TABLE 1A – Weed Response to Soil-Applied Herbicidesin Corn*

Solid Applied Solid Ap						AN	NU	AL	BR	OA	DL	EA	/ES	\$			ANI	NU		GR	AS	SES	6	PE	ERI	ENM	IIA	LS
BALANCE FLEXX 27 2 P E E F Q E Q E P	Soil Applied	SITE OF ACTION	CORN TOLERANCE**	COCKLEBUR	JIMSONWEED	LAMBSQUARTERS	NIGHTSHADE (E. BLACK)	PALMER AMARANTH ^a	PIGWEED	RAGWEED (COMMON)	RAGWEED (GIANT)	SMARTWEED	VELVETLEAF	WATERHEMP ^a	WILD MUSTARD	BARNYARDGRASS	CRABGRASS	GIANT FOXTAIL	GREEN FOXTAIL	YELLOW FOXTAIL	FALL PANICUM	WITCHGRASS	SANDBUR	CANADA THISTLE	QUACKGRASS	YELLOW NUTSEDGE	JOHNSONGRASS (seedling)	JOHNSONGRASS (Rhizome)
BALANCE FLEXX 27 2 P E E F G E G E G F G F P P P P P P P P P P P P P P P P F P	ATRAZINE	5	1	F	F	E	Е	G	G	Е	G	G	F	G	Е	G	Р	F	F	G	Ρ	Ρ	Ρ	F	Ρ	F	Ν	N
SURPASS NXT 15 2 P N F G G G G F <t< td=""><td>BALANCE FLEXX</td><td>27</td><td>2</td><td>Р</td><td>Ε</td><td>E</td><td>Е</td><td>F/G</td><td>Е</td><td>Ε</td><td>F</td><td>G</td><td>Е</td><td></td><td>Е</td><td>G</td><td>F</td><td>G</td><td>G</td><td>F</td><td>Ρ</td><td>Ρ</td><td>F</td><td>Р</td><td>Ρ</td><td>Ρ</td><td>G</td><td>F</td></t<>	BALANCE FLEXX	27	2	Р	Ε	E	Е	F/ G	Е	Ε	F	G	Е		Е	G	F	G	G	F	Ρ	Ρ	F	Р	Ρ	Ρ	G	F
CALLISTO 27 1 P G E E G E F F E G G N		/																										
CALLISTO 27 1 P G E E G E F F E G G N			2	Р	Ν	F	G	G	G	F	Ν	Ρ	Ρ	G	Ρ	E	Е	Е	Е	Е	Е	Е	F	N	Ν	F	Ρ	Ν
DUAL II MAGNUM/ 1 N N P F F G Q P N Q P R Q P N Q P N P N P N P N P N P P E F P N N P P N N P			-	Р	G	E				F		E	E			Ν	Ρ	Ν	Ν	Ν		Ν		Р	Ν		Ν	
CINCH/PARALLEL 15 1 N N P F F/G Q P N P F P B N P F P R P P F P P P P F P																								· ·				
OUTLOOK 15 2 N N P Q F Q P N F P E E E E E E F N N P N N P N N P P N P P R F F E E F F F F F F F F F F F F F F F F F P<		15	1	N	Ν	Р	F	F/ G	G	Р	Ν	Р	Ν	G	Р	E	Е	Е	Е	Е	Е	Е	F	N	Ν	F	Р	Ν
PRINCEP 5 1 F F E F Q F F Q P </td <td></td> <td></td> <td>-</td> <td>-</td> <td></td>			-	-																								
PROWL H2O ^b (PRE only) 3 3 N N G P P P N P P P C G <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>							-																					
PYTHON 2 3 F F E G N E P <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td></td>		-	-						-		-	-				-												
RESOLVE SG 2 1 G F P N E F P F F N E G F C G F P			L			-				-													-	<u> </u>				
SHARPEN 14 2 G G G F G G G G N<				<u> </u>			-					-	-			· ·						·						
VALOR ⁰ (7d EPP or more) 14 2 P F G G F F F G Q F F F F P N N P P N P P N N P P N N P P N N P P N N P P N N P P N N P P N N P P N N P N N F N N F N N F N N P N N P N N P N N P N N P N N P N N P N N P N N N N N N N			<u> </u>	· ·		-					-					-							-	· ·			-	
ZIDUA 15 1 P F F G G E F F E <td></td> <td></td> <td></td> <td><u> </u></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>				<u> </u>	-	-	-	-		-	-	-	-		-									-				
Premixes A V<				<u> </u>					-						-													
ACURON FLEXI 15/27/27 1 G G E E G G E E G G E E G G E E G G E E G G E	Premixes																											
ANTHEM MAXX 15/14 2 P F G G E F G F E	ACURON	5/15/27/27	1	G	G	E	Ε	Ε	Ε	Ε	G	Ε	Ε	Ε	Ε	Ε	E	E	Е	Ε	Ε	Ε	F	F	Ρ	F	F	Ν
ANTHEM ATZ 15/14/5 1 P F G E G E F P P N N P P P E E E E E E E E E F P P N E E E E E F P N E F P P N E F P P R R E E E E E E E E E E E E F P N F P N	ACURON FLEXI	15/27/27	1	G	G	E	Ε	G	Ε	Ε	G	Ε	Ε	G	G	Ε	Ε	Ε	Е	Ε	Ε	Ε	F	F	Ν	F	Ρ	Ν
ARMEZON PRO 15/27 2 N N P G F G P N F P E F P P N N P P P N D	ANTHEM MAXX	15/14	2	Ρ	F	F	G	G	Ε	F	Ν	F	F	G	F	Ε	Ε	Ε	Е	Ε	Ε	Ε	F	Ν	Ν	F	F	Ν
BASIS BLEND 2/2 1 G F G P N E F P F G G G F P N E <	ANTHEM ATZ	15/14/5	1	Ρ	F	G	Ε	G	Е	G	F	F	F	G	Е	Е	Е	Е	Е	Е	Ε	Е	F	Ν	Ν	F	F	Ν
