

**TABLE 1A – Weed Response to Soil-Applied Herbicides in Corn\***

Soil Applied	SITE OF ACTION	CORN TOLERANCE**	ANNUAL BROADLEAVES											ANNUAL GRASSES							PERENNIALS						
			COCKLEBUR	JIMSONWEED	LAMBSQUARTERS	NIGHTSHADE (E. BLACK)	PALMER AMARANTH <sup>a</sup>	PIGWEEED	RAGWEED (COMMON)	RAGWEED (GIANT)	SMARTWEED	VELVETLEAF	WATERHEMP <sup>a</sup>	WILD MUSTARD	BARNYARDGRASS	CRABGRASS	GIANT FOXTAIL	GREEN FOXTAIL	YELLOW FOXTAIL	FALL PANICUM	WITCHGRASS	SANDBUR	CANADA THISTLE	QUACKGRASS	YELLOW NUTSEDGE	JOHNSONGRASS (seedling)	JOHNSONGRASS (Rhizome)
ATRAZINE	5	1	F	F	E	E	G	G	E	G	G	F	G	E	G	P	F	F	G	P	P	P	F	P	F	N	N
BALANCE FLEXX	27	2	P	E	E	E	F/G	E	E	F	G	E	G	E	G	F	G	G	F	P	P	F	P	P	P	G	F
BREAKFREE NXT/HARNESS/ SURPASS NXT	15	2	P	N	F	G	G	G	F	N	P	P	G	P	E	E	E	E	E	E	E	F	N	N	F	P	N
CALLISTO	27	1	P	G	E	E	G	E	F	F	E	E	G	G	N	P	N	N	N	N	N	N	P	N	N	N	N
DUAL II MAGNUM/ CINCH/PARALLEL	15	1	N	N	P	F	F/G	G	P	N	P	N	G	P	E	E	E	E	E	E	E	F	N	N	F	P	N
OUTLOOK	15	2	N	N	P	G	F	G	P	N	P	N	F	P	E	E	E	E	E	E	E	F	N	N	P	P	N
PRINCEP	5	1	F	F	E	E	F	G	E	F	G	F	F	E	G	F	F	F	G	P	P	P	P	F	F	N	N
PROWL H <sub>2</sub> O <sup>b</sup> (PRE only)	3	3	N	N	G	P	P	F	P	N	P	F	P	P	G	G	G	G	G	G	G	G	N	N	N	P	N
PYTHON/ACCOLADE	2	3	F	F	E	G	N	E	F	P	G	G	N	E	P	P	P	P	P	P	P	P	N	N	N	N	N
RESOLVE SG	2	1	G	F	F	P	N	E	F	P	F	F	N	E	G	F	G	G	G	F	F	P	P	P	P	P	P
SHARPEN	14	2	G	G	G	G	P	E	G	F	G	G	G	G	N	N	N	N	N	N	N	N	P	N	N	N	N
VALOR <sup>c</sup> /ROWEL (7d EPP or more)	14	2	P	F	G	G	F/G	G	G	F	F	F	F/G	G	P	P	P	P	P	P	P	P	N	N	P	P	N
ZIDUA	15	2	P	F	F	G	G	E	F	N	F	F	E	F	E	E	E	E	E	E	E	F	N	N	F	F	N
<b>Premixes</b>																											
ACURON	5/15/27/27	1	G	G	E	E	E	E	E	G	E	E	E	E	E	E	E	E	E	E	E	F	F	P	F	F	N
ACURON FLEXI	15/27/27	1	G	G	E	E	G	E	E	G	E	E	G	G	E	E	E	E	E	E	E	F	F	N	F	P	N
ANTHEM MAXX	15/14	2	P	F	F	G	G	E	F	N	F	F	G	F	E	E	E	E	E	E	E	F	N	N	F	F	N
ANTHEM ATZ	15/14/5	1	P	F	G	E	G	E	G	F	F	F	G	E	E	E	E	E	E	E	E	F	N	N	F	F	N
ARMEZON PRO	15/27	2	N	N	P	G	F	G	P	N	P	N	F	P	E	E	E	E	E	E	E	F	N	N	P	P	N
BASIS BLEND	2/2	1	G	F	G	P	N	E	F	P	F	F	N	E	G	F	G	G	G	F	F	P	P	P	P	P	P
BICEP II LITE MAGNUM/ CINCH ATZ LITE	5/15	1	F	F	G	E	F/G	G	G	F	F	F	G	E	E	E	E	E	E	E	E	F	P	N	F	P	N
BICEP II MAGNUM/CINCH ATZ/ PARALLEL PLUS	5/15	1	F	F	E	E	G	G	E	G	G	F	G	E	E	E	E	E	E	E	E	F	F	P	F	P	N
BREAKFREE NXT LITE/DEGREE XTRA/ FULTIME NXT/ KEYSTONE LA NXT	5/15	2	F	F	G	E	G	G	G	F	F	F	G	E	E	E	E	E	E	E	E	F	P	N	F	P	N
BREAKFREE NXT ATZ/HARNESS XTRA/ KEYSTONE NXT	5/15	2	F	F	E	E	G	G	E	G	G	F	G	E	E	E	E	E	E	E	E	F	F	P	F	P	N
CORVUS	2/27	2	G	E	E	E	F/G	E	E	G	E	E	G	E	G	E	E	E	E	E	E	G	P	F	P	G	F
FIERCE <sup>c</sup> (7d EPP or more)	14/15	2	P	F	G	G	G	E	G	F	F	F	G	G	G	G	G	G	G	G	G	F	N	N	F	F	N
HARNESS MAX	15/27	1	P	G	E	E	G	E	F	F	E	E	G	G	E	E	E	E	E	E	E	F	P	N	F	P	N
HORNET WDG/STANZA	2/4	3	G	F	E	G	N	E	E	G	G	G	N	E	N	N	N	N	N	N	N	N	F	N	N	N	N
INSTIGATE	2/27	2	G	G	E	E	F	E	F	F	E	E	F	E	G	F	G	G	G	F	F	P	P	P	P	P	P
LEXAR EZ/LUMAX EZ	5/27/15	1	F	G	E	E	G/E	E	E	G	E	E	E	E	E	E	E	E	E	E	E	F	F	P	F	P	N
PREQUEL <sup>d</sup>	2/27	2	-	G	E	G	P	G	G	F	G	E	F	G	G	F	G	G	G	F	F	P	P	P	P	G	F

(continued)

**TABLE 1A – Weed Response to Soil-Applied Herbicides in Corn\* (continued)**

Soil Applied	SITE OF ACTION	CORN TOLERANCE**	ANNUAL BROADLEAVES													ANNUAL GRASSES							PERENNIALS				
			COCKLEBUR	JIMSONWEED	LAMBSQUARTERS	NIGHTSHADE (E. BLACK)	PALMER AMARANTH <sup>a</sup>	PIGWEEED	RAGWEED (COMMON)	RAGWEED (GIANT)	SMARTWEED	VELVETLEAF	WATERHEMP <sup>a</sup>	WILD MUSTARD	BARNYARDGRASS	CRABGRASS	GIANT FOXTAIL	GREEN FOXTAIL	YELLOW FOXTAIL	FALL PANICUM	WITCHGRASS	SANDBUR	CANADA THISTLE	QUACKGRASS	YELLOW NUTSEDGE	JOHNSONGRASS (seedling)	JOHNSONGRASS (Rhizome)
RESICORE	4/15/27	2	F	G	E	E	G/E	E	G	F	E	E	G/E	E	E	E	E	E	E	E	F	P	N	F	P	N	
SURESTART II/TRIPLEFLEX II <sup>d</sup>	2/4/15	3	G	F	E	G	F	E	G	F	G	G	F	E	E	E	E	E	E	E	F	P	N	F	P	N	
VERDICT <sup>d</sup>	14/15	2	G	G	G	G	F	E	G	F	G	G	G	G	G	G	G	G	G	G	F	P	N	P	P	N	
ZEMAX	27/15	1	P	G	E	E	G	E	F	F	E	E	G	G	E	E	E	E	E	E	F	P	N	F	P	N	

Herbicide Site of Action: The site of action key is located on pages 15-16.

Herbicide Effectiveness: P = Poor; F = Fair; **G** = Good; **E** = Excellent; N = None; – = Not enough information to rank

\* The above ratings are a relative comparison of herbicide effectiveness. Weather conditions greatly influence the herbicide's effectiveness, and weed control may be better under favorable conditions or poorer under unfavorable conditions.

\*\* Crop Tolerance: 1=Minimal risk of crop injury; 2=Crop injury can occur under certain conditions; 3=Severe crop injury can occur. Follow precautions under Remarks and Limitations and on the label; 4=Risk of severe crop injury is high.

<sup>a</sup> Almost all populations of Palmer amaranth and waterhemp found in Michigan are resistant to the ALS-inhibiting herbicides (Group 2). Refer to the factsheet on “Keys to Managing Multiple-Resistant Palmer amaranth” on pages 209-212.

<sup>b</sup> DO NOT incorporate Prowl H<sub>2</sub>O and corn should be planted a minimum of 1.5-inches deep.

<sup>c</sup> Valor/Rowel or Fierce must be applied at least 7 day before planting, for use only in no-till corn.

<sup>d</sup> These herbicides are intended for use only in planned preemergence followed by postemergence programs. Ratings only reflect early-season weed control, not full-season control.

# TABLE 1B – Weed Response to Postemergence Herbicides in Corn\*

<i>Postemergence</i>	SITE OF ACTION	CORN TOLERANCE**	ANNUAL BROADLEAVES											ANNUAL GRASSES							PERENNIALS							
			COCKLEBUR	JIMSONWEED	LAMBSQUARTERS	NIGHTSHADE (E. BLACK)	PALMER AMARANTH <sup>a</sup>	PIGWEEED	RAGWEED (COMMON)	RAGWEED (GIANT)	SMARTWEED	VELVETLEAF	WATERHEMP <sup>a</sup>	WILD MUSTARD	BARNYARDGRASS	CRABGRASS	GIANT FOXTAIL	GREEN FOXTAIL	YELLOW FOXTAIL	FALL PANICUM	WITCHGRASS	SANDBUR	CANADA THISTLE	QUACKGRASS	YELLOW NUTSEDGE	JOHNSONGRASS (seedling)	JOHNSONGRASS (Rhizome)	
2,4-D	4	3	G	F	G	G	F/G	G	G	G	P	F	F/G	G	N	N	N	N	N	N	N	N	F	N	N	N	N	
ACCENT Q	2	2	F	G	F	P	N <sup>a</sup>	E	P	N	G	F	N <sup>a</sup>	P	E	P	E	E	E	E	E	E	G	F	G	F	E	G
AIM	14	3	P	F	F	G	P	G	P	P	P	E	P	F	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ARMEZON/IMPACT	27	1	G	E	E	E	G	E	E	G	G	E	G	G	G	G	E	G	G	G	G	F	F	P	P	F	P	
ATRAZINE	5	1	G	G	E	G	G	E	E	G	G	F	G	E	F	P	F	F	P	P	P	F	F	F	F	N	N	
BANVEL/CLARITY	4	3	G	G	G	G	G	G	E	E	F	G	G	N	N	N	N	N	N	N	N	F	N	N	N	N	N	
BASAGRAN/BROADLOOM	6	1	E	G	F	P	N	P	F	P	G	F	N	E	N	N	N	N	N	N	N	G	N	G	N	N	N	
BEACON	2	2	E	G	F	G	N <sup>a</sup>	E	E	E	G	G	N <sup>a</sup>	F	P	P	F	F	F	G	G	F	F	G	F	G	F	
BUCTRIL/MOXY	6	2	G	G	E	G	N	F	G	G	G	G	N	F	N	N	N	N	N	N	N	P	N	N	N	N	N	
CADET	14	2	P	G	F	F	P	G	P	P	P	E	P	P	N	N	N	N	N	N	N	N	N	N	N	N	N	
CALLISTO	27	1	F	E	E	E	F	G	G	G	E	E	G	E	N	F <sup>b</sup>	N	N	N	N	N	N	P	N	P	N	N	
DIFLEXX	4	2	G	G	G	G	G	G	G	E	E	F	G	G	N	N	N	N	N	N	N	F	N	N	N	N	N	
LAUDIS	27	1	G	E	E	E	G	E	G	G	G	E	G	F	G	F	G	G	E	N	P	F	P	P	P	F	P	
PERMIT	2	1	E	G	N	P	N <sup>a</sup>	E	G	G	F	G	N <sup>a</sup>	E	N	N	N	N	N	N	N	P	N	E	N	N	N	
RESOURCE	14	2	P	P	F	P	P	P	P	P	P	E	P	P	N	N	N	N	N	N	N	N	N	N	N	N	N	
STINGER	4	1	E	G	P	F	P	P	E	E	F	P	P	P	N	N	N	N	N	N	N	E	N	N	N	N	N	
<b>Premixes</b>																												
ANTHEM MAXX	14/15	2	P	G	F	F	P	G	P	P	P	E	P	P	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ANTHEM ATZ	15/14/5	2	G	G	E	G	G	E	E	G	G	E	G	E	F	P	F	F	F	P	P	P	F	F	F	N	N	N
ARMEZON PRO	15/27	1	G	E	E	E	G	E	E	G	G	E	G	G	G	G	E	E	G	G	G	F	F	P	P	F	P	
CALLISTO XTRA	5/27	1	G	E	E	E	G	E	E	G	G	E	G	G	N	F <sup>b</sup>	N	N	N	N	N	N	F	N	P	N	N	
CAPRENO	2/27	2	G	E	G	E	F	E	G	G	G	E	F	G	G	G	G	E	G	G	F	P	F	P	E	G	G	
DIFLEXX DUO	4/27	2	G	E	E	E	G	E	E	E	E	E	E	G	F	P	F	F	G	N	N	P	F	P	P	P	P	
HORNET WDG/STANZA	2/4	2	E	F	F	F	N <sup>a</sup>	P	E	E	G	G	N <sup>a</sup>	G	N	N	N	N	N	N	N	E	N	N	N	N	N	N
REALM Q	2/27	2	G	E	E	E	P	E	G	F	E	E	F	E	G	F	G	G	G	G	P	F	F	P	F	N	N	
RESOLVE Q	2/2	2	G	P	G	F	N <sup>a</sup>	E	F	P	G	F	N <sup>a</sup>	E	G	F	G	G	G	G	P	F	F	P	F	N	N	
REVULIN Q	2/27	2	F	E	E	E	P	E	G	F	E	E	F	E	E	F <sup>b</sup>	E	E	E	E	E	G	F	G	F	E	G	
SOLSTICE	14/27	2	F	E	E	E	F	E	G	G	E	E	F	E	N	F <sup>b</sup>	N	N	N	N	N	P	N	P	N	N	N	
STATUS	4/19	2	E	G	E	G	G	E	E	E	E	E	G	G	P	P	P	P	P	P	P	G	N	N	N	N	N	
STEADFAST Q	2/2	2	F	G	F	P	N <sup>a</sup>	E	P	N	G	F	N <sup>a</sup>	G	E	F	E	E	E	E	E	G	F	G	F	E	G	
YUKON	2/4	2	E	G	G	G	N <sup>a</sup>	E	G	G	G	G	N <sup>a</sup>	E	N	N	N	N	N	N	N	P	N	E	N	N	N	
<b>Glyphosate-Resistant Corn</b>																												
GLYPHOSATE	9	1	E	E	G	G	N <sup>a</sup>	E	G	G	G	G	N <sup>a</sup>	E	E	E	E	E	E	E	E	E	G	E	F	E	E	
CALLISTO GT	9/27	1	E	E	E	E	F	E	G	G	E	E	G	E	E	E	E	E	E	E	E	E	G	E	F	E	E	
EXPERT	5/9/15	2	E	E	E	G	G	E	E	G	G	G	G	E	E	E	E	E	E	E	E	E	G	E	F	E	E	
HALEX GT	9/15/27	1	E	E	E	E	F	E	G	G	E	E	G	E	E	E	E	E	E	E	E	E	G	E	F	E	E	
SEQUENCE	9/15	1	E	E	G	G	N <sup>a</sup>	E	G	G	G	G	N <sup>a</sup>	E	E	E	E	E	E	E	E	E	G	E	F	E	E	
WARRANT + GLYPHOSATE	9/15	1	E	E	G	G	N <sup>a</sup>	E	G	G	G	G	N <sup>a</sup>	E	E	E	E	E	E	E	E	E	G	E	F	E	E	
<b>LibertyLink Corn</b>																												
LIBERTY	10	1	E	G	F	G	G	G	E	G	G	G	G	E	F	F	G	G	F	F	F	P	P	P	P	G	F	

