

# WEED CONTROL IN FIELD CORN

Mike Marshall, Extension Weed Specialist

## Preplant/Burndown Herbicides for Weed Management in Corn

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

Clarity 4 S (dicamba)	8.0-16 oz	0.25-0.5 lb	4	---	24 hours
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Banvel 4 S

**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.

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).**

Corvus 2.63 SC (thiencarbazono + isoxaflutole)	5.6 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 replant treated areas to crops other than corn or cotton within 8 months following treatment. *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 Corn (cont.)**

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

Ignite 280 S (glufosinate)	29-36 oz	0.53-0.66 lb	10	70 days	12 hours
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**Comments:** 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
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3 lb ae/gal	32-47 oz	0.75-1.13 lb ae
4 lb ae/gal	24-46 oz	
4.17 lb ae/gal	23-45 oz	
4.5 lb ae/gal	22-32 oz	

**Comments:** 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
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**Comments:** 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).

Gramoxone SL 2 E (paraquat)	2.0-4.0 pt	0.5-1.0 lb	22	---	12 hours
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Firestorm 3 S Parazone 3 S	1.5-2.0 pt				
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**Comments:** GRAMOXONE 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.

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

**Comments:** Apply LEADOFF any time after harvest until right before planting corn. LEADOFF tank mix partner include GLYPHOSATE, PARAQUAT, 2,4-D LVE, DICAMBA, or GLUFOSINATE. No additional surfactant is needed if tank mixed with glyphosate or glufosinate 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.

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

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

Sharpen 2.85SC (saflufenacil)	2.0-2.5 fl oz	0.045-0.056 lb	14	80 days	12 hours
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**Comments:** 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, neonictinoids, and fipronil. **Rainfast interval = 1 hour.**

Valor SX 51 WDG (flumioxazin)	2.0-3.0 oz	0.064-0.096 lb	14	---	12 hours
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**Comments:** 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).

Verdict 5.57EC	10-15 fl oz			80 days	12 hours
(saflufencil		0.045-0.067 lb	14		
+ dimethenamid-p)		+ 0.391-0.586 lb	15		

**Comments:** 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, neonictinoids, and fipronil.

### Weed and Cover Crop Response to Burndown/Preplant Herbicides<sup>1</sup>

	ET	Glyphosate	Glyphosate + 2,4-D	Glyphosate + Clarity	Glyphosate + Valor SX	Glyphosate + Atrazine	Glyphosate + Direx	Ignite	Ignite + 2,4-D	Ignite + Clarity	Ignite + Valor SX	Ignite + Atrazine	Ignite + Direx	Gramoxone	Gramoxone + 2,4-D	Gramoxone + Clarity	Gramoxone + Valor SX	Gramoxone + Direx
bluegrass, annual	G	F	F	F	E	E	E	P	P	G	G	GE	E	G	G	E	E	E
chickweed, common	G	F	G	GE	E	E	GE	E	E	E	GE	GE	GE	E	E	GE	E	E
dandelion	P	P	E	E	G	GE	GE	FG	GE	E	F	F	PF	N	E	GE	P	GE
dock, curly	P	PF	G	GE	G	G	F	G	G	E	F	F	PF	F	FG	GE	P	F
eveningprimrose, cutleaf	GE	PF	E	GE	FG	E	GE	G	GE	E	GE	GE	G	F	E	GE	E	GE
geranium, Carolina	GE	FG	E	E	E	E	GE	GE	E	E	GE	G	GE	GE	E	GE	E	E
henbit/deadnettle	G	F	G	GE	E	E	E	G	GE	GE	GE	E	GE	G	GE	E	E	GE
horseweed	G	E	GE	E	GE	E	E	GE	G	GE	G	GE	GE	F	GE	E	GE	GE
lambsquarters, common	G	GE	E	E	GE	E	GE	FG	G	E	G	GE	GE	FG	GE	GE	GE	E
peanut, volunteer	F	FG	GE	E	F	F	---	GE	E	E	GE	GE	---	P	GE	E	F	---
radish, wild	G	PF	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	G	GE	GE	GE	GE
ryegrass, Italian	F	G	F	F	G	GE	FG	P	P	P	F	GE	FG	FG	FG	FG	FG	G
vetch	GE	F	E	E	FG	E	G	GE	E	E	G	GE	GE	G	GE	GE	GE	G
wheat	PF	E	E	E	E	E	G	PF	F	F	E	G	F	FG	F	F	G	G

<sup>1</sup>**Key to Response Ratings:** E = excellent control, 90% or better; G = good control, 80 to 90%; F = fair control, 50 to 80%; P = poor control, 25 to 50%; N = no control, less than 25%; --- = Insufficient Data.