BICEP II LITE MAGNUM/ CINCH ATZ LITE 5/15 1 F F G E F G 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 G G F G E E E E E E F F P N F P N PARALLEL PLUS 5/15 1 F F E G G F G E E E E E E E F F P N F P N BREAKFREE NXT LITE/DEGREE XTRA/ F F G G F F F G E<	ARMEZON PRO	15/27	2	Ν	Ν	Ρ	G	F	G	Ρ	Ν	Ρ	Ν	F	Ρ	Ε	Ε	Ε	Ε	Ε	Ε	Ε	F	Ν	Ν	Ρ	Ρ	Ν
CINCH ATZ LITE 5/15 1 F G E F<	BASIS BLEND	2/2	1	G	F	G	Ρ	Ν	Е	F	Ρ	F	F	Ν	Ε	G	F	G	G	G	F	F	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ
BICEP II MAGNUM/CINCH ATZ/ PARALLEL PLUS 5/15 1 F F E G G F G E F F P N F P N F P N F P N F P N F F N <	BICEP II LITE MAGNUM/																											
PARALLEL PLUS 5/15 1 F F E E G G F G E E E E F F P F P	CINCH ATZ LITE	5/15	1	F	F	G	Е	F/ G	G	G	F	F	F	G	Е	Е	Е	Е	Е	Е	Е	Е	F	Р	Ν	F	Ρ	Ν
BREAKFREE NXT LITE/DEGREE XTRA/ F F G E G G F F G E E E E E E E E E F P N F P N KEYSTONE LA NXT 5/15 2 F F G E F F G E	BICEP II MAGNUM/CINCH AT	Z/																										
FULTIME NXT/ F F F G E G G F F G E E E E E E E E E E E E E E E F P N F P N BREAKFREE NXT ATZ/HARNESS XTRA/ V V V V V V V V V V N F P N F P N F P N F P N F P N F P N F P N F P N F P N F P N F P N	PARALLEL PLUS	5/15	1	F	F	Е	Е	G	G	Е	G	G	F	G	Е	E	Е	Е	Е	Е	Е	Е	F	F	Ρ	F	Ρ	Ν
KEYSTONE LA NXT 5/15 2 F G E G F F F G E F P N F P N F P N F P N F P N F P N F P N F P N F P N F P N F P N F P N F P N F P N BREAKFREE NXT ATZ/HARNESS XTRA/ 2 F F F G G F G G E E E E E E E E E F F F F G E E E E E E E E E E E E	BREAKFREE NXT LITE/DEGRI	EE XTRA/																										
BREAKFREE NXT ATZ/HARNESS XTRA/ KEYSTONE NXT 5/15 2 F F E G G F G E F F F P F P N CORVUS 2/27 2 G E E F G E E G E E F F F R G E F F G G E E F F F G	FULTIME NXT/																											
BREAKFREE NXT ATZ/HARNESS XTRA/ KEYSTONE NXT 5/15 2 F F E G G F G E F F F P F P N CORVUS 2/27 2 G E E F G E E G E E F F F R G E F F G G E E F F F G	KEYSTONE LA NXT	5/15	2	F	F	G	Е	G	G	G	F	F	F	G	Е	E	Е	Е	Е	Е	Е	Е	F	Р	Ν	F	Ρ	Ν
CORVUS 2/27 2 G E E F/G E E G E E G E E G E E G E E G E E G E E G E E G E E E E E E E E E E E E E E E E E E G P F P G F FIERCE ^C 7/d EPP or more) 14/15 2 P F G G F F F G G G G G F F N HARNESS MAX 15/27 1 P G E G F F E G G E <td>BREAKFREE NXT ATZ/HARN</td> <td>ESS XTRA/</td> <td></td>	BREAKFREE NXT ATZ/HARN	ESS XTRA/																										
CORVUS 2/27 2 G E E F/G E E G E E G E E G E E G E E G E E G E E G E E G E E E E E E E E E E E E E E E E E E G P F P G F FIERCE ^C 7/d EPP or more) 14/15 2 P F G G F F F G G G G G F F N HARNESS MAX 15/27 1 P G E G F F E G G E <td>KEYSTONE NXT</td> <td>5/15</td> <td>2</td> <td>F</td> <td>F</td> <td>Е</td> <td>Е</td> <td>G</td> <td>G</td> <td>Е</td> <td>G</td> <td>G</td> <td>F</td> <td>G</td> <td>Е</td> <td>E</td> <td>Е</td> <td>Е</td> <td>Е</td> <td>Е</td> <td>Е</td> <td>Е</td> <td>F</td> <td>F</td> <td>Р</td> <td>F</td> <td>Ρ</td> <td>Ν</td>	KEYSTONE NXT	5/15	2	F	F	Е	Е	G	G	Е	G	G	F	G	Е	E	Е	Е	Е	Е	Е	Е	F	F	Р	F	Ρ	Ν
FIERCE ^C (7d EPP or more) 14/15 2 P F G G E G F F F G <		2/27		G	Е	E	Е									-								Р	F	Ρ	G	
HARNESS MAX 15/27 1 P G E E G E E G G E E G G E				<u> </u>												-								Ν		F		<u> </u>
HORNET WDG 2/4 3 G F E G N E G G N <t< td=""><td></td><td></td><td></td><td>-</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>				-		-																						
INSTIGATE 2/27 2 G G E F E E F E G G G F P <t< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td></t<>					-									-	-												-	
LEXAR EZ/LUMAX EZ 5/27/15 1 F G E E G/E E G E E E E E E E E E E F F P F P N		-		· ·																								
				· ·	-																						•	
	PREQUEL ^d	2/27	2	<u>-</u>	G	E	G					G	Ē										P	P	P	P		F

