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Options for weed control in large corn

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Options for weed control in large corn

Abstract

The ongoing wet weather prevented many cornfields from being treated with planned postmergence treatments. The growth of corn during this period has eliminated many of the herbicide options that were planned for these fields. Table 1 shows products cleared for use on corn larger than 12 inches in height. Keep in mind that just because a product is labeled for use in large corn does not mean it will control large weeds that may be present in these fields. Also, the risk of crop injury increases with corn size for many products, especially when the corn is under stress.

Keywords

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INTEGRATED CROP MANAGEMENT

Options for weed control in large corn

The ongoing wet weather prevented many cornfields from being treated with planned postmergence treatments. The growth of corn during this period has eliminated many of the herbicide options that were planned for these fields. Table 1 shows products cleared for use on corn larger than 12 inches in height. Keep in mind that just because a product is labeled for use in large corn does not mean it will control large weeds that may be present in these fields. Also, the risk of crop injury increases with corn size for many products, especially when the corn is under stress. Before deciding to treat large corn, consider the impact of the weeds on the crop if they are left untreated, the likelihood of achieving good weed control, and the potential for crop injury. Equipping the sprayer with drop nozzles reduces the potential for crop injury and provides better weed control.

Table 1. **Herbicides cleared for use on corn larger than 12 inches in height.**

Product size^a	Maximum corn	Comments
Accent	36 inches	Use drop nozzles on corn 20 to 36 inches in height or 10 collars
Aim	8 leaf collars	Good on large velvetleaf.
Banvel	36 inches	Use directed application when 1) corn leaves prevent proper spray coverage, 2) sensitive crops are grown nearby, or 3) tank mixing with 2,4-D. Should not be applied to corn greater than 24 inches if soybean is grown in the area.
Basagran	none	Basagran is a contact herbicide that generally does not control large weeds.
Buctril	tasseling	Buctril is a contact herbicide that generally does not control large weeds.
Callisto	30 inches or 8 leaves	Labeled for weeds 5 inches or less in height.
Celebrity Plus	24 inches	Combination of Accent and Distinct.
Clarity	36 inches	Use directed application when canopy prevents spray coverage.

Distinct	24 inches	Use 4-ounce rate. Contains dicamba.
Hornet	36 inches	Drop nozzles must be used on corn 20 to 36 inches in height or with more than six collars.
Liberty	36 inches	Requires Liberty-Link corn. Use drop nozzles on corn 24 to 36 inches in height.
Lightning	45 days before harvest	Requires IMI-corn. Drop nozzles must be used on corn taller than 20 inches.
Permit	layby	Refer to label for maximum weed heights controlled.
Resource	10 leaf	Good on large velvetleaf. Use drop nozzles when corn leaves interfere with spray penetration.
Roundup Ultra	eight leaves or 30 inches	Requires Roundup-Ready corn.
Sencor	depends on tank mix partner	Sencor can be tank mixed with the following products at rates of 1.6 to 3.0 ounces: with Basagran: 30-inch corn with Banvel: Use drop nozzles on corn 8-36 inches in height with Buctril: Apply before corn canopy closes over row with Resource: Up to 10-leaf corn with Tough: Up to 30-inch corn.
Tough	68 days before harvest	Tough is a contact herbicide that generally does not control large weeds.
2,4-D amine	tasseling	Use drop nozzles on corn greater than 8 inches. Product labels may vary.
2,4-D ester	tasseling	Use drop nozzles on corn greater than 8 inches. Product labels may vary.

^aThere is no standardized system of specifying crop stage within the herbicide industry, thus resulting in a variety of descriptions for label restrictions.

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