

# WEED CONTROL IN FIELD CORN

Mike Marshall, Extension Weed Specialist

## Preplant/Burndown Herbicides for Weed Management in Field Corn

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			

Balance Flexx 2 SC (isoxaflutole)	6.0 fl oz	0.094 lb	27	45 days	12 hours
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**Comments:** BALANCE FLEXX is a RESTRICTED USE PESTICIDE. Apply BALANCE FLEXX up to 30 days before planting corn. Add MSO at 0.5 gal per 100 gal or COC at 1.0 gal per 100 gal of spray solution for weeds 3 inches or less in height. BALANCE FLEXX may be tank mixed with PARAQUAT, GLYPHOSATE, or 2,4-D if weeds are greater than 3 inches in height. If the water table (level of saturation) is less than 25 feet below the ground surface, do not use BALANCE FLEXX on soils where the subsoil is loamy sand or sand (i.e., no clay subsoil). Do not apply more than 6.0 fl oz BALANCE FLEX per 365 day period. **Rainfast interval = N/A (suggest 1 hour).**

Clarity/Banvel 4 S (dicamba)	8.0-16 oz	0.25-0.5 lb	4	---	24 hours
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**Comments:** Apply any time prior to planting corn. Use 16 oz/A rate on medium to fine texture soils with >2.5% organic matter. Use 8 oz/A rate on coarse textured soils with less than 2.5% organic matter.

Corvus 2.63 SC (thiencarbazone + isoxaflutole)	3.33 fl oz	0.012 lb + 0.031 lb	2  27	45 days	12 hours
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**Comments:** CORVUS is a RESTRICTED USE PESTICIDE. Apply CORVUS up to 30 days before planting corn. Add MSO at 0.5 gal per 100 gal or COC at 1.0 gal per 100 gal of spray solution for weeds 6 inches or less in height. CORVUS may be tank mixed with PARAQUAT, GLYPHOSATE, or 2,4-D if weeds are greater than 6 inches in height. Do use seed or soil-applied CHLORPYRIFOS, TERBUFOS, PHORATE, FONOPHOS, and other organophosphate or carbamate insecticides in the same season as CORVUS. If the water table (level of saturation) is less than 25 feet below the ground surface, do not use CORVUS on soils where the subsoil is loamy sand or sand (i.e., no clay subsoil). Do not apply more than 5.6 fl oz/A of CORVUS per 365 day period. **Rainfast interval = N/A (suggest 1 hour).**

Direx 4 L (diuron)	0.5-0.8 qt	0.5-0.8 lb	7	---	12 hours
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**Comments:** Apply any time from fall through spring prior to planting corn. Heavy textured soils will require higher application rate. DIREX 4L may be tank mixed with other burndown herbicides, consult tank mix partner label for more details. Plant corn at least 1.5" deep and make sure seed slot is closed. *Do not apply more than 1.6 qt/A of DIREX 4L per year.*

ET 0.208 EC (pyraflufen ethyl)	0.5-2.0 oz	0.0008-0.003 lb	14	---	12 hours
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**Comments:** Field corn may be planted any time after ET application. For best result, apply ET to broadleaf weeds less than 4 inches tall or rosettes less than 3 inches in diameter. Ground application requires minimum of 10 gallons/A.

**Preplant/Burndown Herbicides for Weed Management in Field Corn (cont.)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Fierce 76WDG (flumioxazin + pyroxasulfone)	3.0-4.5 oz	0.063-0.094 lb + 0.080-0.120 lb	14  15	60 days	12 hours
Fierce EZ 2.04SC	6.0 fl oz				
<b>Comments:</b> Apply FIERCE/EZ 7 to 30 days prior to planting field corn. Do not apply more than 4.5 oz/A of FIERCE (6.0 fl oz/A of FIERCE EZ) during a single growing season. Add a COC or methylated seed oil at 1 to 2 pt/A or non-ionic surfactant at 0.25% v/v. Use only on no-till or minimum tillage fields where last year's crop residue has not been incorporated into the soil. Do not use on popcorn, sweet corn, or corn grown for seed. Tank mix partners include GLYPHOSATE, 2,4-D LVE, ATRAZINE, BASIS, EXPRESS, HORNET, PYTHON, RESOLVE, SIMAZINE, DICAMBA, PARAQUAT, or WEEDMASTER. Spray equipment, including mixing vessels and nurse tanks, must be cleaned each day following a FIERCE application.					
Keystone NXT 5.6SC (acetochlor + atrazine)	1.4-3.0 qt	1.09-2.33 lb + 0.88-1.88 lb	15  5	60 days	12 hours
<b>Comments:</b> KEYSTONE NXT is a RESTRICTED USE PESTICIDE. Apply KEYSTONE NXT up to 45 days prior to planting field corn; However, planting should be done as close as possible to the time of application of KEYSTONE NXT to provide effective weed control during critical early season corn development. For control of emerged weeds at the time of application, tank mix KEYSTONE NXT with GLYPHOSATE, LIBERTY, BANVEL, CLARITY, 2,4-D, or GRAMOXONE. Do not apply KEYSTONE NXT (acetochlor) to the following soils within 50ft of any well where depth to ground water is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter. Do not apply more than 3.8 qt per of KEYSTONE NXT per season.					
Liberty 280 2.34SL (glufosinate)	29-36 oz	0.53-0.66 lb	10	70 days	12 hours
Interline 2.34SL					
<b>Comments:</b> Thorough spray coverage is essential for optimum performance. Ground application requires a minimum of 15 gallons of water/acre. Dense weed canopies require 20 to 40 gallons per acre. See label for further application instructions and tank-mix partners.					
Glyphosate acid equivalent (ae)			9	---	4 hours
3 lb ae/gal	32-47 oz	0.75-1.13 lb ae			
4.17 lb ae/gal	23-45 oz				
4.5 lb ae/gal	22-32 oz				
<b>Comments:</b> Apply in 10-20 gal of water 2 to 4 weeks prior to your anticipated planting date to control existing groundcover. In most fields, a follow-up application of PARAQUAT will be needed at planting. Consult product label to determine if a surfactant is needed.					
2,4-D LVE (various)	1.0-2.0 pt	0.5-1.0 lb	4	---	48 hours
<b>Comments:</b> Apply 7 to 14 days prior to planting field corn. Do not use on a light, sandy soil, or where soil moisture is limiting weed growth. Very effective for cutleaf evening primrose control. Can be tank-mixed with other burndown herbicides (see label).					

**Preplant/Burndown Herbicides for Weed Management in Field Corn (cont.)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			

<i>Paraquat 2S</i>	2.0-4.0 pt			---	12 hours
		0.5-1.0 lb	22		
<i>Paraquat 3S</i>	1.3-2.7 pt				

**Comments:** PARAQUAT is a RESTRICTED USE PESTICIDE. Apply at planting as a follow-up to an earlier application of GLYPHOSATE. Provides better control of chickweed, henbit, purple deadnettle, and cutleaf eveningprimrose than GLYPHOSATE. Add NIS at 1 qt per 100 gal of spray solution. **Rainfast interval = 30 minutes.**

Hornet 68.5 WDG ( <i>flumetsulam</i> )	4.0-5.0 oz	0.046-0.057 lb	2	85 days	48 hours 14
+		+			
<i>clopyralid</i> )		0.125-0.156 lb	4		

Stanza 68.5 WDG

**Comments:** Apply HORNET up to 30 days before planting corn. If weeds are present at time of application, tank mix HORNET with PARAQUAT, GLYPHOSATE, or 2,4-D. Add COC or NIS at 1.0-2.0 qt per 100 gal of spray solution. **Rainfast interval = 2 hours.**

Leadoff 33.4 DF ( <i>rimsulfuron</i> )	1.5-2.7 oz	0.0157-0.0282 lb	2	---	4 hours
+					
<i>thifensulfuron</i> )		0.0157-0.0282 lb	2		

**Comments:** Apply LEADOFF any time after harvest until right before planting corn. LEADOFF tank mix partners may include GLYPHOSATE, PARAQUAT, 2,4-D LVE, DICAMBA, or GLUFOSINATE. No additional surfactant is needed if tank mixed with GLYPHOSATE or LIBERTY with a built-in adjuvant system. Otherwise, add NIS at 1 qt per 100 gal or COC at 1 gal per 100 gal or MSO at 0.5 gal per 100 gal of spray solution plus an ammonium nitrogen fertilizer (AMS at 2 lb/A or UAN at 2 qt/A). Do not apply postemergence to corn.

Resicore 3.29SC ( <i>acetochlor</i> )	2.25-2.5 qt	1.58-1.75 lb	15	---	12 hours
+		+			
<i>mesotrione</i>		0.17-0.19 lb	27		
+		+			
<i>clopyralid</i> )		0.11-0.12 lb	4		

**Comments:** Apply RESICORE up to 28 days before planting corn. RESICORE should be tank mixed with GLYPHOSATE, PARAQUAT, GLUFOSINATE, and/or 2,4-D for control of existing emerged weeds at the time of application. Do not apply more than 3.25 qt of RESICORE per acre per year. Do not make more than two applications of RESICORE per year. Do not apply RESICORE (acetochlor) to the following soils within 50ft of any well where depth to ground water is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter.

**Preplant/Burndown Herbicides for Weed Management in Field Corn (cont.)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Sharpen 2.85SC (saflufenacil)	2.0-3.0 fl oz	0.045-0.067 lb	14	80 days	12 hours
<p><b>Comments:</b> Apply SHARPEN 14 to 30 days before planting corn. For optimum SHARPEN burndown activity, add MSO at 1 gal per 100 gal of spray solution plus ammonium nitrogen fertilizer (UAN at 1.25-2.5 gals per 100 gal or AMS at 8.5-17 lbs/100 gals). SHARPEN may be tank mixed with GLYPHOSATE, CLARITY, ATRAZINE, STATUS, HARNESS, HARNESS XTRA, VERDICT, PROWL H2O, OUTLOOK, GUARDSMAN MAX, and GUARDSMAN MAX LITE. Do not apply SHARPEN after corn emergence or severe crop injury will occur. Do not apply more than 6.0 fl oz (0.134 lb ai/A) of SHARPEN per cropping season. Do not apply SHARPEN where an at-planting application of an organophosphate or carbamate insecticide is planned or has occurred, or severe crop injury may occur. However, SHARPEN may be applied when AZTEC or FORTRESS insecticides if applied at planting as a BAND, T-BAND, or IN-FURROW. SHARPEN may be applied with all other classes of at-planting insecticides including pyrethroids, neonicotinoids, and fipronil. <b>Rainfast interval = 1 hour.</b></p>					
SureStart II 4.25 (acetochlor + flumetsulam + clopyralid)	1.5-3.0 pt	0.703-1.406 lb + 0.023-0.046 lb + 0.071-0.142 lb	15  2  4	85 days	12 hours
<p><b>Comments:</b> Apply SURESTART II up to 14 days before planting corn. For enhanced control of emerged weeds at the time of burndown application, SURESTART II may be tank mixed with GLYPHOSATE, 2,4-D, LIBERTY, or GRAMOXONE. Do not apply SURESTART II (acetochlor) to the following soils within 50ft of any well where depth to ground water is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter. Do not apply more than 3 pt/A of SURESTART II in a single application.</p>					
Valor SX 51 WDG (flumioxazin)	2.0-3.0 oz	0.064-0.096 lb	14	---	12 hours
<p><b>Comments:</b> Apply 14 to 30 days prior to planting field corn. Do not apply more than 3 oz/A of VALOR SX during a single growing season. Do not irrigate when corn is emerging to the 2-leaf stage. Do not use on popcorn, sweet corn, or corn grown for seed. Can be tank-mixed with other burndown herbicides (see label).</p>					
Verdict 5.57EC (saflufencil + dimethenamid-p)	10-15 fl oz	0.045-0.067 lb + 0.391-0.586 lb	14  15	80 days	12 hours
<p><b>Comments:</b> Apply VERDICT 14 to 30 days before planting corn. For optimum VERDICT burndown activity, add MSO at 1 gal per 100 gal of spray solution plus ammonium nitrogen fertilizer (UAN at 1.25-2.5 gals per 100 gal or AMS at 8.5-17 lbs/100 gals). VERDICT may be tank mixed with GLYPHOSATE, CLARITY, ATRAZINE, STATUS, and SHARPEN. Do not apply VERDICT after corn emergence or severe crop injury will occur. Do not apply more than 0.134 lb ai/A saflufenacil from all product sources per cropping season. Do not apply more than 25 fl oz of VERDICT per cropping season. Do not apply VERDICT where an at-planting application of an organophosphate or carbamate insecticide is planned or has occurred, or severe crop injury may occur. However, VERDICT may be applied when AZTEC 2.1% granular, AZTEC 4.67 G granular, or FORTRESS 5G granular insecticides is applied at planting as a BAND, T-BAND, or IN-FURROW. VERDICT may be applied with all other classes of at-planting insecticides including pyrethroids, neonicotinoids, and fipronil.</p>					

**Preplant/Burndown Herbicides for Weed Management in Field Corn (cont.)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			

Zidua 0.85WG (pyroxasulfone)	1.5-3.0 oz	0.080-0.16 lb	15	--	12 hours
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**Comments:** Apply ZIDUA 15 to 45 days before planting corn. ZIDUA tank mix partners include ATRAZINE, GLYPHOSATE, LIGHTNING, OUTLOOK, PROWL H2O, SHARPEN, and STATUS. On coarse textured soils, do not apply more than 2.75 oz/A of ZIDUA (0.142 lb ai/A of pyroxasulfone) per cropping season. On all other soil types, do not apply more than 5.0 oz/A of ZIDUA (0.266 lb ai/A of pyroxasulfone) per cropping season.