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

	PREEMERGENCE															
	Atrazine	Acetochlor	Alachlor	Axiom	Bicep II Magnum	Bullet/Lariat	Dimethenamid-p	Harness Xtra	Lumax	S-Metolachlor	Princep	Prowl H2O	Python	Resolve	Sharpen	Verdict
<b>Broadleaves</b>																
amaranth, Palmer <sup>2</sup>	E	GE	E	GE	E	E	E	E	E	GE	GE	GE*	E*	F*	E	E
cocklebur, common	G	P	P	P	G	G	N	E	G	N	GE	N	G	G	---	---
croton, tropic	G	N	N	PF	G	G	N	G	G	N	GE	N	PF	---	---	---
dayflower/spiderwort	F	---	GE	---	GE	GE	GE	GE	---	GE	GE	N	---	---	---	---
jimsonweed	E	N	PF	P	E	E	N	E	E	N	E	N	GE	G	---	---
lambsquarters, common	E	F	F	GE	E	E	G	E	E	G	E	G	E	GE	---	---
morningglory, annual	G	N	N	P	G	G	N	GE	G	N	GE	N	G	F	G	G
pigweed spp.	E	GE	GE	GE	E	E	GE	E	E	G	E	FG	E	GE	E	E
poinsettia, wild	GE	N	N	N	GE	GE	N	GE	---	N	G	N	E	---	---	---
pusley, Florida	E	GE	GE	G	E	E	GE	E	---	GE	GE	E	E	---	F	F
ragweed, common	E	PF	PF	PF	E	E	F	E	E	PF	E	N	GE	F	---	---
senna, coffee	F	P	P	P	F	F	P	F	---	P	---	N	FG	---	---	---
sicklepod	G	N	N	FG	G	G	N	GE	G	N	GE	N	G	FG	GE	GE
sida, prickly	E	P	P	G	E	E	P	E	FG	P	E	N	E	---	---	---
smartweed, Pennsylvania	GE	PF	P	PF	E	GE	P	E	E	P	---	N	---	G	---	---
starbur, Bristly	GE	PF	P	F	GE	GE	P	GE	---	P	GE	N	G	---	---	---
velvetleaf	G	N	N	FG	G	G	N	G	G	N	G	N	---	F	---	---
<b>Grasses</b>																
bermudagrass	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
broadleaf signalgrass	PF	GE	G	GE	GE	GE	GE	GE	G	GE	F	G	N	GE	---	GE
crabgrass, large	G	E	E	GE	E	E	E	E	GE	E	G	GE	P	F	---	E
crowfootgrass	G	E	E	G	E	E	E	E	---	E	G	E	P	---	---	E
goosegrass	G	E	E	GE	E	E	E	E	---	E	G	E	P	---	---	E
johnsongrass seedling	N	P	PF	P	GE	N	N	GE	F	F	P	E	P	---	---	N
johnsongrass rhizome	N	N	N	N	N	N	N	N	N	N	N	N	N	---	---	N
panicum, fall	PF	E	E	GE	E	E	GE	E	GE	E	G	FG	P	F	---	GE
panicum, Texas	N	PF	PF	N	N	PF	PF	N	PF	PF	P	PF	N	---	---	PF
ryegrass, annual	---	---	---	---	---	---	---	---	---	---	E	---	---	---	---	---
sandbur	---	G	G	G	GE	G	G	GE	---	G	GE	E	P	---	---	GE
<b>Sedges</b>																
purple nutsedge	N	N	N	N	N	N	F	FG	F	FG	N	N	N	---	N	F
yellow nutsedge	N	PF	PF	N	F	PF	G	G	G	G	N	N	N	---	N	G

<sup>1</sup>**Key to Response Ratings:** E = excellent control, 90% or better; G = good control, 80 to 90%; F = fair control, 50 to 80%; P = poor control, 25 to 50%; N = no control, less than 25%; --- = Insufficient Data.

<sup>2</sup>Will not control biotypes resistant to this class of chemistry

## 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	atrazine	Harness Xtra	acetochlor + atrazine
Bicep II Magnum	atrazine + s-metolachlor	Guardzman MAX	dimethenamid-p + atrazine
Bicep Lite II Magnum	atrazine + s-metolachlor	Keystone	acetochlor + atrazine
Bullet	alachlor + atrazine	Lariat	alachlor + atrazine
Cinch ATZ	s-metolachlor + atrazine	Lumax	s-metolachlor + atrazine + mestrione
Degree Xtra Expert	acetochlor + atrazine glyphosate + s-metolachlor + atrazine	Marksman Princep	dicamba + atrazine simazine
Fultime	acetochlor + atrazine	Steadfast ATZ	nicosulfuron + rimsulfuron + atrazine

## GLYPHOSATE-RESISTANT PALMER AMARANTH PROGRAMS - 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). In addition, glyphosate-resistant Palmer amaranth populations have been confirmed and are spreading in South Carolina. The following table is designed to aid producers in managing and/or preventing glyphosate-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, Guardsman, Lexar	Banvel, Clarity, Status, 2,4-D, Impact, Laudis, Callisto, atrazine	2,4-D, Evik, Lorox, Status, Clarity
	No PRE applied	Status, Laudis, Callisto, Impact Marksman, Buctril + atrazine	
<i>Liberty-Link Hybrids</i>			
	atrazine, Bicep II Magnum, Harness, Cinch ATZ, Guardsman, Lexar	Ignite + Banvel or Clarity, Ignite + Status, Ignite + 2,4-D	2,4-D, Evik, Lorox, Status, Clarity
	No PRE applied	Ignite + atrazine + Callisto Ignite + Status Ignite + atrazine + Laudis Ignite + atrazine + Impact	
<i>Roundup Ready Hybrids</i>			
	atrazine, Bicep II Magnum, Harness, Cinch ATZ, Guardsman, Lexar	glyphosate + atrazine glyphosate + Banvel, Clarity, Distinct, Status glyphosate + 2,4-D	2,4-D, Evik, Lorox, Status, Clarity
	No PRE applied	glyphosate + s-metolachlor + atrazine glyphosate + atrazine + Laudis glyphosate + s-metolachlor + Callisto glyphosate + atrazine + Impact	

<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 (PRE) Herbicides for Weed Management in Corn**

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

Aatrex 4 WDL (atrazine)	1.6-2.0 qt	1.6-2.0 lb	5	60 days	12 hours
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**Comments:** ATRAZINE is a RESTRICTED USE PESTICIDE. Use to control most broadleaf weeds and a few grasses. Tank mix with a grass herbicide for broader spectrum control.

<i>Acetochlor</i>			15	120 days	12 hours
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(Harness 7 E	1.5-3.0 pt	1.3-2.6 lb			
Harness 20 G	6.0-10.0 lb	1.2-2.0 lb			
Surpass 6.4 EC	2.0 pt	1.6 lb			
TopNotch 3.2 ME	2.0-3.0 qt	1.6-2.4 lb			
Degree 3.8 ME)	2.25-4.25 pt	1.06-2.02 lb			

**Comments:** HARNESS is a RESTRICTED USE PESTICIDE. Controls most annual grasses (*except Texas panicum*) and small-seeded broadleaf weeds. ACETOCHLOR can be tank-mixed with ATRAZINE for improved broadleaf weed control. Several pre-mixes with ATRAZINE (DEGREE XTRA, HARNESS XTRA, FULTIME) are available.

<i>Alachlor</i> (Micro-Tech 4 ME)	2.0-2.75 qt	2.0-2.75 lb	15	None	12 hours
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**Comments:** MICRO-TECH is a RESTRICTED USE PESTICIDE. Controls most annual grasses (*except Texas panicum*) and some broadleaf weeds.

