

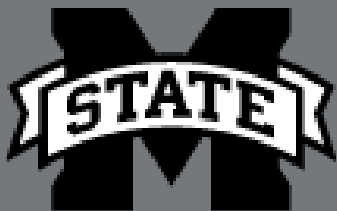
Weed Management in Mississippi Row Crops

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Acknowledgment

- ADAMA USA
- AMVAC Chemical
- BASF Corporation
- Bayer CropScience
- Corteva Agrisciences
- FMC Corporation
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- Helm Agro

- Horizon Ag
- Invictus
- Nufarm
- Nutrien Ag Solutions
- Summit Agro
- Syngenta Crop Protection
- United Phosphorus, Inc.
- Valent USA Corporation



2021 Weed Control Issues

- Weather (Ice in winter and flooding in summer)
- Italian ryegrass control
- Bog yellowcress control in burndown and in crop
- Off-target movement and misapplication
- Herbicide pricing and sourcing



Freeze/Ice Influence on Burndown



Summer Flooding



Italian Ryegrass Control



FIFRA 24(c) Special Local Need Label

EPA SLN No.: MS-210002
EPA Reg. No. 279-3158

FOR DISTRIBUTION AND USE
ONLY IN MISSISSIPPI

This label for Command® 3ME Microencapsulated Herbicide is valid until November 15, 2026, or until withdrawn, canceled or suspended.

Control Resistant Italian Ryegrass In Fallow Crop DIRECTIONS FOR USE

THESE USE DIRECTIONS MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION.

FALLOW APPLICATION:

Command 3ME microencapsulated herbicide may be used as a residual preemergence treatment to control resistant Italian ryegrass during the fallow period following crop harvest and before the following crop is planted.

Application rates:

26 to 42.7 fl. ounces per acre (0.6 to 1.0 lbs ai/A)

Application timing and volume:

Apply prior to Italian ryegrass emergence in the fallow period of October 1st through November 15th. If Italian ryegrass is already present, include a post-emergence grass herbicide with the application. Apply by ground only in a minimum of 10 gallons of finished spray per acre.

RESTRICTIONS:

- **DO NOT** apply more than a maximum cumulative amount of 53.3 fl oz/A (1.25 lb ai/A of clomazone) of Command 3ME microencapsulated herbicide or any product containing clomazone in a 12-month period.
- **DO NOT** apply to fallow fields in which concurrent crayfish or catfish farming is included in the cultural practices.

Observe all buffer restrictions noted in the Command 3ME microencapsulated herbicide in the Application Precautions section below.