(continued)

**TABLE 1B – Weed Response to Postemergence Herbicides in Corn\* (continued)**

Soil Applied	SITE OF ACTION	CORN TOLERANCE**	ANNUAL BROADLEAVES											ANNUAL GRASSES							PERENNIALS							
			COCKLEBUR	JIMSONWEED	LAMBSQUARTERS	NIGHTSHADE (E. BLACK)	PALMER AMARANTH <sup>a</sup>	PIGWEEED	RAGWEED (COMMON)	RAGWEED (GIANT)	SMARTWEED	VELVETLEAF	WATERHEMP <sup>a</sup>	WILD MUSTARD	BARNYARDGRASS	CRABGRASS	GIANT FOXTAIL	GREEN FOXTAIL	YELLOW FOXTAIL	FALL PANICUM	WITCHGRASS	SANDBUR	CANADA THISTLE	QUACKGRASS	YELLOW NUTSEDEGE	JOHNSONGRASS (seedling)	JOHNSONGRASS (Rhizome)	
<b>Enlist (2,4-D resistant) Corn</b>																												
Enlist One	4	1	<b>G</b>	F	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	P	F	<b>G</b>	<b>G</b>	N	N	N	N	N	N	N	N	N	F	N	N	N	N
Enlist Duo	4/9	1	<b>E</b>	<b>E</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>E</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>G</b>	<b>E</b>	F	<b>E</b>	<b>E</b>

Herbicide Site of Action: The site of action key is located on pages 15-16.

Herbicide Effectiveness: P = Poor; F = Fair; **G** = Good; **E** = Excellent; N = None; – = Not enough information to rank

\* The above ratings are a relative comparison of herbicide effectiveness. Weather conditions greatly influence the herbicide’s effectiveness, and weed control may be better under favorable conditions or poorer under unfavorable conditions.

\*\* Crop Tolerance: 1=Minimal risk of crop injury; 2=Crop injury can occur under certain conditions; 3=Severe crop injury can occur. Follow precautions under Remarks and Limitations and on the label; 4=Risk of severe crop injury is high.

<sup>a</sup> Almost all populations of Palmer amaranth and waterhemp found in Michigan are resistant to the ALS-inhibiting herbicides (Group 2) and glyphosate (Group 9). Refer to the factsheet on “Keys to Managing Multiple-Resistant Palmer amaranth” on pages 209-212.

<sup>b</sup> Large crabgrass only.

## TABLE 1C – Herbicide Premixes in Corn

### Soil Applied

TRADE NAME	COMPANY	FORMULATION	TYPICAL USE RATE <sup>a</sup>	= EQUIVALENT RATES
Acuron	Syngenta	3.44ZC	3 qt/A	= 1.68 pt Dual II Magnum + 0.75 qt Atrazine + 5.76 oz Callisto + 0.045 lb ai bicyclopyrone
Acuron Flexi	Syngenta	3.26ZC	2.25 qt/A	= 1.68 pt Dual II Magnum + 5.76 oz Callisto + 0.045 lb ai bicyclopyrone
Anthem MAXX	FMC	4.3SE	5 oz/A	= 0.75 oz Cadet + 3 oz Zidua
Anthem ATZ	FMC	4.5SC	2.5 pt/A	= 1.25 qt atrazine 4L + 0.625 oz Cadet + 2.85 oz Zidua
Armezon PRO	BASF	5.35EC	20 oz/A	= 0.71 oz Armezon + 17.5 oz Outlook
Basis Blend	DuPont	30WG	1.25 oz/A	= 1 oz Resolve SG + 0.25 oz Harmony SG
Bicep II Magnum	Syngenta	5.5F	2.1 qt/A	= 1.33 pt Dual II Magnum + 1.6 qt atrazine 4L
Bicep Lite II Magnum	Syngenta	6F	1.5 qt/A	= 1.33 pt Dual II Magnum + 1 qt atrazine 4L
Breakfree NXT ATZ	DuPont	5.6L	2.4 qt/A	= 2.2 pt Breakfree NXT + 1.5 qt atrazine 4L
Breakfree NXT Lite	DuPont	6L	2 qt/A	= 2.5 pt Breakfree NXT + 0.85 qt atrazine 4L
Cinch ATZ	DuPont	5.5F	2.1 qt/A	= 1.33 pt Cinch + 1.6 qt atrazine 4L
Cinch ATZ Lite	DuPont	6F	1.5 qt/A	= 1.33 pt Cinch + 1 qt atrazine 4L
Corvus	Bayer CropScience	2.63SC	5.6 oz/A	= 5.26 oz Balance Flexx + 0.033 lb ai thien carbazone
Degree Xtra	Monsanto	4L	3 qt/A	= 2.3 pt Harness + 1 qt atrazine 4L
Fierce <sup>b</sup>	Valent	76WG	3 oz/A	= 1.97 oz Valor + 1.5 oz Zidua
FulTime NXT	Dow AgroSciences	4L	3 qt/A	= 2.3 pt Surpass + 1 qt atrazine 4L
Harness MAX	Monsanto	3.82L	75 fl oz/A	= 2.35 pt Harness + 6.18 oz Callisto
Harness Xtra 5.6L	Monsanto	5.6L	2.4 qt/A	= 2.2 pt Harness + 1.5 qt atrazine 4L
Hornet WDG/Stanza	Dow AgroSciences/FMC	68.5WG	3 oz/A	= 0.7 oz Python + 0.25 pt Stinger
Instigate	DuPont	45.8WG	6 oz/A	= 5 oz Callisto + 1 oz Resolve SG
Keystone NXT	Dow AgroSciences	5.6L	2.4 qt/A	= 2.2 pt Surpass NXT + 1.5 qt atrazine 4L
Keystone LA NXT	Dow AgroSciences	6L	2 qt/A	= 2.5 pt Suprass NXT + 0.85 qt atrazine 4L

See footnotes at the end of the chart.

(Continued on next page)

## TABLE 1C – Herbicide Premixes in Corn (continued)

### Soil Applied (continued)

TRADE NAME	COMPANY	FORMULATION	TYPICAL USE RATE <sup>a</sup>	= EQUIVALENT RATES
Lexar EZ	Syngenta	3.7ZC	3 qt/A	5.34 oz Callisto + 1.36 pt Dual II Magnum + 1.3 qt atrazine 4L
Lumax EZ	Syngenta	3.67ZC	2.7 qt/A	= 5.38 oz Callisto + 1.76 pt Dual II Magnum + 0.63 qt atrazine 4L
Parallel Plus	MANA	5.5SL	2.3 qt/A	= 1.6 pt Parallel + 1.6 qt atrazine 4L
Prequel <sup>b</sup>	DuPont	45WG	1.66 oz/A	= 1 oz Balance PRO + 1 oz Resolve SG
Resicore	Dow AgroSciences	3.29SE	2.75 qt/A	= 2.2 pt Surpass NXT + 6.6 oz Callisto + 5.6 oz Stinger
SureStart II <sup>b</sup>	Dow AgroSciences	4.16SE	2 pt/A	= 1.07 pt Surpass NXT + 3 oz Stinger + 0.6 oz Python
TripleFLEX II <sup>b</sup>	Monsanto	4.16SE	2 pt/A	= 1.07 pt Harness + 3 oz Stinger + 0.6 oz Python
Verdict <sup>b</sup>	BASF	5.57EC	15 oz/A	= 3 oz Sharpen + 12.5 oz Outlook
Zemax	Syngenta	3.67ZC	2 qt/A	= 5.36 oz Callisto + 1.75 pt Dual II Magnum

### Postemergence

Anthem MAXX	FMC	4.3SE	4 oz/A	= 0.6 oz Cadet + 2.45 oz Zidua
Anthem ATZ	FMC	4.5SC	1 qt/A	= 2.28 oz Zidua + 0.5 oz Cadet + 1 qt atrazine 4L
Armezon PRO	BASF	5.35EC	20 oz/A	= 0.71 oz Armezon + 17.5 oz Outlook
Callisto GT <sup>c</sup>	Syngenta	4.18L	2 pt/A	= 3 oz Callisto + 0.95 lb a.e. glyphosate
Callisto Xtra	Syngenta	3.7SC	24 oz/A	= 3 oz Callisto + 1.2 pt atrazine 4L
Capreno	Bayer CropScience	3.45SC	3 oz/A	= 2.5 oz Laudis + 0.01 lb ai thiencazabone-methyl
DiFlexx DUO	Bayer CropScience	2.13SC	32 oz/A	= 2.46 oz Laudis + 10 oz DiFlexx
Enlist Duo <sup>d</sup>	Dow AgroSciences	3L	3.5 pt/A	= 0.7 lb a.e. 2,4-D + 0.74 lb a.e. glyphosate
Expert <sup>c</sup>	Syngenta	4.88SC	3 qt/A	= 1.37 pt Dual II Magnum + 1.6 qt atrazine 4L + 0.75 lb a.e. glyphosate
Halex GT <sup>c</sup>	Syngenta	4.38L	3.6 pt/A	= 1 pt Dual Magnum + 3 oz Callisto + 0.93 lb a.e. glyphosate

(Continued on next page)

See footnotes at the end of the chart.

## TABLE 1C – Herbicide Premixes in Corn (continued)

### Postemergence (continued)

TRADE NAME	COMPANY	FORMULATION	TYPICAL USE RATE <sup>a</sup>	= EQUIVALENT RATES
Hornet WDG/Stanza	Dow AgroSciences/FMC	68.5WG	3 oz/A	= 0.7 oz Python + 0.25 pt Stinger
Realm Q	DuPont	38.75WG	4 oz/A	= 1.2 oz Resolve + 2.5 oz Callisto
Resolve Q	DuPont	22.4WG	1.25 oz/A	= 0.9 oz Resolve + 0.1 oz Harmony SG
Revulin Q	DuPont	51.2WG	3.4 oz/A	= 0.9 oz Accent Q + 2.5 oz Callisto
Sequence <sup>c</sup>	Syngenta	5.25L	2.5 pt/A	= 0.98 pt Dual Magnum + 0.7 lb a.e. glyphosate
Solstice	FMC	4L	3 oz/A	= 0.71 oz Cadet + 2.8 oz Callisto
Status	BASF	56WG	5 oz/A	= 4 oz Clarity + 0.05 lb ai diflufenzopyr
Steadfast Q	DuPont	37.7WG	1.5 oz/A	= 0.7 oz Accent Q + 0.75 oz Resolve
Yukon	Gowan	67.5WG	4 oz/A	= 4 oz Banvel + 0.66 oz Permit

<sup>a</sup> Rates recommended are for medium textured soils with 3% organic matter.

