

Corn

Weed Control Recommendations

Weed control is important to prevent crop yield loss, weed seed production, and harvest loss. Production practices such as crop rotation, timely planting, soil fertility maintenance, and cultivation contribute to the weed management system. Generally, herbicides control other weeds not controlled by other practices.

Herbicide-use rates often depend on soil texture, organic matter content, and targeted weed species. Generally, light-textured soils require less herbicide for acceptable weed control than do medium- or heavy-textured soils. In some recommendations, a range of rates is given. Use the low rate for light-textured soils, the middle rate for medium-textured soils, and the high rate for fine-textured soils. All rates are given on broadcast basis.

Suggestions in this publication were current at the time this publication was developed. Herbicide labels change frequently. Consult the product label before using any product. Remember to read and follow all label directions and precautions.

From the tables in this publication, select the herbicide that will provide the best control for your particular weed problem. Remember some herbicides have a long soil life, and undesirable residues sometimes remain in the fall. One way to reduce the amount of residues remaining in the fall and spring is by banding rather than broadcasting the herbicide.

Consult labels for approved adjuvants.

Weed resistance to recommended use rates of certain herbicides has been documented in Mississippi. For more information, obtain a copy of Extension Publication 1907 *Herbicide Resistance—Prevention and Detection*.

Estimated Levels of Weed Control Normally Expected^a

Herbicides	Crabgrass	Broadleaf signalgrass	Fall panicum	Goosegrass	Johnsongrass rhizome	Johnsongrass seedling	Ryegrass	Annual sedge	Purple nutsedge	Cocklebur	Horseweed	Lambsquarter	Morningglory	Pigweeds	Hemp Sesbania	Prickly sida (teaweed)	Sicklepod
Preplant PPF																	
Clarity	1	1	1	1	0	0	0	3	1	9	*	9	9	8	9	8	8
glyphosate	9	9	9	8	-	9	9	-	-	8	8	-	7	8	6	7	8
Gramoxone Max, Boa	9	9	9	9	0	9	6	9	0	9	5	9	5	9	6	4	7
Roundup Ultra	9	9	9	8	4	9	6	9	7	9	9	9	8	9	6	8	9
2,4-D	0	0	2	1	0	0	0	4	2	9	*	9	9	9	9	8	8
Preemergence																	
Atrazine	9	5	4	6	0	4	*	4	2	9	*	9	8	9	7	8	8
Bicep II, or Guardman, or Harness Xtra, or Fultime, or Lasso Atrazine Premix	9	8	8	9	0	8	*	7	3	6	*	9	6	9	6	8	6
Broadstrike SF + Dual	9	7	9	9	4	6	*	8	3	6	*	8	5	9	2	7	7
Dual II, or Frontier, or Harness, or Lasso, or Surpass	9	7	9	9	4	6	*	8	3	0	*	6	0	8	2	4	5
Axiom	-	6	-	-	-	-	-	-	-	-	-	-	6	8	-	-	-
Prowl/Pendimax	8	6	8	7	4	7	*	0	0	0	0	*	0	8	0	0	0
Simazine	8	5	6	7	0	4	9	2	0	9	3	9	7	9	-	9	8
Postemergence Over-the-top																	
Accent	5	8	7	*	8	9	8	3	*	5	*	5	6	8	7	4	5
Atrazine + Surfactant	7	6	4	5	0	3	*	6	2	9	*	8	8	8	6	8	7
Atrazine + oil	8	7	5	6	0	3	*	6	2	9	*	9	8	9	7	9	8
Atrazine + Lasso or Dual II ^b	6	5	4	6	0	4	*	5	2	8	*	8	8	8	6	7	8
Basagran	0	0	0	1	0	0	0	6	2	9	*	0	3	3	4	8	1
Beacon	3	0	7	4	7	9	7	7	4	8	*	7	6	8	4	6	7
Buctril	0	0	0	0	0	0	3	0	0	9	*	9	8	6	8	5	4
Clarity	1	1	1	1	0	0	0	3	1	9	*	9	9	8	9	8	8
Clarity + 2,4-D	1	1	0	1	0	0	0	3	1	9	*	8	8	8	6	7	7
2,4-D	0	0	2	1	0	0	0	4	2	9	*	9	9	9	9	8	8
Exceed	3	2	4	2	4	6	*	*	2	9	*	7	7	8	9	6	7
Hornet	*	*	*	*	*	*	*	*	*	9	*	9	*	9	*	*	*
Liberty (LLink only)	9	9	9	8	9	5	9	8	4	9	-	-	9	7	9	9	9
Permit	3	3	3	3	3	3	4	8	9	9	*	5	5	8	*	7	4
Pursuit (IMI only)	7	7	6	3	5	7	*	6	7	9	*	5	7	9	2	3	2
Scorpion III	2	2	2	2	2	2	*	*	*	9	*	8	8	9	8	8	8
Postemergence - Directed																	
Evik	9	9	8	8	0	8	-	-	3	4	-	-	5	8	1	4	8
Gramoxone Extra	8	9	8	8	0	8	*	5	2	8	*	8	8	8	5	8	7
Linex/Lorox	8	8	8	7	0	6	*	5	2	7	*	9	8	8	8	8	8
Preharvest																	
2,4-D	0	0	2	1	0	0	0	4	2	9	*	9	9	9	9	8	8
glyphosate	9	9	9	8	8	9	9	9	7	9	8	9	8	9	6	8	9
Aim	0	0	0	0	0	0	0	0	0	6	-	7	8	8	-	-	0