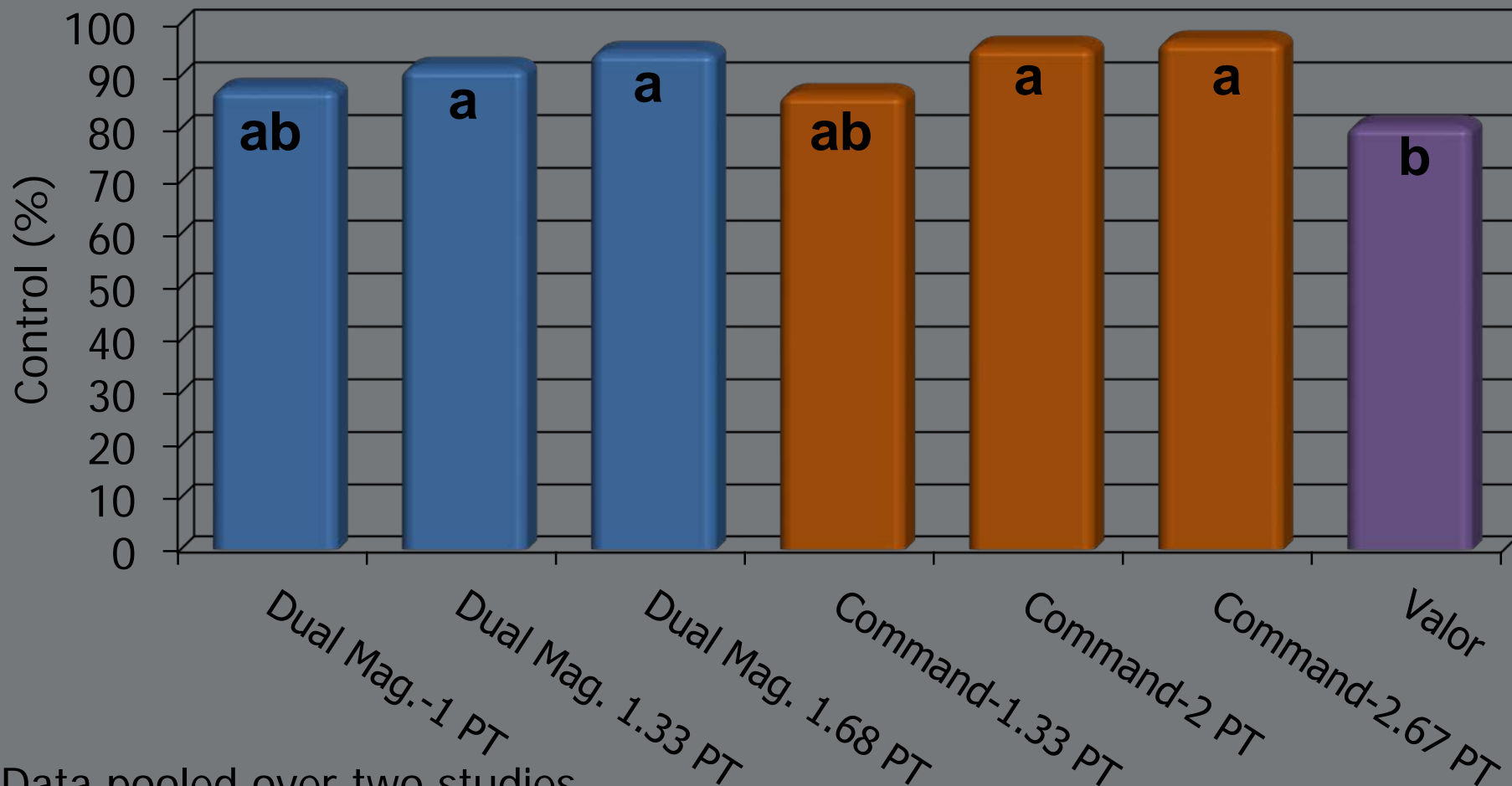
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Italian Ryegrass Control

GR Italian ryegrass control 140 days after application of fall residual herbicide treatments

