



Crop Rotation Restrictions FOR CORN, COTTON, AND SOYBEAN Herbicides

Mark P. Harrison, Normie W. Buehring, Mark W. Shankle, Erick J. Larson, Darrin M. Dodds, and Tom W. Eubank

Introduction

Before making herbicide application decisions, it is important to understand a selected herbicide's crop rotation restrictions and its impact on planting interval for the next crop. The following tables list selected corn, cotton, and soybean herbicides commonly used in Mississippi, along with rotation restriction intervals for planting the next crop of corn, cotton, rice, soybean, or sweetpotato. Rotational intervals may be influenced by soil type, soil pH, or the tank mixing of herbicides. Read and understand the label for different crop rotation restriction intervals when mixing or using one or more of these herbicides in the same season. These lists are not a substitute for reading the most recent label. This information is only provided as a guide. Always consult the most recent label for rotational crop restrictions before making herbicide applications.

Harrison is a research associate, and Buehring and Shankle are research professors with the Mississippi State University North Mississippi Research and Extension Center. Larson is an associate extension/research professor and Dodds is an assistant extension professor in the MSU Department of Plant and Soil Sciences. Eubank is an assistant extension/research professor with the MSU Delta Research and Extension Center. This document was approved for publication as MAFES Information Sheet 1357 of the Mississippi Agricultural and Forestry Experiment Station. It was published by the MSU Office of Agricultural Communications, a unit of the Division of Agriculture, Forestry, and Veterinary Medicine. Copyright 2012 by Mississippi State University. All rights reserved. This publication may be copied and distributed without alteration for nonprofit educational purposes provided that credit is given to the Mississippi Agricultural and Forestry Experiment Station.



2012 SOYBEAN HERBICIDE ROTATION RESTRICTIONS

Trade name	Active ingredients	Rotation interval ¹				
		Corn	Cotton	Rice	Sweetpotato ⁶	Wheat
Assure II	quizalofop	120 d	none	120 d	120 d	120 d
Authority MTZ	sulfentrazone/metribuzin	4 m	12 m	10 m	18 m	4 m
Authority XL	sulfentrazone/chlorimuron	18 m	18 m	18 m	36 m	4 m
Boundary	s-metolachlor/metribuzin	8 m	8 m	8 m	18 m	4.5 m
Canopy – pH>7 (>3 oz/A)	metribuzin/chlorimuron	18 m	18 m	18 m	30 m	4 m
Canopy – pH<7	metribuzin/chlorimuron	9 m ²	10 m	10 m	18 m	4 m
Canopy EX	chlorimuron/tribenuron	7 m	8 m	9 m	18 m	3 m
Clarity	dicamba	none	none	none	ns	none
Classic ³	chlorimuron	10 m	9 m	9 m	10 m	3 m
Command	clomazone	9 m	none	none	none	12 m
Enlite	chlorimuron/flumioxazin/thifensulfuron	9 m	9 m	9 m	30 m	4 m
Envive – pH>7	chlorimuron/flumioxazin/thifensulfuron	18 m	30 m	10–18 m	12 m	4 m
Envive – pH≤7	chlorimuron/flumioxazin/ thifensulfuron	10 m	10 m	9 m	12 m	4 m
First Rate ³	cloransulam-methyl	9 m	9 m	9 m	30 m	4 m
Firstshot SG	thifensulfuron/tribenuron	14 d	14 d	none	45 d	none
Frontrow ³	cloransulam-methyl/flumetsulam	9 m	9 m	9 m	30 m	3 m
Fusilade DX	fluzafop	60 d	none	60 d	none	60 d
Gangster ³	flumioxazin/cloransulam-methyl	9 m	9 m	9 m	30 m	3 m
Glyphosate	glyphosate	none	none	none	none	none
Gramoxone SL	paraquat	none	none	none	none	none
Liberty	glufosinate	none	none	none	70 d	70 d
Lorox	linuron	none	4 m	4 m	4 m	4 m
Metolachlor/S-metolachlor	metolachlor/s-metolachlor	none	none	spring	none	4.5 m
Micro-Tech	alachlor	none	none	none	ns	none
Outlook	dimethenamid	none	ns	ns	ns	4 m
Poast Plus	sethoxydim	none	none	none	30 d	none
Prefix	s-metolachlor/fomesafen	10 m	1 m	10 m	none	4.5 m
Prowl H ₂ O/Pendimax	pendimethalin	none	none	ns	ns	4 m
Python ³	flumetsulam	none	18 m	6 m	4 m	4 m
Reflex/Flexstar	fomesafen	10 m	none	10 m	none	4 m
Scepter	imazaquin	9.5 m ⁴	18 m	spring	18 m	4 m
Select Max	clethodim	30 d	none	30 d	none	30 d
Sencor	metribuzin	4 m	8 m	8 m	18 m	4 m
Sequence	glyphosates-s-metolachlor	none	none	spring	ns	4.5 m
Sharpen ⁵	saflufenacil	none	3 m	15 d	5 m	none
Solicam ⁵	norflurazon	16 m	12 m	16 m	24 m	16 m
Spartan	sulfentrazone	10 m	18 m	10 m	12 m	4 m
Treflan	trifluralin	12 m	none	12 m	5 m	12 m
Valor	flumioxazin	30 d	30 d	30 d	none	30 d
Valor XLT – pH>7	flumioxazin/chlorimuron	18 m	30 m	18 m	30 m	4 m
Valor XLT – pH≤7	flumioxazin/chlorimuron	10 m	18 m	10 m	18 m	4 m
Warrant	acetochlor	spring	spring	ns	ns	4 m
Weedar 64	2,4-D amine	none	3 m	none	1 m	none