Axiom 68 DF (flufenacet + metribuzin)	13-22 oz	0.55-0.94 lb	15  5	120 days	12 hours
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**Comments:** Provides annual grass and small-seeded broadleaf control similar to ACETOCHLOR, ALACHLOR, and METOLACHLOR. May be tank-mixed with ATRAZINE for improved control of broadleaf weeds. Corn and soybeans can be planted any time after an application of AXIOM.

<i>Dimethenamid-p</i> (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.

<i>Metolachlor</i> Dual 8E/II Dual 25G/II G Mag.	1.5-2.0 pt 6.0-8.0 lb	1.5-2.0 lb	15	30 days	24 hours
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<i>S-metolachlor</i> Dual Mag.7.62 EC Dual II Mag. 7.64 EC Cinch 7.64 EC	1.0-1.33 pt	0.96-1.27 lb			
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**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.



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

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
+	+	+			
Atrazine 4 WDL	1.5 qt	1.5 lb	5		
<b>Comments:</b> 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 <i>glyphosate- and ALS-resistant Palmer amaranth</i> . 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	1.3-2.1 qt			60 days	24 hours
+	0.8-1.33 pt	0.78-1.27 lb	15		
atrazine)	+	+			
	1.0-1.63 qt	1.0-1.63 lb	5		
<b>Comments:</b> BICEP II MAGNUM is a RESTRICTED USE PESTICIDE. <i>Application use rate is based on soil texture:</i> 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).					
Bullet 4 ME Lariat 4 EC	2.5-3.75 qt			60 days	12 hours
(alachlor	1.56-2.34 qt	1.56-2.34 lb	15		
+	+	+			
atrazine)	0.94-1.41 qt	0.94-1.41 lb	5		
<b>Comments:</b> BULLET and LARIAT are RESTRICTED USE PESTICIDES. <i>Application rate is based on soil type and organic matter:</i> 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	5.6 fl oz			45 days	12 hours
+		0.012 lb	2		
isoxaflutole)		+			
+		0.031 lb	27		
Atrazine 4 WDL	1.5 qt	1.5 lb	5		
<b>Comments:</b> 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 <i>glyphosate- and ALS-resistant Palmer amaranth</i> , sicklepod, and prickly sida. 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 CORVUS on soils where the subsoil is loamy sand or sand (i.e., no clay subsoil).					
Cinch ATZ 5.5 SC	2.6-3.2 pt			60 days	24 hours
(s-metolachlor	0.8-1.0 pt	0.78-0.96 lb	15		
+	+	+			
atrazine)	2.0-2.2 pt	1.0-1.24 lb	5		
<b>Comments:</b> CINCH ATZ is a RESTRICTED USE PESTICIDE. <i>Application rate is based on soil type:</i> Sandy soils = 2.6 pt/A, medium textured soils = 3.2 pt/A.					

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

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Degree Xtra 4.04SC	2.9-3.7 qt			60 days	12 hours
(acetochlor + atrazine)	4.1-5.3 pt + 0.9-1.24 qt	1.94-2.5 lb + 0.9-1.24 lb	15  5		
<b>Comments:</b> DEGREE XTRA is a RESTRICTED USE PESTICIDE. <i>Application rate is based on soil type:</i> Sandy soils = 2.9 qt/A, Medium textured soils = 2.9-3.74 qt/A. Use higher rate for each soil type if applying in a reduced tillage system.					
FulTime 4 SC	2.5-3.3 qt			60 days	12 hours
(acetochlor + atrazine)	1.9-2.25 qt + 1.0-1.12 qt	1.52-1.8 lb + 1.0-1.12 lb	15  5		
<b>Comments:</b> FULTIME is a RESTRICTED USE PESTICIDE. <i>Application rate is based on soil type:</i> Sandy soils = 2.5-3.0 qt/A, Medium textured soils = 2.7-3.3 qt/A. Use higher rate for each soil type if applying in a reduced tillage system.					
Harness Xtra 5.6 L	1.4-2.6 qt			60 days	12 hours
(acetochlor + atrazine)	1.25-1.5 pt + 1.4-1.9 qt	1.09-1.31 lb + 1.4-1.9 lb	15  5		
<b>Comments:</b> HARNESS XTRA is a RESTRICTED USE PESTICIDE. <i>Application rate is based on soil type:</i> Sandy soils = 1.4-1.7 qt/A, Medium textured soils = 1.7-2.6 qt/A. Use higher rate for each soil type if applying in a reduced tillage system.					
Lumax 3.95 EC	2.5 qt			60 days	24 hours
(s-metolachlor + atrazine + mesotrione)	1.6 pt  1.25 pt  0.58 oz	1.68 lb  0.625 lb  0.018 lb	15  5  28		
<b>Comments:</b> LUMAX is a RESTRICTED USE PESTICIDE. Apply LUMAX preemergence after planting or as a preplant treatment up to 14 days before planting. If applied as a preplant burndown, include GLYPHOSATE. Up to 0.82 lb of ATRAZINE may be applied postemergence.					
Princep 4 WDL (simazine)	2.0-2.5 qt	2.0-2.5 lb	5	60 days	48 hours
<b>Comments:</b> PRINCEP is a RESTRICTED USE PESTICIDE. Similar to ATRAZINE but requires more rainfall for activation and is generally less effective in control of certain broadleaf weeds. SIMAZINE may be tank mixed with ATRAZINE, ALACHLOR, or METOLACHLOR.					

**Preemergence (PRE) Herbicides for Weed Management in 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 (pendimethalin)	1.55-3.13 pt	0.74-1.49 lb	3	21 days	24 hours
Prowl 3.3 EC + atrazine 4 WDL	1.8-3.6 pt + 1.0-2.0 qt	0.74-1.49 lb + 1.0-2.0 lb	5		

**Comments:** Do not apply 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 (flumetsulam)	1.0 oz	0.05 lb	2	85 days	12 hours
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**Comments:** For areas where ATRAZINE cannot be used or in fields subject 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. *Do not plant cotton within 18 months of application.*

Resolve 25 DF (rimsulfuron)	0.5-2.0 oz	0.008-0.031 lb	2	30 days	4 hours
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**Comments:** Controls most annual grasses and broadleaves including broadleaf signalgrass. For control of emerged weeds at 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.