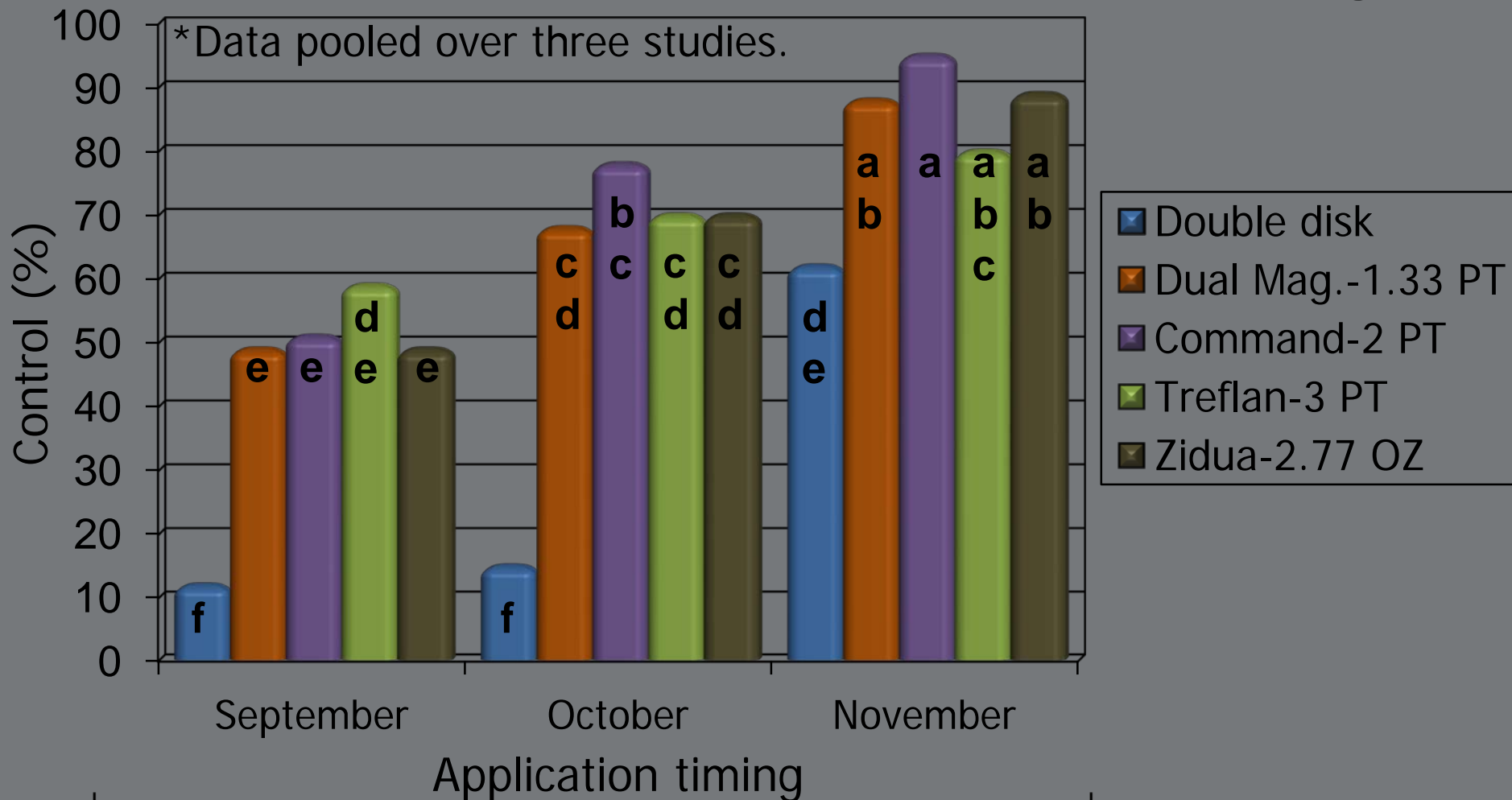


*Data pooled over two studies.



Italian Ryegrass Control

GR Italian ryegrass control in early-March with residual herbicides applied at different timings



September

October

November



Command at 2.67 PT/A



Dual Magnum at 1.33 PT/A



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Bog Yellowcress

- Family: *Brassicaceae*
- Name: *Rorippa palustris* var. *fernaldiana*
- Life cycle: Annual or biennial
- Plant: Branched; ≤ 3 ft; alternate leaves
- Synonyms: bog marshcress, common yellowcress, marsh yellowcress



Bog Yellowcress



Bog yellowcress:

- *Rorippa palustris*
- Lobed leaf margins
- Multiple varieties, but *fernaldiana* mostly in MS.



Stalkless yellowcress:

- *Rorippa sessiliflora*
- Wavy leaf margins
- Less variable than bog yellowcress

Bog Yellowcress Burndown



Paraquat + metribuzin



Command in fall



Glyphosate + Elevore



Glyphosate +
Sharpen

Bog Yellowcress In Crop

Glypohsate + Prefix



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Herbicide Pricing and Sourcing

Farmers prepare for herbicide shortage

Crowded ports and storm damage are making crop chemicals hard to get

By Matt Davis
November 3, 2021 | A version of this story appeared in Volume 99, Issue 41

Farmers in the US are preparing for a shortage of herbicides next year, including glyphosate, the most commonly used herbicide in the US.

Jeff Bunting, who leads the crop protection division at the agricultural retailer Growmark, says his company has been struggling to get enough glyphosate for months. In late August, Hurricane Ida damaged a Bayer facility in Louisiana that makes glyphosate. That facility is now back to full capacity, but Bunting says other problems still plague the industry.