(continued)

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

					AN	NU	AL	BR	OA	DL	EA	/ES	\$		1	ANI	NU/	AL (GR	AS	SES	5	PE	ERE	INN	IIAI	LS
Soil Applied	SITE OF ACTION	CORN TOLERANCE**	COCKLEBUR	JIMSONWEED	LAMBSQUARTERS	NIGHTSHADE (E. BLACK)	PALMER AMARANTH ^a	PIGWEED	RAGWEED (COMMON)	RAGWEED (GIANT)	SMARTWEED	VELVETLEAF	WATERHEMP^a	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	Е	Е	G/E	Е	G	F	Е	Е	G/E	Е	Е	Е	Е	Е	Е	Е	Е	F	Р	Ν	F	Ρ	Ν
SURESTART II/TRIPLEFLEX II ^d	2/4/15	3	G	F	Е	G	F	Е	G	F	G	G	F	Е	Е	Е	Е	Е	Е	Е	Е	F	Ρ	Ν	F	Ρ	Ν
VERDICT ^d	14/15	2	G	G	G	G	F	Е	G	F	G	G	G	G	G	G	G	G	G	G	G	F	Ρ	Ν	Ρ	Ρ	Ν
ZEMAX	27/15	1	Ρ	G	Ε	Ε	G	Е	F	F	Е	Ε	G	G	E	Ε	Е	Е	Ε	Ε	Е	F	Ρ	Ν	F	Ρ	Ν

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.

^a 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 213-216.

^b DO NOT incorporate Prowl H₂O and corn should be planted a minimum of 1.5-inches deep.

^c Valor or Fierce must be applied at least 7 day before planting, for use only in no-till corn.