Sharpen 2.85SC (saflufenacil)	2.0-2.5 fl oz	0.045-0.056 lb	14	80 days	12 hours
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**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 H<sub>2</sub>O, 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, neonictinoids, and fipronil.

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

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Verdict 5.57EC	10-15 fl oz			80 days	12 hours
(saflufencil		0.045-0.067 lb	14		
+ dimethenamid-p)		+ 0.391-0.586 lb	15		

**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.

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

	POSTEMERGENCE																			
	Atrazine	Accent/NIC-IT/Q	Aim	Balance Flexx	Basagran	Beacon	Banvel/Clarity	Buctril	Cadet	Callisto	Capreno	Corvus	Distinct/Status	Expert	Glyphosate	Halex GT	Ignite	Impact	Laudis	
<b>Broadleaves</b>																				
amaranth, Palmer <sup>2</sup>	E	GE*	G	E	N	GE*	E	F	G	E	GE	E	E	E	E*	E	FG	GE	GE	
anoda, spurred	E	FG	N	---	N	F	GE	---	---	G	---	---	GE	E	GE	GE	G	---	---	
cocklebur, common	E	F	G	G	E	GE	E	E	---	E	E	G	E	E	E	E	E	E	E	
croton, tropic	G	---	---	---	GE	---	GE	FG	---	P	---	---	GE	G	G	G	G	---	---	
jimsonweed	E	FG	GE	---	E	E	E	E	---	E	E	---	E	E	GE	GE	G	GE	GE	
lambsquarters, common	E	P	GE	---	FG	N	E	E	---	E	GE	---	E	E	E	E	E	GE	GE	
morningglory spp.	G	F	G	G	P	G	E	G	G	GE	GE	G	E	FG	FG	GE	E	GE	GE	
pigweed spp.	E	GE	G	E	N	GE	E	F	GE	E	GE	E	E	E	E	E	FG	GE	GE	
pusley, Florida	G	N	FG	---	P	GE	G	E	---	---	GE	---	G	P	P	P	FG	---	---	
ragweed, common	GE	P	FG	---	G	---	E	E	---	F	E	---	E	E	GE	GE	E	F	GE	
senna, coffee	FG	FG	N	---	N	FG	E	F	---	F	---	---	GE	GE	GE	GE	G	---	---	
sicklepod	G	F	N	---	N	GE	GE	N	G	P	GE	---	GE	E	E	E	E	GE	GE	
sida, prickly	GE	P	FG	---	G	---	G	F	---	P	GE	---	GE	E	G	G	GE	---	GE	
smartweed, Pennsylvania	G	G	FG	---	E	GE	E	GE	---	G	GE	---	E	G	G	G	E	GE	GE	
starbur, bristly	E	---	---	---	E	---	E	F	---	E	---	---	GE	E	GE	E	G	---	---	
velvetleaf	G	F	F	---	GE	G	GE	GE	---	GE	E	---	GE	G	G	GE	GE	GE	GE	
vol. peanut	G	G	N	GE	N	G	G	N	---	N	---	GE	GE	G	G	G	E	---	---	
vol. RR soybean	E	G	N	E	N	GE	E	F	---	---	---	E	GE	E	N	---	G	---	---	
<b>Grasses</b>																				
bermudagrass	N	N	N	N	N	N	N	N	N	N	N	N	N	N	F	F	F	P	N	N
broadleaf signalgrass	F	GE	N	N	N	N	N	N	N	N	GE	---	N	GE	GE	GE	G	N	N	
crabgrass, large	G	F	N	G	N	N	N	N	N	N	GE	G	P	E	E	E	G	N	N	
crowfootgrass	G	E	N	---	N	---	N	N	N	N	---	---	P	E	E	E	G	N	N	
goosegrass	G	E	N	---	N	---	N	N	N	N	E	G	P	E	E	E	G	N	N	
johnsongrass seedling	F	E	N	G	N	E	N	N	N	P	E	G	F	E	E	E	GE	N	N	
johnsongrass rhizome	N	GE	N	N	N	G	N	N	N	P	N	N	N	E	E	E	F	P	P	
sandbur	F	E	N	G	N	---	N	N	N	P	E	F	N	GE	GE	GE	G	P	P	
panicum, fall	G	G	N	G	N	G	N	N	N	P	E	G	F	E	E	E	G	P	P	
panicum, Texas	F	GE	N	---	N	PF	N	N	N	N	GE	F	N	E	E	E	F	N	N	
<b>Sedges</b>																				
purple nutsedge	N	N	N	---	N	---	N	N	N	F	---	---	N	G	G	G	P	P	P	
yellow nutsedge	PF	P	N	---	G	---	N	N	N	F	---	---	N	FG	FG	FG	P	P	P	

<sup>1</sup>Key to Response Ratings: E = excellent control, 90% or better; G = good control, 80 to 90%; F = fair control, 50 to 80%; P = poor control, 25 to 50%; N = no control, less than 25%; --- = Insufficient Data.