"It might be the cardboard box, or it might be the plastic jug," he says. "It might even be that little piece of aluminum foil that's on those jugs that could be in tight



The Hidden Danger of Historic U.S. Herbicide Shortages

By Jackie Pucco | November 23, 2021

A thirty-percent shortage, give or take, of two of the country's most heavily used herbicides — glyphosate and glufosinate — is the supply situation U.S. growers and retailers face in 2022, according to some agronomists and industry insiders with whom we spoke for this article.



"I've been in the business since 1971, either working in retail or with Syngenta. I've never seen a time when chemicals were short. This is historic," Phil Krieger, Agronomy Service Representative at Syngenta, says.

Ironically, it's a tunnel-vision focus on the shortages that most worries Dr. Leslie Hogle, Branded Technologies Data Manager with Wilbur ELLS.

She calls attention to the dangers in the "hungry hippo approach."

"Inadvertently placing resistance management in the back seat is probably the greatest risk we run, because we're so focused on what's going to be thinking of resistance management."

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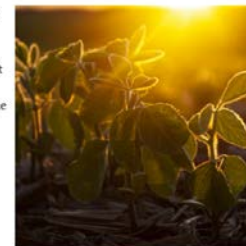
Home - Crops - Soybeans

HERBICIDE SHORTAGES THAT SURFACED IN 2021 MAY NOT BE RESOLVED IN 2022

By Gil Gullickson
11/3/2021

Planting a herbicide-tolerant trait without being able to apply a matching postemergence herbicide is akin to throwing a party and not inviting the guest of honor. Yet, that's what some farmers faced in 2021 when they couldn't access the herbicide they wanted.

"In general, there were shortages of products, such as glyphosate (Group 9) and glufosinate (Group 10)," says Phil Krieger, Syngenta agronomy service representative. "There were times when you could not pick them up [chemicals] from the retailer the way you used to."



Herbicide shortages likely won't get any better in 2022. "This is probably not going to

HOME > CROPS > WEED CONTROL WORKAROUNDS FOR HERBICIDE SHORTAGES

Herbicide Shortage Workarounds

Weed Control Workarounds for Herbicide Shortages

11/2/2021 | 5:00 AM CDT

By Emily Unglesbee, DTN Staff Reporter
Connect with Emily:
@Emily_Unglesbee



ROCKVILLE, Md. (DTN) -- Chemical shortages and price spikes are complicating weed control for farmers this fall and next spring.

Fortunately, university weed scientists have been working to help farmers create weed control programs that work around shortages of key herbicides such as glyphosate, glufosinate (Liberty) and 2,4-D. We've pulled together these pieces here, for quick reference.

FALL WEED CONTROL WITHOUT GLYPHOSATE

Perhaps the biggest challenge for many growers tackling fall burndowns and looking ahead to spring burndowns is the prospect of farming without glyphosate -- the country's most commonly used herbicide.

What is your plan to control weeds this fall and next spring with certain key herbicides in short supply, such as glyphosate and glufosinate? Weed scientists have some recommendations to consider. (DTN photo by Pamela Smith)

Ohio State University weed scientist Mark Loux jumped on this topic early. Loux's two-part series, "Life in a Time of Glyphosate Scarcity" focuses first on weed control in no-till wheat and then more generally on fall burndowns. He discusses rate lowering, as well as alternative herbicide options, such as dicamba, metribuzin or simazine and certain ALS herbicides. See both stories here: <https://agcrops.osu.edu/...> and here: <https://agcrops.osu.edu/...>

This past Ohio State University article on fall-applied herbicides also lists non-glyphosate options, Loux noted.