**Weed and Cover Crop Response to Burndown/Preplant Herbicides in Field Corn<sup>1</sup>**

	ET <sup>2</sup>	Glyphosate <sup>2</sup>	Glyphosate + 2,4-D <sup>2</sup>	Glyphosate + Atrazine <sup>2</sup>	Glyphosate + Clarity <sup>2</sup>	Glyphosate + Direx <sup>2</sup>	Glyphosate + Leadoff <sup>2</sup>	Glyphosate + Sharpen <sup>2</sup>	Glyphosate + Valor SX <sup>2</sup>	Gramoxone <sup>2</sup>	Gramoxone + 2,4-D <sup>2</sup>	Gramoxone + Clarity <sup>2</sup>	Gramoxone + Valor SX <sup>2</sup>	Gramoxone + Direx <sup>2</sup>	Liberty <sup>2</sup>
barley, little	F	E	E	E	E	E	E	E	E	G	G	G	G	G	G
bluegrass, annual	G	F	F	E	F	E	E	E	E	G	G	G	G	G	P
buttercups	G	E	E	E	E	E	E	E	E	E	E	E	E	E	E
chickweed, common	G	F	G	E	GE	GE	E	E	E	E	E	GE	E	E	E
clovers	P	PF	F	F	FG	F	G	E	F	G	G	GE	GE	GE	F
cudweed	G	E	E	E	E	E	E	E	E	FG	FG	FG	FG	FG	G
dandelion	P	P	E	GE	E	GE	E	G	G	N	E	GE	P	GE	FG
dock, curly	P	PF	G	G	GE	F	F	F	G	F	FG	GE	P	F	G
eveningprimrose, cutleaf	GE	PF	E	E	GE	GE	E	E	FG	F	E	GE	E	GE	G
geranium, Carolina	GE	FG	E	E	E	GE	E	E	E	GE	E	GE	E	E	GE
henbit/deadnettle	G	F	G	E	GE	E	E	E	E	G	GE	E	E	GE	G
horseweed (marestail)	G	E	GE	E	E	E	GE	E	GE	F	GE	E	GE	GE	GE
mustard, wild	G	FG	E	GE	G	GE	G	E	GE	FG	E	G	GE	G	GE
pansy, field	G	F	F	GE	F	G	---	E	F	G	G	G	G	GE	G
peanut, volunteer	F	F	F	F	G	F	P	GE	FG	P	F	GE	F	F	GE
pepperweed, Virginia	G	G	E	GE	GE	GE	E	E	G	G	GE	G	G	GE	G
radish, wild	G	FG	GE	GE	GE	GE	G	E	GE	G	GE	GE	GE	GE	GE
ryegrass, Italian	F	G	F	GE	F	FG	E	E	G	FG	FG	FG	FG	G	P
sorrel, red	F	E	E	E	E	E	G	G	E	E	E	E	E	E	PF
spurry, corn	G	GE	GE	GE	GE	GE	E	E	G	FG	G	G	G	G	---
swinecress	G	FG	G	G	G	G	E	E	FG	PF	FG	FG	PF	FG	GE
vetch	GE	F	E	E	E	G	E	E	FG	G	GE	GE	GE	G	GE
wheat/rye cover crop	P	E	E	E	E	G	E	E	E	FG	F	F	G	G	F

<sup>1</sup>**Key to Response Ratings:** E = excellent control, 90% or better; G = good control, 80 to 90%; F = fair control 70 to 80%; P = poor control, less than 70%; --- = Insufficient Data.

<sup>2</sup>Herbicide rates for burndown are Atrazine at 1.0 lb/A; ET at 1.0 oz/A; Glyphosate at 0.75 lb ae/A (22 oz/A of 4.5 lb ae/gal or 32 oz/A of 3.0 lb ai/gal); 2,4-D at 1-2 pt/A; Clarity at 8 oz/A; Direx at 1.6 pt/A; Leadoff at 1.5 oz/A; Sharpen at 1.0 oz/A; Gramoxone at 3.0 pt/A; Valor SX at 2.0 oz/A; and Liberty at 29 oz/A.

**Weed Response to Soil Applied Preemergence Herbicides for Corn Weed Management<sup>1</sup>**

	Acuron	Anthem	Anthem ATZ	Atrazine (ATZ)	Acetochlor	Acetochlor+ATZ	Alachlor	Alachlor+ATZ	Balance Flexx	Corvus	Dimethenamid-p	Hornet
anoda, spurred	G	---	GE	GE	---	GE	---	GE	---	---	---	G
barnyardgrass	FG	E	E	G	E	E	E	E	E	E	E	P
beggarweed, Florida	G	---	E	E	F	P	---	E	---	---	P	FG
bermudagrass	P	P	P	P	P	P	P	P	P	P	P	P
citronmelon	---	---	G	G	P	G	P	G	---	---	P	---
cocklebur, common	G	P	GE	GE	P	GE	P	GE	F	F	P	E
crabgrass	E	E	E	G	E	E	E	E	E	E	E	P
cowpea	E	P	E	E	P	E	P	E	GE	GE	P	G
crotalaria, showy	---	P	GE	GE	P	GE	P	GE	GE	GE	P	G
croton, tropic	E	P	G	G	P	G	P	G	GE	GE	P	P
crowfootgrass	E	GE	GE	G	E	E	E	E	E	E	E	P
dayflower, Benghal	GE	GE	GE	F	GE	GE	---	---	---	---	F	---
eclipta	GE	G	GE	GE	---	GE	---	GE	GE	GE	---	---
goosegrass	E	GE	GE	G	E	E	E	E	E	E	E	P
jimsonweed	E	---	E	E	P	E	P	E	E	E	P	GE
johnsongrass, seedling	E	---	---	P	P	P	P	P	GE	GE	P	P
johnsongrass, rhizome	P	P	P	P	P	P	P	P	P	P	P	P
lambsquarters, common	---	---	E	E	F	E	FG	E	G	G	F	E
morningglory, annual	G	P	G	G	P	G	P	G	F	F	P	FG
nutsedge, purple	P	P	P	P	P	P	P	P	P	P	P	P
nutsedge, yellow	FG	P	P	P	F	FG	F	FG	P	P	FG	P
panicum, fall	E	GE	GE	P	E	E	E	E	GE	GE	E	P
panicum, Texas	F	F	F	P	PF	P	PF	PF	F	F	PF	P
pigweed	E	GE	E	E	G	E	G	E	E	E	G	E
ALS-resistant	E	GE	E	E	G	E	G	E	E	E	G	E
DNA-resistant	E	GE	E	E	G	E	G	E	E	E	G	E
poinsettia, wild	---	---	GE	GE	P	GE	P	GE	G	G	P	G
purslane, common	E	---	E	E	G	E	G	E	G	G	G	---
pusley, Florida	E	G	E	E	GE	E	GE	E	---	---	GE	G
ragweed, common	E	---	E	E	P	E	P	E	GE	GE	P	G
ryegrass, annual	---	GE	GE	---	---	---	---	---	---	---	---	P
sandbur, field	GE	GE	GE	P	FG	FG	FG	FG	F	F	FG	P
senna, coffee	GE	---	FG	FG	P	FG	P	FG	G	G	P	---
sesbania, hemp	GE	---	FG	FG	P	FG	P	FG	G	G	P	---
sicklepod	E	F	G	G	P	G	P	G	GE	GE	P	FG
sida, prickly	E	---	E	E	P	E	P	E	G	G	F	E
signalgrass, broadleaf	GE	FG	FG	P	G	G	FG	FG	G	G	G	P
smartweed, Pennsylvania	GE	P	GE	GE	P	GE	P	GE	GE	GE	P	G
spurge	GE	---	GE	GE	---	GE	---	GE	GE	GE	---	G
starbur, bristly	GE	---	GE	GE	PF	GE	P	GE	G	G	P	G
velvetleaf	E	P	G	G	P	G	P	G	G	G	P	E
vol. peanut	G	P	GE	E	P	GE	P	GE	GE	GE	P	GE

<sup>1</sup>Key to Response Ratings: E = excellent control, 90% or better; G = good control, 80 to 90%; F = fair control, 70 to 80%; P = poor control, less than 70%; --- = Insufficient Data.

**Weed Response to Soil Applied Preemergence Herbicides for Corn Weed Management(cont)<sup>1</sup>**

	Instigate	Lumax/Lexar	S-Metolachlor	S-Metolachlor+ATZ	Princep	Prowl	Pythou	Resolve	Sharpen	SureStart II	Verdict	Zidua/Zidua SC
anoda, spurred	---	GE	---	GE	G	---	G	---	---	GE	---	---
Barnyardgrass	GE	GE	E	E	G	GE	P	G	P	GE	E	E
beggarweed, Florida	---	E	F	E	G	---	FG	---	---	---	---	P
Bermudagrass	P	P	P	P	P	P	P	P	P	P	P	P
citronmelon	---	---	P	G	F	---	---	---	---	G	---	P
cocklebur, common	G	GE	P	GE	G	P	E	G	G	GE	G	P
crabgrass	GE	GE	E	E	G	GE	P	G	P	GE	E	P
cowpea	---	E	P	E	G	P	G	---	E	E	G	E
crotalaria, showy	---	GE	P	GE	G	---	G	G	G	GE	P	P
croton, tropic	G	G	P	G	G	P	P	---	---	GE	---	---
crowfootgrass	GE	E	E	E	G	E	P	G	P	E	E	E
dayflower, Benghal	---	---	GE	GE	---	---	---	---	---	---	F	GE
eclipta	G	GE	---	GE	GE	G	G	---	GE	GE	GE	---
goosegrass	GE	---	E	E	G	E	P	F	P	E	E	GE
jimsonweed	GE	E	P	E	E	P	GE	G	G	G	G	GE
johnsongrass, seedling	GE	F	F	F	P	E	P	F	P	P	P	GE
johnsongrass, rhizome	P	P	P	P	P	P	P	P	P	P	P	P
lambquarters, common	G	E	G	E	E	G	E	G	E	E	E	G
morningglory, annual	FG	G	P	G	G	P	FG	F	G	FG	G	P
nutsedge, purple	P	P	P	P	P	P	P	P	P	P	P	P
nutsedge, yellow	P	FG	FG	FG	P	P	P	P	P	P	FG	FG
panicum, fall	GE	GE	E	E	G	FG	P	G	P	E	E	GE
panicum, Texas	GE	PF	PF	P	P	PF	P	F	P	PF	PF	FG
pigweed	G	E	G	E	E	FG	E	FG	E	E	E	GE
ALS-resistant	G	E	G	E	E	FG	P	P	E	E	E	GE
DNA-resistant	G	E	G	E	E	P	E	FG	E	E	E	GE
poinsettia, wild	---	---	P	GE	G	P	G	---	---	GE	---	---
purslane, common	G	G	G	E	---	GE	---	---	---	GE	G	---
pusley, Florida	G	---	GE	E	G	E	G	---	F	GE	F	G
ragweed, common	G	E	PF	E	E	P	G	F	---	G	---	---
ryegrass, annual	GE	---	G	G	E	FG	P	F	P	---	---	G
sandbur, field	GE	FG	FG	FG	G	GE	P	---	---	---	GE	GE
senna, coffee	G	---	P	F	---	P	FG	G	---	FG	---	---
sesbania, hemp	G	---	P	F	---	P	FG	G	---	FG	---	---
sicklepod	GE	G	P	G	G	P	FG	FG	GE	G	GE	F
sida, prickly	---	FG	P	E	E	P	E	F	G	G	F	G
signalgrass, broadleaf	FG	FG	FG	FG	P	GE	P	F	P	FG	FG	G
smartweed, Pennsylvania	G	GE	P	GE	G	P	G	G	G	G	P	P
spurge	G	G	---	GE	G	G	---	---	GE	GE	G	G
starbur, bristly	---	G	P	GE	GE	P	G	---	P	G	P	---
velvetleaf	GE	G	P	G	G	P	E	F	G	E	G	P
vol. peanut	F	G	P	GE	G	P	P	P	---	GE	---	P

<sup>1</sup>Key to Response Ratings: E = excellent control, 90% or better; G = good control, 80 to 90%; F = fair control, 70 to 80%; P = poor control, less than 70%; --- = Insufficient Data.

## Important Ground and Surface Water Considerations Regarding the Use of Atrazine and Simazine Containing Herbicide Products.

ATRAZINE and SIMAZINE users are strongly encouraged to follow label guidelines, discussed below, to share in the responsibility of preserving the future use of ATRAZINE and SIMAZINE. These restrictions apply to all formulations of ATRAZINE and SIMAZINE, and all pre-mix package products that contain ATRAZINE and SIMAZINE.

**Application Rate Restrictions:** For soils that are not defined as highly erodible, the maximum use rate for ATRAZINE is 2.0 lb ai (active ingredient) per acre and for SIMAZINE is 2.0 lb ai per acre per season. For soils classified as highly erodible (as defined by NRCS), If conservation tillage is practiced with at least 30 percent crop residue coverage at planting, the maximum use rate is 2.0 lb ai per acre for ATRAZINE and SIMAZINE. If crop residue coverage is less than 30 percent, then the maximum rate for ATRAZINE and SIMAZINE is 1.6 lb ai per acre. If ATRAZINE **was not** applied prior to corn emergence, then the total amount applied should not exceed 2.0 lb ai per acre. If ATRAZINE was applied to a field preemergence, then the total amount of ATRAZINE **should not** exceed 2.5 lb ai per acre per calendar year. The total amount of SIMAZINE **should not** exceed 2.0 lb ai per acre per calendar year.

**Setbacks:** Operations that involve mixing, loading, rinsing, or washing ATRAZINE or SIMAZINE within 50 feet of wells (including abandoned wells, drainage wells, or sink holes), rivers, intermittent streams, lakes, or reservoirs is prohibited. This restriction does not apply to operations within a properly designed impervious pads and diked mixing/loading areas. ATRAZINE or SIMAZINE must not be applied aerially or by ground equipment within 66 feet of points where field surface water enters perennial or intermittent streams and rivers or within 200 feet around natural or impounded lakes and reservoirs. If ATRAZINE or SIMAZINE is applied to highly erodible land, the 66-foot buffer or setback from runoff entry points must be planted to crop, seeded with grass, or other suitable crop.

If ATRAZINE or SIMAZINE is applied to tile-terraced fields containing standpipes, then users are advised to follow one the following restrictions: 1) do not apply ATRAZINE or SIMAZINE within 66 feet of standpipes; 2) After applying ATRAZINE or SIMAZINE to the entire field, immediately incorporate it to a depth of 2-3 inches; or 3) Apply ATRAZINE or SIMAZINE to the entire field under conservation tillage practices where high crop residue levels are present.

### Examples of Herbicide Products that Contain Atrazine or Simazine

Trade Name	Active Ingredient(s)	Trade Name	Active Ingredient(s)
Aatrex	<i>atrazine</i>	Harness Xtra	<i>acetochlor + atrazine</i>
Bicep II Magnum	<i>atrazine + s-metolachlor</i>	Guardman MAX	<i>dimethenamid-p + atrazine</i>
Bicep Lite II Magnum	<i>atrazine + s-metolachlor</i>	Keystone	<i>acetochlor + atrazine</i>
Bullet	<i>alachlor + atrazine</i>	Lariat	<i>alachlor + atrazine</i>
Cinch ATZ	<i>s-metolachlor + atrazine</i>	Lumax	<i>s-metolachlor + atrazine + mestrione</i>
Degree Xtra	<i>acetochlor + atrazine</i>	Marksman	<i>dicamba + atrazine</i>
Expert	<i>glyphosate + s-metolachlor + atrazine</i>	Princep	<i>simazine</i>
Fultime	<i>acetochlor + atrazine</i>	Steadfast ATZ	<i>nicosulfuron + rimsulfuron + atrazine</i>

## Management of Glyphosate-Resistant Palmer Amaranth in Field Corn

Palmer amaranth populations have been documented in South Carolina to be resistant to acetolactate synthase (ALS) inhibiting herbicides (i.e., Accent, Resolve, Steadfast, and Option) and dinitroaniline (yellow) herbicides (i.e., Prowl), and glyphosate (i.e., Roundup, Touchdown). The following table is designed to aid producers in managing and/or preventing herbicide-resistant Palmer amaranth populations in corn.

