. When Command is applied and managed properly, a lot of these weed issues that we've dealt with in the past are just not there anymore. . . . Most everyone in the rice industry knows just a few sprigs of barnyardgrass or any type of grass can really be detrimental to your yield. When we have Command in our program, it actually lowers our herbicide cost for the year. . . . If I had to pick one herbicide and only use one in my operation, it would be Command."

**- Edward Greer, Louisiana rice grower**

### COMMAND 3ME HERBICIDE APPLICATION RATES

<b>SOIL TEXTURE</b>	<b>BROADCAST RATES PER ACRE*</b>
Coarse (light) Soils: (sand, loamy sand, sandy loam)	11–14 oz (0.25–0.33 lb ai)
Medium Soils: (loam, silt, silt loam, sandy clay, sandy clay loam)	17–21 oz (0.4–0.5 lb ai)
Fine (heavy) Soils: (silty clay, clay loam, silty clay loam, clay)	21–34 oz (0.5–0.8 lb ai)

\*Select lower to higher rates based on lighter to heavier soils



Since 2000, Command herbicide has proven and re-proven its value in rice. Command leads the charge as rice growers' foundation herbicide, with a critical role in weed resistance management, especially in Clearfield rice. And with versatile application preplant, at-plant or early postemergence, the most important mission of Command is in controlling yield-robbing grasses. "Mission Accomplished" in this battle translates to one primary benefit — sustaining high yields.

Access product label and MSDS online at [FMCcrop.com/Command](https://www.fmc-crop.com/Command).

Active ingredient: Clomazone

For more information about Command herbicide contact your FMC Star Retailer, call **888-59-FMC-AG** or visit **FMCcrop.com**.



**For more information:**

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**FMC Corporation**

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