<sup>2</sup>Will not control biotypes resistant to this class of chemistry

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

	POSTEMERGENCE												POST-DIRECTED				
	Marksman	Option	Sandea	Prowl H2O	Pursuit	Resolve	Resolve Q	Sequence	Steadfast/Q	Steadfast ATZ	Stout	2,4-D	Aim	Evik	Linex /Lorox	Gramoxone	2,4-D
<b>Broadleaves</b>																	
amaranth, Palmer <sup>2</sup>	GE	F*	G*	N*	GE*	PF*	PF*	E*	GE*	E	FG*	E	G	E	E	GE	E
anoda, spurred	GE	---	---	N	---	---	---	GE	FG	E	---	G	N	G	GE	GE	G
cocklebur, common	E	G	E	N	E	PF	PF	E	FG	E	---	E	G	E	E	GE	E
croton, tropic	GE	---	---	N	PF	---	---	GE	---	GE	---	G	---	G	G	GE	GE
jimsonweed	E	G	---	N	PF	P	P	GE	G	E	G	E	GE	E	E	GE	GE
lambquarters, common	E	G	PF	N	N	PF	PF	GE	F	E	PF	E	G	E	E	G	E
morningglory spp.	E	F	PF	N	FG	P	P	G	FG	G	P	E	G	E	E	G	GE
pigweed spp.	E	G	GE	N	GE	PF	PF	E	E	E	FG	E	G	E	E	GE	E
pusley, Florida	GE	---	---	GE	PF	---	---	FG	FG	GE	---	G	FG	E	G	G	GE
ragweed, common	E	G	GE	N	P	P	P	GE	FG	E	---	E	P	E	E	GE	E
senna, coffee	GE	---	---	N	---	---	---	GE	FG	FG	---	GE	N	GE	GE	G	GE
sicklepod	GE	F	N	N	PF	---	---	GE	PF	E	---	G	N	G	GE	GE	E
sida, prickly	E	---	G	N	FG	N	N	GE	N	GE	---	G	G	GE	GE	G	GE
smartweed, Pennsylvania	E	PF	G	N	E	N	N	GE	FG	GE	G	F	G	G	GE	FG	G
starbur, bristly	GE	---	---	N	P	---	---	GE	---	E	---	GE	---	E	GE	GE	GE
velvetleaf	E	G	GE	N	---	PF	PF	G	F	G	GE	G	E	G	G	G	GE
vol. peanut	E	---	N	N	N	---	---	G	G	G	---	F	N	GE	G	P	F
vol. RR soybean	E	---	---	N	N	---	---	N	G	E	---	GE	N	GE	GE	F	GE
<b>Grasses</b>																	
bermudagrass	N	N	N	N	N	N	N	F	N	N	N	N	N	N	N	PF	N
broadleaf signalgrass	N	G	N	GE	PF	PF	PF	GE	GE	GE	G	N	N	E	GE	GE	N
crabgrass, large	N	FG	N	GE	F	P	P	E	FG	FG	N	N	N	GE	GE	GE	N
crowfootgrass	N	F	P	GE	F	N	N	E	E	GE	N	N	N	E	GE	GE	N
goosegrass	N	F	P	GE	F	P	P	E	E	GE	N	N	N	GE	G	GE	N
johnsongrass seedling	N	E	P	G	PF	P	P	E	E	E	N	N	N	GE	G	GE	N
johnsongrass rhizome	N	G	N	N	N	N	N	E	GE	GE	N	N	N	P	P	N	N
sandbur	N	F	P	F	---	PF	PF	GE	E	E	FG	N	N	G	E	GE	N
panicum, fall	N	G	P	GE	F	G	G	E	G	G	G	N	N	GE	GE	GE	N
panicum, Texas	N	F	P	F	PF	PF	PF	E	E	E	G	N	N	G	G	E	N
<b>Sedges</b>																	
purple nutsedge	F	PF	G	N	G	P	P	FG	N	N	N	N	N	PF	P	FG	N
yellow nutsedge	F	PF	GE	N	F	P	P	FG	P	PF	N	N	N	F	F	FG	N

<sup>1</sup>**Key to Response Ratings:** E = excellent control, 90% or better; G = good control, 80 to 90%; F = fair control, 50 to 80%; P = poor control, 25 to 50%; N = no control, less than 25%; --- = Insufficient Data.

<sup>2</sup>Will not control biotypes resistant to this class of chemistry

### Postemergence (POST) Herbicides for Weed Management in Corn

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Accent 75 DF (nicosulfuron)	0.67 oz	0.031 lb	2	30 days	4 hours
Accent Q 54.5 WDG	0.9 oz				
NIC-IT 2 EC	2.0 oz				
<p><b>Comments:</b> 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 (up to 36 inches with drop nozzles), whichever is most restrictive. 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. <b>Rainfast interval = 4 hours.</b></p>					
Aim 2 EC (carfentrazone)	0.5-1.0 fl oz	0.008-0.016 lb	14	3 days	12 hours
Aim 1.9 EW					
<p><b>Comments:</b> Apply AIM broadcast to corn from emergence until 8 leaf collar growth stage (V8). Excellent control of small sicklepod, <i>glyphosate-resistant Palmer amaranth</i>, 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. <b>Rainfast interval = 6 hours</b></p>					
Aatrex 4 WDL (atrazine)	2.0 qt	2.0 lb	5	None	12 hours
<p><b>Comments:</b> If ATRAZINE was not applied prior to corn emergence, apply a maximum of 2 lbs ai/A. If a postemergence treatment is required following an earlier herbicide application, the total ATRAZINE applied may not exceed 2.5 lbs ai/acre per calendar year. Applications must be made before corn height exceeds 12 inches tall. Add COC at 1 gal per 100 gal of spray mix. <b>Rainfast interval = N/A (suggest 1 hour).</b></p>					
Balance Flexx 2 SC (isoxaflutole)	6.0 fl oz	0.094 lb	27	45 days	12 hours
+ Atrazine 4 WDL	+ 1.0 pt	+ 0.5 lb	5		
<p><b>Comments:</b> BALANCE FLEXX is a RESTRICTED USE PESTICIDE. Apply BALANCE FLEXX overtop on corn from spiking through the 2 leaf collar stage (V2). Controls <i>glyphosate- and ALS-resistant Palmer amaranth</i>, sicklepod, and prickly sida. Add 0.5 lb/A ATRAZINE to enhance control of weeds larger than 6 inches (<i>restricts broadcast application to corn 12 inches tall or less</i>). 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). <b>Rainfast interval = N/A (suggest 1 hour).</b></p>					

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

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

Banvel 4 S (dicamba)	0.5-1.0 pt	0.25-0.5 lb	4	**	24 hours
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Clarity 4 L

**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 give 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 to weeds that 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. **Rainfast interval = 4 hours.**

Buctril 4 EC (bromoxynil)	0.5-0.75 pt	0.25-0.38 lb	6	45 days	24 hours
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+ atrazine 4 WDL	+ 1.0-2.0 qt	+ 1.0-2.0 lb	5		
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**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 (fluthiacet methyl)	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.**