Seed Program	Herbicide Program		
	PRE <sup>1</sup>	POST <sup>2</sup>	POST-DIRECTED <sup>3</sup>
<i>Conventional Hybrids</i>			
	atrazine, Harness, Bicep II Magnum, Cinch ATZ, Guardman, Lexar, Corvus, Verdict, Sharpen, Bullet, Breakree, Balance Flexx, Acuron	dicamba, Status, 2,4-D, Impact, Laudis, Callisto, Capreno, atrazine, Armezon, Balance Flexx, Acuron	2,4-D, Evik, Lorox, Status, Clarity
	No PRE applied	dicamba, Laudis, Callisto, Impact Corvus, Capreno, Balance Flexx, Marksman, Buctril + atrazine	
<i>Liberty-Link Hybrids</i>			
	atrazine, Harness, Bicep II Magnum, Cinch ATZ, Guardman, Lexar, Corvus, Verdict, Sharpen, Bullet, Breakree, Balance Flexx	Liberty + Banvel or Clarity, Liberty + dicamba Liberty + 2,4-D Liberty + Armezon Liberty + Warrant	2,4-D, Evik, Lorox, Status, Clarity
	No PRE applied	Liberty + atrazine + Callisto Liberty + dicamba Liberty + atrazine + Laudis Liberty + atrazine + Impact Liberty + atrazine + Warrant	
<i>Roundup Ready Hybrids</i>			
	atrazine, Harness, Bicep II Magnum, Cinch ATZ, Guardman, Lexar, Corvus, Verdict, Sharpen, Bullet, Breakree, Balance Flexx	glyphosate + atrazine glyphosate + dicamba glyphosate + 2,4-D glyphosate + Armezon glyphosate + Warrant Halex GT	2,4-D, Evik, Lorox, Status, Clarity
	No PRE applied	glyphosate + s-metolachlor + atrazine glyphosate + atrazine + Laudis glyphosate + s-metolachlor + Callisto glyphosate + atrazine + Impact glyphosate + atrazine + Warrant Halex GT	

<sup>1</sup> PRE = Preemergence. Apply to soil surface after all tillage and planting has occurred.

<sup>2</sup> POST = Postemergence. Consult individual product labels for corn height restrictions, e.g., atrazine applied POST limited to corn 12 inches tall or less.

<sup>3</sup> Consult individual product label regarding specific corn height restrictions.

### Preemergence Herbicides for Weed Management in Field Corn

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Acuron 3.44 SC ( <i>s-metolachlor</i> + <i>atrazine</i> + <i>mesotrione</i> + <i>bicyclopyrone</i> )	2.5 qt	1.34 lb + 0.625 lb + 0.15 lb + 0.038 lb	15  5  27  27	60 days	24 hours
<b>Comments:</b> ACURON is a RESTRICTED USE PESTICIDE. Provides good to excellent control of most grass and broadleaf weeds. Tank mix partners include ATRAZINE, PRINCEP, GLYPHOSATE, and WARRIOR.					
Aatrex 4 SC ( <i>atrazine</i> )	1.6-2.0 qt	1.6-2.0 lb	5	60 days	12 hours
<b>Comments:</b> ATRAZINE is a RESTRICTED USE PESTICIDE. Use to control mostly broadleaf weeds and a few grasses. Tank mix with ACETOCHLOR, S-METOLACHLOR, ALACHLOR, or DIMETHENAMID-P for improved grass control.					
<i>Acetochlor</i>			15	120 days	12 hours
(Breakfree 6.4 EC Harness 7 E Harness 20 G Surpass 6.4 EC Surpass NXT 7EC TopNotch 3.2 ME Degree 3.8 ME)	1.5-2.5 pt 1.5-3.0 pt 6.0-10.0 lb 1.5-2.5 pt 1.25-2.25 pt 2.0-3.0 qt 2.25-4.25 pt	1.2-2.0 lb 1.3-2.6 lb 1.2-2.0 lb 1.2-2.0 lb 1.1-2.0 lb 1.6-2.4 lb 1.1-2.0 lb			
<b>Comments:</b> HARNESS is a RESTRICTED USE PESTICIDE. Controls most annual grasses ( <i>except Texas panicum</i> ) and small-seeded broadleaf weeds. ACETOCHLOR can be tank-mixed with ATRAZINE for improved broadleaf weed control. Do not apply ACETOCHLOR to the following soils within 150ft (50ft for SURPASS/NXT) of any well where depth to ground water is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter. Do not apply more than 3 lb ai ACETOCHLOR per acre per year.					
<i>Alachlor</i> (Micro-Tech 4 ME)	2.0-2.75 qt	2.0-2.75 lb	15	None	12 hours
<b>Comments:</b> MICRO-TECH is a RESTRICTED USE PESTICIDE. Controls small seeded annual grasses ( <i>except Texas panicum</i> ) and broadleaf weeds.					
Anthem 2.15EC ( <i>pyroxasulfone</i> + <i>fluthiacet-methyl</i> )	5.0-10.0 fl oz	0.082-0.163 lb + 0.003-0.005 lb	15  14	70 days	12 hours
<b>Comments:</b> Provides small seeded grass and broadleaf weed control. Application rate is based on soil texture: coarse textured 5.0-8.0 fl oz/A; medium textured 6.5-10.0 fl oz/A. Tank mix with ATRAZINE, BALANCE, or HORNET for control of additional weed species.					

**Preemergence Herbicides for Weed Management in Field Corn (cont)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			

Anthem ATZ 4.505 SC (atrazine + pyroxasulfone + fluthiacet-methyl)	1.75-2.5 pt	0.88-1.25 lb + 0.106-0.152 lb + 0.003-0.004 lb	5  15  14	60 days	12 hours
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**Comments:** ANTHEM ATZ is a RESTRICTED USE PESTICIDE. Application rate is based on soil texture: coarse textured 1.75-2 pt/A; medium textured 2.0-2.5 pt/A. Provides small seeded grass and broadleaf weed control. Tank mix with ATRAZINE, BALANCE, or HORNET for control of additional weed species.

Balance Flexx 2 SC (isoxaflutole + atrazine 4 SC)	6.0 fl oz  + 1.5 qt	0.094 lb + 1.5 lb	27  5	45 days	12 hours
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**Comments:** BALANCE FLEXX is a RESTRICTED USE PESTICIDE. Apply BALANCE FLEXX during planting (behind the planter after furrow closure) or after planting, but before weeds emerge. Failure to thoroughly close and firm the seed furrow may allow herbicide to directly contact seed which can cause injury. Controls *glyphosate- and ALS-resistant Palmer amaranth*. Add 1.5 lb/A ATRAZINE to enhance residual control of weeds. If the water table (level of saturation) is less than 25 feet below the ground surface, do not use BALANCE FLEXX on soils where the subsoil is loamy sand or sand (i.e., no clay subsoil).

Bicep II Magnum 5.5 SC (s-metolachlor + atrazine)	1.3-2.1 qt	0.78-1.27 lb + 1.0-1.63 lb	15  5	60 days	24 hours
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**Comments:** BICEP II MAGNUM is a RESTRICTED USE PESTICIDE. Application use rate is based on soil texture: Sandy soils = 1.3-1.6 qt/A, Medium textured soils = 1.6-2.1 qt/A. Use higher rate for each soil type if applying in a reduced tillage system. Available as a pre-mix with glyphosate (EXPERT).

Breakfree ATZ 5.25 SC (acetochlor + atrazine)	2.2-2.8 qt	1.65-2.1 lb + 1.24-1.58 lb	15  6	60 days	12 hours
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**Comments:** BREAKFREE ATZ is a RESTRICTED USE PESTICIDE. Application use rate is based on soil texture and organic matter content: Sandy soils = 2.2-2.6 qt/A, medium textured soils = 2.4-2.8 qt/A. Use higher rate for each soil texture if applying in a reduced tillage system. Do not apply BREAKFREE ATZ to the following soils within 150ft of any well where depth to ground water is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter. Do not apply more than 3 lb ai ACETOCHLOR per acre per year. Do not apply ACETOCHLOR through any irrigation system or using aerial application equipment.

**Preemergence Herbicides for Weed Management in Field Corn (cont)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Bullet 4 ME Lariat 4 EC (alachlor + atrazine)	2.5-3.75 qt	1.56-2.34 lb + 0.94-1.41 lb	15  5	60 days	12 hours

**Comments:** BULLET and LARIAT are RESTRICTED USE PESTICIDES. Application rate is based on soil type and organic matter: Sandy soils = 2.5-3.0 qt/A, medium textured soils = 3.0-3.75 qt/A. Use higher rate for each soil type if applying in a reduced tillage system.

Corvus 2.63 SC (thiencarbazone + isoxaflutole) + atrazine 4 SC	3.33 fl oz   + 1.0 qt	0.012 lb + 0.049 lb + 1.0 lb	2  27  5	45 days	12 hours
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**Comments:** CORVUS is a RESTRICTED USE PESTICIDE. Apply CORVUS during planting (behind the planter after furrow closure) or after planting, but before weeds emerge. Failure to thoroughly close and firm the seed furrow row may allow herbicide to directly contact seed which can cause injury. Controls *glyphosate- and ALS-resistant Palmer amaranth*, sicklepod, and prickly sida. Add 1.0 lb/A ATRAZINE to enhance residual control of weeds. If the water table (level of saturation) is less than 25 feet below the ground surface, do not use CORVUS on soils where the subsoil is loamy sand or sand (i.e., no clay subsoil).

Cinch ATZ 5.5 SC (s-metolachlor + atrazine)	2.6-3.2 pt	0.78-0.96 lb + 1.0-1.24 lb	15  5	60 days	24 hours
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**Comments:** CINCH ATZ is a RESTRICTED USE PESTICIDE. Application rate is based on soil type: Sandy soils = 2.6 pt/A, medium textured soils = 3.2 pt/A. Use higher rate for each soil type if applying in a reduced tillage system.

Dimethenamid-p (Outlook 6 EC)	10-16 oz	0.47-0.75 lb	15	40 days	12 hours
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**Comments:** Controls most annual grasses (except *Texas panicum*) and some broadleaf weeds. DIMETHENAMID-P may be tank-mixed with ATRAZINE or SIMAZINE.

FulTime NXT 4.04 SC (acetochlor + atrazine)	2.0-3.7 qt	1.35-2.50 lb 0.67-1.24 lb	15  5	60 days	12 hours
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**Comments:** FULTIME NXT is a RESTRICTED USE PESTICIDE. The application rate of FULTIME NXT is based on organic matter content of the soil: For soils with less than 1.5% organic matter, application rate range is 2.0-2.9 qt/A. For soils with 1.5% organic matter or more, the application rate range is 2.3-3.7 qt/A. Use only on sorghum seed treated with a safener. Do not apply FULTIME to the following soils within 50ft of any well where depth to ground water is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter. Do not apply more than 3 lb ai ACETOCHLOR per acre per year.

### Preemergence Herbicides for Weed Management in Field Corn (cont)

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Hornet 68.5 WDG (flumetsulam + clopyralid)	4.0-5.0 oz	0.046-0.057 lb + 0.125-0.156 lb	2  4	85 days	48 hours
Stanza 68.5 WDG					
<b>Comments:</b> Apply HORNET at the time of planting or after planting, but prior to crop or weed emergence. Corn must be planted a minimum of 1.5 inches deep. Application of HORNET WDG or STANZA on soils with less than 1.5% organic matter may result in crop injury. Soil applied organophosphate insecticides should be applied in a T-band or a band to avoid potential crop injury. Do not apply HORNET WDG or STANZA if COUNTER ( <i>terbufos</i> ) or THIMET ( <i>phorate</i> ) insecticides were applied previously. Other corn insecticides should be applied in a T-band to avoid injury. <i>Do not plant cotton within 18 months of application.</i>					
Instigate 45.8 WDG (rimsulfuron + mesotrione)	6.0 oz	0.034 lb + 0.34 lb	2  27	None	12 hours
<b>Comments:</b> Apply INSTIGATE after corn planting but before crop emergence. Seed furrow must be firmly closed so that INSTIGATE spray does not contact the seed. Do not apply more than 0.0625 lb ai of RIMSULFURON (i.e., from LEADOFF, PREQUEL, REALM Q, or STEADFAST Q) during the crop year. Do not apply COUNTER ( <i>terbufos</i> ) within 60 days of a preemergence or preplant application of INSTIGATE. Do not apply INSTIGATE preemergence to coarse-textured soils (sand, loamy sand, or sandy loam) with less than 1% organic matter. INSTIGATE may be tank mixed with ATRAZINE, GLYPHOSATE, DICAMBA, 2,4-D, CINCH, or BREAKFREE.					
Keystone NXT 5.6 SC (acetochlor + atrazine)	1.4-3.0 qt	1.09-2.33 lb + 0.88-1.88 lb	15  5	60 days	12 hours
<b>Comments:</b> KEYSTONE NXT is a RESTRICTED USE PESTICIDE. Apply KEYSTONE NXT after planting (or after corn emergence up to 11 inches in height). Planting should be done as close as possible to the time of application of KEYSTONE NXT to provide effective weed control during critical early season corn development. Do not apply more than 3.8 qt per of KEYSTONE NXT per season. KEYSTONE NXT may be tank mixed with AIM, ATRAZINE, BALANCE PRO, BALANCE FLEXX, BANVEL, CALLISTO, CALLISTO XTRA, CLARITY, DISTINCT, DURANGO DMA, HORNET WDG, LINEX 4L, LOROX DF, MARKSMAN, PRINCEP, PYTHON WDG, RESOURCE, or 2,4-D.					
Lexar 3.7 SC (s-metolachlor + mesotrione + atrazine)	3.0 qt	1.31 lb + 0.17 lb + 1.31 lb	15  27  5	60 days	24 hours
<b>Comments:</b> LEXAR is a RESTRICTED USE PESTICIDE. Apply LEXAR after planting (or after corn emergence up to 12 inches in height). Do not apply more than 3.5 qt per acre of LEXAR per season. LEXAR may be tank mixed with 2,4-D, ATRAZINE, PRINCEP, GRAMOXONE, GLYPHOSATE, LIBERTY, and WARRIOR. Conduct a tank mix compatibility test each time 2,4-D is added to the tank mixture with LEXAR. Temporary corn injury may occur if LEXAR is applied to emerged corn that has received an at-plant application of an organophosphate insecticide (except COUNTER). Do not make a postemergence application of LEXAR to emerged corn with any organophosphate or carbamate insecticide, or severe crop injury may occur. Do not apply a solo HPPD inhibitor postemergence (i.e., CALLISTO, IMPACT, or LAUDIS) to ground that has been treated with LEXAR in the same season.					