^aRating 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.

^bTank mix rating not premix.

*Data not available

ROTATIONAL CROP RESTRICTIONS

Corn herbicides	Rotation interval ¹					
	COTTON	GRAIN SORGHUM	RICE	SOYBEANS	WHEAT	OTHER GRAINS
Accent	10 m	10/18 m ²	10/18 m ³	15 d	4 m	4 m ⁴
atrazine ⁵	ns	none	2 yr	ns ⁶	1 y	1 y ⁷
Basagran	none	none	none	none	none	none
Beacon	8 m	8 m ⁹	8 m	8 m	3 m	3 m ¹⁰
Bicep ⁵	ns	none ¹¹	15 m	ns	15 m	15 m
Broadstrike SF Plus Dual	22 m	18 m	9 m	none	4.5 m	4.5 m
Buctril	180 d	30 d	180 d	180 d	30 d	180 d
Bullet/Lariat	2 y	ns	2 y	ns ¹²	2 y	2 y
Clarity ⁸	none	none	none	none	none	none
diuron						
PRE, banded	none	none	4 m	4 m	4 m	4 m
PRE, broadcast	none	none	6 m	6 m	6 m	6 m
POE	none	none	1 y	1 y	1 y	1 y
Dual	none	none	spring	none	4.5 m	4.5 m
Evik	ns	ns	ns	ns	fall	fall
Exceed	10 m	10 m	10 m	10 m	3 m	3 m
Frontier	ns	ns	ns	none	4 m	4 m
Guardman	ns	ns	2 yr	ns ⁶	1 y	1 y ⁷
Gramoxone Max, Boa	none	none	none	none	none	none
Harmony Extra	60 d	60 d	60 d	60 d	none	60 d ¹³
Harness	2 yr	ns	2 yr	ns	ns	2 yr
Harness Xtra	2 yr	ns	2 yr	ns	ns	2 yr
Hornet	18 m	12 m	6 m	10.5 m	4 m	4 m
Lasso	none	none	none	none	none	none
Lightning	18 m ¹⁹	18 m	40 m	8.5 m	4 m	4 m ¹⁴
Lorox	4 m	4 m	4 m	4 m	4 m	4 m ¹⁵
Marksman ⁵	ns	none	ns	ns ⁶	10 m	10 m
Permit	2 y	none	2 y	10 m	3 m	2 y
Prowl	none	none	none	none	4 m	ns ^{16, 18}
Pursuit	18 m	18 m	40 m	none	4 m	18 m ¹⁷
glyphosate	none	none	none	none	none	none
Scorpion III	18 m	12 m	6 m	10.5 m ¹⁶	4 m	4 m
Surpass	2 yr	spring	2 yr	spring	4 m	2 yr
Fultime ¹⁷	2 yr	spring	2 yr	spring	15 m	2 yr
2,4-D	3 m	none	none	none	none	none

¹d,m,y, spring, fall, and ns indicate days after application, months after application, years after application, spring following application, fall following application, and next season, respectively. PRE and POE indicate preemergence and postemergence applications, respectively.

²Grain sorghum may be planted 10 months after Accent application on soils with pH 7.5 or less. If soil pH is greater than 7.5, do not plant grain sorghum less than 28 months after application.

³Rice may be planted 10 months after Accent application on soils with pH 6.5 or less. If soil pH is greater than 6.5, do not plant rice less than 18 months after application.

⁴Winter wheat and barley may be planted 4 months after Accent application. Oats may be planted 8 months after Accent application.

⁵If applied after June 10, do not rotate to any crop other than corn or grain sorghum the year following application, or injury may occur.

⁶Injury may occur to soybeans planted in soils with a calcareous surface layer.

⁷Do not plant spring-seeded small grains the year following application or injury may occur.

⁸No rotation interval exists if the treated crop was harvested normally.

⁹Injury may occur if dry weather prevails between application and sorghum seeding.

¹⁰Injury may occur if dry weather prevails between application and grain seeding. Spring-seeded grain crops require 8 months between Beacon application and seeding.