¹ Abbreviations: d = days after application; spring = spring following application; fall = fall following application; m = months after application; ns = next season; PRE = preemergence application; and POE = postemergence applications.

² This rotation may be recropped to field corn after 9 months if the Canopy rate does not exceed 6 ounces per acre.

³ The label requires the interval shown plus a successful field bioassay.

⁴ Field corn may be planted in the year following a single application unless extreme drought conditions develop (when less than 10 inches of rainfall or irrigation is received within 6 months after the date of application).

⁵ Rotational restrictions are rate dependent. Consult the label for more information.

⁶ This treatment is only for field-grown Beauregard varieties and only when herbicides are applied at recommended labeled rates without incorporation into soil.

2012 CORN HERBICIDE ROTATION RESTRICTIONS

Trade name	Active ingredients	Rotation interval ¹				
		Cotton	Rice	Soybean	Sweetpotato ⁹	Wheat
Accent	nicosulfuron	10 m	10–18 m ³	15 d	10 m ³	4 m
Atrazine ²	atrazine	ns	18 m	ns ⁴	24 m ³	12 m
Basagran	bentazon	none	none	none	none	none
Beacon	primisulfuron	8 m	8 m	8 m	18 m	3 m
Bicep II Magnum ²	atrazine/s-metolachlor	ns	15 m	ns ⁴	24 m	15 m
Buctril	bromoxynil	180 d	180 d	180 d	30 d	30 d
Bullet/Lariat ²	alachlor/atrazine	24 m	24 m	ns ⁴	24 m	24 m
Clarity ⁵	dicamba	none	none	none	ns	none
Diuron	diuron					
PRE, banded		none	4 m	4 m	4 m	4 m
PRE, broadcast		none	6 m	6 m	12 m	6 m
POE		none	12 m	12 m	12 m	12 m
Dual II Magnum	s-metolachlor	none	spring	none	ns	4.5 m
Equip	foramsulfuron/iodosulfuron	9 m ⁷	18 m	9 m	18 m	2 m
Evik	ametryn	ns	ns	ns	ns	fall
Exceed	prosulfuron/primisulfuron	10 m	10 m	10 m	18 m	3 m
FulTime	acetochlor/atrazine	24 m	24 m	spring	24 m ³	15 m
Glyphosate	glyphosate	none	none	none	none	none
Gramoxone SL	paraquat	none	none	none	none	none
Guardsman Max ²	dimethenamid/atrazine	ns	24 m	ns ⁴	24 m ³	12 m
Harmony Extra	thifensulfuron/tribenuron	60 d	60 d	60 d	45 d	none
Harness	acetochlor	24 m	24 m	ns	ns	ns
Harness Xtra ²	acetochlor/atrazine	24 m	24 m	ns ⁴	24 m ³	ns
Hornet	flumetsulam/clopyralid	18 m	10.5 m	10.5 m	26 m	4 m
Lasso	alachlor	none	none	none	none	none
Lightning ⁸	imazethapyr/imazapyr	18 m ⁶	40 m ⁸	9 m	40 m	4 m
Lorox	linuron	4 m	4 m	4 m	4 m	4 m
Marksman ²	dicamba/atrazine	ns	ns	ns ⁴	24 m ³	10 m
Option	foramsulfuron	60 d	60 d	14 d	60 d	60 d
Outlook	dimethenamid	ns	ns	none	ns	4 m
Permit	halosulfuron	24 m	24 m	10 m	24 m	3 m
Prowl H ₂ O/Pendimax	pendimethalin	none	none	none	ns	4 m
Pursuit ⁸	imazethapyr	18 m	40 m ⁸	none	40 m	4 m
Scorpion III ⁸	flumetsulam/clopyralid/2,4-D	18 m	6 m	10.5 m	26 m	4 m
Surpass	acetochlor	24 m	24 m	spring	ns	4 m
2,4-D	2,4-D amine	3 m	none	none	ns	none

¹ Abbreviations: d = days after application; spring = spring following application; fall = fall following application; m = months after application; ns = next season; PRE = preemergence application; and POE = postemergence applications.