<sup>b</sup> These herbicides are intended for use only in planned preemergence followed by postemergence programs. Ratings only reflect early-season weed control, not full-season control.

<sup>c</sup> Postemergence applications should only be made to glyphosate-resistant corn.

<sup>d</sup> Postemergence applications should only be made to Enlist (2,4-D resistant) corn.

## TABLE 1D – Corn Herbicides – Remarks and Limitations

Apply all agricultural chemicals in accordance with regulations and labels as to rate, timing and crops for which they may be used. Rates recommended in this bulletin are for medium-textured soils with 3% organic matter.

### Corn – Soil Applied – All Tillage Systems

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
Annual grasses	pyroxasulfone + fluthiacet ( <i>Anthem MAXX</i> )	0.168	5 oz 4.3SE	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• <i>Anthem MAXX</i> use rates are based on soil texture and organic matter. <i>Anthem MAXX</i> rates range from 2.5 to 6.5 oz/A (5 oz/A). Lower rates (4 oz/A) can be applied as part of a 2-pass program in glufosinate or glyphosate-resistant corn, unless resistant weeds are present.</li> <li>• <i>Anthem MAXX</i> should be used as part of a planned preemergence followed by postemergence herbicide program.</li> <li>• May be applied postemergence. Refer to the post-emergence application section for <i>Anthem MAXX</i> and Table 1I.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	topramezone + dimethenamid-P ( <i>Armezon PRO</i> )	0.835	20 oz 5.35L	<ul style="list-style-type: none"> <li>• <b>May be applied preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• <i>Atrazine</i> at 1 lb ai/A may be applied with <i>Armezon PRO</i> to increase the spectrum of weeds controlled.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	s-metolachlor ( <i>Dual II Magnum</i> , <i>Cinch</i> )	1.27	1.33 pt 7.64EC	<ul style="list-style-type: none"> <li>• <b>May be applied preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• <i>Dual II Magnum</i> and <i>Cinch</i> contain a safener which increases corn tolerance to s-metolachlor.</li> <li>• Increase the rate to 1.66 pt/A for effective nutsedge control.</li> <li>• Nutsedge control is improved when s-metolachlor is incorporated.</li> <li>• May be applied postemergence on corn up to 40 inches tall, but this application alone will not control emerged weeds. Refer to Table 1H.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>

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## Corn – Soil Applied – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual grasses	acetochlor ( <i>Harness, Breakfree NXT, Surpass NXT</i> )	1.97	2.25 pt 7EC	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• <i>Harness, Breakfree NXT, and Surpass NXT</i> use rates are based on soil texture and organic matter. Use rates of these products range from 1.25 to 3 pt/A (2.25 pt/A). Lower rates (1.8 pt/A) can be applied as part of a 2-pass program in glufosinate or glyphosate-resistant corn, unless resistant weeds are present.</li> <li>• DO NOT apply acetochlor within 50 feet of any well where the depth to groundwater 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.</li> <li>• All commercial acetochlor products contain a safener that increases corn tolerance.</li> <li>• Application rate varies by soil type.</li> <li>• EC formulations of acetochlor require less rainfall for incorporation compared with s-metolachlor or pendimethalin.</li> <li>• May be applied postemergence on corn up to 11 inches tall, but this application alone will not control emerged weeds. Refer to Table 1H.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	dimethenamid-P ( <i>Outlook</i> )	0.84	18 oz 6EC	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• Increase the rate to 21 oz/A for effective nutsedge control.</li> <li>• Nutsedge control is improved when incorporated.</li> <li>• <i>Outlook</i> rates vary with soil texture and organic matter from 12 to 21 oz/A..</li> <li>• May be applied postemergence on corn up to 12 inches tall, but this application alone will not control emerged weeds. Refer to Table 1H.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	metolachlor ( <i>Parallel, others</i> )	1.3	1.33 pt 7.8L	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• <i>Parallel</i> is a mix of the R and S-isomers of metolachlor. Limited research has shown that 1.33 pt/A of these products provide similar initial activity to s-metolachlor products at 1.33 pt/A. However, <i>Parallel</i> may not provide the consistency, length of control or performance on more difficult to control weeds. Rates would need to be increased to 2.0 pt/A to provide the same amount of s-metolachlor (the more active isomer) in the 1.33 pt/A rate of <i>Dual II Magnum/ Cinch</i> (s-metolachlor).</li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• <i>Parallel</i> contains a safener which increases corn tolerance to metolachlor.</li> <li>• May be applied postemergence on corn up to 40 inches tall, but this application alone will not control emerged weeds. Refer to Table 1H.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>

(Continued on next page)

## Corn – Soil Applied – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
Annual grasses	pendimethalin (Prowl)	1.5	3.6 pt 3.3EC	<ul style="list-style-type: none"> <li>• <b>DO NOT apply preplant incorporated.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• Extreme care must be taken to assure complete closure of the seed furrow. If the seed furrow remains open (even partially open), severe injury will occur.</li> <li>• Apply after planting.</li> <li>• Plant at least 1.5 inches deep.</li> <li>• Adjust rate according to soil type.</li> <li>• DO NOT use on sandy soil with less than 1.5% organic matter.</li> <li>• May be applied postemergence on corn up to 30 inches tall or 8 collars, but this application alone will not control emerged weeds. Refer to Table 1H.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	OR	OR	OR	
	(Prowl H <sub>2</sub> O)	1.4	3 pt 3.8AS	
	rimsulfuron (Resolve SG)	0.016	1 oz 25WG	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• DO NOT apply to seed corn.</li> <li>• DO NOT apply preemergence to coarse-textured soils (sand, loamy sand or sandy loam) with less than 1% organic matter.</li> <li>• Atrazine at 1 lb a.i./A tank mixed with <i>Resolve</i> will improve control of broadleaf weeds.</li> <li>• Insecticide interaction. Allow at least 60 days between a preemergence <i>Resolve</i> SG application and application of an organophosphate insecticide.</li> <li>• The rotation restriction intervals need to be extended to 18 months for alfalfa and sugar beets unless there is 15 inches of rainfall between application and planting or if 2 oz/A of <i>Resolve</i> is applied.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	pyroxasulfone (Zidua) OR (Zidua SC)	0.133	2.5 oz 85WG OR 4 oz 4.17SC	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• Application rate varies with soil texture and application timing from 1.5 to 4 oz/A.</li> <li>• DO NOT apply more than 2.75 oz/A on course; 3 oz/A on medium; or 4 oz/A on fine textured soils of <i>Zidua</i> WG; or more than 4.5 oz/A on course textured; 5 oz/A on medium textured soil; or 6.5 oz/A on fine textured soils of <i>Zidua</i> SC.</li> <li>• DO NOT use on peat or muck soils with 10% or more organic matter.</li> <li>• May be applied postemergence up to 4 collar (V4) corn, but this application alone will not control emerged weeds. Refer to Table 1H.</li> <li>• Rotation restrictions are dependent on use rate. If <i>Zidua</i> is applied at 4 oz/A or 6.5 oz/A of <i>Zidua</i> SC, the rotation restrictions are extended to 4 months for soybean, 6 months for wheat, and 18 months for other small grains. Refer to Table 12 for crop rotation restrictions.</li> </ul>

## Corn – Soil Applied – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
Annual broadleaves	atrazine (AAtrex, others)	1	1 qt 4L OR 1.1 lb 90WG	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• Mixing, loading, and application setbacks are required for atrazine. See page 12 or label for details.</li> <li>• DO NOT exceed an application rate of 2 lb a.i. of atrazine per acre per application and the total pounds of atrazine applied must not exceed 2.5 lb a.i. per acre per year.</li> <li>• May be applied postemergence on corn up to 12 inches tall. Refer to Table 1H and the postemergence application section for atrazine.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	mesotrione (Callisto)	0.188	6 oz 4SC	<ul style="list-style-type: none"> <li>• <b>May be applied preplant or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• Mesotrione can be applied preemergence to field corn, seed corn, sweet corn, and yellow popcorn.</li> <li>• Tank mixes with atrazine (1 a.i. lb/A) will improve control of common ragweed, giant ragweed, and cocklebur.</li> <li>• DO NOT apply <i>Callisto</i> with an emulsifiable concentrate herbicide or liquid fertilizer if corn has already emerged.</li> <li>• DO NOT exceed a total of 7.7 oz/A of <i>Callisto</i> per season.</li> <li>• Mesotrione preemergence is generally applied in a premix. Mesotrione premixes include <b>Acuron, Acuron Flexi, Instigate, Lumax EZ, Lexar EZ, and Zemax</b>. Refer to Table 1C for premix use rates and components. May be applied postemergence on corn up to 30 inches tall or through 8 collars. Refer to Table 1H and the postemergence application section for <i>Callisto</i>.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	flumetsulam + clopypalid (Hornet WDG, Stanza)	0.128	3 oz 68.5WG	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Corn should be planted at least 1.5 inches deep.</li> <li>• Adjust application rate according to soil type and organic matter.</li> <li>• DO NOT apply to soils with less than 1.5% organic matter, a pH &gt; 7.8, or soils with &gt;5% organic matter and low soil pH (5.9).</li> <li>• DO NOT follow this treatment with a postemergence application of an ALS-inhibiting herbicide if plants are under stress.</li> <li>• Tank mixes with atrazine (1 a.i. lb/A) will improve control of heavy populations of jimsonweed.</li> <li>• Insecticide interaction. Consult label for organophosphate insecticide restrictions.</li> <li>• May be applied postemergence on corn up to 20 inches tall or through 6 collars. Refer to Table 1H and the postemergence application section for <i>Hornet WDG/Stanza</i>.</li> <li>• Requires a 26-month rotation interval and a successful field bioassay before planting sugar beets, cucumbers or tomatoes.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>

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## Corn – Soil Applied – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
Annual broadleaves	simazine ( <i>Princep</i> , others)	1	1 qt 4L OR 1.1 lb 90WG	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• May be substituted for atrazine for slightly better grass control.</li> <li>• DO NOT apply after corn emergence.</li> <li>• <i>Princep</i> has similar carryover risk as atrazine.</li> <li>• When <i>Princep</i> and atrazine are both applied to corn, carryover risk is additive.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	flumetsulam ( <i>Python</i> , <i>Accolade</i> )	0.05	1 oz 80WG	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• Corn should be planted at least 1.5 inches deep.</li> <li>• Adjust application rate according to soil type and organic matter.</li> <li>• DO NOT apply to soils with less than 1.5% organic matter – severe injury may occur.</li> <li>• DO NOT apply to areas where soil pH is greater than 7.8 or to soils with greater than 5% organic matter and pH less than 5.9.</li> <li>• DO NOT follow this treatment with a postemergence application of an ALS-inhibiting herbicide if plants are under stress.</li> <li>• Tank mixes with atrazine (1 a.i. lb/A) will improve control of heavy populations of common ragweed, cocklebur, and jimsonweed.</li> <li>• Insecticide interaction. Consult label for organophosphate insecticide restrictions.</li> <li>• May be applied postemergence on corn up to 20 inches tall or through 6 collars, rates should be reduced. Refer to Table 1H.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	saflufenacil ( <i>Sharpen</i> )	0.056	2.5 oz 2.85SC	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• <i>Sharpen</i> can be applied to field corn, silage corn, seed corn and popcorn. Refer to seed company recommendations for use on inbred lines.</li> <li>• Application rates vary by soil type; on coarse textured soils 2-2.5 oz/A, medium textured soils 2.5-3 oz/A, and fine textured soils 3-3.5 oz/A can be applied.</li> <li>• The maximum <i>Sharpen</i> rate for coarse textured soils is 2.5 oz per acre per application.</li> <li>• DO NOT apply <i>Sharpen</i> after corn emergence or severe crop injury will occur.</li> <li>• Insecticide interactions. Consult label for organophosphate and carbamate insecticide restrictions.</li> <li>• DO NOT exceed an application rate of 3.5 oz of <i>Sharpen</i> per acre per application or 6 oz/A of <i>Sharpen</i> per year.</li> <li>• <i>Sharpen</i> is an effective burndown herbicide in no-till corn. Consult Table 1K for more information.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> <li>• Refer to label and Table 12 for crop rotation restrictions. DO NOT include time in the rotation interval when the ground is frozen.</li> </ul>