**Preemergence Herbicides for Weed Management in Field Corn (cont)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Lumax 3.95 SC ( <i>s-metolachlor</i> + <i>mesotrione</i> + <i>atrazine</i> )	2.5 qt	1.68 lb + 0.17 lb + 0.63 lb	15  27  5	60 days	24 hours
<b>Comments:</b> LUMAX is a RESTRICTED USE PESTICIDE. Apply LUMAX after planting (or after corn emergence up to 12 inches in height). Do not apply more than 3.0 qt per acre of LUMAX per season. LUMAX may be tank mixed with ATRAZINE, PRINCEP, GRAMOXONE, GLYPHOSATE, LIBERTY, and WARRIOR. Tank mixes with 2,4-D are allowed but should be done with extreme care with regard to compatibility before mixing a load. 2,4-D batches vary greatly and should be tested for compatibility each time a water or carrier source, water or carrier temperature, product source, or tank mixture recipe is changed.					
Prowl H <sub>2</sub> O 3.8 CS ( <i>pendimethalin</i> )	1.55-3.13 pt	0.74-1.49 lb	3	21 days	24 hours
Prowl 3.3 EC	1.8-3.6 pt	0.74-1.49 lb			
<b>Comments:</b> Do not apply <i>pendimethalin</i> preplant incorporated or serious corn injury may result. Plant corn at least 1.5 in. deep. Corn seed must be completely covered with soil. Apply after planting before emergence of weeds. Use the higher rates on fine-textured soils. In case of stand failure, corn seed should be replanted below the herbicide treated zone. Add ATRAZINE at 1.0 to 2.0 qt/A for control of broadleaf weeds.					
Python 80 WDG ( <i>flumetsulam</i> )	1.0 oz	0.05 lb	2	85 days	12 hours
<b>Comments:</b> For areas where ATRAZINE cannot be used or in fields prone to flooding where soybeans may be re-planted. Plant corn at least 1.5" deep. Mix with a preemergence grass herbicide and apply on the surface. Soil applied organophosphate insecticides should be applied in a T-band or a band to avoid potential crop injury. Do not apply PYTHON if COUNTER or THIMET insecticides were applied previously. Other corn insecticides should be applied in a T-band to avoid injury. <i>Do not plant cotton within 18 months of application.</i>					
Resicore 3.29SC ( <i>acetochlor</i> + <i>mesotrione</i> + <i>clopyralid</i> )	2.25-2.5 qt	1.58-1.75 lb + 0.17-0.19 lb + 0.11-0.12 lb	15  27  4	---	12 hours
<b>Comments:</b> Apply RESICORE after planting corn into a clean seedbed. RESICORE may be tank mixed with ATRAZINE for enhance residual broadleaf weed activity. Do not apply more than 3.25 qt of RESICORE per acre per year. Do not make more than two applications of RESICORE per year. Do not apply RESICORE ( <i>acetochlor</i> ) to the following soils within 50ft of any well where depth to ground water is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter.					
Resolve 25 DF ( <i>rimsulfuron</i> )	0.5-2.0 oz	0.008-0.031 lb	2	30 days	4 hours
<b>Comments:</b> Controls most annual grasses and broadleaves including broadleaf signalgrass. For control of emerged weeds at the time of application, add NIS at 1 qt/100 gal or COC at 1 gal/100 gal of spray solution plus 2 qt/A of UAN (28-32% N) or 2 lb/A of spray grade AMS.					

**Preemergence Herbicides for Weed Management in Field Corn (cont)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
(s)-metolachlor			15	30 days	24 hours
(Dual 8E/II	1.5-2.0 pt	1.5-2.0 lb			
Dual 25G/II G Mag.	6.0-8.0 lb	1.5-2.0 lb			
Dual Mag.7.62 EC	1.0-1.33 pt	0.96-1.27 lb			
Dual II Mag. 7.64 EC	1.0-1.33 pt	0.96-1.27 lb			
Cinch 7.64 EC)	1.0-1.33 pt	0.96-1.27 lb			

**Comments:** METOLACHLOR and S-METOLACHLOR can be tank mixed with ATRAZINE. Generic formulations of METOLACHLOR are also available. DUAL II and DUAL II MAGNUM contain a safener that helps reduce the possibility of injury from S-METOLACHLOR applications.

Sharpen 2.85SC	2.0-3.0 fl oz			80 days	12 hours
(saflufenacil)		0.045-0.067 lb	14		

**Comments:** Apply SHARPEN after planting but before crop emergence. For control of weeds that are emerged at time of planting, add MSO at 1 gal per 100 gal of spray solution plus ammonium nitrogen fertilizer (UAN at 1.25-2.5 gals per 100 gal or AMS at 8.5-17 lbs/100 gals). SHARPEN may be tank mixed with GLYPHOSATE, CLARITY, ATRAZINE, STATUS, HARNESS, HARNESS XTRA, VERDICT, PROWL H2O, OUTLOOK, GUARDSMAN MAX, and GUARDSMAN MAX LITE. Do not apply SHARPEN after corn emergence or severe crop injury will occur. Do not apply more than 6.0 fl oz (0.134 lb ai/A of saflufenacil) of SHARPEN per cropping season. Do not apply SHARPEN where an at-planting application of an organophosphate or carbamate insecticide is planned or has occurred, or severe crop injury may occur. However, SHARPEN may be applied when AZTEC or FORTRESS insecticides if applied at planting as a BAND, T-BAND, or IN-FURROW. SHARPEN may be applied with all other classes of at-planting insecticides including pyrethroids, neonicotinoids, and fipronil.

SureStart II 4.25	1.5-3.0 pt			85 days	12 hours
(acetochlor		0.703-1.406 lb	15		
+		+			
flumetsulam		0.023-0.046 lb	2		
+		+			
clopyralid)		0.071-0.142 lb	4		

**Comments:** SURESTART II is a RESTRICTED USE PESTICIDE. Apply SURESTART II after planting (or after crop emergence up to 11 inches in height) into a clean seedbed. Plant corn at least 1.5" deep. Use of SURESTART II on soils with less than 1.5% organic matter may result in crop injury. If an ALS herbicide such as CANOPY, CLASSIC, PURSUIT, SCEPTER, or SQUADRON was applied in the previous year, apply SURESTART II to corn only if the rotational restrictions have been met. Extended cold, wet conditions following application of SURESTART II to corn during germination and early crop development may result in crop injury. Injury symptoms including yellowing leaves or stunting are usually temporary and plants recover without affecting yield. Soil applied organophosphate insecticides (except TERBUFOS or PHORATE) must be applied in a T-band or a band and not in-furrow to avoid potential crop injury. Do not use COUNTER (TERBUFOS) or THIMET (PHORATE) insecticides. Other corn soil insecticides from other classes of chemistry may be applied in-furrow, T-banded, or banded. Do not apply SURESTART II (acetochlor) to the following soils within 50ft of any well where depth to ground water is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter. Do not apply more than 3 pt/A of SURESTART II in a single application. *Do not plant cotton within 18 months of application.*

**Preemergence Herbicides for Weed Management in Field Corn (cont)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			

Verdict 5.57EC (saflufenil + dimethenamid-p)	10-15 fl oz	0.045-0.067 lb + 0.391-0.586 lb	14  15	80 days	12 hours
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**Comments:** Apply VERDICT after corn planting but before crop emergence. If weeds are present at planting, add MSO at 1 gal per 100 gal of spray solution plus ammonium nitrogen fertilizer (UAN at 1.25-2.5 gals per 100 gal or AMS at 8.5-17 lbs/100 gals). VERDICT may be tank mixed with GLYPHOSATE, CLARITY, ATRAZINE, STATUS, and SHARPEN. Do not apply VERDICT after corn emergence or severe crop injury will occur. Do not apply more than 0.134 lb ai/A saflufenacil from all product sources per cropping season. Do not apply more than 25 fl oz of VERDICT per cropping season. Do not apply VERDICT where an at-planting application of an organophosphate or carbamate insecticide is planned or has occurred, or severe crop injury may occur. However, VERDICT may be applied when AZTEC 2.1% granular, AZTEC 4.67 G granular, or FORTRESS 5G granular insecticides is applied at planting as a BAND, T-BAND, or IN-FURROW. VERDICT may be applied with all other classes of at-planting insecticides including pyrethroids, neonictinoids, and fipronil.

Warrant 3.0 ME (acetochlor)	1.5-2.75 qt	1.125-2.063 lb	15	---	12 hours
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**Comments:** Apply WARRANT after corn planting but before weeds germinate. Provides residual control of small seeded broadleaves and grasses. The optimum rate of WARRANT is 3 pt/A. Do not exceed 4.0 qt/A of WARRANT per season. Labeled tank mix partners include AIM, BALANCE PRO, BALANCE FLEXX, CALLISTO, CLARITY, DISTINCT, GLYPHOSATE, LINEX 4L, LOROX DF, MARKSMAN, PRINCEP, RESOURCE, 2,4-D, ATRAZINE, and PARAQUAT. Do not apply ACETOCHLOR within 50ft of any well where depth to ground water is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter. Application of WARRANT followed by poor environmental conditions (cool wet soils and/or waterlogged soils) may result in crop response. Do not use WARRANT preplant, at-planting, or preemergence to sweet corn.

Zidua 0.85WG (pyroxasulfone)	1.5-3.0 oz	0.080-0.16 lb	15	---	12 hours
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Zidua SC 4.17SC	2.5-5.0 fl oz				
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**Comments:** Apply ZIDUA after planting corn but before crop emergence. Corn seed must be planted at least 1 inch deep. ZIDUA tank mix partners include ATRAZINE, GLYPHOSATE, LIGHTNING, OUTLOOK, PROWL H2O, SHARPEN, and STATUS. On coarse textured soils, do not apply more than 2.75 oz/A of ZIDUA or 4.5 fl oz/A of ZIDUA SC per cropping season. On all other soil types, do not apply more than 5.0 oz/A of ZIDUA or 8.25 fl oz/A of ZIDUA SC per cropping season.

2,4-D LVE (various)	1.0-2.0 pt	0.5-1.0 lb	4	---	48 hours
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**Comments:** Apply after planting field corn, but before crop emergence to control existing broadleaf weed seedlings. Do not use on a light, sandy soil, or where soil moisture is limiting weed growth. Very effective for cutleaf evening primrose control. Can be tank-mixed with other preemergence herbicides (see label).

## Weed Response to Postemergence Herbicides for Field Corn Weed Management<sup>1</sup>

	POSTEMERGENCE																				
	Acuron	Accent/NIC-IT	Aim	Atrazine (ATZ)	Balance Flexx	Basagran	Banvel/Clarity	Beacon	Buctril	Cadet	Callisto	Capreno	Corvus	Distinct/Status	Expert <sup>2</sup>	Glyphosate <sup>2</sup>	Halex GT <sup>2</sup>	Impact/Arnezon	Keystone/Fultime <sup>4</sup>	Laudis	Liberty <sup>3</sup>
anoda, spurred	G	FG	P	E	---	P	GE	F	---	---	G	---	---	GE	E	GE	GE	---	E	---	G
barnyardgrass	FG	GE	P	GE	GE	G	P	P	P	G	G	GE	E	P	E	E	E	GE	GE	GE	G
beggarweed, Florida	G	G	F	G	GE	P	G	GE	G	G	G	GE	GE	GE	E	E	E	G	G	GE	GE
bermudagrass	P	P	P	P	P	P	P	P	P	P	P	P	P	P	F	F	F	P	P	P	P
citronmelon	---	---	FG	E	GE	P	E	---	G	FG	G	GE	GE	E	E	E	E	---	E	---	E
cocklebur, common	G	F	G	E	G	E	E	GE	E	G	E	E	G	E	E	E	E	E	E	E	E
cowpea	GE	---	FG	G	GE	P	E	---	FG	FG	GE	GE	GE	E	G	G	GE	GE	G	GE	G
crabgrass	E	GE	P	G	G	P	P	P	P	P	P	GE	G	P	E	E	E	P	G	P	G
crotalaria, showy	---	---	F	GE	GE	P	G	---	G	G	---	GE	GE	GE	G	E	E	GE	GE	GE	G
croton, tropic	E	---	G	G	G	GE	GE	---	FG	G	P	G	G	GE	G	G	G	---	G	---	G
crowfootgrass	E	E	P	G	GE	P	P	P	P	P	P	---	---	P	E	E	E	P	G	P	G
dayflower, Benghal	F	---	GE	P	---	FG	P	---	---	---	---	---	---	---	---	F	F	---	---	---	PF
eclipta	GE	---	FG	GE	GE	FG	G	---	G	FG	G	GE	GE	GE	E	E	E	GE	---	GE	G
goosegrass	E	E	P	G	GE	P	P	P	P	P	P	E	G	P	E	E	E	P	G	P	G
jimsonweed	E	FG	G	E	E	E	E	E	E	G	E	E	E	E	E	GE	GE	GE	E	GE	G
johnsongrass, seedling	E	E	P	F	G	P	P	E	P	P	P	E	G	F	E	E	E	P	F	P	GE
johnsongrass, rhizome	P	GE	P	P	P	P	P	G	P	P	P	P	P	P	E	E	E	P	P	P	F
lambsquarters, common	GE	P	GE	E	GE	FG	E	PF	G	G	E	GE	GE	E	E	E	E	GE	E	GE	E
morningglory, annual	G	F	E	G	G	P	E	PF	G	G	GE	GE	G	E	FG	FG	GE	GE	G	GE	E
nutsedge, purple	P	P	P	P	F	P	P	P	P	P	F	F	F	P	G	FG	G	P	P	P	P
nutsedge, yellow	FG	P	P	PF	F	G	P	PF	P	P	F	F	F	P	FG	FG	FG	P	PF	P	P
panicum, fall	E	G	P	G	G	P	P	G	P	P	P	E	G	F	E	E	E	P	G	P	G
panicum, Texas	F	GE	P	F	FG	P	P	PF	P	P	P	GE	F	P	E	E	E	P	F	P	F
pigweed	E	GE	G	E	E	P	GE	GE	G	G	E	GE	E	E	E	E	E	GE	GE	GE	FG
glyphosate-resistant	E	GE	G	E	E	P	GE	GE	G	G	E	GE	E	E	G	P	E	GE	GE	GE	FG
ALS-resistant	E	P	G	E	E	P	GE	P	G	G	E	GE	E	E	E	E	E	GE	GE	GE	FG
poinsettia, wild	---	---	---	---	---	---	G	---	---	---	---	---	---	GE	GE	GE	GE	---	---	---	---
purslane, common	E	---	G	E	---	P	E	---	---	---	---	---	---	E	G	G	G	---	---	---	G
pusley, Florida	E	P	FG	G	---	P	G	GE	E	---	---	GE	---	G	P	P	P	---	G	---	FG
ragweed, common	E	P	F	GE	---	G	E	---	G	---	F	E	---	E	E	GE	GE	F	GE	GE	E
ryegrass, annual	P	GE	P	FG	GE	P	P	FG	F	F	P	GE	GE	P	E	E	E	---	---	F	FG
sandbur, field	GE	E	P	F	G	P	P	PF	P	P	P	E	F	P	GE	GE	GE	P	F	P	G
senna, coffee	GE	FG	P	FG	---	P	E	FG	F	---	F	---	---	GE	GE	GE	GE	---	FG	---	G
sesbania, hemp	GE	PF	F	FG	GE	P	E	P	G	G	P	---	---	E	F	F	F	G	---	G	GE
sicklepod	E	PF	P	P	GE	P	GE	GE	P	G	P	P	GE	GE	E	E	E	GE	G	P	E
sida, prickly	E	P	F	GE	G	G	G	G	F	G	P	G	G	GE	E	G	G	---	GE	E	GE
signalgrass, broadleaf	GE	GE	P	F	P	P	P	P	P	P	P	GE	---	P	GE	GE	GE	P	F	P	G
smartweed, Pennsylvania	GE	G	G	G	---	E	E	G	GE	---	G	GE	---	E	G	G	G	GE	G	GE	E
spurge	GE	---	FG	GE	GE	F	G	G	GE	G	G	GE	GE	GE	E	E	E	GE	FG	G	G
starbur, bristly	GE	---	P	E	---	E	E	---	F	---	E	---	---	GE	E	GE	E	---	E	---	G
velvetleaf	E	F	E	G	E	GE	FG	PF	G	F	GE	E	E	GE	G	G	GE	GE	G	GE	GE
vol. peanut	FG	G	P	G	GE	P	G	F	P	P	P	GE	GE	GE	G	G	G	GE	G	GE	E
vol. RR soybean	GE	G	P	E	E	P	E	P	F	P	P	GE	E	GE	E	P	G	GE	E	GE	G

