

Parameters for using pre-emergence herbicides on emerged corn.

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With wet spring conditions in many parts of Nebraska, producers may be pressed to make adjustments to their intended herbicide programs. Each year questions arise on the limits of using pre-emergence herbicides on emerged corn. Table 1 lists a number of commonly used pre-emergence herbicides labeled for broadcast application after corn emergence, along with crop and weed stage or height information. This list is not comprehensive, however it does provide information on many of the commonly used products in the market place. If your herbicide choice is not listed in Table 1, be sure to check the label for use restrictions.

If the product you are using contains atrazine, the addition of a crop oil concentrate can enhance control. Atrazine is primarily translocated upward in the plant (xylem mobile). When a foliar application is made, atrazine behaves more like a contact herbicide.

If you are utilizing glyphosate-resistant corn, tank mixing glyphosate with one of the pre-emergence herbicides will improve total weed control, especially if weeds are larger than you had anticipated. If you tank mix glyphosate with a pre-emergence product in this situation, adding 17 lbs/100 gallons of AMS will improve its performance. The same will apply to tank mixing Liberty on Liberty Link corn varieties, however, you will want to use 3 lb/ac AMS (1.5 lb/ac if tank mixing with Lumax or Lexar).

Remember, applying pre-emergence herbicides with a liquid nitrogen carrier is not advised. Unacceptable crop injury will occur.

(Table 1 listed below)

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Table 1. Pre-emergence herbicides that can be applied post-emergence in corn.

Herbicide	Active Ingredient(s)	Crop Stage	Weed Stage
Aatrex/Atrazine	Atrazine	0-12"	1.5" ^G
Bicep II Magnum/Cinch ATZ	S-metolachlor, Atrazine	0-5"	2-leaf ^{G&B}
Bicep II Lite Magnum/Cinch ATZ Lite	S-metolachlor, Atrazine	0-5"	2-leaf ^{G&B}
Bicep II Magnum FC	S-metolachlor, Atrazine	0-5"	2-leaf ^{G&B}
Bullet	Alachlor, Atrazine	0-5"	2-leaf ^{G&B}
Callisto [#]	Mesotrione	0-30"	0-5" ^B
Camix [#]	S-metolachlor, Mesotrione	0-12"	0-3" ^B
Degree	Acetochlor	0-11"	unemerged
Degree Xtra	Acetochlor, Atrazine	0-11"	2-leaf ^{G&B}
Dual Magnum	S-metolachlor	0-5"	unemerged
Dual II Magnum/Cinch	S-metolachlor	0-5"	unemerged
Dual + Atrazine	S-metolachlor, Atrazine	0-5"	2-leaf ^{G&B}
Expert ^{#, ##, ###}	Atrazine, S-metolachlor, Glyphosate	0-12"	weeds < 6"
FieldMaster ^{*, ##}	Acetochlor, Atrazine, Glyphosate	0-11"	weeds < 6"
Fultime	Atrazine, Acetochlor	0-11"	unemerged
G-MAX Lite	Dimethenamid, Atrazine	0-12"	1.5" ^{G&B}
Guardsman Max	Dimethenamid, Atrazine	0-12"	1.5" ^{G&B}
Harness/Confidence	Acetochlor	0-11"	unemerged
Harness Xtra/Confidence Xtra	Acetochlor, Atrazine	0-11"	2-leaf ^{G&B}
Hornet WDG	Flumetsulam, Clopyralid	0-20"	2-6" ^{G&B}
Keystone/Breakfree ATZ	Acetochlor, Atrazine	0-11"	unemerged
Keystone LA/Breakfree ATZ Lite	Acetochlor, Atrazine	0-11"	unemerged
Lasso	Alachlor	0-5"	2-leaf ^B
Lasso + Atrazine	Alachlor, Atrazine	0-5"	2-leaf ^{G&B}
Lasso + Banvel	Alachlor, Dicamba	0-3"	2-leaf ^B
Lightning (IMI corn)	Imazethapyr, Imazapyr	corn < 8 leaf	weeds < 3" ^{G&B}
Lumax/Lexar [#]	S-metolachlor, Atrazine, Mesotrione	0-5"	0-3" ^B
Marksman	Atrazine, Dicamba	0-8"	0-4" ^B

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Me-Too-Lachlor II	Metolachlor	0-40"	2-leaf ^B
Outlook	Dimethenamid	0-12"	unemerged
Pendimax/Prowl	Pendimethalin	0-24"	1" ^G
Prowl H2O	Pendimethalin	0-30"	1" ^G
Prowl + Atrazine	Pendimethalin, Atrazine	up to 2-leaf	up to 2-leaf
Stalwart C	Metolachlor	0-40"	2-leaf ^G
Stalwart Xtra	Metolachlor, Atrazine	0-5"	2-leaf ^{G&B}
SureStart	Acetochlor, Flumetsulam, Clopyralid	0-11"	1-2" ^{G&B}
Surpass/Breakfree	Acetochlor	0-11"	unemerged
Topnotch	Acetochlor	0-11"	unemerged
Trizmet II	Atrazine, Metolachlor	0-5"	2-leaf ^{G&B}

Severe injury may occur if Callisto is applied postemergence to corn crops that have been treated with Counter or Lorsban. Do not tank mix with any organophosphate or carbamate insecticide. Do not cultivate within seven days of application.

Do not tank mix this product with any other herbicide when applied postemergence.

Do not mix this product with complex fertilizer mixtures such as 10-34-0 or flowables. Use only water or liquid nitrogen carrier.

* Apply this product to Roundup Ready corn only.

^G Grass

^B Broadleaf

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