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## Corn – Soil Applied – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
<b>Annual broadleaves</b>	flumioxazin ( <i>Valor, Rowel</i> )	0.064	2 oz 51WG	<ul style="list-style-type: none"> <li>• <b>Apply a minimum of 7 day or more prior to planting corn on no-till or minimum tillage fields.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• If there is less than 25% of the soil surface covered with residue from the previous crop or less than 0.25 inch of rainfall has occurred between application and the planting interval should be extended to 14 days.</li> <li>• <i>Valor/Rowel</i> can be used as part of the burndown program in no-till corn. Refer to Table 1K.</li> <li>• DO NOT apply after corn emergence.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
<b>Annual broadleaves Annual grasses</b>	bicyclopyrone + mesotrione + atrazine + s-metolachlor ( <i>Acuron</i> )	2.85	3 qt 3.44ZC	<ul style="list-style-type: none"> <li>• <b>May be applied preplant or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• If the soil organic matter is &lt;3% apply 2.5 qt/A of <i>Acuron</i>.</li> <li>• Insecticide interaction: Consult label for organophosphate and carbamate insecticide restrictions.</li> <li>• <i>Acuron</i> at 2 qt/A may be applied as part of a planned 2-pass program.</li> <li>• May be applied postemergence on corn up to 12 inches tall. Refer to Table 1H.</li> <li>• <i>Acuron</i> can be split between preemergence and early postemergence application timings.</li> <li>• Tank-mixtures with glyphosate can be applied postemergence to glyphosate-resistant corn.</li> <li>• Tank-mixtures with <i>Liberty</i> can be applied postemergence to LibertyLink corn.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	bicyclopyrone + mesotrione + s-metolachlor ( <i>Acuron Flexi</i> )	1.83	2.25 qt 3.26ZC	<ul style="list-style-type: none"> <li>• <b>May be applied preplant or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• If the soil organic matter is &lt;3% apply 2.0 qt/A of <i>Acuron Flexi</i>.</li> <li>• Insecticide interaction: Consult label for organophosphate and carbamate insecticide restrictions.</li> <li>• May be applied postemergence on corn up to 30 inches tall or up to the 8 leaf stage. Refer to Table 1H.</li> <li>• <i>Acuron Flexi</i> can be split between preemergence (1/2 to 2/3 rate) and postemergence (1/2 to 1/3 rate) application timings.</li> <li>• Tank-mixtures with glyphosate can be applied postemergence to glyphosate-resistant corn.</li> <li>• Tank-mixtures with <i>Liberty</i> can be applied postemergence to LibertyLink corn.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>

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## Corn – Soil Applied – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
Annual broadleaves Annual grasses	pyroxasulfone + fluthiacet + atrazine <i>(Anthem ATZ)</i>	1.4	2.5 pt 4.5SC	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• <i>Anthem ATZ</i> use rates are based on soil texture and organic matter. <i>Anthem ATZ</i> rates range from 1.75 to 4 pt/A (2.5 pt/A). Lower rates (2 pt/A) can be applied as part of a 2-pass program in glufosinate or glyphosate-resistant corn, unless resistant weeds are present.</li> <li>• <i>Anthem ATZ</i> should be used as part of a planned preemergence followed by postemergence herbicide program.</li> <li>• May be applied postemergence. Refer to the postemergence application section for <i>Anthem ATZ</i> and Table 1I.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	isoxaflutole <i>(Balance Flexx)</i>	0.0937	6 oz 2SC	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• <i>Balance Flexx</i> can be applied to field corn, silage, and seed corn. Refer to seed company recommendations for use on inbred lines.</li> <li>• Tank-mixes with atrazine (1 a.i. lb/A) will improve control giant ragweed and cocklebur.</li> <li>• Application rates vary by soil type; on coarse textured soils 3-4 fl oz/A, medium textured soils 5-6 fl oz/A, and fine textured soils 6 fl oz/A can be applied.</li> <li>• DO NOT apply on coarse-textured soils with less than 2% organic matter where the water table is less than 25 feet below the ground surface.</li> <li>• Lower rates of <i>Balance Flexx</i> (4 fl oz/A) can be used as part of a planned 2-pass program or when tank-mixed with grass herbicide-atrazine premixtures.</li> <li>• Add crop oil concentrate at 1% v/v to control existing weeds prior to corn emergence.</li> <li>• Insecticide interaction. Consult label for organophosphate or carbamate insecticide interactions.</li> <li>• May be applied postemergence from spike through V2 corn. Refer to Table 1H.</li> <li>• Atrazine may be tank-mixed with postemergence applications of <i>Balance Flexx</i>. DO NOT add an adjuvant.</li> <li>• 15 inches of precipitation is needed for a 10 month rotation interval to alfalfa or sugarbeet. If this criteria is not met the rotation interval is increased to 18 months. Dry beans should not be planted until 18 months after <i>Balance Flexx</i> applications – planting the following year after application has resulted in dry bean injury.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>

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## Corn – Soil Applied – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
<b>Annual broadleaves</b> <b>Annual grasses</b>	rimsulfuron + thifensulfuron <i>(Basis Blend)</i>	0.023	1.25 oz 30WG	<ul style="list-style-type: none"> <li>• <b>May be applied preplant or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• <i>Basis Blend</i> is best used as part of a burndown program in no-till corn. Refer to Table 1K.</li> <li>• DO NOT apply on course textured soils with less than 1% organic matter.</li> <li>• DO NOT apply to popcorn, sweet corn or corn grown for seed.</li> <li>• May be applied postemergence on corn up to 6 inches or 2 collar, rates need to be reduced to 0.825 oz of <i>Basis Blend</i>.</li> <li>• Rotation restrictions to soybean are dependent on use rate. Soybean can be planted 10 months after 1.25 oz of <i>Basis Blend</i> is applied. The rotation interval to planting soybean is reduced to 15 days if 0.825 oz of <i>Basis Blend</i> is applied.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	atrazine + s-metolachlor <i>(Bicep Lite II Magnum,</i> <i>Cinch Lite ATZ)</i>	2.25	1.5 qt 6F	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Lower rates may be applied as part of a 2-pass program in glufosinate or glyphosate-resistant corn, unless resistant weeds are present.</li> <li>• May be applied postemergence on corn up to 12 inches tall. Refer to Table 1H.</li> <li>• Tank-mixtures with glyphosate can be applied post-emergence to glyphosate-resistant corn.</li> <li>• Tank-mixtures with <i>Liberty</i> can be applied postemergence to LibertyLink corn.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	OR <i>(Bicep II Magnum,</i> <i>Cinch ATZ)</i>	2.9	2.1 qt 5.5F	
	atrazine + metolachlor <i>(Parallel Plus, others)</i>	2.9	2.3 qt 5.5F	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• <i>Parallel Plus</i> may be applied at lower rates as part of a planned 2-pass program where glyphosate is used post-emergence in glyphosate-resistant corn.</li> <li>• May be applied postemergence on corn up to 12 inches tall. Refer to Table 1H.</li> <li>• Tank-mixtures with glyphosate can be applied post-emergence to glyphosate-resistant corn.</li> <li>• Tank-mixtures with <i>Liberty</i> can be applied postemergence to LibertyLink corn.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>

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## Corn – Soil Applied – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
<b>Annual broadleaves Annual grasses</b>	atrazine + acetochlor <i>(Breakfree NXT Lite, Keystone LA NXT)</i> OR <i>(Degree Xtra, Fulltime NXT)</i> OR <i>(Breakfree ATZ NXT, Harness Xtra, Keystone NXT)</i>	3	2 qt 6L	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• <i>Degree Xtra</i> and <i>Fulltime NXT</i> contain encapsulated formulations of acetochlor.</li> <li>• Use rates of these products are based on soil texture and organic matter. <i>Breakfree NXT Lite/Keystone LA NXT</i> rates range from 1.8 to 2.3 qt/A (2 qt/A); <i>Degree Xtra/Fulltime NXT</i> rates range from 2.9 to 3.7 qt/A (3 qt/A); <i>Breakfree ATZ NXT/Harness Xtra/Keystone NXT</i> rates range from 1.4 to 3 qt/A (2.4 qt/A).</li> <li>• Lower rates can be applied as part of a 2-pass program in glufosinate or glyphosate-resistant corn, unless resistant weeds are present.</li> <li>• May be applied postemergence on corn up to 11 inches tall. Refer to Table 1H.</li> <li>• Tank-mixtures with glyphosate can be applied post-emergence to glyphosate-resistant corn.</li> <li>• Tank-mixtures with <i>Liberty</i> can be applied postemergence to LibertyLink corn.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
		3	3 qt 4L	
		3.4	2.4 qt 5.6L	
	isoxaflutole + thiencarbazone-methyl <i>(Corvus)</i>	0.115	5.6 oz 2.63SC	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• <i>Corvus</i> can be applied to field corn, silage, and seed corn. Refer to seed company recommendations for use on inbred lines.</li> <li>• Tank-mixes with atrazine (1 a.i. lb/A) will improve control giant ragweed and cocklebur.</li> <li>• Application rates vary by soil type from 3.33 to 5.6 fl oz/A. On coarse-textured soils with 2% or less organic matter use 3.33 fl oz/A of <i>Corvus</i>.</li> <li>• DO NOT apply on coarse-textured soils with less than 2% organic matter where the water table is less than 25 feet below the ground surface.</li> <li>• Add crop oil concentrate at 1% v/v to control existing weeds prior to corn emergence.</li> <li>• Insecticide interaction. Consult label for organophosphate or carbamate insecticide interactions.</li> <li>• May be applied postemergence from spike through V2 corn. Refer to Table 1H.</li> <li>• Atrazine may be tank-mixed with postemergence applications <i>Corvus</i>. DO NOT add an adjuvant.</li> <li>• 15 inches of precipitation is needed for a 9 month rotation interval to soybean and barley.</li> <li>• When soil pH is 7.5 or above the rotation interval should be extended to 24 months for alfalfa, dry bean, oat, potato, sugarbeet, tomato, and cucumber.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>

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## Corn – Soil Applied – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
Annual broadleaves Annual grasses	pyroxasulfone + flumioxazin <i>(Fierce)</i>	0.133	3 oz 76WG	<ul style="list-style-type: none"> <li>• <b>Apply a minimum of 7 days up to 30 days prior to planting corn on no-till or minimum tillage fields.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Use only on no-till or minimum tillage fields where last year's crop residue has not been incorporated into the soil.</li> <li>• DO NOT use on soils with less than 1% organic matter unless an incorporating rainfall has occurred between herbicide application and planting.</li> <li>• DO NOT use on seed corn.</li> <li>• <i>Fierce</i> can be used as part of the burndown program in no-till corn. Refer to Table 1K.</li> <li>• DO NOT apply after corn emergence.</li> <li>• The rotation restriction for no-till field corn is 7 days and for conventional till field corn is 30 days. Refer to Table 12 for additional crop rotation restrictions.</li> </ul>
	acetochlor + mesotrione <i>(Harness MAX)</i>	2.26	75 fl oz/A 3.82L	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• DO NOT apply to popcorn or sweet corn.</li> <li>• DO NOT apply more than a total of 3 lb ai/A of acetochlor (equivalent to 3.4 pt/A <i>Harness</i>) or 0.24 lb ai/A of mesotrione (equivalent to 7.7 fl oz/A <i>Callisto</i>).</li> <li>• Insecticide interaction: Consult label for organophosphate and carbamate insecticide restrictions.</li> <li>• DO NOT graze, feed forage, grain or fodder within 60 days of application.</li> <li>• May be applied postemergence on corn up to 11 inches tall. Refer to Table 1H.</li> <li>• <i>Harness MAX</i> can be tank mixed with glyphosate in glyphosate-resistant corn or with <i>Liberty</i> in LibertyLink corn and applied at rates as low as 40 oz/A.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>

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## Corn – Soil Applied – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<p>(continued) Annual broadleaves Annual grasses</p>	<p>mesotrione + rimsulfuron (<i>Instigate</i>)</p>	0.82	6 oz 45.8WG	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Insecticide interaction: Consult label for organophosphate insecticide restrictions.</li> <li>• DO NOT apply preemergence to coarse textured soils with less than 1% organic matter.</li> <li>• DO NOT apply to seed corn.</li> <li>• <i>Instigate</i> can be tank-mixed with other soil-applied herbicides or used as part of a planned 2-pass weed control program.</li> <li>• DO NOT apply more than a total of 3.85 oz ai/A of mesotrione (equivalent to 7.7 oz/A <i>Callisto</i>) or 1 oz ai/A of rimsulfuron (equivalent to 4 oz/A <i>Resolve</i> SG) per year.</li> <li>• May be applied early postemergence through 2 leaf collar (V2) corn, at 5.25 to 5.4 oz/A with a crop oil concentrate and ammonium sulfate. Refer to Table 1H.</li> <li>• DO NOT tank-mix with <i>Basagran</i> – severe crop injury.</li> <li>• DO NOT graze, feed forage, grain or fodder within 45 days of application.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	<p>mesotrione + atrazine + s-metolachlor (<i>Lexar EZ</i>) OR (<i>Lumax EZ</i>)</p>	2.8  2.5	3 qt 3.7ZC  2.7 qt 3.67ZC	<ul style="list-style-type: none"> <li>• <b>May be applied preplant or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Insecticide interaction: Consult label for organophosphate and carbamate insecticide restrictions.</li> <li>• <i>Lexar EZ</i> at 2.25 qt/A or <i>Lumax EZ</i> at 2 qt/A may be applied as part of a planned 2-pass program where glyphosate is used postemergence in glyphosate-resistant corn.</li> <li>• May be applied postemergence on corn up to 12 inches tall. Refer to Table 1H.</li> <li>• <i>Lexar EZ</i> or <i>Lumax EZ</i> can be split between preemergence and early postemergence application timings.</li> <li>• Tank-mixtures with glyphosate can be applied postemergence to glyphosate-resistant corn.</li> <li>• Tank-mixtures with <i>Liberty</i> can be applied postemergence to LibertyLink corn.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	<p>rimsulfuron + isoxaflutole (<i>Prequel</i>)</p>	0.046	1.66 oz 45WG	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Use rates are based on soil texture; ranging from 1.66 to 2.5 oz/A.</li> <li>• DO NOT apply to coarse-textured soils with less than 1% organic matter.</li> <li>• DO NOT to corn grown for seed, popcorn or sweet corn.</li> <li>• <i>Prequel</i> should be used as part of a planned preemergence followed by postemergence herbicide program. This premix alone will not provide full-season weed control.</li> <li>• Insecticide interaction: Consult label for organophosphate and carbamate insecticide restrictions.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>