¹¹Replant only with Concept-treated or Screen-treated seed.

¹²If soybean or other nonlabeled crops are planted, injury may occur. Do not plant soybeans where furrow irrigation was used.

¹³Barley or oats may be replanted immediately. Other grains require 60 days before planting.

¹⁴Wheat and rye may be planted 4 months after application, and oats may be planted 18 months following application.

¹⁵Only barley, oats, rye, and wheat may be replanted.

¹⁶Do not plant wheat or barley until next season if rhizome johnsongrass or red rice control or itchgrass suppression rates are applied.

¹⁷Barley may be planted 9.5 months after application; Rye may be planted 4 months after application.

¹⁸In areas of low moisture (<15 in/yr) and low organic matter (<2%), do not plant soybeans for 18 months after Scorpion III application.

¹⁹Cotton may be replanted 9.5 months after application if soil texture is sandy loam or loamy sand and 16 inches or more irrigation or rainfall occurs after application and before October.

Crop, weed, or situation and active chemical per treated land acre

Formulation needed to treat 1 acre broadcast

Time of application

Weeds controlled

Special instructions and remarks

Preplant Foliar

glyphosate at 0.5 to 1.5 lb/A	Glyphosate 4/5 lb/gal at 16 to 48 oz/12.8 to 38.4 oz	Preplant for vegetation knockdown.	Horseweed, barnyard-grass, johnsongrass, and other weeds.	Consult label to determine rates for weeds and growth stages. A nonionic surfactant may be used at 0.25% v/v with Touchdown. Additional surfactant is not needed with Roundup Ultra.
paraquat at 0.47 to 0.94 lb/A	1.3 to 2.5 pt Gramoxone Max.	Preplant for vegetation knockdown.	Many annual weeds. Poor on horseweed.	Add 0.25%, by volume, nonionic surfactant. Consult label to determine rates for weeds and growth stages.
dicamba at 0.25 to 0.5 lb/A	0.5 to 1 pt/A Clarity 4SL	Preplant for vegetation knockdown.	Broadleaf weeds.	Reduced tillage production systems only.
2,4-D at 0.475 to 0.95 lb/A	1 to 2 pt of a 3.8 lb/gal formulation or 0.67 to 1.3 pt of a 5.7 lb/gal formulation.	7-14 days before planting.	Broadleaf weeds.	Do not use on sandy soils.

Preemergence

acetochlor at 0.8 to 2.4 lb/A	1 to 3 pt Surpass EC or 1.25 to 3 pt Harness. See tables below.	Up to 30 days before planting, preplant incorporated, pre-emergence, or after planting but before corn emergence.	Annual grasses, many small-seeded broad-leaf weeds, and yellow nutsedge.	Use higher rates on reduced or no-till systems. Do not use on sweet corn. Do not apply by air or when environmental conditions favor off-target movement. If stand failure occurs, replant corn, but do not make a second application of Surpass or Harness.
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Soil texture	Surpass rate (pt/A) ¹	
	Tillage system	
	Conventional	Reduced/no-till
coarse	1-2.5	2
medium	1.5-2.5	2-2.5
fine	1.5-2.75	3

¹Rates given for soils with 3% or less organic matter. Use lower rates for sparse weed populations and higher rates for dense weed populations.

Soil texture	Harness rate (pt/A) ¹	
	Tillage system	
	Conventional ²	Reduced/no-till
coarse	1.25-1.75	1.5-2
medium	1.75-2.25	2.25-2.75
fine	1.75-2.25	2.75-3

¹Use higher rates in areas with dense weed infestation. ²Rates for soils with 3% or less organic matter.

acetochlor at 0.8 to 2.4 lb/A plus atrazine at 0.8 to 1.3 lb/A	1.6 to 3.3 qt Fultime or 1.4 to 3 qt Harness Xtra. See tables below.	At planting or before crop or weed emergence.	Same as above plus other broadleaf weeds controlled by atrazine.	Do not apply by air. Do not use on sweet corn.
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Soil texture	Fultime rates (qt/A) ¹		
	Conventional tillage ²	Reduced/no-tillage	
		14 or more DBP ³	less than 14 DBP or preemergence
coarse	1.6	do not apply	1.6-2.2
medium	1.6-2.2	2.6-3.3	2.2-2.6
fine	2.2-2.6	3.3	2.6-3.3

¹Use high rates for dense weed populations.

²Rates for soils with 3% or less organic matter.

³DBP indicates days before planting.