AGWEB News Markets Weather Opinion Topics Events Video

CROP PRODUCTION

Will Fertilizer and Herbicide Prices Fall Before Spring? Why Experts Say It's Highly Unlikely



Battle for Inputs 111721

By TYNE MORGAN November 22, 2021

The supply chain constraints are continuing to plague agriculture, and as farmers make input decisions for the 2022 season, economists expect high input prices through spring. One major reason for the severe supply chain constraints is 75% of the active ingredients and crop protection chemicals comes from China. Despite President Biden and China's Xi Jinping holding a closely watched virtual summit last week, the supply chain issues weren't discussed. As AgWeb has reported, prices are up anywhere from 100% to 300% in areas, and that's if you can even

Geopolitical Issues at Play

BACK



Managing weeds without key herbicides

By Julia Marker
Nov 30, 2021 | 11:13 AM

A huge concern of growers is the expected shortage of key herbicides for next year.

MU Weed Scientist Dr. Kevin Bradley says he's heard concerns his entire career about potential herbicide shortages.

"This one's not potential. This one's real and it could really impact our weed management programs in 2022."

He says growers will have to use residuals in both corn and soybean but, certainly, soybean is the number one thing that I think we're going to have difficulty with.



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Herbicide Pricing and Sourcing

1995 Weed Control Guidelines for Mississippi

Soybeans, Continued

Estimated Levels of Weed Control Normally Expected with Soybean Herbicides^a (continued)