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## Corn – Soil Applied – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
Annual broadleaves Annual grasses	acetochlor + mesotrione + clopypalid <i>(Resicore)</i>	2.26	2.75 qt 3.29SE	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Use rates are based on soil texture and organic matter; ranging from 2.25 to 3 qt/A (2.75 qt/A).</li> <li>• Insecticide interaction: Consult label for organophosphate and carbamate insecticide restrictions.</li> <li>• <i>Resicore</i> may be applied at rates as low as 1.8 qt/A as part of a planned 2-pass program where glyphosate is used postemergence in glyphosate-resistant corn or <i>Liberty</i> is applied postemergence in LibertyLink corn.</li> <li>• May be applied postemergence on corn up to 11 inches tall. Refer to Table 1H.</li> <li>• <i>Resicore</i> can be tank-mixed with glyphosate in glyphosate-resistant corn or <i>Liberty</i> in LibertyLink corn and applied postemergence at rates as low as 1.25 qt/A.</li> <li>• <i>Resicore</i> can be split between preemergence (1/2 rate) and postemergence (1/2 rate) application timings.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	flumetsulam + clopypalid + acetochlor <i>(SureStart II, TripleFLEX II)</i>	1.04	2 pt 4.16SE	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Use rates are based on soil texture and organic matter; ranging from 1.5 to 3 pt/A (2 pt/A).</li> <li>• Corn should be planted at least 1.5 inches deep.</li> <li>• DO NOT apply to soils with less than 1.5% organic matter, a pH &gt; 7.8, or soils with &gt;5% organic matter and low soil pH (5.9).</li> <li>• Insecticide interaction: Consult label for organophosphate insecticide restrictions.</li> <li>• <i>SureStart II/TripleFLEX II</i> should be used as part of a planned preemergence followed by postemergence herbicide program. These premixes alone will not provide full-season weed control.</li> <li>• May be applied postemergence on corn up to 11 inches tall. Refer to Table 1H.</li> <li>• Tank-mixtures with glyphosate can be applied postemergence to glyphosate-resistant corn.</li> <li>• Tank-mixtures with <i>Liberty</i> can be applied postemergence to LibertyLink corn.</li> <li>• Requires a 26-month rotation interval and a successful field bioassay before planting sugar beets, cucumbers or tomatoes.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>

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## Corn – Soil Applied – All Tillage Systems *(continued)*

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
Annual broadleaves Annual grasses	saflufenacil + dimethenamid-P + <i>(Verdict)</i>	0.65	15 oz 5.57EC	<ul style="list-style-type: none"> <li>• <b>May be applied preplant, preplant incorporated or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Use rates are based on soil texture; ranging from 10 to 18 oz/A (15 oz/A).</li> <li>• <i>Verdict</i> should be used as part of a planned preemergence followed by postemergence herbicide program. This premix alone will not provide full-season weed control.</li> <li>• <i>Verdict</i> can be used as part of a burndown program in no-till corn. Refer to Table 1K.</li> <li>• DO NOT apply after corn emergence.</li> <li>• <i>Verdict</i> can be used on seed corn at use rates ranging from 5 to 10 oz/A; DO NOT exceed 5 oz/A on course soils.</li> <li>• Crop rotation to soybean ranges between 0-4 months depending on soil type and application rate.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	mesotrione + s-metolachlor <i>(Zemax)</i>	1.9	2 qt 3.67L	<ul style="list-style-type: none"> <li>• <b>May be applied preplant or preemergence.</b></li> <li>• Refer to Table 1A for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Insecticide interaction: Consult label for organophosphate and carbamate insecticide restrictions.</li> <li>• <i>Zemax</i> may be applied at 1.6 qt/A as part of a planned 2-pass program where glyphosate is used postemergence in glyphosate-resistant corn.</li> <li>• May be applied postemergence on corn up to 30 inches tall or up to the 8 leaf stage. Refer to Table 1H.</li> <li>• Tank-mixtures with glyphosate can be applied postemergence to glyphosate-resistant corn.</li> <li>• Tank-mixtures with <i>Liberty</i> can be applied postemergence to LibertyLink corn.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>

## Corn – Postemergence – All Tillage Systems

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<b>Annual grasses</b>	nicosulfuron + safener ( <i>Accent Q</i> )	0.031	0.9 oz 54.5WG	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to field corn up to 20 inches tall or 6 leaf collars (V6), whichever is more restrictive.</li> <li>• For corn 20-36 inches tall, use drop nozzles.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• DO NOT apply more than 1.8 oz/A per season.</li> <li>• <i>Accent Q</i> may be applied to seed corn, however maximum corn height for application is 20 inches or 5 leaf collars (V5).</li> <li>• DO NOT tank-mix with 2,4-D containing products – grass antagonism.</li> <li>• DO NOT tank-mix with <i>Basagran</i> – severe crop injury.</li> <li>• Insecticide interaction: Consult label for organophosphate insecticide restrictions.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• Rotation restrictions for sugarbeet, potatoes, cucumbers, and tomatoes are increased to 18 months when soil pH &gt;6.5.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	+		+	
	crop oil concentrate		1%	
+	+			
ammonium sulfate	2 lb			
	rimsulfuron + thifensulfuron ( <i>Resolve Q</i> )	0.017	1.25 oz 22.4WG	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to corn up to 20 inches tall or 6 leaf collars (V6), whichever is more restrictive.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• DO NOT apply to seed corn.</li> <li>• DO NOT tank-mix with <i>Basagran</i> – severe crop injury.</li> <li>• Insecticide interaction: Consult label for organophosphate insecticide restrictions.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	+		+	
	crop oil concentrate		1%	
+	+			
ammonium sulfate	2.5 lb			
	nicosulfuron + rimsulfuron + safener ( <i>Steadfast Q</i> )	0.035	1.5 oz 37.7WG	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to corn up to 20 inches tall or 6 leaf collars (V6), whichever is more restrictive.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• DO NOT tank-mix with 2,4-D containing products – grass antagonism.</li> <li>• DO NOT tank-mix with <i>Basagran</i> – severe crop injury.</li> <li>• Insecticide interaction: Consult label for organophosphate insecticide restrictions.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• Rotation restrictions for sugarbeet, potatoes, cucumbers, and tomatoes are increased to 18 months when soil pH &gt;6.5.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	+		+	
	crop oil concentrate		1%	
+	+			
ammonium sulfate	2 lb			

## Corn – Postemergence – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<b>Annual broadleaves</b>	2,4-D amine OR 2,4-D ester	0.5  0.25	1 pt 4L OR 0.5 pt 4L	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to corn less than 8 inches tall. Drop nozzles can be used after this stage.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• DO NOT apply to corn from tasseling to the dough stage.</li> <li>• Ester formulations have a greater potential for crop injury and vapor drift.</li> <li>• CAUTION should be taken to avoid spray drift, many broadleaf plants are sensitive to 2,4-D.</li> <li>• Not effective on smartweed or wild buckwheat.</li> <li>• DO NOT apply with adjuvant – crop injury.</li> <li>• Corn hybrids vary in sensitivity to 2,4-D. Consult seed company for details.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	atrazine (AAtrex, others)  + crop oil concentrate	2	2 qt 4L OR 2.2 lb 90DG  + 1 qt	
	carfentrazone (Aim)  + surfactant	0.008	0.5 oz 2EC  + 0.25%	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to corn up to 8 leaf collars. Drop nozzles can be used up to 14 collar corn.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• Applications should not be made within 6–8 hours of rain or irrigation — severe crop injury.</li> <li>• Avoid applications into the corn whorls. DO NOT tank-mix with <i>Basagran</i>, or <i>Buctril</i> – severe crop injury.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	pyroxasulfone + fluthiacet (Anthem MAXX)  + surfactant	0.134	4 oz 4.3SE  + 0.25%	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Apply from emergence through the V4 (4 visible collars) stage.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• Crop oil concentrate or methylated seed oil at 1% may be used instead of surfactant.</li> <li>• The addition of ammonium sulfate (2 lb/A) may improve control of certain weeds.</li> <li>• The pyroxasulfone component of <i>Anthem MAXX</i> will provide residual control of grass and small seeded broadleaf weeds.</li> <li>• Avoid applications when the crop foliage is wet – increased crop response.</li> <li>• DO NOT harvest corn forage or grain until 30 or 70 days, respectively, after <i>Anthem MAXX</i> application.</li> <li>• Insecticide interaction: DO NOT tank-mix with chlorpyrifos containing insecticides.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>

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## Corn – Postemergence – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
Annual broadleaves	pyroxasulfone + fluthiacet + atrazine (Anthem ATZ) + surfactant	1.125	1 qt 4.5SC  + 0.25%	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Apply from emergence up to V4 (4 visible collars) stage.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• Crop oil concentrate or methylated seed oil at 1% may be used instead of surfactant.</li> <li>• The addition of ammonium sulfate (2 lb/A) may improve control of certain weeds.</li> <li>• The pyroxasulfone component of <i>Anthem ATZ</i> will provide residual control of grass and small seeded broadleaf weeds.</li> <li>• Avoid applications when the crop foliage is wet – increased crop response.</li> <li>• DO NOT harvest corn forage or grain until 60 or 70 days, respectively, after <i>Anthem ATZ</i> application.</li> <li>• Insecticide interaction: DO NOT tank-mix with chlorpyrifos containing insecticides.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	dicamba (Banvel, Clarity)	0.5	1 pt 4SL	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to corn up to the 5-leaf stage or 8 inches tall, whichever comes first.</li> <li>• <i>Banvel/Clarity</i> may be applied at 0.5 pt/A to corn up to 36 inches tall or 15 days before tassel emergence. Drop nozzles are recommended for corn over 8 inches tall.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• AMS or 28% liquid nitrogen fertilizer may be added for improved control of larger velvetleaf. See label for details.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• Corn hybrids vary in sensitivity to dicamba. Consult seed company for details.</li> <li>• CAUTION should be taken to avoid vapor and particle spray drift.</li> <li>• DO NOT apply when temperature is expected to exceed 85° F or if soybeans in the vicinity are over 10 inches tall or have begun to bloom.</li> <li>• Refer to label and Table 12 for crop rotation restrictions. DO NOT include time in the rotation interval when the ground is frozen.</li> </ul>
	bentazon (Basagran, Broadloom) + crop oil concentrate	1	2 pt 4SL  + 1 qt	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• The addition of 2.5 lb/A of ammonium sulfate (AMS) is recommended if velvetleaf is the targeted weed.</li> <li>• Rates can be reduced if weeds are small – consult label.</li> <li>• DO NOT use AMS if common lambsquarters is present.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>

*(Continued on next page)*

## Corn – Postemergence – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
Annual broadleaves	primisulfuron ( <i>Beacon</i> )	0.036	0.76 oz 75WG	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to corn between 4 and 20 inches tall.</li> <li>• Drop nozzles can be used up to tassel emergence.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• Surfactant (0.25%) may be used instead of crop oil concentrate. The addition of ammonium sulfate at 2 lb/A may improve control of certain weeds.</li> <li>• Corn inbreds and a small number of corn hybrids are sensitive to <i>Beacon</i>. Consult seed companies for lists of sensitive inbreds and hybrids.</li> <li>• <i>Beacon</i> may be tank mixed with other postemergence herbicides for control of a broader spectrum of weeds.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• Insecticide interaction: Consult label for organophosphate insecticide restrictions.</li> <li>• The rotation restriction to potatoes is 8 months at the 0.38 oz/A, and is increased to 18 months at the 0.76 oz/A.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	+		+	
	crop oil concentrate		1%	
	bromoxynil ( <i>Buctril, Moxy, others</i> )	0.375	1 pt 2EC	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to corn up to tassel emergence.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• The minimum corn stage is 4 leaves if the rate of <i>Buctril</i> is increased to 1.5 pt/A.</li> <li>• Good spray coverage is important.</li> <li>• DO NOT mix with spray additives or liquid fertilizers unless specified for tank mixes.</li> <li>• <i>Atrazine</i> at 0.5 lb a.i./A is a common tank mix partner</li> <li>• For ground applications, use minimum of 20 gal of water/A and 30 psi.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	fluthiacet ( <i>Cadet</i> )	0.006	0.9 oz 0.91EC	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to corn up to 48 inches tall, but before tassel emergence.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• Crop oil concentrate at 1% may be used instead of surfactant.</li> <li>• The addition of ammonium sulfate (2 lb/A) may improve control of certain weeds.</li> <li>• <i>Cadet</i> can be applied at 0.5 oz/A when tank-mixed with other herbicides for additional broadleaf weed control.</li> <li>• Use drop nozzles when corn canopy will prevent complete spray coverage of the weeds.</li> <li>• DO NOT apply more than 1.25 oz/A of <i>Cadet</i> per cropping season.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	+	+		
	surfactant	0.25%		