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

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

Callisto 4 SC (mesotrione)	3.0 fl oz	0.094 lb	27	45 days	12 hours
+ atrazine 4 WDL	+ 1.0 pt	+ 0.5 lb	5		

**Comments:** Apply CALLISTO 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 (thiencarbazono + tembotrione)	3.0 fl oz	0.013 lb + 0.068 lb	2 27	45 days	12 hours
+ atrazine 4 WDL	+ 1.0 pt	+ 0.5 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. **Rainfast interval = 1 hour.**

Corvus 2.63 SC (thiencarbazono + isoxaflutole)	5.6 fl oz	0.012 lb + 0.031 lb	2 27	45 days	12 hours
+ atrazine 4 WDL	+ 1.0 pt	+ 0.5 lb	5		

**Comments:** CORVUS is a RESTRICTED USE PESTICIDE. Apply CORVUS 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 CORVUS applied to emerged corn. Do not apply tank-mixes of CORVUS 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 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). **Rainfast interval = N/A (suggest 1 hour).**

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

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

Distinct 70 DG	4.0-6.0 oz			72 days	12 hours
(dicamba		0.138-0.207 lb	4		
+ diflufenzopyr)		+ 0.054-0.80 lb	19		

**Comments:** Apply overtop 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. 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	2.5-3.75 qt			60 days	24 hours
(glyphosate		0.47-0.71 lb ae	9		
+ s-metolachlor		+ 1.09-1.63 lb	15		
+ atrazine		+ 1.33-2.0 lb	5		

**Comments: USE ONLY ON CORN HYBRIDS DESIGNATED AS ROUNDUP READY AND ROUNDUP READY 2 TECHNOLOGY!** 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.**

Glyphosate (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 CORN HYBRIDS DESIGNATED AS ROUNDUP READY AND ROUNDUP READY 2 TECHNOLOGY!** Apply GLYPHOSATE broadcast in corn up to the V8 growth stage (about 30" tall) before weed 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).**

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

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Halex GT 4.389 L (s-metolachlor + glyphosate + mesotrione)	3.6-4.0 pt	0.95-1.05 lb + 0.95-1.05 lb ae + 0.10-0.11 lb	15  9  27	45 days	24 hours
<b>Comments: USE ONLY ON CORN HYBRIDS DESIGNATED AS ROUNDUP READY, ROUNDUP READY 2 TECHNOLOGY, AND AGRISURE GT!</b> Apply HALEX GT broadcast in corn up to the V8 growth stage (30 inches in height). Add NIS at 1-2 qt/100 gal plus AMS at 8.5 lb/100 gal to the spray tank. If activating rain (0.25") is not received within 7-10 days, residual activity will be reduced. Do apply foliar carbamate or organophosphate insecticides 7 days before or 7 days after a HALEX GT application. Do not apply HALEX GT postemergence to fields treated with soil-applied COUNTER or LORSBAN insecticides. Do not apply HALEX GT in a nitrogen fertilizer carrier solution (i.e., UAN). Do not apply more than 4.0 pt/A/year of HALEX GT. <b>Rainfast interval = not indicated on label (suggest 1 hour minimum).</b>					
Ignite 280 2.34 SL (glufosinate)	22 fl oz	0.40 lb	10	70 days	12 hours
<b>Comments: USE ONLY ON CORN HYBRIDS DESIGNATED AS LIBERTY-LINK!</b> Apply IGNITE overtop on corn from emergence up to the 24 inch tall corn (V7). For corn 24 to 36 inches tall, use drop nozzles when applying IGNITE. Avoid spraying into the whorl or leaf axils of the corn stalks. <i>Controls glyphosate- and ALS-resistant Palmer amaranth (less than 4").</i> Always add AMS at 3 lb/A when applying IGNITE. Do not add NIS or COC as it may increase crop response. Do not exceed 44 oz IGNITE per acre per season. Do not use nitrogen solutions as spray carriers. <b>**Do apply IGNITE within 60 days of harvesting corn forage and within 70 days of harvesting corn grain and corn fodder. Rainfast interval = 4 hours.</b>					
Impact 2.8 SC (topramezone) + atrazine 4 WDL	0.75 fl oz  + 1.0-2.0 pt	0.016 lb  + 0.5-1.0 lb	28  5	45 days	12 hours
<b>Comments:</b> Apply IMPACT overtop corn from emergence up to 12 inches tall. IMPACT alone can be applied up to 45 days before harvest. 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 periods where hot dry weather is expected). Do not apply more than 0.75 fl oz/A per season. Good to excellent control of <i>glyphosate- and ALS-resistant and Palmer amaranth (less than 6" tall)</i> . <b>Rainfast interval = 1 hour.</b>					
Laudis 3.5 SC (tembotrione + atrazine 4 WDL)	3.0 fl oz  + 1.0 pt	0.082 lb  + 0.5 lb	27  5	45 days	12 hours
<b>Comments:</b> 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 "(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. <b>Rainfast interval = 1 hour.</b>					

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

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Marksman 3.2 S  (dicamba + atrazine)	2.0-3.5 pt	0.28-0.48 lb + 0.53-0.92 lb	4  5	60 days	24 hours
<b>Comments:</b> MARKSMAN is a RESTRICTED USE PESTICIDE. Apply MARKSMAN ovetop corn from emergence through the 5 leaf growth stage (V5) or 8 inches tall. Controls <i>glyphosate- and ALS-resistant Palmer amaranth</i> . 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. <b>Rainfast interval = 4 hours.</b>					
Option 35 DF (foramsulfuron)	1.5-1.75 oz	0.003-0.038 lb	2	**	12 hours
<b>Comments:</b> 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. <b>Rainfast interval = 2 hours.</b>					
Prowl H <sub>2</sub> O 3.8 CS (pendimethalin)	2.0-3.0 pt	0.95-1.43 lb	3	21 days	24 hours
Prowl 3.3 EC + atrazine 4 WDL	1.8-2.4 pt + 1.5-2.0 qt	0.75-1.0 lb + 1.5-2.0 lb	5		
<b>Comments:</b> 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. <b>Rainfast interval = not indicated on label (suggest 1 hour).</b>					
Resolve 25 DF (rimsulfuron)	1.0 oz	0.016 lb	2	30 days	4 hours
<b>Comments:</b> Apply RESOLVE 25DF ovetop to corn from emergence up to 12 inch corn (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 LADDOCK or severe crop injury may occur. Do not tank mix RESOLVE 25 DF with a foliar applied organophosphate insecticides, such as LORSBAN, MALATHION, PARATHION, etc., as severe crop injury may occur. <b>Rainfast interval = not indicated on label (suggest 1 hour).</b>					