Soil texture	Harness Xtra rates (qt/A)	
	< 3% Organic matter	≥3% Organic matter
coarse	1.4	1.7
medium	1.7-2.4	2.3-2.6
fine	2.3-2.6	2.3-3

Crop, weed, or situation and active chemical per treated land acre	Formulation needed to treat 1 acre broadcast	Time of application	Weeds controlled	Special instructions and remarks								
alachlor at 2 to 3.25 lb/A	2.3-3.25 qt Lasso.	At planting.	Most annual grasses including broadleaf signalgrass, also pig-weed. Seedling johnsongrass control at 2.5 to 3.0 lb.	Apply with broadcast applicator. Poor control of most large-seeded broadleaf weeds. For hard to control weeds such as broadleaf signalgrass use 3 to 4 qt on medium- to fine-textured soils.								
atrazine at 2 lb/A	2 qt 4 lb/gal or 2.2 lb DF.	At planting.	Most small-seeded annual weeds and grasses. Broadleaf signalgrass control poor.	Atrazine is a restricted use pesticide. Do not exceed 2 lb ai per acre per year. See label for additional restrictions.								
atrazine at 1 to 1.2 to 1.6 lb/A plus alachlor at 2 to 2.5 to 3 lb/A	Tank mix 0.75 to 1.25 to 2.0 qt atrazine 4L or equivalent of other atrazine formulations plus 1.5-2-2.75 qt Lasso.	At planting.	Most small-seeded annual grasses and broadleaf weeds including broadleaf signalgrass.	Apply with broadcast applicator or on band behind planter press wheel. Rates of atrazine may be inadequate where weed pressure is heavy. See atrazine preemergence for restrictions.								
atrazine at 1.0 to 1.1 to 1.7 lb/A plus alachlor at 1.5 to 1.9 to 2.8 lb/A	Apply 2.5 to 3 to 4.5 qt Bullet or Lariat.	At planting.	Most small-seeded annual grasses and broadleaf weeds including broadleaf signalgrass.	The rate of Lasso is less in the package mix than in the tank mix. Control of some broadleaves and broadleaf signalgrass may be inadequate. See atrazine preemergence for restrictions.								
atrazine at 1.6 to 2.0 to 2.5 lb/A plus metolachlor at 2.0 to 2.5 to 3.0 lb/A	1.5 to 1.8 to 2.4 qt Bicep II or tank mix 2.0 to 2.5 to 3.0 pt Dual II plus 1.6 to 2 to 2.5 qt atrazine 4L or equivalent rates of other atrazine formulations.	At planting.	Most small-seeded annual grasses and broadleaf weeds including broadleaf signalgrass.	Apply broadcast or on band behind press wheel before corn emerges. See atrazine pre-emergence for restrictions.								
dicamba at 0.5 lb/A	Clarity 4SL — 1 pt/A	At planting.		Apply only to medium or fine-textured soils which contain 2% or greater organic matter. Do not apply to coarse-textured soils after crop emergence.								
dimethenamid at 0.75 to 1.3 lb/A	Frontier 7.5E — 13 to 22 oz in 2 or more gal water to obtain ground coverage.	At planting.	Most small-seeded annual grasses and broadleaf weeds including broadleaf signalgrass.	Poor control of most large-seeded broadleaf weeds. See label for tank mixtures.								
dimethenamid at 0.73 to 1.3 lb/A plus atrazine at 0.8 to 1.5 lb/A	Guardsman — 2.5 to 4.5 pt in 2 or more gal water to obtain coverage.	At planting.	Many annual grasses, broadleaf weeds, yellow nutsedge, and rice flatsedge.	Soil Cation Exchange Capacity (CEC) value is the preferred method of rate selection. However, soil texture can be used. If used in no-till system with heavy residue, or if soil organic matter content is greater than 3%, increase application rate by 0.5 pt/A. Do not exceed 4.75 pt/A on highly erodible soils with less than 30% residue cover or more than 5 pt/A on any soil. Corn may be grazed or fed to livestock 40 or more days after application. Do not apply to sweet corn.								
	<table border="1"> <thead> <tr> <th>Soil texture¹</th> <th>Guardsman rate (pt/A)</th> </tr> </thead> <tbody> <tr> <td>Coarse</td> <td>2.5 - 3.0</td> </tr> <tr> <td>Medium</td> <td>3.0 - 4.0</td> </tr> <tr> <td>Fine</td> <td>4.0 - 4.5</td> </tr> </tbody> </table>	Soil texture ¹	Guardsman rate (pt/A)	Coarse	2.5 - 3.0	Medium	3.0 - 4.0	Fine	4.0 - 4.5			
Soil texture ¹	Guardsman rate (pt/A)											
Coarse	2.5 - 3.0											
Medium	3.0 - 4.0											
Fine	4.0 - 4.5											
	¹ Rates given are for soils with less than 3% organic matter.											

Crop, weed, or situation and active chemical per treated land acre

Formulation needed to treat 1 acre broadcast

Time of application

Weeds controlled

Special instructions and remarks

flumetsulam + metolachlor at 1.5 to 2.1 lb/A

Broadstrike SF + Dual — 1.6 to 2.2 pt (see table below).