Herbicides	Weeds	Barrygrass	Broadleaf signalgrass	Crabgrass	Goosegrass	Seeding Johnsongrass	Rhizome Johnsongrass	Fall panicum	Cocklebur	Entireleaf morningglory	Pitted morningglory	Palmleaf morningglory	Smallflower morningglory	Purple moonflower	P. smartweed	Hemp scabania	Prickly sida	Spurred anoda	Pigweed	Balloonyine	Texas gourd	Sicklepod	Cutleaf groundcherry	Common ragweed	Annual Sedge	Yellow nutsedge	Velvetleaf	Jimsonweed	Red rice	Spurge	Hopbushbeam copperleaf	Shoary crotonaria	Wild poinsettia	Crop tolerance	
Preemergence																																			
Broadstrike + Dual		8	8	9	9	6	0	9	7	7	7	7	8	-	9	9	0	9	8	9	9	-	7	9	7	7	9	8	7	8	7	-	9	G	
Canopy		7	6	7	7	7	3	7	9	8	8	8	9	6	10	9	9	0	9	9	9	7	8	8	8	8	8	8	8	8	8	8	8	8	G
Command		9	9	9	9	9	3	8	6	4	7	6	6	3	9	8	4	0	9	4	0	4	0	9	4	0	5	-	10	9	7	8	8	G	
Dual		8	8	9	9	6	0	9	0	0	0	0	0	0	9	4	0	4	0	9	9	-	3	9	3	4	4	8	3	-	-	-	-	C	
Frontier		8	9	9	9	6	0	9	0	0	0	0	0	0	9	4	0	4	0	9	9	-	0	0	0	0	0	5	9	4	5	9	-	C	
Lasso		8	8	9	9	6	0	9	0	0	0	0	0	0	9	4	0	4	0	9	1	3	4	-	5	5	9	3	4	4	8	3	5	-	C
Scepter		7	7	7	5	7	2	5	9	6	8	8	8	5	9	9	3	9	7	10	5	9	5	5	7	4	9	6	8	5	6	7	7	7	C
Sencor/Lexone		8	6	8	7	5	0	7	6	2	7	2	8	8	9	9	9	9	9	9	9	9	2	9	8	8	8	4	4	9	9	7	7	7	F
Squadron		7	7	7	6	8	0	7	9	6	8	8	8	5	9	9	9	8	6	10	4	9	5	9	7	4	9	6	8	5	6	7	7	7	C
Turbo		8	8	8	8	6	0	8	5	3	7	7	8	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	F
Zorial		8	8	8	8	8	2	7	4	4	5	5	4	4	9	5	4	8	7	8	8	-	5	-	4	9	7	-	8	-	9	-	6	F	
Zorial (Split)		8	8	8	8	8	3	8	4	5	6	5	4	4	9	6	5	8	8	9	-	-	-	-	-	5	7	-	7	-	-	-	-	F	
Postemergence-OT																																			
Assure II		8	9	8	8	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	G
Basagran		0	0	0	0	0	0	0	9	2	6	7	9	3	7	9	4	8	8	5	8	0	0	6	9	6	8	9	8	-	0	0	0	0	G
Basagran + 2,4-DB		0	0	0	0	0	0	0	9	5	8	9	9	5	7	9	5	8	0	0	6	9	6	-	9	8	-	9	8	-	0	0	0	0	F
Blazer		3	4	3	3	3	2	2	5	8	9	8	8	8	7	9	1	2	8	8	8	3	5	-	8	2	7	8	9	7	8	9	7	8	G
Blazer + 2,4-DB		3	4	3	3	3	2	2	7	8	9	8	8	8	7	9	1	2	8	8	7	3	9	8	-	8	2	7	8	9	7	8	9	F	
Bugle		8	9	7	8	8	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	F
Classic		0	0	0	0	0	0	0	9	8	8	8	8	8	9	5	8	9	2	4	0	5	6	7	-	8	6	8	9	0	0	4	-	8	F
Cobra		4	4	4	3	3	2	3	8	8	8	8	8	9	6	9	8	9	2	4	0	5	6	7	-	8	6	8	9	0	0	4	-	8	F
Fusilade		8	8	8	8	8	2	3	8	8	8	8	8	9	6	9	8	9	2	4	0	5	6	7	-	8	6	8	9	0	0	4	-	8	F
Post Plus		8	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	G
Pursuit		7	7	7	5	8	6	7	9	7	9	8	9	6	-	7	0	6	10	4	4	0	-	6	7	8	7	9	4	7	2	0	0	0	G
Reflex		3	3	3	3	3	2	2	8	8	8	8	8	8	7	9	2	2	2	9	8	-	3	9	8	6	6	7	-	9	0	5	8	8	F
Scepter		2	2	3	3	3	2	2	8	8	8	8	8	8	7	9	2	2	2	9	8	-	3	9	8	6	6	7	-	9	0	5	8	8	F
Scepter-OT		2	2	3	3	3	2	2	8	8	8	8	8	8	7	9	2	2	2	9	8	-	3	9	8	6	6	7	-	9	0	5	8	8	F
Select		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	G
Storm		3	4	3	3	3	0	2	9	8	9	9	7	8	8	9	7	7	8	8	8	7	2	9	6	8	8	8	0	6	7	9	6	6	G
Postemergence-Dir																																			
2,4-DB		0	0	0	0	0	0	9	9	9	9	9	9	3	0	3	3	2	2	1	2	0	0	1	0	-	3	4	0	0	2	-	3	G	
Gramoxone ^d		9	9	9	8	8	0	8	4	5	4	6	7	4	8	5	1	4	3	8	2	2	8	7	8	3	-	6	7	9	5	7	-	8	G
Lorox		7	7	8	7	7	0	7	7	8	8	8	8	8	7	8	7	8	8	8	8	-	7	8	8	-	6	7	6	7	7	-	7	G	
Lorox + 2,4-DB		7	7	8	7	7	0	7	7	9	10	9	10	9	9	7	8	8	8	9	5	9	10	9	2	-	7	8	6	7	9	-	8	G	
Sencor/Lexone		7	7	8	7	7	0	-	8	7	7	7	7	7	7	8	8	8	8	8	8	7	7	7	0	-	8	-	8	-	4	-	-	5	G
Sencor + 2,4-DB		7	7	8	7	7	0	-	9	9	9	9	9	8	3	7	7	8	8	8	8	9	8	8	0	-	8	7	8	4	8	-	7	G	

^a Rating scale: 0-3 none to slight; 4-6 fair; 7-8 good; 9-10 excellent. Ratings assume the herbicides are applied in the manner suggested in the guidelines and according to the label under optimum growing conditions.

^b An overlay treatment with the preemergence herbicides will control a broader spectrum of weeds, but the effectiveness on any given species may be no better than the highest rating for the best herbicide in the specific combination selected.

^c Control of grasses may be reduced on fine-textured soils.

^d Two applications.

