

Table 2.2-10. Maximum corn size, weed sizes, and recommended adjuvants for delayed preemergence/early postemergence herbicide applications.

See specific herbicide label(s) for additional information on application. This type of application generally is used when weather conditions preclude the use of a standard preemergence program. For most products, do not apply in liquid fertilizer if corn has emerged. Poor control from residual herbicides may result if annual grasses such as foxtail and panicum have emerged at the time of application; tank-mix with product that controls emerged grasses. Delayed preemergence/early postemergence programs can work well with herbicide-resistant corn hybrids now available (e.g., Roundup Ready and LibertyLink). When tank-mixing with other pesticides, follow the most restrictive product label.

### Maximum Corn and Weed Sizes

<i>Trade Name</i>	<i>Maximum Corn Size</i>	<i>Maximum Weed Size</i>
Acuron	12 inches	3-inch broadleaves; inconsistent on emerged grasses
Acuron Flexi	30 inches	3-inch broadleaves
Anthem Maxx, Anthem ATZ	4 collars (V4)	2-inch broadleaves, before grass emergence
Atrazine	12 inches	1.5 inches
Axiom	before emergence	before emergence
Balance Flexx	2-leaf (V2)	1 true leaf stage
Bicep II Magnum	4-leaf or 2 collars	1- to 2-leaf
Corvus	2-leaf (V2)	<2 inches (in general)
Dual	5 inches	2-leaf
Dual II Magnum, Bicep II Magnum, Bicep Lite II Magnum, Cinch ATZ Lite	5 inches	2-leaf
Fierce	before emergence	2-inch broadleaves; by tank-mix partner for grasses
Guardman Max/G-Max Lite	12 inches	1.5 inches broadleaves; before grass emergence
Halex GT	30 inches	4 inches
Harness, Harness MAX, Harness Xtra <sup>1</sup> , or Degree Xtra	11 inches or by tank-mix partner	before broadleaf emergence, 2-leaf grasses or by tank-mix partner
Instigate	2-leaf (V2)	3 inches
Lexar EZ	12 inches	3-inch broadleaves; before grass emergence
Lumax EZ	12 inches	3-inch broadleaves; inconsistent on emerged grasses
Outlook	12 inches	before emergence or by tank-mix partner
Prequel	before emergence	before emergence
Princep	before emergence	before emergence
Prowl H2O	30 inches	before weed emergence
Python WDG/Accolade	20 inches (V6)	before weed emergence
Resicore	11 inches	3-inch broadleaves
Resolve	12 inches	2-inch grasses; 3-inch broadleaves (in general)

SureStart II/TripleFLEX II	11 inches	limited activity on 1-inch broadleaves; before grass emergence
Surpass NXT, FulTime NXT, TopNotch, or Keystone NXT, Breakfree NXT ATZ2	11 inches or by tank-mix partner	before emergence or by tank-mix partner
Verdict	before emergence	before emergence
Zemax	30 inches (8-leaf)	3-inch broadleaves; before grass emergence
Zidua	early postemergence	before emergence or by tank-mix partner

1. May be tank-mixed with Accent, atrazine (Harness), Banvel or Clarity, Marksman, Permit, or Roundup (Roundup Ready corn).
2. May be tank-mixed with a number of different products, including Accent Q, Banvel or Clarity, Prowl, etc. See an herbicide label for specific information.

### Recommended Adjuvants When Preemergence Herbicides Are Used Early Postemergence

<i>Trade Name</i>	<i>Recommended If Corn Has Emerged and Weeds Are Present</i>	<i>Optional</i>
Acuron <sup>1,2</sup>	NIS (0.25% v/v) or	AMS 8.5 lb/100 gal
	COC <sup>3</sup> (1% v/v)	
Acuron Flexi	NIS (0.25% v/v) or	
	COC <sup>3</sup> (1% v/v)	
Anthem ATZ/Anthem Flex/Anthem Maxx	NIS (0.25% v/v) or	
	COC (1–2 pt/A) or	
	MSO (1–2 pt/A)	
Atrazine	label only mentions COC	
Balance Flexx	label states “Do not use COC or MSO or fully loaded glyphosate formulation”	
Bicep II Magnum	label mentions only NIS when tank-mixed with specific herbicides	
Corvus	label states: “Do not use COC or MSO”	
FulTime NXT, TopNotch <sup>1</sup> , or Keystone NXT <sup>1</sup>	not addressed on label	
Guardsmen Max/G-Max Lite	NIS (1–2 pt) or	UAN (1–2 gal/100 gal)
	COC <sup>4</sup> (1 qt/A)	AMS (8–17 lb/100 ga)
Halex GT	NIS (1–2 qt/100 gal)	AMS (8.75–17 lb/100 gal) (required)
Harness MAX <sup>1,5</sup>	NIS (1 qt/100 gal) or	UAN (rate not specified)
	COC (1 gal/100 gal)	AMS (rate not specified)
Harness Xtra or Degree Xtra	not addressed on label	
Instigate	NIS or COC	UAN or AMS (required)
	rates not specified	rates not specified