*(Continued on next page)*



## Corn – Postemergence – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
<b>Annual broadleaves</b>	mesotrione ( <i>Callisto</i> )	0.094	3 oz 4SC	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to corn up to 30 inches tall or 8-collar, whichever is more restrictive.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• DO NOT use methylated seed oil (MSO) or MSO blends.</li> <li>• Atrazine at 0.25-0.5 lb a.i./A tank mixed with <i>Callisto</i> will improve control of broadleaf weeds. Note: Tank mixtures of <i>Callisto</i> with atrazine can be applied to corn up to 12 inches tall only.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• DO NOT exceed 7.7 fl oz/A of <i>Callisto</i> (0.24 lb a.i./A of mesotrione) in one growing season, including premixes that contain <i>Callisto</i>.</li> <li>• Insecticide interaction: Consult label for organophosphate and carbamate insecticide restrictions.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	+		+	
	crop oil concentrate		1%	
+	+	8.5 lb/100 gal		
ammonium sulfate				
	mesotrione + atrazine ( <i>Callisto Xtra</i> )	0.69	24 oz 3.7SC	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Apply to corn up to 12 inches tall.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• DO NOT exceed 7.7 fl oz/A of <i>Callisto</i> (0.24 lb a.i./A of mesotrione) in one growing season, including premixes that contain <i>Callisto</i>.</li> <li>• Insecticide interaction: Consult label for organophosphate and carbamate insecticide restrictions.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	+		+	
	crop oil concentrate		1%	
+	+	8.5 lb/100 gal		
ammonium sulfate				
	dicamba + safener ( <i>DiFlexx</i> )	0.25	8 oz 4SC	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to corn from spike up to 36 inches tall or V6 (6 visible collars), whichever is more restrictive.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• <i>DiFlexx</i> will likely be tank-mixed with other postemergence herbicides for an integrated weed management program.</li> <li>• Crop oil concentrate at 1% v/v or methylated seed oil at 1% v/v can be used instead of a non-ionic surfactant for certain tank-mixtures.</li> <li>• <i>DiFlexx</i> can be applied up to 16 oz/A for weeds with known resistance to tank-mix partners, weeds not controlled with tank-mix partners, heavy weed populations, biennial/perennial weeds, and annual weeds taller than 6 inches.</li> <li>• DO NOT apply when soybeans are growing nearby and corn is more than 24 inches tall, soybean are more than 10 inches tall, or soybean have begun to bloom.</li> <li>• Insecticide interaction: Consult label for insecticide interactions.</li> <li>• DO NOT harvest or feed corn forage, silage or fodder within 45 days of application.</li> <li>• Refer to label and Table 12 for crop rotation restrictions. DO NOT include time in the rotation interval when the ground is frozen.</li> </ul>
	+		+	
	surfactant		0.25%	
+	+	17 lb/100 gal		
ammonium sulfate				

*(Continued on next page)*

## Corn – Postemergence – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
<b>Annual broadleaves</b>	tembotrione + dicamba + safener <i>(DiFlexx DUO)</i>	0.53	32 oz 2.13SC	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply from corn emergence up to, but not including, V7 (7 visible collars) corn or 36 inches tall, whichever is more restrictive.</li> <li>• Refer to Table 11 for maximum crop and weed heights.</li> <li>• Apply <i>DiFlexx DUO</i> at rates ranging from 24 to 40 oz/A (32 oz/A). Higher use rates should be used when Group 4 or 27 weeds are present.</li> <li>• <i>DiFlexx DUO</i> will likely be tank-mixed with other postemergence herbicides for an integrated weed management program.</li> <li>• Use a methylated seed oil or crop oil concentrate at 1% v/v for improved weed control.</li> <li>• DO NOT apply when there is a possibility of off-target movement to sensitive crops. Wind speeds, nozzle selection, spray pressure, sprayer operating speed, boom height and proximity to sensitive crops all influence off-target movement. Drift potential is lowest when wind speed are between 2 and 10 mph.</li> <li>• DO NOT apply into areas of temperature inversions.</li> <li>• Insecticide interaction: Consult label for insecticide interactions.</li> <li>• DO NOT graze or harvest corn forage within 45 days of application.</li> <li>• Refer to label and Table 12 for crop rotation restrictions. Cumulative precipitation between <i>DiFlexx DUO</i> application and planting sugarbeets of dry beans must total 20 inches for the 10 month rotation restriction. Through tillage should be used preceding rotation to sugarbeets. The rotation restriction for kidney beans and cranberry beans is 18 months.</li> </ul>
	+ methylated seed oil + ammonium sulfate		+ 1% + 8.5-17 lb/100 gal	
	flumetsulam + clopyralid <i>(Hornet WDG, Stanza)</i>	0.128	3.0 oz 68.5WG	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Apply to corn up to 20 inches tall or 6 collars, whichever is more restrictive.</li> <li>• Refer to Table 11 for maximum crop and weed heights.</li> <li>• Crop oil concentrate at 1% may be used instead of surfactant.</li> <li>• DO NOT tank mix with <i>Basagran</i> — severe crop injury.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• Insecticide interaction: Consult label for organophosphate and carbamate insecticide restrictions.</li> <li>• CAUTION should be taken to avoid spray drift.</li> <li>• Requires a 26-month rotation interval and a successful field bioassay before planting sugar beets, cucumbers or tomatoes.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	+ surfactant + ammonium sulfate		+ 0.25% + 2 lb	

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## Corn – Postemergence – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
<b>Annual broadleaves</b>	halosulfuron ( <i>Permit</i> ) + surfactant	0.03	0.67 oz 75DF  + 0.25%	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to corn from spike up to canopy closure.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• <i>Permit</i> provides excellent control of yellow nutsedge.</li> <li>• <i>Permit</i> does NOT control common lambsquarters.</li> <li>• Crop oil concentrate at 1% may be used instead of surfactant.</li> <li>• Include ammonium sulfate (2 lb/A) for improved velvetleaf and pigweed control.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	flumiclorac ( <i>Resource</i> ) + crop oil concentrate	0.027	4 oz 0.86EC  + 1 pt	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to corn between 2 and 10 collars.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• Very effective on velvetleaf.</li> <li>• Use drop nozzles when corn canopy will prevent complete spray coverage of the weeds.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	fluthiacet + mesotrione ( <i>Solstice</i> ) + crop oil concentrate + ammonium sulfate	0.094	3 oz 4L  + 1% + 8.5 lb/100 gal	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Apply to corn up to 30 inches tall or V8 (8 visible collars), whichever is more restrictive.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• DO NOT use methylated seed oil (MSO) or MSO blends.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• DO NOT tank mix with emulsifiable concentrate grass herbicides, unless specifically addressed in the label – severe injury can occur.</li> <li>• Avoid applications when the crop foliage is wet – increased crop response.</li> <li>• DO NOT harvest or feed corn forage within 45 days or harvest or feed grain or stover within 70 days of application.</li> <li>• Insecticide interaction: Consult label for organophosphate and carbamate insecticide restrictions.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>

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## Corn – Postemergence – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
<b>Annual broadleaves</b>	dicamba + diflufenzopyr + safener ( <i>Status</i> ) + surfactant + ammonium sulfate	0.18	5 oz 56WG  + 0.25% + 17 lb/100 gal	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to corn between 4 (V2) and 36 (V8) inches tall. DO NOT make applications when corn is within 15 days of tassel emergence.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• <i>Status</i> use rates range between 5 and 10 oz/A. <i>Status</i> may be applied at 2.5 oz/A when tank-mixed with other broadleaf herbicides.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• Postemergence applications of <i>Status</i> are not recommended for use in tank mixes with plant growth regulator herbicides (e.g., dicamba, 2,4-D, or clopyralid).</li> <li>• Provides limited suppression of annual grasses.</li> <li>• CAUTION should be taken to avoid vapor and particle spray drift.</li> <li>• DO NOT apply when temperature is expected to exceed 85° F or if soybeans in the vicinity are over 10 inches tall or have begun to bloom.</li> <li>• Insecticide interaction: Consult label for organophosphate insecticide restrictions.</li> <li>• In the event of crop failure, corn may be replanted within 7 or more days of application.</li> <li>• Soybean, alfalfa, grain sorghum, or cereals may be planted 30 days after a rainfall event of 1 or more inches if <i>Status</i> was applied at 5 oz/A or less.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	clopyralid ( <i>Stinger</i> )	0.094	0.25 pt 3SL	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to field corn up to 24 inches tall.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• Treat ragweed, cocklebur, jimsonweed and Jerusalem artichoke up to the 5-leaf stage.</li> <li>• Increase the rate to 0.5 pt/A to control Canada thistle and perennial sowthistle.</li> <li>• DO NOT apply more than 0.66 pt/A per year.</li> <li>• CAUTION should be taken to avoid spray drift.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	halosulfuron + dicamba ( <i>Yukon</i> ) + surfactant + ammonium sulfate	0.169	4 oz 67.5WG  + 0.25% + 17 lb/100 gal	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Apply from spike to 36 inch tall corn, drop nozzles are recommended for corn greater than 20 inches.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• Corn hybrids vary in their sensitivity to dicamba. Consult seed company for details.</li> <li>• <i>Yukon</i> provides excellent control of yellow nutsedge.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• CAUTION should be taken to avoid vapor and particle spray drift.</li> <li>• DO NOT apply when temperature is expected to exceed 85°F or if soybeans in the vicinity are over 10 inches tall or have begun to bloom.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>

## Corn – Postemergence – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<b>Annual grasses</b> <b>Annual broadleaves</b>	topramezone ( <i>Armezon/Impact</i> )	0.016	0.75 oz 2.8SC	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• <i>Armezon/Impact</i> may be applied to corn up to 45 days prior to harvest.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• Atrazine at 0.25-0.5 lb a.i./A tank mixed will improve control of broadleaf and grass weeds. Note: Tank mixtures of <i>Armezon/Impact</i> with atrazine can be applied to corn up to 12 inches tall only.</li> <li>• Crop oil concentrate can be used instead of methylated seed oil in certain tank mixes.</li> <li>• When <i>Armezon/Impact</i> is applied at 0.5 oz/A, dry bean (excluding cranberry beans) or snap bean may be planted after nine months.</li> <li>• <i>Armezon/Impact</i> may be applied at maximum rate of 1 oz/A to provide greater control of certain grass species, however rotational crop restrictions are increased, refer to label.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	+ methylated seed oil		+	
	+ ammonium sulfate		17 lb/100 gal	
	topramezone + dimethenamid-P ( <i>Armezon PRO</i> )	0.835	20 oz 5.35L	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Apply to corn up to 30 inches tall or V8 (8 visible collars), whichever is more restrictive.</li> <li>• <i>Armezon PRO</i> can be applied at rates ranging from 16 - 20 fl oz/A, use the lower rates on lighter textured and/or lower organic matter soils.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• The dimethenamid-P component of <i>Armezon PRO</i> will provide residual control of grass and small seeded broadleaf weeds.</li> <li>• Atrazine at 0.25-0.5 lb a.i./A tank mixed will improve control of broadleaf weeds. Note: Tank mixtures of <i>Armezon PRO</i> with atrazine can be applied to corn up to 12 inches tall only.</li> <li>• Methylated seed oil is the preferred additive when <i>Armezon PRO</i> is applied alone. A non-ionic surfactant at 0.25% v/v is recommended for most tank-mixtures. Oil adjuvants including crop oil concentrates may be used in tank mixtures, however these combinations can cause crop injury.</li> <li>• <i>Armezon PRO</i> can be applied at 16 fl oz/A on lighter textured and/or lower organic matter soils.</li> <li>• DO NOT apply on sand-textured soils with less than 3% organic matter where the groundwater depth is 30 feet or less.</li> <li>• DO NOT harvest or feed corn forage, silage or fodder within 45 days of application.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	+ methylated seed oil		+	
	+ ammonium sulfate		+	
			8.5 lb/100 gal	

(Continued on next page)

## Corn – Postemergence – All Tillage Systems (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
<b>Annual grasses</b> <b>Annual broadleaves</b>	tembotrione + thiencarbazone-methyl ( <i>Capreno</i> ) + crop oil concentrate + ammonium sulfate	0.081	3.0 oz 3.45SC  + 1% + 8.5 lb/100 gal	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Apply to corn from 1 (V1) to 5 collars (V5).</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• DO NOT exceed a total of 6 oz/A of <i>Capreno</i> in a year.</li> <li>• Insecticide interaction: Consult label for organophosphate insecticide restrictions.</li> <li>• If soil pH is 7.5 or greater crop rotation intervals are extended for all crops, except field corn, soybean, wheat, and barley.</li> <li>• Alfalfa and oats can be planted the following spring if the total amount of <i>Capreno</i> applied in a 365 day period does not exceed 3 oz/A and the soil pH is not 7.5 or above.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	tembotrione ( <i>Laudis</i> ) + methylated seed oil + ammonium sulfate	0.082	3 oz 3.5SC  + 1% + 8.5 lb/100 gal	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply to corn up to 8 collars (V8).</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• Atrazine at 0.25-0.5 lb a.i./A tank mixed will improve control of broadleaf weeds. Note: Tank mixtures of <i>Laudis</i> with atrazine can be applied to corn up to 8 collars or 12 inches tall, whichever is more restrictive.</li> <li>• Crop oil concentrate can be used instead of methylated seed oil in certain tank mixes.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• Thorough tillage and 20 inches of cumulative precipitation is needed for a 10 month rotation interval to sugarbeet. If these criteria are not met the rotation interval is increased to 18 months. The rotation restriction is 18 months for the red kidney and cranberry classes of dry edible beans. All other commercial dry bean classes can be planted 10 months after <i>Laudis</i> application if cumulative precipitation exceeds 20 inches.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	rimsulfuron + mesotrione + safener ( <i>Realm Q</i> ) + crop oil concentrate + ammonium sulfate	0.097	4 oz 38.75WG  + 1% + 17 lb/100 gal	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Apply to corn up to the 20 inches tall or 6 collars, whichever is more restrictive.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• A spray solution pH of 6.0 – 8.0 is needed for product stability.</li> <li>• DO NOT tank-mix with <i>Basagran</i> – severe crop injury.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• Insecticide interaction: Consult label for organophosphate insecticide restrictions.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>