<sup>1</sup>Key to Response Ratings: E = excellent control, 90% or better; G = good control, 80 to 90%; F = fair control, 70 to 80%; P = poor control, less than 70%; --- = Insufficient Data.

<sup>2</sup>Use only on glyphosate-tolerant (Roundup Ready, Roundup Ready 2, Agrisure GT) corn hybrids.

<sup>3</sup>Use only on Liberty Link corn hybrids.

<sup>4</sup>For control of listed weeds, these herbicides must be applied prior to weed emergence or tank mixed with a foliar active herbicide.

**Weed Response to Postemergence Herbicides for Field Corn Weed Mgmt (cont)<sup>1</sup>**

	POSTEMERGENCE														POSTEMERGENCE-DIRECTED					
	Marksman	Option	Prowl <sup>4</sup>	Pursuit <sup>2</sup>	Realm Q	Resolve	Resolve Q	Revulin Q	Sandea	Sequence <sup>3</sup>	Steadfast/Q	Steadfast ATZ	Stinger	Warrant <sup>4</sup>	2,4-D	Aim	Evik	Linex/Lorox	Gramoxone	2,4-D
anoda, spurred	GE	---	P	---	---	---	G	P	GE	FG	E	P	---	G	P	G	---	GE	G	
barnyardgrass	P	G	GE	P	GE	G	GE	G	P	E	E	P	GE	P	G	E	E	G	P	
beggarweed, Florida	FG	P	---	P	---	---	G	P	E	---	---	GE	---	P	---	E	E	E	P	
bermudagrass	P	P	P	P	P	P	P	P	F	P	P	P	P	P	P	P	P	P	P	
citronmelon	G	P	---	PF	---	---	GE	PF	E	---	G	FG	---	E	G	G	E	F	E	
cocklebur, common	E	G	P	E	---	P	PF	E	G	E	FG	E	GE	P	E	G	F	E	G	
cowpea	E	P	---	P	---	---	GE	---	E	---	G	GE	P	E	---	G	G	G	E	
crabgrass, large	P	FG	GE	F	G	F	F	GE	P	E	PF	FG	P	GE	P	E	G	G	P	
crotalaria, showy	---	P	---	P	---	---	---	P	E	---	---	GE	---	G	G	E	E	G	G	
croton, tropic	GE	P	P	PF	---	---	---	---	GE	---	GE	G	---	G	---	G	G	G	G	
crowfootgrass	P	F	GE	F	F	PF	PF	GE	P	E	E	GE	P	G	P	P	E	E	G	
dayflower, Benghal	---	P	---	FG	---	---	---	P	F	---	---	---	---	GE	---	GE	F	GE	GE	
eclipta	G	---	G	GE	GE	G	G	G	P	E	---	---	G	G	FG	G	G	FG	G	
goosegrass	P	F	GE	F	F	PF	PF	GE	P	E	P	GE	P	GE	P	P	E	E	G	
jimsonweed	E	G	P	PF	G	P	P	GE	---	GE	G	E	G	G	E	GE	E	E	G	
johnsongrass seedling	P	E	G	PF	F	PF	PF	GE	P	E	E	E	P	G	P	P	E	E	G	
johnsongrass rhizome	P	G	P	P	P	P	P	G	P	E	G	GE	P	P	P	P	P	P	P	
lambsquarters, common	E	G	P	P	G	PF	PF	GE	PF	GE	F	E	P	G	E	G	E	FG	E	
morningglory spp.	E	F	P	FG	F	P	P	G	PF	G	G	G	P	FG	GE	G	G	G	GE	
nutsedge, purple	F	P	P	G	PF	P	P	P	G	FG	P	P	P	P	P	P	G	F	F	
nutsedge, yellow	F	P	P	F	F	P	P	F	GE	FG	P	PF	P	P	PF	P	G	F	F	
panicum, fall	P	G	GE	F	G	F	F	FG	P	E	G	G	P	GE	P	P	E	E	G	
panicum, Texas	P	F	F	PF	G	F	F	F	P	E	G	E	P	G	P	P	GE	GE	E	
pigweed	E	G	F	G	GE	PF	PF	GE	FG	E	G	E	G	G	GE	G	E	G	G	
glyphosate-resistant	E	G	F	G	GE	PF	PF	GE	FG	P	G	E	G	G	GE	G	E	G	G	
ALS-resistant	E	P	F	P	GE	P	P	GE	P	E	P	E	G	G	GE	G	E	G	G	
poinsettia, wild	---	P	---	E	---	---	---	---	E	---	E	---	---	---	FG	---	---	FG	---	
purslane, common	---	P	---	P	---	---	---	---	E	---	E	---	---	G	G	E	G	G	G	
pusley, Florida	GE	P	GE	PF	---	---	---	FG	---	FG	FG	GE	FG	G	FG	E	G	FG	G	
ragweed, common	E	G	P	P	G	P	P	FG	GE	GE	FG	E	G	F	E	P	E	E	G	
ryegrass, annual	---	G	GE	P	F	G	G	G	P	E	F	F	P	GE	P	P	E	E	G	
sandbur, annual	P	F	G	P	F	F	PF	G	P	E	PF	PF	P	GE	P	P	E	E	G	
senna, coffee	GE	P	P	FG	---	---	---	G	---	GE	FG	FG	G	---	G	P	E	G	G	
sesbania, hemp	GE	P	P	P	G	P	P	G	FG	GE	---	E	---	G	P	PF	G	PF	G	
sicklepod	GE	F	P	P	F	---	---	FG	P	GE	PF	E	FG	P	E	P	E	E	G	
sida, prickly	E	---	P	GE	F	P	P	FG	F	GE	P	GE	---	F	G	G	E	G	FG	
signalgrass, broadleaf	P	F	GE	P	F	PF	PF	F	P	E	GE	GE	P	GE	P	P	GE	G	G	
smartweed, Pennsylvania	E	PF	P	G	G	P	P	G	FG	GE	FG	GE	F	P	PF	G	G	G	PF	
spurge	G	---	G	G	---	---	---	---	E	---	GE	G	---	G	F	G	G	G	FG	
starbur, bristly	GE	P	P	F	---	---	---	G	GE	---	E	FG	---	GE	---	E	G	G	GE	
velvetleaf	E	G	P	G	G	PF	PF	G	E	G	F	G	---	G	G	E	G	G	GE	
vol. peanut	E	P	P	P	---	---	---	P	G	G	G	FG	P	P	P	GE	G	P	P	
vol. RR soybean	E	P	P	P	---	---	---	---	P	G	E	E	P	FG	P	E	P	G	GE	

<sup>1</sup>**Key to Response Ratings:** E = excellent control, 90% or better; G = good control, 80 to 90%; F = fair control, 70 to 80%; P = poor control, less than 70%; --- = Insufficient Data.

<sup>2</sup>Use only on Clearfield corn hybrids.

<sup>3</sup>Use only on glyphosate-tolerant (Roundup Ready, Roundup Ready 2, Agrisure GT) corn hybrids.

<sup>4</sup>For control of listed weeds, these herbicides must be applied prior to weed emergence or tank mixed with a foliar active herbicide.

### Postemergence Herbicides for Weed Management in Field Corn

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			

Aatrex 4 SC (atrazine)	1.0-2.0 qt	1.0-2.0 lb	5	None	12 hours
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**Comments:** Apply ATRAZINE to corn from emergence up to 12 inches in height. Add COC at 1 gal per 100 gal of spray mix. If ATRAZINE was not applied prior to corn emergence, up to 2 lbs ai/A may be applied. If an earlier ATRAZINE application was made, the total ATRAZINE applied may not exceed 2.5 lbs ai/acre per calendar year. **Rainfast interval not indicated on label (suggest 1 hour minimum).**

Accent 75 DF (nicosulfuron)	0.67 oz	0.031 lb	2	30 days	4 hours
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Accent Q 54.5 WDG	0.9 oz				
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NIC-IT 2 EC	2.0 oz				
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**Comments:** Apply ACCENT, ACCENT Q, or NIC-IT overtop or with drop nozzles to control rhizome johnsongrass 8 to 18" tall. ACCENT, ACCENT Q, and NIC-IT may be applied overtop corn up to 20 inches tall. For corn from 20 to 36 inches tall, use drop nozzles to avoid spraying in to the whorl of the plant. Add NIS at 1 qt/100 gal or COC at 1 gal/100 gal of spray mix plus 2 qt/A of UAN or 2 lb/A of AMS. Do not apply ACCENT, ACCENT Q, or NIC-IT to corn previously treated with COUNTER 15G, or COUNTER 20CR (in-furrow) unless hybrid is IR (imidazolinone resistant). Injury may occur when ACCENT, ACCENT Q, or NIC-IT is applied to corn previously treated with soil-applied THIMET, LORSBAN or COUNTER 20CR T-banded. In fields heavily infested with johnsongrass, apply only to virus tolerant hybrids. Do not use on sweet corn. Do not tank mix ACCENT, ACCENT Q, or NIC-IT with foliar-applied organophosphate insecticides as severe crop injury may occur. Certain corn hybrids are sensitive to ALS-inhibitor herbicides (MOA=2), consult your local seed dealer for more information. **Rainfast interval = 4 hours.**

Acuron 3.44 SC (s-metolachlor + atrazine + mesotrione + bicyclopyrone)	1.25-2.5 qt	0.67-1.34 lb + 0.313-0.625 lb + 0.075-0.15 lb + 0.019-0.038 lb	15  5  27  27	60 days	24 hours
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**Comments:** ACURON is a RESTRICTED USE PESTICIDE. Apply ACURON from emergence up to 12 inches in height before broadleaf weeds are greater than 3 inches in height. Do not apply ACURON in liquid fertilizer or severe crop injury may occur. ACURON applied alone will not provide consistent postemergence control of emerged grass weeds. Do not apply more than 2.5 qt/A of ACURON per growing season. Tank mix partners include ATRAZINE, ACCENT Q, STEADFAST Q, GLYPHOSATE, and WARRIOR. **Rainfast interval not indicated on label (suggest 1 hour minimum).**

Aim 2 EC (carfentrazone)	0.5-1.0 fl oz	0.008-0.016 lb	14	3 days	12 hours
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Aim 1.9 EW

**Comments:** Apply AIM broadcast to corn from emergence until 8 leaf collar growth stage (V8). Excellent control of small sicklepod, *glyphosate-resistant Palmer amaranth*, and morningglory. Add a COC (1-2 gal/100 gals), NIS (1 qt/100 gals), or MSO (1-2 gal/100 gals). May be tank mixed with GLYPHOSATE for broader spectrum weed control in Roundup Ready corn. **\*\*Consult AIM product label regarding specific recommendations for preharvest intervals. Rainfast interval = 6 hours**

### Postemergence Herbicides for Weed Management in Field Corn (cont)

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			

Armezon 2.8SC (topramezone)	0.75-1.0 fl oz	0.016-0.022 lb	28	45 days	12 hours
+ atrazine 4 SC	+ 1.0-2.0 pt	+ 0.5-1.0 lb	5		

**Comments:** Apply ARMEZON overtop corn from emergence up to 12 inches tall. For best results, add MSO or a COC at 1.0-1.5 gal per 100 gal of spray mix plus a fertilizer solution of UAN at 1.25-2.5 gal or spray grade AMS at 8.5-17 lb per 100 gal (use higher adjuvant rates for periods where hot dry weather is expected). Do not apply more than 1.0 fl oz/A per season. Good to excellent control of *glyphosate- and ALS-resistant and Palmer amaranth* (less than 6" tall). **Rainfast interval = 1 hour.**

Balance Flexx 2 SC (isoxaflutole)	6.0 fl oz	0.094 lb	27	45 days	12 hours
+ atrazine 4 SC	+ 1.0 pt	+ 0.5 lb	5		

**Comments:** BALANCE FLEXX is a RESTRICTED USE PESTICIDE. Apply BALANCE FLEXX overtop on corn from spiking through the 2-leaf collar stage (V2). Controls *glyphosate- and ALS-resistant Palmer amaranth*, sicklepod, and prickly sida. Add 0.5 lb/A ATRAZINE to enhance control of weeds larger than 6 inches (*restricts broadcast application to corn 12 inches tall or less*). Do not use COC or MSO with BALANCE FLEXX applied to emerged corn. Do not apply tank-mixes of BALANCE FLEXX with organophosphate or carbamate insecticides to emerged corn. Foliar applications of organophosphate or carbamate insecticides should not be made within 7 days of an application of BALANCE FLEXX. If the water table (level of saturation) is less than 25 feet below the ground surface, do not use BALANCE FLEXX on soils where the subsoil is loamy sand or sand (i.e., no clay subsoil). **Rainfast interval = N/A (suggest 1 hour).**