Preplant incorporated or preemergence.

Annual grasses and broadleaf weeds.

Do not exceed 2.25 pt per acre per season. **Do not** apply to soils with pH less than 5.9 and with 5% or more organic matter. **Do not** apply to soils with pH greater than 7.8 or injury may occur. **Do not** apply within 85 days of harvest. **Do not** apply aerially. Corn seed should be planted 1.5 inches deep. Ex- tended cold, wet conditions, or other factors that induce stress following treatment, may cause temporary injury. Should not be applied to corn treated with Counter insecticide.

Soil texture	Rate (pt/A)	
	<3% o.m.	>3% o.m.
Coarse	1.6-2.0	1.6-2.0
Medium	1.8-2.0	2.0-2.2
Fine	2.2	2.2

FOE 5043 at 0.44 to 0.75 lb/A plus metribuzin at 0.11 to 0.19 lb/A

13 to 22 oz of Axiom 68DF

Preplant or preemergence

Most small-seeded annual grasses and broadleaf weeds.

Poor control of most large-seeded broadleaf weeds. See label for tank mixtures.

metolachlor at 1.5 to 2.5 lb/A

Dual II — 1.5 to 2.5 pt.

At planting.

Most annual grasses and small-seeded broadleaves. Partial control of seedling johnson-grass.

For soils with 3% or more organic matter, increase rates by 0.5 pt/acre. Poor control of most large-seeded broadleaves.

pendimethalin at 0.75 to 1.5 lb/A

Prowl/Pendimax 3.3EC — 1.8 to 3.6 pt or Pentagon 60DF — 1.25 to 2.5 lb

At planting.

Most small-seeded annual weeds and grasses. Signalgrass control poor. Poor control of most large-seeded broadleaf weeds.

See label for tank mixtures.

simazine at 2 to 3 lb/A

4 to 8 pt Simazine 4L or Princep 4L 2.2 to 4.4 lb Simazine, Princep, or Caliber 90DF

Preplant or preemergence.

Most annual grasses and small-seeded broadleaves.

Till soil in fall to minimize carryover potential to rotational crops.

Postemergence - Directed

ametryn at 0.6 to 1.6 lb/A

Evik 80W — 0.75 to 2 lb. Add 0.5% surfactant.

After smallest corn is at least 12 in. tall.

Annual grasses and broadleaves particularly broadleaf signalgrass.

Directed spray at base of plants to avoid as much leaf contact as possible. Keep sprayer drift out of whorl. Use 0.75 lb for 2-in. broadleaf signalgrass, 1.25 lb for 4-in. broadleaf signalgrass, 2.0 lb for 6-in. broadleaf signalgrass and 1.25-2.0 lb for other weeds and grasses. **Do not** graze livestock in treated areas or feed forage within 30 days of application. Small grains may be planted in fall following application.

linuron at 0.63 to 1.5 lb/A

1.25 to 3 lb 50% DF or 1.25 to 3 pt of 4 lb/gal. Add 0.5% surfactant.

When corn is at least 15 in. tall and before weeds are 5 in. tall.

Most annual broadleaf weeds and grasses.

Apply as a directed spray to cover weeds. **Do not** use on loamy sand or sand. May be applied in N solutions. Use low rate when weeds are less than 2 inches tall and on light soils. Use high rates on weeds up to 5 inches or on heavy soils.