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## Corn – Postemergence – All Tillage Systems *(continued)*

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
<b>Annual grasses</b> <b>Annual broadleaves</b>	nicosulfuron + mesotrione <i>(Revulin Q)</i> + crop oil concentrate + ammonium sulfate	0.109	3.4 oz 51.2WG  + 1% + 2 lb	<ul style="list-style-type: none"> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Apply to corn up to 20 inches tall or V6 (6 visible collars), whichever is more restrictive. Drop nozzles can be used for directed applications up to 30 inch tall or V8 corn.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• <i>Revulin Q</i> can be applied up to 4 oz/A.</li> <li>• DO NOT tank-mix with <i>Basagran</i> – severe crop injury.</li> <li>• Consult label for preferred adjuvants for specific tank mixtures.</li> <li>• Insecticide interaction: Consult label for organophosphate insecticide interactions.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>

## TABLE 1E – Weed Control in Glyphosate-Resistant Corn

**RECOMMENDATIONS:** One application of glyphosate alone will not consistently provide season-long weed control. One of the three following strategies is recommended:

- 1) Soil-applied residual herbicide applied preemergence followed by glyphosate postemergence.
  - a) Preemergence herbicide options can be found in Tables 1A and 1C.
  - b) Glyphosate should be applied when weeds are 2-4 inches tall.
- 2) Postemergence tank-mixtures with glyphosate when weeds are 2-4 inches tall.
  - a) Several soil-applied residual herbicides can be tank-mixed with glyphosate and applied postemergence. Refer to Tables 1H and 1C for options. Tank-mixtures with some residual herbicides may cause temporary burn or discoloration.
  - b) There are many postemergence products that can be tank-mixed with glyphosate for additional weed control. Refer to Tables 1I and 1C for options.
  - c) There are several premixtures containing glyphosate that can be applied postemergence to glyphosate-resistant corn. Refer to Table 1B and the following section for options.
- 3) Split-applications of soil-applied residual herbicides with glyphosate.
  - a) Apply one-half to two-thirds of the soil-applied herbicide preemergence.
  - b) Apply the remainder of the soil-applied herbicide postemergence with glyphosate.

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<b>Annual grasses</b> <b>Annual broadleaves</b> <b>Suppression of</b> <b>perennials</b>	glyphosate + ammonium sulfate	0.75–1.13 a.e.	See Table 10 + 17 lb/100 gal	<ul style="list-style-type: none"> <li>• <b>APPLY TO GLYPHOSATE-RESISTANT CORN ONLY. See above recommendations for appropriate use of glyphosate in glyphosate-resistant corn.</b></li> <li>• Corn hybrids that are glyphosate-resistant are designated as <i>Roundup Ready Corn</i>, <i>Roundup Ready 2 Corn</i>, or <i>Glyphosate Tolerant (GT)</i>.</li> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Many glyphosate products are registered for application to glyphosate-resistant corn. Read the label and see Table 10 to determine application rates and additives needed for different products.</li> <li>• Addition of ammonium sulfate (17 lb/100 gal) will minimize antagonism from hard water and improve weed control if weeds are under stress or large.</li> <li>• Apply to corn up to 30 inches tall or 8 collars, whichever is more restrictive.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• Glyphosate applications to corn from 30 to 48 inches tall can be made with drop nozzles only – avoid application into the whorls.</li> <li>• Use a minimum rate of 0.75 lb a.e./A; however, a use rate 1.13 lb a.e./A of glyphosate should be applied for more consistent weed control.</li> <li>• Glyphosate application rate can be increased to 1.13 lb a.e./A to control larger weeds or weeds that are under stress.</li> <li>• DO NOT apply more than 2.25 lb a.e./A of glyphosate in-crop per season.</li> <li>• Allow a minimum of 50 days between postemergence application and harvest of forage.</li> <li>• Use extreme caution to avoid spray drift to sensitive crops.</li> <li>• Higher glyphosate rates and second application of glyphosate will improve control of perennial weeds.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>

*(Continued on next page)*



## Glyphosate-Resistant Corn (continued)

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
Annual grasses Annual broadleaves Suppression of perennials	mesotrione + glyphosate ( <i>Callisto GT</i> )	1.045	2 pt 4.18L	<ul style="list-style-type: none"> <li>• <b>APPLY TO GLYPHOSATE-RESISTANT CORN ONLY.</b></li> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Apply from corn emergence up to 30 inches tall or 8 collars, whichever is more restrictive.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• DO NOT tank-mix with emulsifiable concentrate grass herbicides – severe crop injury.</li> <li>• Insecticide interaction: Consult label for organophosphate and carbamate insecticide restrictions.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>
	+		+	
	surfactant		0.25%	
	+		+	
	ammonium sulfate		17 lb/100 gal	
	atrazine + s-metolachlor + glyphosate ( <i>Expert</i> )	3.66	3 qt 4.88SC	<ul style="list-style-type: none"> <li>• <b>APPLY TO GLYPHOSATE-RESISTANT CORN ONLY.</b></li> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Apply to corn up to 12 inches tall.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• <i>Expert</i> applications may cause some minor leaf burn.</li> <li>• <i>Expert</i> can be applied preplant or preemergence for all corn types in no-till production.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	+		+	
	ammonium sulfate		17 lb/100 gal	
	mesotrione + s-metolachlor + glyphosate ( <i>Halex GT</i> )	1.97	3.6 pt 4.38L	<ul style="list-style-type: none"> <li>• <b>APPLY TO GLYPHOSATE-RESISTANT CORN ONLY.</b></li> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Apply from corn emergence up to 30 inches tall or 8 collars, whichever is more restrictive.</li> <li>• Refer to Table 1I for maximum crop and weed heights. <i>Halex GT</i> does not contain a safener for preemergence applications.</li> <li>• DO NOT tank-mix with emulsifiable concentrate grass herbicides – severe crop injury.</li> <li>• Insecticide interaction: Consult label for organophosphate insecticide restrictions.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	+		+	
	surfactant		0.25%	
	+		+	
	ammonium sulfate		17 lb/100 gal	
	s-metolachlor + glyphosate ( <i>Sequence</i> )	1.64	2.5 pt 5.25L	<ul style="list-style-type: none"> <li>• <b>APPLY TO GLYPHOSATE-RESISTANT CORN ONLY.</b></li> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• See Table 1C for individual product rate equivalents for the premix.</li> <li>• Apply to corn up to 30 inches tall or 8 collars, whichever is more restrictive.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• <i>Sequence</i> can be applied preplant or preemergence for all corn types in no-till production.</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>
	+		+	
	ammonium sulfate		17 lb/100 gal	

*(Continued on next page)*

## Glyphosate-Resistant Corn *(continued)*

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<i>(continued)</i>				
<b>Annual grasses</b> <b>Annual broadleaves</b> <b>Suppression of</b> <b>perennials</b>	acetochlor <i>(Warrant)</i> + glyphosate + ammonium sulfate	1.125	3 pt 3CS + See Table 10 + 17 lb/100 gal	<ul style="list-style-type: none"> <li>• <b>APPLY TO GLYPHOSATE-RESISTANT CORN WHEN TANK-MIXED WITH GLYPHOSATE.</b></li> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Apply from corn emergence up to 30 inches tall or 8 collars, whichever is more restrictive.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• <i>Warrant</i> does not contain a safener for preemergence applications.</li> <li>• <i>Warrant</i> applied alone will not control emerged weeds, but will provide residual control of annual grasses and small seeded broadleaf weed species. Therefore, it is recommended <i>Warrant</i> be applied with postemergence weed control products (e.g., glyphosate).</li> <li>• Refer to label and Table 12 for crop rotation restrictions.</li> </ul>

## TABLE 1F – Weed Control in LibertyLink (Glufosinate-Resistant) Corn

**RECOMMENDATIONS:** One application of *Liberty* (glufosinate) alone will not consistently provide season-long weed control.

One of the two following strategies is recommended:

- 1) Soil-applied residual herbicide applied preemergence followed by *Liberty* postemergence.
  - a) Preemergence herbicide options can be found in Tables 1A and 1C.
  - b) *Liberty* should be applied when weeds are 2-4 inches tall.
- 2) Postemergence tank-mixtures with *Liberty* when weeds are 2-4 inches tall.
  - a) Several soil-applied residual herbicides can be tank-mixed with *Liberty* and applied postemergence. Refer to Tables 1H and 1C for options. Tank-mixtures with some residual herbicides may cause temporary burn or discoloration.
  - b) There are many postemergence products that can be tank-mixed with *Liberty* for additional weed control. Refer to Tables 1I and 1C for options.

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<b>Annual grasses</b> <b>Annual broadleaves</b>	glufosinate <i>(Liberty)</i> + ammonium sulfate	0.58	32 oz 2.34L + 17 lb/100 gal	<ul style="list-style-type: none"> <li>• <b>APPLY TO LIBERTYLINK OR GLUFOSINATE-RESISTANT CORN ONLY.</b></li> <li>• <b>See above recommendations for appropriate use of <i>Liberty</i> in LibertyLink corn.</b></li> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Always add ammonium sulfate at 8.5–17 lb/100 gal.</li> <li>• Apply from emergence up to V6 corn.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• Drop nozzles can be used to apply <i>Liberty</i> until 36 inch tall LibertyLink corn. Avoid spraying into the corn whorl.</li> <li>• DO NOT apply more than 87 oz/A of <i>Liberty</i> on corn per growing season.</li> <li>• Use a minimum carrier volume of 15 gallons per acre.</li> <li>• DO NOT use drift control agents — this reduces spray coverage and may result in reduced weed control.</li> <li>• DO NOT apply <i>Liberty</i> within 60 days of harvesting corn forage or within 70 days of harvesting corn grain.</li> <li>• <i>Liberty</i> is a contact herbicide that may provide some top growth control of perennial weeds.</li> <li>• Application should be made between dawn and 2 hours before sunset to avoid the risk of reduced control of lambsquarters and velvetleaf, optimum control is between 10:00 a.m. and 5:00 p.m.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>

## TABLE 1G – Weed Control in Enlist (2,4-D-Resistant) Corn

**RECOMMENDATIONS:** One application of 2,4-D choline containing herbicides alone will not consistently provide season-long weed control. One of the two following strategies is recommended:

- 1) Soil-applied residual herbicide applied preemergence followed by *Enlist One/Duo* postemergence.
  - a) Preemergence herbicide options can be found in Tables 1A and 1C.
  - b) *Enlist One/Duo* should be applied when weeds are 2-4 inches tall. Additional tank mix partners can be applied with these herbicides. Refer to [EnlistTankMix.com](http://EnlistTankMix.com) for options.
- 2) Postemergence tank-mixtures with *Enlist One/Duo* when weeds are 2-4 inches tall.
  - a) Several soil-applied residual herbicides can be tank-mixed with *Enlist One/Duo* and applied postemergence. Refer to [EnlistTankMix.com](http://EnlistTankMix.com) for options. Tank-mixtures with some residual herbicides may cause temporary burn or discoloration.
  - b) There are many postemergence products that can be tank-mixed with *Enlist One/Duo* for additional weed control. Refer to [EnlistTankMix.com](http://EnlistTankMix.com) for options.