Banvel/Clarity 4 S (dicamba)	0.5-1.0 pt	0.25-0.5 lb	4	**	24 hours
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**Comments:** Apply BANVEL or CLARITY at the 1.0 pt rate overtop corn from the spike stage up to 8-inch tall corn or 5 leaf collar stage (V5) to provide early control of vines and broadleaf weeds. Apply the 0.5 pt/A rate from the 8-inch tall up to 36-inch tall corn or 15 days before tassel emergence, whichever comes first. For best performance, apply when weeds are less than 3 inches tall. Use directed applications when corn leaves prevent proper spray coverage, sensitive crops are growing nearby, or tank mixing with 2,4-D. Do not apply BANVEL or CLARITY under conditions which favor drift onto nearby crops. **\*\*Corn treated with BANVEL or CLARITY may be harvested or used for feed once the crop has reached the milk stage of development. Rainfast interval not indicated on label (suggest 1 hour minimum).**

Basagran 4 S (bentazon)	1.5-2.0 pt	0.75-1.0 lb	6	12 days	48 hours
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**Comments:** Treat when broadleaf weeds are small and actively growing. Do not apply to weeds that are under stress such as moisture or herbicide injury, as unsatisfactory control may result. Adjust rate according to weed size as indicated on the product label. Add COC to the spray tank at rate of 1 qt/A. Do not apply more than 4 pt per acre of BASAGRAN per season. **Rainfast interval = 4 hours.**

Beacon 75 DF (primisulfuron)	0.76 oz	0.036 lb	2	60 days	12 hours
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**Comments:** Apply BEACON overtop, directed or semi-directed to control rhizome johnsongrass 8 to 16 inches tall. BEACON may be applied broadcast overtop corn up to 20 inches tall. Directed or semi-directed applications may improve weed coverage and minimize crop injury. Add NIS at 1.0 qt/100 gal of spray mix, or COC at 1.0 to 4.0 pt/A. *Do not apply BEACON to corn previously treated with COUNTER 15G, or COUNTER 20 CR (in-furrow) unless hybrid is IR (imidazolinone resistant).* Injury may occur where BEACON is applied to corn previously treated with soil-applied LORSBAN or COUNTER 20CR T-banded. Certain corn hybrids are sensitive to ALS-inhibitor herbicides (MOA=2), consult your local seed dealer for more information. **Rainfast interval = 4 hours.**

### Postemergence Herbicides for Weed Management in Field Corn (cont)

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Buctril 4 EC ( <i>bromoxynil</i> )	0.5-0.75 pt	0.25-0.38 lb	6	45 days	24 hours
+ <i>atrazine 4 SC</i>	+ 1.0-2.0 qt	+ 1.0-2.0 lb	5		

**Comments:** Apply BUCTRIL overtop corn from 4 leaf growth stage (V4) up to before tassel emergence to control *glyphosate- and ALS-resistant and Palmer amaranth (less than 2 inches in height)*. Apply when weeds are in the 2- to 4-leaf stage or less than 6 inches tall. Less danger of volatility drift than 2,4-D or BANVEL. Tank mixtures with BANVEL, 2,4-D, or CLARITY may cause stalk brittleness. Tank mixes with liquid fertilizers may cause excessive leaf burn. **Rainfast interval not indicated on label (suggest 1 hour minimum).**

Cadet 0.91EC ( <i>fluthiacet methyl</i> )	0.9 oz	0.006 lb	14	60 days	12 hours
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**Comments:** Apply CADET broadcast to corn from 2 leaf growth stage (V2) up to 48 inches in height, but before tasseling. Excellent control of small sicklepod, *glyphosate-resistant Palmer amaranth*, and morningglory. Add either a COC (1-2 pt/A) or NIS (1 qt/100 gals) plus UAN at 1-2 qt/A or spray grade AMS at 8.5 lb/100 gals. May be tank mixed with glyphosate for broader spectrum weed control in Roundup Ready corn. Do not apply more than 1.25 oz/A CADET per season. **Rainfast interval = 4 hours.**

Callisto 4 SC ( <i>mesotrione</i> )	3.0 fl oz	0.094 lb	27	45 days	12 hours
+ <i>atrazine 4 SC</i>	+ 1.0 qt	+ 1.0 lb	5		

**Comments:** Apply CALLISTO + ATRAZINE overtop corn up to 12 inches tall. [Note: without ATRAZINE, CALLISTO may be applied to corn up to 30 inches tall or 8 leaf growth stage (V8)]. Provides good control of *glyphosate- and ALS-resistant and Palmer amaranth*. Apply before *Palmer amaranth* reaches 5 inches. Always add COC at 1 gal/100 gal of spray mix and UAN at a rate of 2.5% v/v or AMS at a rate of 8.5 lbs/100 gal. Do not use MSO adjuvants with CALLISTO as severe crop injury may occur. Do not apply more than 7.7 fl oz/A of CALLISTO per season. Do not make more than 2 applications of CALLISTO per season. Delay second application until 14 days after the first. **Rainfast interval = 12 hours.**

Capreno 3.45 SC ( <i>thiencarbazon</i> <i>tembotrione</i> )	3.0 fl oz	0.013 lb +	2 27	45 days	12 hours
+ <i>atrazine 4 SC</i>	+ 1.0 qt	+ 1.0 lb	5		

**Comments:** Apply CAPRENO overtop on corn from the 1 leaf collar stage (V1) up to the 6-leaf collar stage (V6). Controls *glyphosate- and ALS-resistant Palmer amaranth*, sicklepod, and prickly sida. Add 0.5 lb/A ATRAZINE to enhance control of weeds larger than 6 inches (*restricts broadcast application to corn 12 inches tall or less*). Add COC at 1 gal/100 gal of spray mix plus 1.5 qt/A of UAN or 1.5 lb/A of spray grade AMS. The use of NIS will decrease weed control performance. A sequential application of 3.0 fl oz can be made (wait a minimum of 14 days). Do not exceed 6.0 fl oz/A in a growing season. Do not use CAPRENO in the same season as LORSBAN, COUNTER, DYFONATE, or THIMET. Foliar applications of organophosphate or carbamate insecticides should not be made within 7 days of an application of CAPRENO. Certain corn hybrids are sensitive to ALS-inhibitor herbicide (MOA=2), consult your local seed dealer for more information. **Rainfast interval = 1 hour.**

**Postemergence Herbicides for Weed Management in Field Corn (cont)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			

Corvus 2.63 SC (thiencarbazono + isoxaflutole) + atrazine)	3.33 fl oz	0.020 lb + 0.049 lb +	2  27 5	45 days	12 hours
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**Comments:** CORVUS is a RESTRICTED USE PESTICIDE. Apply CORVUS ovetop on corn from spiking through the 2-leaf collar stage (V2). Controls *glyphosate- and ALS-resistant Palmer amaranth*, sicklepod, and prickly sida. Add 1.0 lb/A ATRAZINE to enhance control of weeds larger than 6 inches. Do not use COC or MSO with CORVUS applied to emerged corn. Do not apply tank-mixes of CORVUS with organophosphate or carbamate insecticides to emerged corn. Do not apply solo HPPD inhibitor postemergence herbicides (i.e., LAUDIS, CALLISTO, IMPACT) to corn that has been treated with CORVUS herbicide in the same growing season. Do not apply more than one application of CORVUS per 365-day period. Foliar applications of organophosphate or carbamate insecticides should not be made within 7 days of an application of CORVUS. If the water table (level of saturation) is less than 25 feet below the ground surface, do not use CORVUS on soils where the subsoil is loamy sand or sand (i.e., no clay subsoil). Certain corn hybrids are sensitive to ALS-inhibitor herbicides (MOA=2), consult your local seed dealer for more information. **Rainfast interval not indicated on label (suggest 1 hour minimum).**

Distinct 70 DG (dicamba + diflufenzopyr)	4.0-6.0 oz	0.138-0.207 lb + 0.054-0.80 lb	4  19	**	12 hours
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**Comments:** Apply ovetop to corn between 4 and 24 inches tall. For corn 4 to 10 inches tall, use 6 oz/A. For corn 10 to 24 inches tall, use 4 oz/A. Use drop nozzles at the 4 oz/A rate as a rescue treatment for corn 24 to 36 inches tall. Always add NIS at 1 qt per 100 gal of spray mix. Do not use COC with DISNTINCT. DISTINCT provides excellent control of several broadleaf weeds, including *glyphosate- and ALS-resistant Palmer amaranth*. Do not apply under weather conditions that favor drift onto nearby, sensitive crops. Do not tank-mix with growth regulator herbicides, such as BANVEL or 2,4-D. **\*\*Do not harvest for corn grain and stover within 72 days of DISTINCT application or do not harvest corn for fodder within 32 days of DISTINCT application. Rainfast interval = 4 hours.**

Expert 4.88 L (glyphosate + s-metolachlor + atrazine)	2.5-3.75 qt	0.47-0.71 lb ae + 1.09-1.63 lb +	9  15 5	60 days	24 hours
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**Comments: USE ONLY ON GLYPHOSATE-TOLERANT (ROUNDUP READY, ROUNDUP READY 2, AGRISURE GT) CORN HYBRIDS!** EXPERT is a RESTRICTED USE PESTICIDE. Apply EXPERT from emergence up till 12 inches tall corn. EXPERT provides excellent control of several broadleaf and grass weeds while providing residual control of weeds that have not emerged. **Rainfast interval = 2 hours.**

**Postemergence Herbicides for Weed Management in Field Corn (cont)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			

FulTime NXT 4.04 SC ( <i>acetochlor</i> + <i>atrazine</i> )	2.0-3.7 qt	1.35-2.50 lb  0.67-1.24 lb	15  5	60 days	12 hours
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**Comments:** FULTIME NXT is a RESTRICTED USE PESTICIDE. Apply FULTIME NXT before corn exceeds 11 inches in height. Application rate is based on organic matter content of the soil: For soils with less than 1.5% organic matter, application rate range is 2.0-2.9 qt/A. For soils with 1.5% organic matter or more, the application rate range is 2.3-3.7 qt/A. FULTIME NXT may be applied before, with, or following postemergence herbicides in corn: AIM, ATRAZINE, BALANCE FLEX BANVEL, CALLISTO, CAPRENO, CLARITY, DISTINCT, DURANGO DMA, HORNET WDG, IMPACT, LAUDIS, LIBERTY, LINEX 4L, LOROX DF, MARKSMAN, RESOURCE, STATUS, or 2,4-D. Do not apply FULTIME NXT to the following soils within 50ft of any well where depth to ground water is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter. Do not apply more than 3 lb ai ACETOCHLOR per acre per year.

<i>Glyphosate</i> (various) acid equivalent (ae)			9	50 days	4 hours
3 lb ae/gal	32 oz	0.75 lb ae			
4 lb ae/gal	24 oz				
4.17 lb ae/gal	23 oz				
4.5 lb ae/gal	22 oz				

**Comments: USE ONLY ON GLYPHOSATE-TOLERANT (ROUNDUP READY, ROUNDUP READY 2, AGRISURE GT) CORN HYBRIDS!** Apply GLYPHOSATE broadcast in corn up to the V8 growth stage (about 30" tall) before weeds exceed 4 inches in height. Use drop nozzles for 30-48" tall corn to avoid spraying in to the whirls of the plants. Allow a minimum of 10 days between applications. May be tank mixed with ATRAZINE (*application restricted to 12" tall corn*) for residual control. A single in-crop application must not exceed 1.12 lb ae/A. A sequential application must not exceed 1.12 lb ae/A (2.24 lb ae/A total for in-crop applications through 48 inch corn). **Rainfast interval = heavy rainfall soon after application may wash product off of the foliage and a repeat application may be needed to ensure adequate weed control (suggest 1 hour).**

Halex GT 4.39 SC ( <i>s-metolachlor</i> + <i>glyphosate</i> + <i>mesotrione</i> )	3.6-4.0 pt	0.94-1.05 lb  + 0.94-1.05 lb  + 0.094-0.105 lb	15  9  27	45 days	24 hours
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**Comments: USE ONLY ON GLYPHOSATE-TOLERANT (ROUNDUP READY, ROUNDUP READY 2, AGRISURE GT) CORN HYBRIDS!** Apply HALEX GT overtop corn from emergence up to 30 inches in height or the 8-leaf stage of corn growth. HALEX GT must be applied with a NIS at 1-2 qt/100 gal of spray mix. Use the higher rate of NIS when weeds are growing under stress conditions. In addition to NIS, add spray grade AMS at 8.5-17 lb/100 gal of spray mix. The use of UAN instead of AMS is not recommended due to risk of crop injury. If tank mixing HALEX GT with atrazine, do not apply when corn exceed 12 inches in height. Temporary crops response (transient bleaching) may occur under extreme weather conditions or when the crop is suffering from stress. **Rainfast interval = heavy rainfall soon after application may wash product off of the foliage and a repeat application may be needed to ensure adequate weed control (suggest 1 hour).**

**Postemergence Herbicides for Weed Management in Field Corn (cont)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			

Hornet 68.5 WDG (flumetsulam + clopyralid)	2.0-5.0 oz	0.023-0.057 lb + 0.063-0.156 lb	2  4	85 days	48 hours
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Stanza 68.5 WDF

**Comments:** Apply HORNET or STANZA from emergence (spike stage) until corn reaches 20 inches in height (or the V6 growth stage). Include a NIS at 1 qt/100 gal or COC/MSO at 1 gal/100 gal of spray volume. Postemergence applications of HORNET or STANZA to corn previously treated with T-band, band, or in-furrow applications of other organophosphate insecticides, such as LORSBAN, AZTEC, FORTRESS, or DYFONATE, may cause temporary crop injury. Do not tank mix HORNET or STANZA with foliar postemergence organophosphate insecticides as severe crop injury may result. Foliar organophosphate insecticide should be applied as least 10 days before or after the application of HORNET or STANZA. Do not apply HORNET or STANZA if COUNTER (terbufos) or THIMET (phorate) insecticides were applied at planting. HORNET or STANZA may be tank mixed with other foliar non-organophosphate insecticides. *Do not plant cotton within 18 months of application. Rainfast interval = 2 hours.*