Lexar EZ <sup>1,2</sup>	NIS (0.25% v/v) or	UAN (2.5% v/v) or
	COC (1% v/v)	AMS (8.5 lb/100 gal)
Lumax EZ <sup>1,2</sup>	NIS (0.25% v/v) or	UAN (2.5% v/v) or
	COC (1% v/v)	AMS (8.5 lb/100 gal)
Python WDG/Accolade	NIS (1 qt/100 gal) or	UAN (2.5 gal/100 gal)
	COC (1 gal/100 gal)	AMS (2–4 lb/A)
Resicore	NIS (1 qt/100 gal) or	AMS only allowed with glyphosate or glufosinate herbicides
	COC <sup>3</sup> (1 gal/100 gal)	
Zemax <sup>1,2</sup>	NIS (1 qt/100 gal) or	UAN (rate not specified)
	COC <sup>3</sup> (1gal/100 gal)	AMS (rate not specified)

1. Do not use either NIS or COC if tank-mixed with Liberty (AMS is allowed).
2. Do not use either NIS or COC if tank-mixed with a fully-loaded glyphosate (AMS is allowed); if glyphosate label recommends an adjuvant, add NIS and AMS.
3. Label cautions about crop injury.
4. Use COC only with Guardsman Max alone or tank-mixed with atrazine.
5. Do not use either NIS or COC if tank-mixed with glyphosate (AMS is allowed).

**Spray Additives When Tank-mixed with Liberty (LibertyLink corn [LL]) or Glyphosate (Roundup Ready corn [RR])**

<i>Trade Name</i>	<i>Specific Adjuvant Comments</i>
2,4-D	n/a**
Accent Q	n/a
Aim/Cadet	n/a
Atrazine	n/a
Basagran	n/a
Basis Blend	n/a
Callisto/Callisto Xtra	LL: Do not use COC RR: Add AMS; if glyphosate calls for an adjuvant, add NIS (do not use UAN, COC or MSO)
Capreno	LL: Do not use MSO or COC; only add AMS at 8.5 lb/100 gal RR: Use of glyphosate compatible high surfactant oil concentrate (HSOC) is recommended with fully loaded glyphosate and required with partially loaded glyphosate; AMS is required; do not use COC or MSO
Curtail	n/a
DiFlexx/DiFlexx Duo	LL: Do not use MSO or COC; only add AMS at 8.5 lb/100 gal RR: Label allows for additional adjuvant if resistant weeds are present
Halex GT	LL: Not allowed
Harmony SG	LL: n/a RR: Add AMS; if glyphosate calls for an adjuvant, add NIS (1–2 pt/100 gal) (do not use UAN, COC, or MSO)
Impact/Armezon	n/a

Laudis	LL: Do not use MSO or COC; only add AMS at 8.5 lb/100 gal RR: Label recommends additional adjuvant if fully loaded glyphosate is used; label requires additional adjuvant if partially loaded glyphosate is used
Maestro/Moxy	n/a
Marksman	n/a
NorthStar	n/a
Permit Plus	n/a
Permit/Sandea	n/a
Realm Q	LL: n/a RR: When tank-mixed with glyphosate, ensure total adjuvant load is equivalent to the label recommendation
Resolve Q	When tank-mixed with glyphosate or glufosinate, ensure total adjuvant load is equivalent to the label recommendation
Resource	n/a
Revulin Q	LL: n/a RR: When tank-mixed with glyphosate, ensure total adjuvant load is equivalent to the label recommendation
Status	n/a
Steadfast Q	n/a
Stinger	n/a
Stout	n/a
Yukon	n/a

\*See also Table 2.2-16.

\*\*n/a = adjuvants for LibertyLink or glyphosate not addressed.