Crop, weed, or situation and active chemical per treated land acre	Formulation needed to treat 1 acre broadcast	Time of application	Weeds controlled	Special instructions and remarks
Postemergence Over-the-top				
atrazine at 2.0 lb/A	2.2 lb 90% granules or 2 qt 4 lb/gal.	After corn has emerged and before weeds and grasses are 1.5 in. tall.	Most annual weeds and grasses, except broadleaf signalgrass, fall panicum, and seedling johnsongrass.	Atrazine is a restricted-use pesticide. May be applied overhead as an early post treatment to corn less than 12 inches tall. Do not exceed 2.5 lb ai per acre per year. Do not apply when corn is under stress from cold or excess rain. Do not apply more than one application of atrazine per season. Application with insecticides, herbicides, liquid fertilizers, or other materials is not recommended because they may cause compatibility problems or crop injury.
atrazine at 2 lb/A plus crop oil concentrate	2.2 lb 90% granules or 2.5 lb 80W or 2 qt 4 lb/gal plus 1 qt crop oil concentrate.	After weeds and grass germinate but before they are 1.5 in. tall.	Most annual broadleaf weeds and grasses, only partial control of broadleaf signalgrass, fall panicum and seedling johnsongrass.	May be applied overhead. Do not apply when corn is under stress from cold or excessive rain. See atrazine postemergence for restrictions.
atrazine at 0.75 to 1.25 to 2.0 lb/A plus alachlor at 1.5 to 2.0 to 2.75 lb/A	Tank mix 0.75 to 1.25 to 2.0 qt atrazine 4L or equivalent rates of other atrazine formulations plus 1.5 to 2.0 to 2.75 lb Lasso or 2.5 to 3.0 to 4.5 qt Bullet or Lariat.	Before weeds and grasses reach 2-leaf stage and corn is less than 5 in. tall.	Most annual weeds and grasses.	See comments for atrazine postemergence for restrictions.
atrazine at 1.6 to 2.0 to 2.5 lb/A plus metolachlor at 2.0 to 2.5 to 3.0 lb/A	Tank mix 2.0 to 2.5 to 3.0 pt Dual II plus 1.2 to 1.6 to 2.5 qt atrazine 4L or equivalent rates of other atrazine formulations.	Before weeds and grasses reach 1.5 in. in height and before corn exceeds 12 in. in height.	Most annual weeds and grasses.	See atrazine comments above.
bentazon at 0.75 to 1 lb/A	1.5 to 2 pt Basagran as an over-the-top spray.	Apply early post to rapidly growing cocklebur having 2 to 10 leaves.	Cocklebur, small prickly sida, smartweed, ragweed, and suppresses yellow nutsedge.	Use low rate for small cocklebur and high rate for 6- to 10-leaf cocklebur. Control may be poor if applied under drought stress. Useful for controlling cocklebur in areas having 2,4-D sensitive crops. Rainfall within 8 hours after application may reduce effectiveness, one repeat application may be made.
bromoxymil at 0.25 to 0.375 lb/A	Buctril 2EC 1.0 to 1.5 pt/A. Buctril 4EC 0.5 - 0.75 pt/A. On larger weeds tank mix with 0.5 lb ai/A atrazine.	Apply to corn after emergence but prior to tassel emergence.	Cocklebur, smartweed, lambsquarter in seedling stage.	Use tank mix for morningglory and pigweed control. Under some environmental conditions leaf tip burn may be associated with the 4 EC formulation.
carfentrazone 0.008 lb ai/A	0.33 oz Aim 40DF	Postemergence to weeds <=3 inches and before the corn reaches the V8 growth stage	Morningglories, pigweed, and velvetleaf	For seed production fields, apply Aim herbicide using drop nozzles only. Avoid directing solution into the whorl. Use a surfactant at 1/4% v/v.

Crop, weed, or situation and active chemical per treated land acre	Formulation needed to treat 1 acre broadcast	Time of application	Weeds controlled	Special instructions and remarks										
dicamba at 0.25 to 0.5 lb/A	Clarity 4SL — 0.5 to 1 pt/A.	Use the high rate before corn reaches 8 in. tall or exceeds 5-leaf stage. Use the low rate if corn is greater than 8 in. tall. Before corn is 36 in. tall or until 15 days before tassels emerge whichever occurs first.	Most broadleaves.	May be applied overhead. Do not apply to sweet corn or popcorn. Do not make more than one application per season.										
dicamba at 0.125 to 0.25 lb/A plus 2,4-D at 0.25 to 0.50 lb/A	0.25 to 0.5 pt of Clarity 4SL plus 0.5 to 1 pt 2,4-D 4 lb/gal.	See special instructions.	Most broadleaves.	May be applied overhead before corn is 8 inches high. Use drop nozzles to direct spray to lower parts of the corn plant if taller than 8 inches high.										
flumetsulam + clopyralid at 0.1 to 0.3 lb/A	Hornet 1.6 to 4.8 oz/A.	Apply to actively growing broadleaf weeds from corn emergence (spike stage) up to 24 in. tall.	Annual broadleaf weeds.	Refer to label to determine rates for weeds and corn growth stages. Include nonionic surfactant at 0.25% v/v.										
Number of acres per 8-oz water-soluble packet at indicated application rate														
<table border="1"> <thead> <tr> <th>1.6 oz/A</th> <th>2.4 oz/A</th> <th>3.2 oz/A</th> <th>4.0 oz/A</th> <th>4.8 oz/A</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>3.33</td> <td>2.5</td> <td>2</td> <td>1.67</td> </tr> </tbody> </table>					1.6 oz/A	2.4 oz/A	3.2 oz/A	4.0 oz/A	4.8 oz/A	5	3.33	2.5	2	1.67
1.6 oz/A	2.4 oz/A	3.2 oz/A	4.0 oz/A	4.8 oz/A										
5	3.33	2.5	2	1.67										
flumetsulam + clopyralid + 2,4-D at 0.21 lb/A	Scorpion III 4 oz (1 water-soluble packet per 2 acres) plus 0.25% nonionic surfactant.	Topical applications may be made to corn up to 8 in. tall and when weeds are 2 to 4 true leaves, but at least 85 days before harvest.	Broadleaf weeds, such as pigweeds, morningglory, ragweed, spurge, smartweed.	Do not use liquid fertilizers as the total carrier for Scorpion III as excessive injury may occur. Do not exceed 1 application per year. Do not exceed 4 oz per acre per season. If Broadstrike SF + Dual or Hornet has been applied, do not exceed 0.07 lb ai flumetsulam per acre. Do not apply to corn grown for seed. Do not apply by air.										
For use only on Liberty Link hybrids.														
glufosinate at 0.21 to 0.37 lb/A	1 to 1.75 pt Liberty 1.67WS	From corn emergence to 24 inches tall or V7 growth stage.	Most annual grasses and broadleaf weeds.	Do not apply when wind causes drift to desirable vegetation. Do not apply more than two applications per year, and do not exceed 56 oz per growing season. Do not apply within 70 days of harvest. Do not add surfactant.										
halosulfuron at 0.032 to 0.063 lb/A	Permit 75DF — 0.67 to 1.33 oz/A + 0.25% nonionic surfactant or 1% crop oil concentrate.	Anytime between spike and layby, but at least 30 days before harvest.	Nutsedge, cocklebur, pigweed.	May be applied with liquid fertilizer, but fertilizer should not be the total carrier as injury may occur. Do not make more than two applications per season or exceed 2.67 oz per acre per season.										