Estimated Levels of Weed Control Normally Expected^a

Herbicides ^b	Barrygrass	Broadleaf signalgrass	Crabgrass	Goosegrass	Fall panicum	Johnsongrass-seedling	Johnsongrass-rhizome	Bermudagrass	Nutsedge - purple	Nutsedge - yellow	Annual sedge	Cocklebur	Hemp Scabania	Honeyvine milkweed	Annual morningglory	Pigweed	Prickly sida	Purslane	Smartweed	Spurred spurge	Spurred anoda	Velvetleaf	Sicklepod	Crop tolerance	
Preplant																									
Prowl	9	9	9	9	9	9	5	0	0	0	0	0	0	0	3	9	0	9	2	1	0	0	1	G	
Trifluralin	9	9	9	9	9	9	6	0	0	0	0	0	0	0	3	9	0	9	2	1	0	0	1	G	
Zorial (PPI or Split)	9	8	9	8	8	8	3	3	5	5	9	4	3	0	6	9	9	9	6	7	8	7	5	G	
Overlay (PPI + PRE) Treatment will control a broader spectrum of weeds but effectiveness on any given species will be no better than the highest rating for the best herbicide in the specific combination selected.																									
Preemergence																									
Command	9	9	9	9	9	8	9	3	-	-	-	-	6	4	-	5	7	9	9	8	8	9	10	0	F
Fluometuron	8	8	9	8	7	6	0	0	0	0	9	6	6	0	7	9	9	9	7	3	3	3	8	G	
Cotoran + Dual	9	9	9	9	9	7	0	0	0	7	9	6	6	0	7	9	9	9	7	7	3	3	8	G	
Diuron	7	8	8	8	7	6	0	0	0	9	4	4	0	7	9	6	9	7	6	2	7	5	G		
Zorial	8	8	8	8	7	7	2	2	4	4	9	3	0	5	7	9	9	6	7	8	7	4	0	F	
Zorial + Bladex	7	7	8	7	6	6	2	2	3	3	8	4	4	0	6	7	8	9	6	8					

Herbicide Pricing and Sourcing

1995 Weed Control Guidelines for Mississippi

Soybeans, Continued

Estimated Levels of Weed Control Normally Expected with Soybean Herbicides^a (continued)

Herbicides	Weeds		Vegetable						
	Barryndgrass	Smartweed	Jimsonweed	Red rice	Spurge	Hopbroom coperleaf	Showy crotonaria	Wild poinsettia	Crop tolerance (G = Good, F = Fair)
Zonal (Split)									
Postemergence-OT									
Assure II	8	8	8	8	7	8	7	-	9 G
Basagran	8	8	8	8	8	8	8	-	8 G
Basagran +2,4-DB	8	8	8	8	8	8	8	-	9 G
Blazer	8	8	8	8	8	8	8	-	9 G
Blazer +2,4-DB	8	8	8	8	8	8	8	-	9 G
Bugle	8	8	8	8	8	8	8	-	9 G
Classic	8	8	8	8	8	8	8	-	9 G
Cobra	8	8	8	8	8	8	8	-	9 G
Fusilade	8	8	8	8	8	8	8	-	9 G
Poast Plus	8	8	8	8	8	8	8	-	9 G
Pursuit	8	8	8	8	8	8	8	-	9 G
Reflex	8	8	8	8	8	8	8	-	9 G
Sceptor	8	8	8	8	8	8	8	-	9 G
Sceptor-OT	8	8	8	8	8	8	8	-	9 G
Select	8	8	8	8	8	8	8	-	9 G
Storm	8	8	8	8	8	8	8	-	9 G
Postemergence-Dir									
2,4-DB	0	0	0	0	0	0	0	0	0 G
Gramoxone ^d	9	9	9	9	9	9	9	9	9 G
Lorox	7	7	7	7	7	7	7	7	7 G
Lorox + 2,4-DB	7	7	7	7	7	7	7	7	7 G
Sencor/Lexone	7	7	7	7	7	7	7	7	7 G
Sencor + 2,4-DB	7	7	7	7	7	7	7	7	7 G

^a Rating scale: 0-3 none to 4-6, and according to the label under option b. See Glossary for trade names.

^b An overlay treatment with species may be no better than the highest rating for the best herbicide in the specific combination selected.