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

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Resolve Q (mp) 22.4 DF	1.25 oz			30 days	4 hours
(thifensulfuron + rimsulfuron)		0.014 lb + 0.003 lb	2  2		
<b>Comments:</b> Apply RESOLVE Q over-the-top to corn from emergence up to 20 inch corn (7 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 tank mix RESOLVE Q with BASAGRAN or LADDOCK or severe crop injury may occur. Do not tank mix RESOLVE Q with a foliar applied OP insecticides, such as LORSBAN, MALATHION, PARATHION, etc., as severe crop injury may occur. <b>Rainfast interval = not indicated on label (suggest 1 hour).</b>					
Sandea 75WDG (halosulfuron)	0.67-1.33 oz	0.031-0.062 lb	2	30 days	12 hours
<b>Comments:</b> 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. <b>Rainfast interval = 4 hours.</b>					
Sequence 5.25 S	2.0-2.5 pt			50 days	24 hours
(glyphosate + s-metolachlor)		0.56-0.71 lb ae + 0.56-0.70 lb	9  15		
<b>Comments:</b> <b>USE ONLY ON CORN HYBRIDS DESIGNATED ROUNDUP READY AND ROUNDUP READY 2 TECHNOLOGY!</b> 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). <b>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).</b>					
Status 56WDG	5-10 oz			**	24 hours
(dicamba + diflufenzopyr + isoxadifen)		0.223-0.446 lb + 0.089-0.178 lb + safener	4  19		
<b>Comments:</b> Apply STATUS over-the-top on corn from V2 (4" tall) to V10 (36" tall) growth stages. Controls <i>glyphosate- and ALS-resistant Palmer amaranth</i> . 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. <b>**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.</b>					

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

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Steadfast 75DF (nicosulfuron + rimsulfuron)	0.75 oz	0.023 lb + 0.012 lb	2  2	30 days	4 hours
<p><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 insecticides, such as LORSBAN, MALATHION, PARATHION, etc., as severe crop injury may occur. <b>Rainfast interval = 4 hours.</b></p>					
Steadfast Q 37.7 WDG (nicosulfuron + rimsulfuron)	1.5 oz	0.023 lb + 0.012 lb	2  2	30 days	4 hours
<p><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 insecticides, 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. <b>Rainfast interval = 4 hours.</b></p>					
Steadfast ATZ 89.3 WDG (nicosulfuron + rimsulfuron + atrazine)	14 oz	0.024 lb + 0.011 lb + 0.75 lb	2  2  5	60 days	12 hours
<p><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 insecticides, such as LORSBAN, MALATHION, PARATHION, etc., or severe crop injury may occur. <b>Rainfast interval = 4 hours.</b></p>					

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

Herbicide	Rate/Acre Broadcast		Mode of Action	Preharvest Interval	Restricted Entry Interval
	Formulation	Active Ingredient			
Stout 72.5 DF	0.5-0.75 oz			30 days	4 hours
(nicosulfuron		0.021-0.025 lb	2		
+ thifensulfuron)		+ 0.002-0.009 lb	2		
<p><b>Comments:</b> Apply STOUT over-the-top to corn up to 16 inches tall (exhibiting 5 collars). Do not apply to field corn grown for seed, popcorn, or sweet corn. Add NIS at 1 qt/100 gal, or COC at 1 gal/100 gal of spray mix. Do not apply STOUT to corn previously treated with COUNTER 15G, or COUNTER 20CR (in-furrow) unless hybrid is IR (imidazolinone resistant). Do not tank mix STOUT with any 2,4-D containing products as severe grass control antagonism may occur. Do not tank mix STOUT with BASAGRAN or LADDOCK or severe crop injury may occur. Do not tank mix STOUT with a foliar applied organophosphate insecticides, such as LORSBAN, MALATHION, PARATHION, etc., as severe crop injury may occur. <b>Rainfast interval = 4 hours.</b></p>					
2,4-D 4S (various)	0.5-1.0 pt	0.25-0.5 lb	4	7 days	48 hours
<p><b>Comments:</b> 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 <i>glyphosate- and ALS-resistant Palmer amaranth</i>. Do not apply under conditions which favor drift onto nearby, sensitive crops. <b>Rainfast interval = not indicated on label (suggest 1 hour).</b></p>					

### POST Directed Herbicides for Weed Management in 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	0.125-0.25 lb	4	7 days	48 hours
<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.					
Aim 2EC (carfentrazone)	0.5-2.0 fl oz	0.008-0.031 lb	14	**	12 hours
Aim 1.9EW					
<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.					
Evik 80WDG (ametryn)	1.25-2.5 lb	1.0-2.0 lb	5	30 days	12 hours
<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 apply within 3 weeks of tasseling.					
Gramoxone SL 2E (paraquat)	1.0-2.0 pt	0.25-0.5 lb	22	7 days	12 hours
<b>Comments:</b> Apply GRAMOXONE SL 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 20 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 2 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.					
Linex 4L (linuron)	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			
<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.					



### Harvest Aids in 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	0.25-1.5 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 (carfentrazone)	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, black layer has formed). Desiccates annual morningglory and other 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					
Glyphosate 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, black layer has formed). Consult GLYPHOSATE product label for recommendations on adjuvants and other additives. Not recommended for corn grown for seed.					