Corn, Continued

Crop, weed, or situation and active chemical per treated land acre

Formulation needed to treat 1 acre broadcast

Time of application

Weeds controlled

Special instructions and remarks

imazethapyr at 0.063 lb/A FOR USE ONLY IN IMI CORN	Pursuit 70DG 1.44 oz/A. Add 0.25% (v/v) nonionic surfactant.	Apply to actively growing weeds up to 8 in. tall depending on target species.	Several broadleaf and many annual grasses when applied to young 1-3 leaf weeds. Cocklebur and pigweed may be controlled up to 8 leaves. Seedling johnsongrass controlled up to 6 leaves.	For use in IMI-tolerant/resistant corn hybrids only. Apply to IMI corn only. Only one application may be made during the season. Do not mix with Accent or Beacon.
imazethapyr +imazapyr at 0.042 lb/A + 0.014 lb/A FOR USE ONLY IN IMI CORN	Lightning 70DG— 1.28 oz/A or one water soluble bag per 2 acres. Add 0.25% nonionic surfactant or 1 - 2 qt/A nitrogen-based fertilizer or 2.5 lb/A spray-grade ammonium sulfate.	After emergence through 18-inch tall corn and before weeds exceed 4 inches tall.	Annual and perennial broadleaf weeds and grasses, including pigweeds, morningglory, smartweeds, crabgrass, broadleaf signalgrass, and seedling johnsongrass.	For use in IMI-tolerant/resistant corn hybrids only. Severe injury or death will occur with other hybrids. Only one application per season. Do not harvest or feed treated corn within 45 days after application. Carefully clean spray equipment before spraying other crops as minute residues may cause severe crop injury.
2,4-D at 0.24 to 0.72 lb/A	2,4-D amine — 0.5 to 1.5 pt of 3.8 lb/gal.	See special instructions.	Broadleaf weeds.	Direct spray below whorl of corn plants taller than 8 inches.
primisulfuron at 0.3 to 0.6 oz/A	0.38 to 0.76 oz of Beacon + 0.25% non-ionic surfactant or 1 - 4 pt/A crop oil concentrate. May be applied once or sequentially.	See special instructions. Apply when corn is 4 to 20 in. tall and rhizome johnsongrass is 8 to 16 in. tall.	Johnsongrass and other annual weeds. Poor on broadleaf signalgrass. Use low rate for control of small broadleaf weeds.	Product packaged in water soluble packages. Each package treats 2 acres at 0.76 oz product/A. Do not apply to drought-stressed corn, to corn if the insecticide, Counter, is applied any time during the season, or if a foliar applied organophosphate insecticide is used within 10 days. Do not irrigate within 4 hours after application. Consult label for “potentially susceptible” corn hybrids such as Pioneer 3085. Do not graze or feed treated forage to livestock within 30 days after treatment. Do not harvest silage within 45 days or grain within 60 days after treatment.
propriflufen + primisulfuron at 0.036 lb/A	Exceed at 1 oz/A (1 water-soluble packet per 4 acres) plus 0.25% nonionic surfactant or 1 to 4 pt/A crop oil concentrate.	Apply to corn between 4 and 48 in. tall. Weed size is species dependent.	Grasses and broadleaf weeds, including johnsongrass, shattercane, sorghum alnum, morningglories, smartweed, ragweed, and pigweed.	Do not make more than one application per season. Do not graze or feed treated forage until 30 days after treatment. Do not harvest silage until 40 days after application. Do not harvest grain until 60 days after treatment. Organophosphate insecticide applications made within 10 days before or 7 days after Exceed treatment may cause injury. Do not apply if corn was treated with Counter 15G or 20CR in-furrow at planting as injury may occur.
nicosulfuron at 0.5 oz/A	0.67 oz of Accent 75 DF + 0.25% nonionic surfactant or 1% crop oil concentrate.	See special instructions. Apply when corn is in 2- to 6-leaf growth stage. Later stages should be applied with drop nozzles to rhizome johnsongrass (8-18 in.) and to broadleaf signalgrass (1-2 in.).	Johnsongrass and other annual weeds.	Consult label for additional weeds and growth stages. Split applications may be used but combined dosage must not exceed 1.33 oz Accent/A. Do not apply when corn or weeds are stressed due to drought or other reasons. Do not apply to corn treated with Counter or soil-applied organophosphate insecticides, to corn treated with foliar applied insecticides such as Lorsban, malathion, parathion, etc., or with the herbicides Basagran, Laddock, or Tandem. Do not apply these within 3 days after Accent application. (See label for IR corn.) Consult label for restrictions and precautions. Do not graze or feed treated forage or grain to livestock within 30 days after application.