Impact 2.8 SC (topramezone + atrazine 4 SC)	0.75-1.0 fl oz  1.0-3.0 pt	0.016-0.022lb + 0.5-1.5 lb	27  5	45 days	12 hours
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**Comments:** Apply IMPACT overtop corn from emergence up to 12 inches tall. For improved foliar and residual weed control performance, it is recommended that ATRAZINE is tank mixed with IMPACT. For best results, add MSO at 1.0-1.5 gal per 100 gal of spray mix combined with a fertilizer solution of UAN at 1.25-2.5 gal per 100 gal of spray mix or spray grade AMS at 8.5-17 lb per 100 gal (use higher adjuvant rates for larger weeds or during periods when hot dry weather is expected). Do not apply more than 1.0 fl oz/A per season. Good to excellent control of *glyphosate- and ALS-resistant and Palmer amaranth* (less than 6" tall). **Rainfast interval = 1 hour.**

Impact Z 4.26 SC (topramezone + atrazine)	8.0-10.7 fl oz	0.016-0.022 + 0.25-0.333	27  5	45 days	12 hours
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**Comments:** IMPACTZ is a RESTRICTED USE PESTICIDE. Apply IMPACTZ overtop corn from emergence up to 12 inches tall. Applications of IMPACTZ to emerged weeds require the addition of an adjuvant and a nitrogen fertilizer source to achieve optimum weed control. Add MSO (minimum of 80% oil and 14% emulsifiers) at 1.0-1.5 gal per 100 gal of spray mix with a nitrogen fertilizer solution of UAN at 1.25-2.5 gal per 100 gal of spray mix or a spray grade AMS at 8.5-17 lb per 100 gal. Use the higher adjuvant rate for application to larger weeds and during periods when hot dry weather is expected. Do not apply more than 10.7 fl oz/A per season. Good to excellent control of *glyphosate- and ALS-resistant and Palmer amaranth* (less than 6" tall). **Rainfast interval = 4 hours.**

Keystone NXT 5.6 SC (acetochlor + atrazine)	1.4-3.0 qt	1.09-2.33 lb + 0.88-1.88 lb	15  5	60 days	12 hours
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**Comments:** KEYSTONE NXT is a RESTRICTED USE PESTICIDE. Apply KEYSTONE NXT after emergence up to 11 inches in height. Do not apply more than 3.8 qt per of KEYSTONE NXT per season. Postemergence KEYSTONE NXT tank mix partners may include ACCENT, AIM, ATRAZINE, BALANCE FLEXX, BANVEL, BASIS, BASIS GOLD, BEACON, BUCTRIL, CALLISTO, CALLISTO XTRA, CAPRENO, CLARITY, DISTINCT, HORNET WDG, IMPACT, LAUDIS, LIBERTY, LIGHTNING, LINEX 4L, LOROX DF, MARKSMAN, PEAK, PERMIT, PROWL, PENDIMAX, PURSUIT, RESOURCE, SHOTGUN, SPIRIT, STATUS, STEADFAST, or 2,4-D.

**Postemergence Herbicides for Weed Management in Field Corn (cont)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			

Laudis 3.5 SC ( <i>tombotrione</i> )	3.0 fl oz	0.082 lb	27	45 days	12 hours
+ atrazine 4 SC	+ 1.0 pt	+ 0.5 lb	5		

**Comments:** Apply LAUDIS overtop on corn from emergence up to the 8-leaf collar stage (V8). Controls glyphosate- and ALS-resistant Palmer amaranth. Add 0.5 lb/A ATRAZINE to enhance control of weeds larger than 6 inches (restricts application to corn 12" tall or less). Add MSO at 1 gal per 100 gal of spray mix plus 1.5 qt/A of UAN or 1.5 lb/A of spray grade AMS. Do not use nitrogen fertilizer solution as the primary carrier for applying LAUDIS. Do not use NIS as weed control performance will be erratic. A second sequential 3 fl oz/A application can be made (wait a minimum of 7 days). Do not exceed 6 oz/A per growing season. **Rainfast interval = 1 hour.**

Liberty 280 2.34 SL ( <i>glufosinate</i> )	22-29 fl oz	0.40-0.53 lb	10	**	12 hours
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Interline 2.34SL

**Comments: USE ONLY ON CORN HYBRIDS CONTAINING THE LIBERTY-LINK TECHNOLOGY!** Apply LIBERTY overtop on corn from emergence up to the 24-inch-tall corn (V7). For corn 24 to 36 inches tall, use drop nozzles. Avoid spraying into the whorl or leaf axils of the corn stalks. Controls *glyphosate- and ALS-resistant Palmer amaranth (less than 4")*. Use the 29 oz/A rate of LIBERTY when targeting Palmer amaranth. Always add AMS at 3 lb/A when applying LIBERTY. Do not add NIS or COC as it may increase crop response. Do not exceed 44 oz LIBERTY per acre per season. Do not use nitrogen solutions as spray carriers. **\*\*Do apply LIBERTY within 60 days of harvesting corn forage and within 70 days of harvesting corn grain and corn fodder. Rainfast interval = 4 hours.**

Marksman 3.2 S ( <i>dicamba</i> )	2.0-3.5 pt	0.28-0.48 lb	4	60 days	24 hours
+ atrazine)		+ 0.53-0.92 lb	5		

**Comments:** MARKSMAN is a RESTRICTED USE PESTICIDE. Apply MARKSMAN overtop corn from emergence through the 5-leaf growth stage (V5) or 8 inches tall. Controls *glyphosate- and ALS-resistant Palmer amaranth*. Reduce MARKSMAN rate to 2.0 pt/A on coarse textured soils (sand, loamy sand, and sandy loam). Do not use COC after corn emergence as crop injury may result. A maximum of 5.25 pt/A per season is allowed. A NIS may be added to the spray tank. **Rainfast interval = 4 hours.**

Option 35 DF ( <i>foramsulfuron</i> )	1.5-1.75 oz	0.003-0.038 lb	2	**	12 hours
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**Comments:** Apply OPTION to corn from the V1 to the V6 growth stage. Use directed or drop nozzles for applications at the V7-V8 growth stage. Add methylated or ethylated seed oil at 1.5 pt/A in combination with a nitrogen fertilizer (1.5-2 qt/A of UAN or 1.5-3 lb/A of AMS). Do not use OPTION in the same season as COUNTER 15G (all uses), COUNTER 20CR (in-furrow), DYFONATE (all uses) and THIMET (all uses). Foliar applications of an OP insecticide should not occur within 7 days of an OPTION application. In fields heavily infested with johnsongrass, apply only to virus tolerant hybrids. **\*\*Do not apply OPTION within 70 days of harvesting grain or 45 days of harvesting corn forage. Certain corn hybrids are sensitive to ALS-inhibitor herbicides (MOA=2), consult your local seed dealer for more information. Rainfast interval = 2 hours.**

**Postemergence Herbicides for Weed Management in Field Corn (cont)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Prowl H <sub>2</sub> O 3.8 CS ( <i>pendimethalin</i> )	2.0-3.0 pt	0.95-1.43 lb	3	21 days	24 hours
Prowl 3.3 EC + atrazine 4 SC	1.8-2.4 pt + 1.5-2.0 qt	0.75-1.0 lb + 1.5-2.0 lb	5		

**Comments:** Apply PROWL over-the-top after corn emergence up to 12-inch-tall (V4) corn but when seedling grasses are less than 1 inch tall. If ATRAZINE is not used, PROWL can be applied up to 30-inch-tall corn. Use the higher rates on fine-textured soils. In case of stand failure, corn seed should be replanted below the herbicide treated zone. **Rainfast interval not indicated on label (suggest 1 hour).**

Realm Q 38.75DF ( <i>rimsulfuron</i> ) + <i>mesotrione</i> )	4.0 oz	0.019 lb + 0.078 lb	2  27	70 days	12 hours
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**Comments:** Apply REALM Q over-the-top to corn from emergence up to 20 inches (or 7 or more collars visible), whichever is more restrictive. Add NIS at 1 qt per 100 gal or COC at 1 gal per 100 gal plus nitrogen fertilizer solution at 2 qt/A or ammonium sulfate at 2 lb/A. Do not apply more than 4.0 oz/A of REALM Q per growing season. If activating rainfall is not received within 7 days of application, a follow-up with cultivation or a sequential application of ACCENT Q or GLYPHOSATE may be needed. Do not tank mix REALM Q with BASAGRAN or severe crop injury may occur. Do not apply REALM Q within 45 days of crop emergence where COUNTER was applied since crop injury may occur. Do not tank mix RESOLVE Q with a foliar applied organophosphate insecticide, such as LORSBAN, MALATHION, PARATHION, etc., as severe crop injury may occur. To avoid crop injury, apply these products as least 7 days before or 3 days after application of REALM Q. Do not apply REALM Q aerially or apply through any type of irrigation system. Do not apply to field corn grown for seed. **Rainfast interval = 4 hours.**

Resicore 3.29SC ( <i>acetochlor</i> ) + <i>mesotrione</i> + <i>clopyralid</i> )	2.25-2.5 qt	1.58-1.75 lb + 0.17-0.19 lb + 0.11-0.12 lb	15  27  4	45 days	12 hours
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**Comments:** Apply RESICORE after corn emergence up to 11 inches in height. RESICORE may be tank mixed with ATRAZINE for enhanced broadleaf and grass weed control. For control of emerged grasses, tank mix RESICORE with ACCENT Q or STEADFAST Q in conventional corn. RESICORE may be tank mixed with GLYPHOSATE for glyphosate-tolerant corn or LIBERTY for glufosinate-tolerant corn. Apply RESICORE when weeds are small (1-2 inches in height). Do not apply RESICORE to emerged corn that has received an at-plant application of PHORATE or TERBUFOS insecticide or severe crop injury may occur. Postemergence applications of any organophosphate or carbamate insecticide within 7 days before or 7 days after a RESICORE application may result in severe corn injury. Do not apply more than 3.25 qt of RESICORE per acre per year. Do not make more than two applications of RESICORE per year. Do not apply RESICORE (acetochlor) to the following soils within 50ft of any well where depth to ground water is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter.

### Postemergence Herbicides for Weed Management in Field Corn (cont)

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			

Resolve 25 DF ( <i>rimsulfuron</i> )	1.0 oz	0.016 lb	2	30 days	4 hours
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**Comments:** Apply RESOLVE 25DF overtop to corn from emergence up to 12-inch corn or 6 leaf collars visible, whichever is more restrictive. Provides suppression of Palmer amaranth. Add NIS at 1.0 qt per 100 gal plus nitrogen fertilizer at 2.0 qt/A or AMS at 2 lb/A. If rainfall is not received within 7 days of application, a follow-up cultivation or a sequential application of ACCENT may be needed. Do not apply more than 2.0 oz/A of RESOLVE 25 DF in a growing season. Do not tank mix RESOLVE 25 DF with BASAGRAN or severe crop injury may occur. Do not tank mix RESOLVE 25 DF with a foliar applied organophosphate insecticide, such as LORSBAN, MALATHION, PARATHION, etc., as severe crop injury may occur. Certain corn hybrids are sensitive to ALS-inhibitor herbicides (MOA=2), consult your local seed dealer for more information. **Rainfast interval not indicated on label (suggest 1 hour).**

Resolve Q (mp) 22.4 DF  ( <i>thifensulfuron</i> + <i>rimsulfuron</i> )	1.25 oz	0.014 lb + 0.003 lb	2  2	30 days	4 hours
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**Comments:** Apply RESOLVE Q over-the-top to corn from emergence up to 20-inch corn or 5 collars visible, whichever is more restrictive. Provides suppression of Palmer amaranth. Add NIS at 1 qt per 100 gal or COC at 1 gal per 100 gal or MSO at 0.5 gal per 100 gal plus nitrogen fertilizer solution at 2 qt/A or ammonium sulfate at 2 lb/A. If rainfall is not received within 7 days of application, a follow-up with cultivation or a sequential application of ACCENT may be needed. Do not apply more than 2.5 oz/A of RESOLVE Q in a growing season. Do not apply RESOLVE Q within 45 days of crop emergence where COUNTER was applied since crop injury may occur. Do not tank mix RESOLVE Q with BASAGRAN or severe crop injury may occur. Do not tank mix RESOLVE Q with foliar applied OP insecticides, such as LORSBAN, MALATHION, PARATHION, etc., as severe crop injury may occur. Certain corn hybrids are sensitive to ALS-inhibitor herbicides (MOA=2), consult your local seed dealer for more information. **Rainfast interval not indicated on label (suggest 1 hour).**

Revulin Q 51.2DF ( <i>nicosulfuron</i> + <i>mesotrione</i> )	3.4-4.0 oz	0.031-0.036 lb  0.078-0.092 lb	2  27	70 days	12 hours
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Apply REVULIN Q over-the-top to corn from emergence up to 20-inch corn or 6 collars visible, whichever is more restrictive. For applications to corn from 20 to 30 inches tall, use drop nozzles only and avoid spraying into the whorl of the plant. Do not apply to corn after height exceeds 30 inches. Optimum application timing is when corn is 12 inches or less and weeds are small and actively growing. Add COC at 1 gal per 100 gal plus nitrogen fertilizer solution at 2 qt/A or ammonium sulfate at 2 lb/A. Do not use methylated seed oil adjuvants or blends with REVULIN Q. If activating rainfall is not received within 7 days of application, a follow-up with cultivation or a sequential application of ACCENT Q or GLYPHOSATE may be needed. Do not apply more than 4.0 oz/A of REVULIN Q in a growing season. Do not tank mix REVULIN Q with BASAGRAN or severe crop injury may occur. Do not apply REVULIN Q within 45 days of crop emergence where COUNTER was applied. Do not tank mix REVULIN Q with a foliar organophosphate insecticides, such as LORSBAN, MALATHION, PARATHION, etc., as severe crop injury may occur. To avoid crop injury, apply these products as least 7 days before or 3 days after application of REVULIN Q. Do not apply REVULIN Q aerially or apply through any type of irrigation system. **Rainfast interval = 4 hours.**

**Postemergence Herbicides for Weed Management in Field Corn (cont)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			

Sandea 75WDG ( <i>halosulfuron</i> )	0.67-1.33 oz	0.031-0.062 lb	2	30 days	12 hours
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**Comments:** Apply SANDEA over-the-top to corn from emergence through the layby stage. Use drop nozzles after canopy prevents adequate coverage of weeds. Controls yellow and purple nutsedge. Add NIS at 1 qt per 100 gals spray solution. Tank mix partners include BANVEL, 2,4-D, BUCTRIL, and ATRAZINE. Please observe and follow the more restrictive application timings on the tank mix partner labels. Do not exceed 2.67 oz per acre per season. Certain corn hybrids are sensitive to ALS-inhibitor herbicides (MOA=2), consult your local seed dealer for more information. **Rainfast interval = 4 hours.**