**Crop Replant and Rotation Restrictions for Corn Herbicides<sup>1</sup>**

	Corn	Cotton	Grain Sorghum	Peanuts	Soybeans	Sunflower	Tobacco	Wheat
Aatrex	0 D	Spring	0D	Spring	Spring	Spring	Spring	Spring
Accent/Q	0 D	10 M	10 M	10 M	15 D	10 M	10 M	4 M
Aim	0 D	0 D	0 D	0 D	0 D	0 D	12 M	0 D
Axiom	0 D	8M	12 M	12 M	0 D	12 M	12 M	4M
Balance Flexx	0 D	10 M	6 M	10 M	6 M	6 M	18 M	4 M
Banvel/Clarity	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring
Basagran	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring
Beacon	14 D	8 M	8 M	8 M	8 M	8 M	8 M	3M
Bicep II Magnum	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring
Buctril	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D
Bullet/Lariat	0 D	Spring	0 D	Spring	Spring	Spring	Spring	Spring
Cadet	0 D	Spring	Spring	Spring	0 D	Spring	Spring	Spring
Callisto	0 D	10M	0D	10M	10M	10M	10M	120 D
Capreno	0 D	10 M	10 M	18 M	10 M	18 M	18 M	4 M
Cinch	0 D	0 D	0 D	0 D	0 D	0 D	Spring	4.5 M
Cinch ATZ	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring
Corvus	0 D	9 M	17 M	9 M	9 M	17 M	17 M	4 M
Define	0 D	4 M	12 M	12 M	0 D	12 M	12 M	12 M
Degree	0D	Spring	Spring	Spring	Spring	Spring	Spring	4M
Degree Extra	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring
Distinct	0 D	0 D	0 D	0 D	0 D	0 D	Spring	4.5 M
Dual 8E	0 D	0 D	0 D	0 D	0 D	0 D	Spring	4.5 M
Dual Magnum	0 D	0 D	0 D	0 D	0 D	0 D	Spring	4.5 M
Dual II Magnum	0 D	0 D	0 D	0 D	0 D	0 D	Spring	4.5 M
Evik	Spring	Spring	Spring	Spring	Spring	Spring	Spring	3 M
Expert	0 D	Spring	0 D	Spring	Spring	Spring	Spring	Spring
FulTime	0 D	Spring	Spring	Spring	Spring	15 M	15 M	15 M
Glyphosate	0 D	0D	0 D	0 D	0 D	0 D	1 M	0 D
Gramoxone SL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D
Guardman Max	0 D	Spring	0 D	Spring	Spring	Spring	18 M	Spring
Halex GT	0 D	10 M	0 D	10 M	10 M	10 M	10 M	120 D

<sup>1</sup> M = months, D = days, Spring = The spring following application, Fall = the fall following application.

**Crop Replant and Rotation Restrictions for Corn Herbicides (cont)<sup>1</sup>**

	Corn	Cotton	Grain Sorghum	Peanuts	Soybeans	Sunflower	Tobacco	Wheat
Harness	0 D	Spring	Spring	Spring	Spring	Spring	Spring	4 M
Harness Extra	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring
Impact	0 D	9 M	9 M	9 M	9 M	9 M	18 M	3 M
Ignite 280 SL	0 D	0 D	180 D	180 D	0 D	180 D	180 D	70 D
Laudis	0 D	18 M	18 M	18 M	8 M	18 M	18 M	4 M
Linex/Lorox	4 M	4 M	4 M	4 M	4 M	4 M	4 M	4 M
Lumax	0 D	Spring	Spring	Spring	Spring	18 M	18 M	4.5 M
Marksman	0 D	Spring	0 D	Spring	Spring	Spring	Spring	Spring
Micro-Tech	Spring	Spring	Spring	Spring	Spring	Spring	Spring	Spring
NIC-IT	0 D	10 M	18 M	18 M	15 D	11 M	18 M	8 M
Option	7 D	60 D	60 D	60 D	14 D	60 D	60 D	60 D
Outlook	0 D	Spring	Spring	0 D	0 D	Spring	Spring	4 M
Prowl H <sub>2</sub> O	0 D	0 D	0 D	0 D	0 D	0 D	0 D	4 M
Pursuit	18 M	18 M	18 M	0 D	0 D	18 M	9.5 M	4 M
Python	0 D	18 M	12 M	4 M	0 D	18 M	9 M	4 M
Resolve	0 D	10 M	10 M	18 M	10 M	10 M	18 M	3 M
Resolve Q	0 D	10 M	10 M	18 M	10 M	10 M	18 M	3 M
Sandea	1 M	4 M	2 M	6 M	9 M	18 M	36 M	2 M
Sequence	0 D	0 D	0 D	0 D	0 D	Spring	Spring	4.5 M
Sharpen								
1.0 oz/A	0 D	1.5 M	0 D	4 M	0-1M <sup>2</sup>	4 M	4 M	0 D
2.0 oz/A	0 D	3 M	0 D	5 M	1-2 M <sup>2</sup>	5 M	5 M	0 D
3.0 oz/A	0 D	4 M	0 D	6 M	2-3 M <sup>2</sup>	6 M	6 M	0 D
Status	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D
Steadfast	0 D	10 M	10 M	18 M	15 D	10 M	18 M	8 M
Steadfast Q	0 D	10 M	10 M	18 M	15 D	10 M	18 M	8 M
Steadfast ATZ	10 M	10 M	10 M	18 M	10 M	10 M	18 M	8 M
Stout	0 D	10 M	10 M	18 M	15 D	10 M	18 M	8 M
Surpass	0 D	Spring	Spring	Spring	Spring	Spring	Spring	4 M
TopNotch	0 D	Spring	Spring	Spring	Spring	Spring	Spring	4 M
Verdict								
10-12 oz/A	0 D	Spring	0 D	Spring	1-2 M <sup>3</sup>	Spring	Spring	4 M
13-15 oz/A	0 D	Spring	0 D	Spring	2-3 M <sup>3</sup>	Spring	Spring	4 M
2,4-D	Only crops labeled for 2,4-D in the same year.							

<sup>1</sup> M = months, D = days, Spring = The spring following application.

<sup>2</sup> Use the longer interval within the ranges listed for crops grown on coarse textured soils with organic matter less than 2.0%.

<sup>3</sup> Use the longer interval within the ranges listed for replanting soybeans (i.e., 2 months for coarse textured soils with organic matter less than 2.0% and 1 month for coarse textured soils with organic matter greater than or equal to 2.0%)