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<b>Annual broadleaves</b>	2,4-D choline ( <i>Enlist One</i> )	0.71 a.e.	1.5 pt 3.8L	<ul style="list-style-type: none"> <li>• <b>APPLY PREPLANT, PREEMERGENCE, AND/OR POSTEMERGENCE TO ELIST TRAITED CORN.</b></li> <li>• Can be applied as a preplant burndown or used preemergence in non-Enlist traited corn.</li> <li>• Enlist traited corn is resistant to 2,4-D choline, glyphosate and aryloxyphenoxypropionate (FOPs) herbicides.</li> <li>• DO NOT mix any other herbicides or additives with <i>Enlist One</i> unless they are approved on the following website: <b><a href="http://EnlistTankMix.com">EnlistTankMix.com</a></b></li> <li>• See label for proper nozzle selection.</li> <li>• See label for protection of sensitive areas via buffer.</li> <li>• Apply to corn up to 30 inches tall or 8 collars, whichever is more restrictive.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• <i>Enlist One</i> applications to corn from 30 to 48 inches tall can be made with drop nozzles only – avoid application into the whorls.</li> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Maximum in-season use is one preemergence and two postemergence applications in Enlist traited corn.</li> <li>• Allow 12 days between sequential postemergence applications in Enlist traited corn.</li> <li>• DO NOT apply more than 4 pt/A in non-Enlist traited corn per growing season.</li> <li>• DO NOT apply more than 6 pt/A in Enlist traited corn per growing season.</li> <li>• DO NOT apply within 24 hours of predicted rainfall.</li> <li>• Refer to Table 1K for spring burndown applications.</li> <li>• Clethodim herbicides such as <i>Select</i> or <i>Select Max</i> may be used to control volunteer Enlist corn in the following soybean, sugarbeet, or dry bean crop.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>

*(Continued on next page)*

## Weed Control in Enlist (2,4-D-Resistant) Corn *(continued)*

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
<b>Annual grasses</b> <b>Annual broadleaves</b>	2,4-D choline + glyphosate <i>(Enlist Duo)</i>	1.44 a.e.	3.5 pt 3.3L	<ul style="list-style-type: none"> <li>• <b>APPLY PREPLANT, PREEMERGENCE, AND/OR POSTEMERGENCE TO ELIST TRAITED CORN.</b></li> <li>• Can be applied as a preplant burndown or used preemergence in non-Enlist treated corn.</li> <li>• Enlist treated corn is resistant to 2,4-D choline, glyphosate and aryloxyphenoxypropionate (FOPs) herbicides.</li> <li>• DO NOT mix any other herbicides or additives with <i>Enlist Duo</i> unless they are approved on the following website: <b>EnlistTankMix.com</b></li> <li>• The use of ammonium sulfate (17 lb/100 gal) is currently approved, check <b>EnlistTankMix.com</b> prior to making application to verify.</li> <li>• See label for proper nozzle selection.</li> <li>• See label for protection of sensitive areas via buffer.</li> <li>• Apply to corn up to 30 inches tall or 8 collars, whichever is more restrictive.</li> <li>• Refer to Table 1I for maximum crop and weed heights.</li> <li>• <i>Enlist Duo</i> applications to corn from 30 to 48 inches tall can be made with drop nozzles only – avoid application into the whorls.</li> <li>• Refer to Table 1B for weed control and crop tolerance ratings.</li> <li>• Maximum in-season use is one preemergence and two postemergence applications in Enlist treated corn.</li> <li>• Allow 12 days between sequential postemergence applications in Enlist treated corn.</li> <li>• DO NOT apply more than 9.5 pt/A in non-Enlist treated corn per growing season.</li> <li>• DO NOT apply more than 14.25 pt/A in Enlist treated corn per growing season.</li> <li>• DO NOT apply within 24 hours of predicted rainfall.</li> <li>• Refer to Table 1K for spring burndown applications.</li> <li>• Clethodim herbicides such as <i>Select</i> or <i>Select Max</i> may be used to control volunteer Enlist corn in the following soybean, sugarbeet, or dry bean crop.</li> <li>• Refer to Table 12 for crop rotation restrictions.</li> </ul>

## Table 1H – Delayed Applications of Soil Applied Herbicides in Corn

Preemergence herbicides should be applied as soon after planting as possible. Delayed application increases the risk of poor herbicide performance, especially for grass control. This table lists herbicides commonly applied preemergence that are also labeled for application after corn emergence. All the herbicide treatments should be applied with water as the carrier. Applying herbicides to emerged corn with 28% liquid nitrogen fertilizer as the carrier poses a risk of severe crop injury. Refer to the herbicide labels for information on application rates and specific restrictions for tank mixtures.

Herbicide	Maximum Corn Stage
Princep, Sharpen, Verdict	Before corn emergence
Balance Flexx	2 collars
Corvus	2 collars
Instigate	2 collars
Basis Blend	6 inches or 2 collars
Anthem MAXX, Anthem ATZ, Zidua	4 collars
Breakfree NXT, Breakfree NXT ATZ, Breakfree NXT Lite, Degree Xtra, FulTime NXT, Harness, Harness Xtra 5.6L, Keystone NXT, Keystone LA NXT, Surpass NXT, SureStart II, TripleFLEX II	11 inches
Harness MAX	11 inches
Resicore	11 inches
Atrazine	12 inches
Bicep II Magnum, Bicep Lite II Magnum, Cinch ATZ, Cinch ATZ Lite, Parallel Plus	12 inches
Acuron, Lexar EZ, Lumax EZ	12 inches
Outlook	12 inches
Resolve SG	12 inches or 5 collars
Accolade, Hornet WDG, Python, Stanza	20 inches or 6 collars
Acuron Flexi, Callisto, Zemax	30 inches or 8 collars
Prowl, Prowl H <sub>2</sub> O	30 inches or 8 collars
Dual II Magnum, Cinch, Parallel	40 inches

**TABLE 1I – Weed and Crop Heights for Postemergence Herbicide Applications in Corn\***

HERBICIDE <sup>b</sup>	RATE/A	ANNUAL BROADLEAVES											ANNUAL GRASSES							CORN			
		COCKLEBUR	JIMSONWEED	LAMBSQUARTERS	NIGHTSHADE (E. BLACK)	PALMER AMARANTH <sup>c</sup>	PIGWEEED	RAGWEED (COMMON)	RAGWEED (GIANT)	SMARTWEED	VELVETLEAF	WATERHEMP <sup>c</sup>	WILD MUSTARD	BARNYARDGRASS	CRABGRASS	GIANT FOXTAIL	GREEN FOXTAIL	YELLOW FOXTAIL	FALL PANICUM	WITCHGRASS	SANDBUR	MINIMUM <sup>a</sup> HEIGHT	MAXIMUM <sup>a</sup> HEIGHT
2,4-D amine/ester	1 pt/0.5 pt	4" NR	4" 4"	3" 4"	4" 4"	4" 4"	NR NR	4" 4"	NR NR	NR NR	3" 4"	4" 4"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	8"
Accent Q	0.9 oz	NR 3"	NR NR	NR NR	NR 4"	NR 4"	NR NR	NR 4"	NR NR	NR NR	NR NR	NR NR	4" NR	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 3"	NR NR	None	20" or 6 collars
Aim	0.5 oz	NR NR	NR 4"	2" 4"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	8 collars
Anthem ATZ	1 qt	NR 3"	2" 3"	- 3"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	4 collars
Anthem MAXX	4 oz	NR 2"	2" 2"	- 2"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	4 collars
Armezon/Impact	0.75 oz	8" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 8"	3" 8"	6" 6"	6" 6"	4" 3"	4" 3"	4" 3"	4" 3"	4" 3"	4" 3"	4" 3"	4" 3"	NR NR	NR NR	None	45 day PHI	
Armezon PRO	20 oz	5" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 5"	2" 4"	4" 4"	4" 4"	4" 3"	4" 3"	4" 3"	4" 3"	4" 3"	4" 3"	NR NR	NR NR	NR NR	NR NR	None	30" or 8 collars	
Atrazine 4L	2 qt	4" 4"	6" 4"	1.5" 6"	4" 4"	4" 4"	4" 4"	4" NR	1.5" 4"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	12"	
Banvel/Clarity	1 pt	4" 4"	4" 4"	3" 4"	4" 4"	4" 4"	6" NR	3" 2"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	8" or 5 lf	
Basagran/Broadloom	2 pt	10" 10"	2" NR	NR NR	NR 3"	6" 10"	5" NR	8" NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	None	
Beacon	0.76 oz	4" 4"	NR 4"	NR 4"	9" 9"	4" 4"	NR 4"	NR 4"	NR 4"	NR 4"	NR 4"	NR 4"	NR 4"	NR 4"	NR 4"	NR 4"	NR 4"	NR 4"	NR 4"	NR 4"	NR 4"	4"	20"
Buctril, Moxy, others	1 pt	8" 4"	6" 6"	NR NR	6" 6"	4" 3"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	d	
Cadet	0.9 oz	NR 2"	2" 2"	- 4"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	48" <sup>d</sup>
Callisto	3 oz	NR NR	5" 3"	5" 3"	5" 3"	5" 3"	5" 3"	5" 3"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	30" or 8 collars
Callisto Xtra	24 oz	10" 10"	10" 10"	3" 10"	10" 10"	10" 10"	10" 10"	10" 10"	10" 10"	10" 10"	10" 10"	10" 10"	NR 2"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	12"
Capreno	3 oz	6" 6"	6" 6"	3" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	5" 3"	3" 2"	3" 2"	3" 2"	5" 3"	3" 2"	NR NR	NR NR	1 collar	5 collars	
DiFlexx	8 oz	3" 3"	3" 3"	3" 3"	3" 3"	3" 3"	3" 3"	3" 3"	NR NR	3" 2"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	spike	36" or 6 collars
DiFlexx Duo	32 oz	6" 6"	6" 6"	4" 6"	6" 6"	6" 6"	6" 6"	6" 6"	4" 6"	6" 6"	5" 3"	3" 2"	3" 2"	3" 2"	- 2"	- 2"	- 2"	- 2"	NR NR	NR NR	None	36" or 6 collars	
Hornet WDG/Stanza	3 oz	6" NR	NR NR	NR NR	6" 6"	6" 6"	6" 6"	6" 6"	NR NR	6" 6"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	20" or 6 collars
Laudis	3 oz	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	5" 3"	3" 2"	3" 2"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	8 collars	
Permit	0.67 oz	9" 4"	NR NR	NR 3"	9" 3"	2" 9"	NR 4"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	Spike	canopy closure
Realm Q	4 oz	4" 4"	4" 4"	3" 4"	4" 4"	4" 4"	4" 4"	4" 4"	3" 4"	4" 4"	2" 1/2"	2" 2"	2" 2"	2" 2"	2" 2"	2" 2"	NR NR	NR NR	NR NR	NR NR	None	20" or 6 collars	
Resolve Q	1.25 oz	3" NR	3" NR	NR 3"	3" 3"	NR 3"	3" 3"	NR 3"	NR 3"	NR 3"	2" 0.5"	2" 2"	2" 2"	2" 2"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	20" or 6 collars	
Resource	4 oz	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	5 lf NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	2 lf	10 collars
Revulin Q	3.4 oz	4" 4"	4" 4"	3" 4"	3" 4"	3" 4"	4" 4"	4" 4"	3" 4"	4" 4"	4" 2"	4" 4"	4" 4"	4" 4"	4" 4"	6" 3"	NR NR	NR NR	NR NR	NR NR	None	20" or 6 collars	
Solstice	3 oz	NR 2"	5" 5"	3" 5"	3" 5"	3" 5"	3" 36"	3" 5"	NR NR	NR NR	NR 3"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	30" or 8 collars	
Steadfast Q	1.5 oz	NR 4"	NR NR	NR 4"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	4" NR	4" 4"	4" 4"	4" 4"	4" 4"	4" 2"	NR NR	NR NR	NR NR	NR NR	None	20" or 6 collars	
Status	5 oz	6" 6"	6" 6"	3" 6"	6" 6"	6" 6"	6" 6"	6" 6"	3" 2"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	4"(V2)	36"(V8)	
Stinger	0.25 pt	5 lf 5 lf	NR NR	NR NR	5 lf 5 lf	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	24"	
Yukon	4 oz	14" 4"	6" 6"	NR 12"	12" NR	3" 12"	NR 6"	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	spike	36"	
<b>GLYPHOSATE-RESISTANT CORN</b>																							
glyphosate	0.75-1.13 lb a.e.	6" 6"	3" 4"	NR 4"	4" 4"	6" 4"	4" 4"	NR 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	None	30" or 8 collars
Callisto GT	2 pt	4" 4"	4" 4"	3" 4"	4" 4"	4" 4"	4" 4"	3" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	None	30" or 8 collars
Expert	3 qt	6" 6"	3" 4"	3" 4"	4" 6"	4" 4"	4" 3"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	None	12"
Halex GT	3.6 pt	4" 4"	4" 4"	3" 4"	4" 4"	4" 4"	4" 4"	3" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	4" 4"	spike	30" or 8 collars
Sequence	2.5 pt	12" 12"	6" 6"	NR 12"	12" 12"	12" 6"	6" 6"	NR 12"	6" 12"	18" 18"	18" 6"	12" 12"	6" 12"	18" 18"	18" 6"	12" 12"	NR NR	NR NR	NR NR	NR NR	NR NR	None	30" or 8 collars
Warrant + glyphosate	3 pt + 0.75 lb a.e.	6" 6"	3" 4"	NR 4"	4" 4"	6" 4"	4" 4"	NR 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	spike	30" or 8 collars
<b>LIBERTYLINK CORN</b>																							
Liberty <sup>e</sup>	32 oz	6" 6"	2" 6"	2" 3"	6" 6"	6" 6"	6" 3"	2" 4"	3" 3"	6" 6"	3" 3"	6" 3"	4" NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	NR NR	None	24" or 7 collars
<b>ENLIST CORN</b>																							
Enlist One	1.5 pt	6" 6"	6" 6"	3" 6"	6" 6"	6" 6"	6" 6"	6" 6"	3" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	None	30" (V8)
Enlist Duo	3.5 pt	6" 6"	6" 6"	3" 6"	6" 6"	6" 6"	6" 6"	6" 6"	3" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	None	30" (V8)

(Continued on next page)

## **TABLE 1I – Weed and Crop Heights for Postemergence Herbicide Applications in Corn\* (*continued*)**

<sup>a</sup> NR = not recommended; – = not enough information to rank; lf=leaf stage.

<sup>b</sup> Consult label for recommended additives.

<sup>c</sup> Almost all populations of Palmer amaranth and waterhemp found in Michigan are resistant to the ALS-inhibiting herbicides (Group 2) and glyphosate (Group 9).

<sup>d</sup> Before tassel emergence.

<sup>e</sup> The inclusion of atrazine is beneficial for control of herbicide-resistant Palmer amaranth and waterhemp.

\* The weed heights and growth stages listed in this table are estimates of the maximum size where consistent control is expected. The maximum height for effective control in any specific situation is dependent on environment conditions, including soil moisture, temperature, and relative humidity.