Corn, Continued

Crop, weed, or situation and active chemical per treated land acre

Formulation needed to treat 1 acre broadcast

Time of application

Weeds controlled

Special instructions and remarks

nicosulfuron + rimsulfuron + atrazine	14 oz Basis Gold + 1% crop oil concentrate	Can be applied to corn up to 12 inches in height exhibiting less than 6 leaf collars. Apply to small actively growing weeds.	Grasses and broadleaf weeds, including johnsongrass, shattercane, morningglories, and pigweeds.	Do not apply to field corn grown for seed, popcorn, or sweet corn. Basis Gold should not be tank mixed with 2,4-D products as severe grass antagonism may occur. Basis Gold should not be tank mixed with foliar-applied organophosphate insecticides such as Lorsban, malathion, parathion, etc. as severe crop injury may occur. To avoid crop injury or antagonism, apply these products at least seven days before or 3 days after application of Basis Gold. Do not apply if corn was treated with Counter 15G or 20CR in-furrow at planting as injury may occur. Pioneer 3167 is more sensitive than other hybrids to Basis Gold.
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For use under hooded sprayers

glyphosate at 0.375 to 1 lb/A.	Glyphosate 4/5 lb/gal — 12 to 32 oz/9.6 to 25.6 oz/A	Apply to at least 12-in. tall corn. Keep bottom edge of hood in contact with soil surface.	Annual and perennial grasses and broadleaf weeds.	Avoid crop contact with spray solution. Leave at least an 8-inch untreated strip over drill. Do not graze or feed corn forage or fodder following application.
paraquat at 0.25 to 0.47 lb/A	0.675 to 1.3 pt Gramoxone Max 3.0AS	Apply to 6-inch tall corn using hooded sprayer ONLY . Keep bottom edge of hood in contact with soil surface.	Annual grasses and broadleaf weeds less than 6 inches tall.	Avoid crop contact with spray solution. Avoid use of spray tips that produce fine spray droplets. Include nonionic surfactant at 0.25% v/v with Gramoxone Extra. Best results are achieved when tankmixed with other broadleaf residual herbicide. Consult label for specific tankmix partners.

Preharvest

2,4-D at 0.5 to 1 lb/A	2,4-D amine — 1 to 2 pt 4 lb/gal.	After corn is in dent or hard dough stage.	Most broadleaves.	Apply to corn fields where broadleaf weeds such as morningglory, cocklebur, and sicklepod make harvesting difficult. Wait 5 to 7 days before harvesting.
sodium chlorate at 6 lb/A	Sodium chlorate — 2 gal of 3 lb/gal formulation.	After corn is in dent or hard dough stage.	Most grasses.	Apply to cornfield where grasses such as johnsongrass make harvesting difficult. Apply at least 14 days before anticipated harvest date on clear days when temperatures are expected to go above 70 °F. Do not graze treated fields or feed fodder, forage, or residual seeds within 14 days of application.
glyphosate at 0.5 to 1.5 lb/A	Glyphosate 4/5 lb/gal — 16 to 48 oz/12.8 to 38.4 oz in 5 to 10 gal water.	After grain reaches 35% moisture or less and kernel black layer has formed, but 7 days before harvest.	Johnsongrass and other annual weeds.	Do not exceed 1 qt/A by aerial or 3 qt/A by ground equipment. Do not apply to corn grown for seed.

Herbicide recommendations in this publication were approved by the Mississippi Weed Science Committee.

The information given here is for educational purposes only. Reference to commercial products or trade names is made with the understanding that no discrimination is intended against other products that also may be suitable.

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