² If applied after June 10, do not rotate to any crop other than corn or grain sorghum the year following application or else injury may occur.

³ Unless the pH is greater than 6.5, the interval is 18 months.

⁴ Injury may occur to soybeans planted in soils with a calcareous surface layer.

⁵ No rotation interval exists if the treated crop was harvested normally.

⁶ Cotton may be replanted 9.5 months after application if the soil texture is sandy loam or loamy sand and 16 inches or more irrigation or rainfall occurs after application and before October.

⁷ Planting of cotton must wait 18 months when soil pH is greater than 7.5 and when less than 15 inches of annual precipitation has occurred after an application of Equip corn herbicide.

⁸ The label requires the interval shown plus a successful field bioassay.

⁹ This treatment is only for field-grown Beauregard varieties and only when herbicides are applied at recommended labeled rates without incorporation into soil.

2012 COTTON HERBICIDE ROTATION RESTRICTIONS

Trade name	Active ingredients	Rotation interval ¹				
		Corn	Rice	Soybean	Sweetpotato ⁸	Wheat
Assure II	quizalofop	120 d	120 d	none	120 d	120 d
Cobra	lactofen	none	none	none	none	none
Command	clomazone	9 m	9 m	none	none	12 m ²
Diuron	diuron					
band PRE or POE		4 m	4 m	4 m	4 m	4 m
band PRE + POE		spring	12 m	spring	12 m	12 m
broadcast PRE		spring	12 m	spring	12 m	12 m
broadcast PRE + band POE		spring	12 m	spring	12 m	12 m
broadcast POE		ns	12 m	12 m	12 m	12 m
Dual Magnum	s-metolachlor	none	ns	none	none	4.5 m
Envoke ³	trifloxysulfuron	7 m	7 m	7 m	18 m	3 m
Firstshot SG	thifensulfuron/tribenuron	14 m	none	7 m	45 d	none
Flumeturon	flumeturon	8 m	9 m	9 m	12 m	3 m
Fusilade DX	fluazifop	60 d	60 d	none	none	60 d
Glyphosate	glyphosate	none	none	none	none	none
Delta Goal	oxyfluorfen	10 m	10 m	60 d	60 d	10 m
Gramoxone SL	paraquat	none	none	none	none	none
Liberty	glufosinate	none	none	none	70 d	70
Lorox/Linex	linuron	none	4 m	none	4 m	4 m
MSMA	msma	none	none	none	na ⁹	none
Poast Plus	sethoxydim	none	none	none	none	none
Prefix	s-metolachlor/fomesafen	10 m	10 m	none	none	4.5 m
Prowl H ₂ O/Pendimax	pendimethalin	none	none	none	ns	4 m
Prometryn	prometryne	ns	ns	ns	ns	ns ⁴
Select Max	clethodim	6 d	30 d	none	none	30 d
Sharpen ⁷	salufenacil	none	9 m ⁷	6 m ⁷	5 m ⁷	none
Solicam DF ⁷	norflurazon	24 m ⁷	24 m ⁷	45 d ⁷	24 m ⁷	24 m ⁷
Staple LX ³	pyrithiobac	10 m ⁵	9 m	10 m	12 m	4 m
Treflan	trifluralin	12 m	12 m	none	5 m	12 m ²
Valor	flumioxazin	30 d ⁶	30 d	none	none	30 d ⁶
Warrant	acetochlor	ns	ns	none	ns	4 m

¹ Abbreviations: d = days after application; spring = spring following application; fall = fall following application; m = months after application; ns = next season; PRE = preemergence application; and POE = postemergence applications.

² Wheat may be planted as a cover crop at any time but cannot be harvested for food or feed if planted less than 9 months after treatment.

³ The label requires the interval shown plus a successful field bioassay.

⁴ Wheat or small-grain crops may be planted as a cover crop the fall following Prometryn application, but these crops may not be harvested for feed or food.

⁵ Corn may be planted 10 months after a Staple LX application was made in cotton providing that the total amount of Staple LX from all applications did not exceed 3.8 fluid ounces per acre. No additional soil mixing is required beyond that normally performed for a production system.

⁶ This applies to applications of 2 ounces per acre or less; additionally, 1 inch of rainfall or irrigation must occur between application and planting.

⁷ Rotation restrictions are rate dependent. Consult the label for more information.

⁸ This treatment is only for field-grown Beauregard varieties and only when herbicides are applied at recommended labeled rates without incorporation into soil.

⁹ No information on label.



MISSISSIPPI STATE
UNIVERSITY

Mention of a trademark or proprietary product does not constitute a guarantee or warranty of the product by the Mississippi Agricultural and Forestry Experiment Station and does not imply its approval to the exclusion of other products that also may be suitable.