^c Control of grasses may be reduced on fine-textured soils.

^d Two applications.

applied in the manner suggest-

effectiveness on any given

d.

Estimated Levels of Weed Control Normally Expected^a

Herbicides ^b	Weeds		Vegetable						
	Barryndgrass	Smartweed	Spurred spurge	Spurred amida	Velvetleaf	Sicklepod	Crop tolerance		
Postemergence-directed									
Bladex	9	9	9	9	9	9	9	9	9 G
+ MSMA	9	9	9	9	9	9	9	9	9 G
Cobra	9	9	9	9	9	9	9	9	9 G
+ MSMA	9	9	9	9	9	9	9	9	9 G
Prometryn	9	9	9	9	9	9	9	9	9 G
+ MSMA	9	9	9	9	9	9	9	9	9 G
Fluometuron	9	9	9	9	9	9	9	9	9 G
+ MSMA	9	9	9	9	9	9	9	9	9 G
DSMA or MSMA	9	9	9	9	9	9	9	9	9 G
Goal	9	9	9	9	9	9	9	9	9 G
+ MSMA	9	9	9	9	9	9	9	9	9 G
Diuron	9	9	9	9	9	9	9	9	9 G
+ MSMA	9	9	9	9	9	9	9	9	9 G
Postemergence-over-the-top	9	9	9	9	9	9	9	9	9 G
Assure II	9	9	9	9	9	9	9	9	9 G
Fusilade	9	9	9	9	9	9	9	9	9 G
Poast Plus	9	9	9	9	9	9	9	9	9 G
Select	9	9	9	9	9	9	9	9	9 G
Bugle	9	9	9	9	9	9	9	9	9 G
Layby-preemergence activity	9	9	9	9	9	9	9	9	9 G
Bladex	9	9	9	9	9	9	9	9	9 G
Diuron	9	9	9	9	9	9	9	9	9 G

^a Rating scale: 0-3, none to slight; 4-6, and according to the label under option b. See Glossary for trade names.

^b See Glossary for trade names.

in the manner suggested in the guidelines d, F - fair.



Herbicide Pricing and Sourcing

Comparison of herbicide programs in Xtend soybean with and without dicamba and glyphosate

Timing	With glyphosate and dicamba	Without glyphosate; with dicamba	Without glyphosate and dicamba
Burndown	Glyphosate + 2,4-D + Select Max	2,4-D + dicamba + Select Max	2,4-D + dicamba + Select Max
Preplant		Paraquat + Authority Elite	Paraquat + Authority Elite
PRE	Paraquat + Boundary	Paraquat + Boundary	Paraquat + Command + metribuzin
POST 1	Glyphosate + Engenia + Zidua	Engenia + Python + Zidua	Prefix
POST 2	Glyphosate + Engenia	Select Max	Select Max
POST 3		Engenia + Assure II + Outlook	Cobra + Outlook



Cultural/Mechanical Control

- Variety selection
- Row width
- Seeding rate
- Soil fertility
- Irrigation
- Planting date
- Crop rotation
- Tillage
- Hand weeding



Roundup WeatherMax



Halex GT + atrazine



Sequential Residual Herbicides

- The easiest growth stage for Palmer amaranth control is before emergence.
- Overlay residual herbicides to stay ahead of the problem.

Nontreated



Cotoran – 1.5 PT/A



**Reflex –1 PT/A fb
Cotoran – 1.5 PT/A**



Glufosinate Applications



Nontreated



Liberty 280 – 1 application



Liberty 280 – 2 applications



PRE fb Liberty – 2 applications

Key Points to Remember

- Command at 1.33 PT/A will control Italian ryegrass in fall applications and leave 2 PT/A for application to the following year's rice crop.
- Bog yellowcress is an emerging problem in Delta counties, and control has been inconsistent.
- Herbicide pricing, sourcing, and potential label changes may greatly complicate weed control in 2022.
- Cultural weed management (planting date, rotations, row spacing) should be utilized where possible.
- Sequential applications of residual herbicides will be critical for early-season weed control.



Questions?



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