Sequence 5.25 S ( <i>glyphosate</i> + <i>s-metolachlor</i> )	2.0-2.5 pt	0.56-0.71 lb ae + 0.56-0.70 lb	9  15	50 days	24 hours
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**Comments: USE ONLY ON GLYPHOSATE-TOLERANT (ROUNDUP READY, ROUNDUP READY 2, AGRISURE GT) CORN HYBRIDS!** Apply SEQUENCE from emergence up till corn plants reach 30 inches tall. Applications from 30 to 48 inches require drop nozzles to ensure SEQUENCE does not contact the whorl of the plant. Do not exceed 3.5 pt/A in a single application or 5.0 pt/A total per year. Can be tank mixed with ATRAZINE for improved residual broadleaf weed control (consult label for additional tank mix choices). **Rainfast interval = heavy rainfall soon after application may wash product off of the foliage and a repeat application may be needed to ensure adequate weed control (suggest 1 hour).**

Status 56WDG ( <i>dicamba</i> + <i>diflufenzopyr</i> + <i>isoxadifen</i> )	5-10 oz	0.223-0.446 lb + 0.089-0.178 lb + safener	4  19	**	24 hours
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**Comments:** Apply STATUS over-the-top on corn from V2 (4 inches tall) to V10 (36 inches tall) growth stages. Controls *glyphosate-* and *ALS-resistant Palmer amaranth*. Add NIS at 1 qt or COC at 1.0-2.0 pt/A or MSO at 1.0-2.0 pt/A per 100 gal plus nitrogen fertilizer at 5.0 qt per 100 gal or AMS at 8.5 lb/A. Do not apply under weather conditions that favor drift onto nearby, sensitive crops. Do not apply more than 12.5 oz/A of STATUS per season. Do not apply STATUS using a nitrogen fertilizer solution as a carrier. Do not apply if corn is more than 36 inches tall (V10 stage) or 15 days before tassel emergence, whichever comes first. **\*\*Do not harvest for corn grain and stover within 72 days of STATUS application or do not harvest corn for fodder within 32 days of STATUS application. Rainfast interval = 4 hours.**

### Postemergence Herbicides for Weed Management in Field Corn (cont)

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Steadfast 75DF	0.75 oz			30 days	4 hours
(nicosulfuron + rimsulfuron)		0.023 lb + 0.012 lb	2  2		
<b>Comments:</b> Apply STEADFAST over-the-top corn up to 20" tall or 6 collars (V6), whichever is more restrictive. Add COC at 1 gal per 100 gallons or NIS at 1 qt per 100 gallons. Add nitrogen fertilizer solution at 2 qt/A or AMS at 4 lb/A. Do not apply to corn previously treated with COUNTER 15G, or COUNTER 20CR (in-furrow). Injury may occur when STEADFAST is applied to corn previously treated with soil applied LORSBAN, THIMET, or COUNTER 20CR T-banded. Do not tank mix STEADFAST or with BASAGRAN or LADDOCK or severe crop injury may occur. Do not tank mix STEADFAST with a foliar applied organophosphate insecticide, such as LORSBAN, MALATHION, PARATHION, etc., as severe crop injury may occur. Certain corn hybrids are sensitive to ALS-inhibitor herbicides (MOA=2), consult your local seed dealer for more information. <b>Rainfast interval = 4 hours.</b>					
Steadfast Q 37.7 WDG	1.5 oz			30 days	4 hours
(nicosulfuron + rimsulfuron)		0.023 lb + 0.012 lb	2  2		
<b>Comments:</b> Apply STEADFAST Q over-the-top corn up to 20" tall or 6 collars (V6), whichever is more restrictive. Add COC at 1 gal per 100 gallons or MSO at 0.5 gal per 100 gallons or NIS at 1 qt per 100 gallons plus a nitrogen fertilizer solution at 2 qt/A (28 to 32% N) or spray grade AMS at 4lb/A. Do not apply to corn previously treated with COUNTER 15G, or COUNTER 20CR (in-furrow). Injury may occur when STEADFAST Q is applied to corn previously treated with soil applied LORSBAN, THIMET, or COUNTER 20CR. Do not tank mix STEADFAST Q with BASAGRAN or LADDOCK or severe crop injury may occur. Do not tank mix STEADFAST or STEADFAST Q with a foliar applied organophosphate insecticide, such as LORSBAN, MALATHION, PARATHION, etc., as severe crop injury may occur. Do not tank mix with 2,4-D or severe grass control antagonism may occur. Certain corn hybrids are sensitive to ALS-inhibitor herbicides (MOA=2), consult your local seed dealer for more information. <b>Rainfast interval = 4 hours.</b>					
Steadfast ATZ 89.3 WDG	14 oz			60 days	12 hours
(nicosulfuron + rimsulfuron + atrazine)		0.024 lb + 0.011 lb + 0.75 lb	2  2  5		
<b>Comments:</b> Apply STEADFAST ATZ over-the-top corn from emergence up to 12 inches tall or up and exhibiting 6 collars (V6). Add NIS at 1 qt per 100 gal or COC at 1 gal per 100 gal of spray mix plus 2 qt/A of UAN or 2 lb/A of AMS. Do not apply STEADFAST ATZ to corn previously treated with a soil insecticide such as COUNTER 15G, COUNTER 20CR (in-furrow), THIMET, LORSBAN, or COUNTER 20CR (T-banded). Do not tank mix STEADFAST ATZ with any 2,4-D containing products as severe grass control antagonism may occur. Do not tank mix STEADFAST ATZ with BASAGRAN or LADDOCK or severe crop injury may occur. Do not tank mix STEADFAST ATZ with a foliar applied organophosphate insecticide, such as LORSBAN, MALATHION, PARATHION, etc., or severe crop injury may occur. Certain corn hybrids are sensitive to ALS-inhibitor herbicides (MOA=2), consult your local seed dealer for more information. <b>Rainfast interval = 4 hours.</b>					

**Postemergence Herbicides for Weed Management in Field Corn (cont)**

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			

Stinger 3.0SL ( <i>clopyralid</i> )	0.33-0.67 pt	0.124-0.25 lb	4	---	12 hours
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**Comments:** Apply STINGER over-the-top corn from emergence up to 24 inches tall to control small broadleaf weed species. Use higher rate for larger weeds. Apply with ground equipment as a broadcast spray in 10 gallons of water or more to ensure uniform and through spray coverage of the weed foliage. STINGER may be tank mixed with HORNET WDG. See label for additional information. Corn inbred lines or breeding stock may be injured by STINGER. Do not apply more than 0.67 pt STINGER per acre per year. Do not allow livestock to graze treated areas or harvest treated corn silage as feed within 40 days after last treatment. **Rainfast interval = 6 hours.**

SureStart II 4.25 ( <i>acetochlor</i> + <i>flumetsulam</i> + <i>clopyralid</i> )	1.5-3.0 pt	0.703-1.406 lb + 0.023-0.046 lb + 0.071-0.142 lb	15  2  4	85 days	12 hours
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**Comments:** Apply SURESTART II from planting until corn reaches 11 inches in height. Do not apply SURESTART II postemergence if corn was previously treated with COUNTER (TERBUFOS) or THIMET (PHORATE) as severe crop injury may result. Postemergence applications of SURESTART II to corn previously treated with T-band, band, or in-furrow applications of other organophosphate insecticides, such as LORSBAN, AZTEC, or FORTRESS insecticide may cause temporary crop injury. Do not tank mix SURESTART II with foliar postemergence organophosphate insecticides as severe crop may result. To avoid crop injury, apply the foliar organophosphate insecticide at least 10 days before or 10 days after the application of SURESTART II. Do not apply SURESTART II to sweet corn or popcorn. *Do not plant cotton within 18 months of application.* Do not apply SURESTART II (*acetochlor*) to the following soils within 50ft of any well where depth to ground water is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter. Do not apply more than 3 pt/A of SURESTART II in a single application.

Warrant 3.0ME ( <i>acetochlor</i> )	1.5-3.0 qt	1.13-2.25 lb	15	40 days	12 hours
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**Comments:** Apply WARRANT over-the-top to corn from seedling emergence until corn reaches 30 inches in height. Drop nozzles are recommended for optimum spray coverage and weed control when corn height is 24 to 30 inches. Weeds emerged at time of application will not be controlled by WARRANT. If weeds are emerged at time of application, tank mix a labeled postemergence corn herbicide with WARRANT. Do not make a postemergence surface application using a sprayable fluid fertilizer as the carrier because severe crop injury may occur. Do not exceed 4 qt per acre per season when making a second application of WARRANT. Do not use WARRANT on sweet corn. Tank mix partners include 2,4-D, ATRAZINE, AIM, AXIOM, BALANCE, DICAMBA, DISTINCT, PYTHON, RESOURCE, GLYPHOSATE, LOROX, CALLISTO, MARKSMAN, PROWL, and RESOLVE.

2,4-D 4S (various)	0.5-1.0 pt	0.25-0.5 lb	4	7 days	48 hours
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**Comments:** Apply 2,4-D over-the-top to corn under 8" tall (to top of canopy). If corn is more than 8 inches tall, use drop nozzles to keep spray out of the whorls. Do tank mix with ATRAZINE, oil, or other adjuvants. Do not apply from tasseling to hard dough stage. Corn treated with 2,4-D may become temporarily brittle. Wind or cultivation may cause stem breakage during that time period. Make no more than one application per crop cycle. Do not apply more than 1.0 pt/A per application. Controls *glyphosate- and ALS-resistant Palmer amaranth*. Do not apply under conditions which favor drift onto nearby, sensitive crops. **Rainfast interval not indicated on label (suggest 1 hour).**

### Postemergence Directed Herbicides for Weed Management in Field Corn

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
2,4-D 4S amine or low volatile ester	0.5-1.0 pt	0.25-0.5 lb	4	7 days	48 hours
<p><b>Comments:</b> Apply 2,4-D as a postemergence directed spray from 8 inches tall up to tasseling using drop nozzles to minimize contact with corn plant. If corn plants are growing rapidly, reduce 2,4-D rate to 0.5 pt to minimize crop injury potential.</p>					
Aim 2EC ( <i>carfentrazone</i> )	0.5-2.0 fl oz	0.008-0.031 lb	14	**	12 hours
Aim 1.9EW					
<p><b>Comments:</b> Apply AIM as a postemergence directed spray from V8 to V14 growth stage. Add a COC at 1-2 gal per 100 gals, NIS at 1 qt per 100 gals, or MSO at 1-2 gal per 100 gals of spray mixture. Avoid directing the spray in the whorl of the plant. **Consult AIM product label regarding specific recommendations for preharvest intervals.</p>					
Evik 80WDG ( <i>ametryn</i> )	0.75-2.0 lb	0.6-1.6 lb	5	30 days	12 hours
<p><b>Comments:</b> Apply EVIK as a postemergence directed spray after the smallest corn is at least 12 inches tall (measured from the highest leaf surface on free-standing plants). Apply in a minimum of 20 gallons of water per acre. Coverage is important for weed control performance. Add NIS at a rate of 2 qt per 100 gals of spray mixture. Do not spray over top of corn or injury will occur. Do not make more than one application per year. Do not apply within 3 weeks of tasseling.</p>					
Gramoxone SL 2E ( <i>paraquat</i> )	1.0-2.0 pt	0.25-0.5 lb	22	7 days	12 hours
Parazone 3 S Firestorm 3 S	0.7-1.3 pt	0.26-0.49 lb			
<p><b>Comments:</b> Apply PARAQUAT as a postemergence directed spray when corn is at least 10 inches tall. A hooded or shielded sprayer is recommended to minimize spray contact with corn foliage. Apply in a minimum of 10 gallons of water per acre. Coverage is important for weed control performance. Weeds 6 inches or taller may not be controlled. Add NIS at a rate of 1 qt per 100 gals of spray mixture. If using drop nozzles, arrange nozzles to spray no higher than lower 3 inches of the corn stalks. Corn plants shorter than 10 inches may be injured and not recover. For corn greater than 20 inches in height, arrange nozzles to spray no higher than the lower 1/3 of the corn stalks. Corn foliage sprayed will be injured but crop will recover and develop normally. Do not apply more than 3 applications of PARAQUAT post-directed per year.</p>					
Linex 4L ( <i>linuron</i> )	1.25-3.0 pt	0.63-1.5 lb	7	57 days	24 hours
Lorox 50DF	1.25-3.0 lb	0.63-1.5 lb			
<p><b>Comments:</b> Apply LINEX or LOROX as a postemergence directed spray when corn is at least 15 inches tall. Apply when there is sufficient height differential between weeds and the crop so that the directed spray thoroughly covers all weed foliage without contact of upper leaves or whorl of the corn by spray or drift. Add NIS at a rate of 2 qt per 100 gals of spray mixture. Spray to cover weeds no more than 3 to 4 inches tall. Use lower rate when weeds are no taller than 2 inches and higher rate for weeds up to 4 inches tall. Non-pressure nitrogen solution may be substituted for all or part of the water carrier.</p>					

### Harvest Aids for Field Corn

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
2,4-D 4S amine or low volatile ester	1.0-3.0 pt	0.5-1.5 lb	4	7 days	48 hours
<b>Comments:</b> Apply 2,4-D broadcast after the hard dough or dent growth stage to control weeds that interfere with harvest. Make no more than one application per crop cycle. Do not apply more than 3 pints per acre per application.					
Aim 2EC ( <i>carfentrazone</i> )	1.0-2.0 fl oz	0.008-0.031 lb	14	7 days	12 hours
Aim 1.9EW					
<b>Comments:</b> Apply AIM after physiological maturity (less than 35% moisture and the black layer has formed). Desiccates annual morningglory and other weedy harvest impediments. Add a COC at 1-2 gal/100 gals, NIS at 1 qt/100 gals, or MSO at 1-2 gal/100 gals to the spray mix. Apply in spray volumes with a minimum of 10 gal/A					
<i>Glyphosate</i> acid equivalent (ae)			9	7 days	12 hours
3 lb ae/gal	32 oz	0.75 lb ae			
4 lb ae/gal	24 oz				
4.17 lb ae/gal	23 oz				
4.5 lb ae/gal	22 oz				
<b>Comments:</b> Apply GLYPHOSATE after physiological maturity (less than 35% moisture and the black layer has formed). Consult GLYPHOSATE product label for recommendations on adjuvants and other additives. Not recommended for corn grown for seed.					
Parazone 3 S ( <i>paraquat</i> )	0.8-1.3 pt	0.3-0.49 lb	22	7 days	12 hours
Firestorm 3 S					
<b>Comments:</b> Apply PARAQUAT 3S in a minimum of 20 gallons of spray per acre by ground or 5 gallons of spray per acre by air after corn is mature. A black layer at the base of each kernel indicates maturity. Add a NIS at 1 qt/100 gal of spray solution. Use the higher rate to desiccate mature broadleaf weeds and grasses. Drought stressed plants can be difficult to kill and desiccation may not be complete. Make only 1 preharvest application of PARAQUAT 3S per year.					