^d 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*

					AN	NU	AL	BR	OA	DL	EA	/ES	6			ANN	NUA		GR/	ASS	SES	;	PE	RE	NN	IAI	S
Postemergence	SITE OF ACTION	CORN TOLERANCE**	COCKLEBUR	JIMSONWEED	LAMBSQUARTERS	NIGHTSHADE (E. BLACK)	Palmer amaranth ^a	PIGWEED	RAGWEED (COMMON)	RAGWEED (GIANT)	SMARTWEED	VELVETLEAF	WATERHEMP^a	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	Ρ	F	F/ G	G	N	Ν	Ν	Ν	Ν	Ν	Ν	Ν	F	Ν	Ν	Ν	Ν
ACCENT Q	2	2	F	G	F	Ρ	Na	Ε	Ρ	Ν	G	F	Na	Ρ	E	Ρ	E	Е	Е	Е	Е	G	F	G	F	Е	G
AIM	14	3	Р	F	F	G	Ρ	G	Р	Р	Р	E	Р	F	Ν	Ν	Ν	Ν	Ν	Ν	Ν	N	Ν	N	Ν	Ν	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	Ε	G	G	Ε	E	G	G	F	G	E	F	Ρ	F	F	F	Ρ	Ρ	Ρ	F	F	F	Ν	Ν
BANVEL/CLARITY	4	3	G	G	G	G	G	G	G	E	E	F	G	G	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	F	Ν	Ν	Ν	Ν
BASAGRAN/BROADLOOM	6	1	E	G	F	P	N	P	F	P	G	F	N	E	N	N	N	N	N	N	N	N	G	N	G	N	N
BEACON	2	2	E	G	F	G	Na	Ε	E	Е	G	G	Na	F	Р	Ρ	F	F	F	G	G	F	F	G	F	G	F
BUCTRIL/MOXY	6	2	G	G	E	G	Ν	F	G	G	G	G	Ν	F	Ν	Ν	Ν	Ν	Ν	N	Ν	Ν	Ρ	N	Ν	N	Ν
CADET	14	2	Р	G	F	F	Ρ	G	Ρ	Ρ	Ρ	Ε	Ρ	Ρ	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν
CALLISTO	27	1	F	E	Е	Е	F	G	G	G	E	Е	G	Е	Ν	Fb	Ν	Ν	Ν	Ν	Ν	Ν	Ρ	Ν	Ρ	Ν	Ν
DIFLEXX	4	2	G	G	G	G	G	G	G	E	E	F	G	G	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	F	Ν	Ν	Ν	Ν
LAUDIS	27	1	G	E	E	E	G	E	G	G	G	E	G	F	G	F	G	G	E	Ν	Ρ	F	Р	Ρ	Р	F	Р
PERMIT	2	1	E	G	N	P	Na		G	G	F	G	Na	E	N	N	N	N	N	N	N	N	P	N	E	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	Ρ	F	Ρ	Ρ	E	E	F	Ρ	Р	Ρ	N	Ν	Ν	Ν	Ν	Ν	Ν	Ν	E	Ν	Ν	Ν	Ν
Premixes																											
ANTHEM MAXX	14/15	2	Р	G	F	F	Р	G	Р	Р	Р	Е	Р	Ρ	N	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν
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
ARMEZON PRO	15/27	1	G	Ē	Ē	E	G	E	Ē	G	G	Ē	G	G	G	G	E	Ē	G	G	G	F	F	P	P	F	P
CALLISTO XTRA	5/27	1	G	Ē	Ē	Ē	G	Ē	Ē	G	G	Ē	G	G	N	Fb	N	N	N	N	N	N	F	N	P	N	N
CAPRENO	2/27	2	G	Ē	G	E	F	Ē	G	G	G	Ē	F	G	G	G	G	G	E	G	G	F	P	F	P	E	G
DIFLEXX DUO	4/27	2	G	Ē	E	Ē	G	Ē	E	E	E	Ē	G	G	F	P	F	F	G	N	N	P	F	P	P	P	P
HORNET WDG	2/4	2	Ē	F	F	F	Na	P	E	E	G	G	Na	G	N	N	N	N	N	N	N	N	E	N	N	N	N
IMPACTZ	5/27	1	G	E	Ē	Ē	G	Ē	E	G	G	E	G	E	G	G	E	G	G	G	G	F	F	F	F	F	P
REALM Q	2/27	2	G	E	Ē	E	P	E	G	F	E	E	F	E	G	F	G	G	G	G	G	P	F	F	P	F	N
RESOLVE Q	2/2	2	G	P	G		Na		F		G	F		E	G	F	G	G			G	P	F	F	P	F	N
REVULIN Q	2/27	2	F	Ē	E	Ē	P	E	G	F	E	Ē	F	E	E	Fb	E	E	E	E	E	G	F	G	F	Ē	G
STATUS	4/19	2	E	G	E	G	G	E	E	Ē	E	G	G	G	P	P	P	P	P	P	P	P	G	N	N	N	N
STEADFAST Q	2/2	2	F	G	F	P	Na		P	N	G	F	Na	G	E	F	E	E	E	E	E	G	F	G	F	E	G
YUKON	2/2	2	E	G	G	G		E	G	G	G		Na			N	N	N	N			N	P	N	E	N	N
Glyphosate-Resistant C		2	-	u	u	u	IN ²	-	u	u	u	u	IN ²	-		IN	IN	IN	IN	IN	IN		Г	IN	-		
GLYPHOSATE	9	1	E	E	G	G	Na		G	G	G	G	Na	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	G	E	F	E	<u>E</u>
HALEX GT	9/15/27	1	E	E	E	E	F	Ε	G	G	E	E	G	E	E	E	E		E	E	E	E	G	E	F	E	E
SEQUENCE	9/15	1	E	Ε	G	G	Na		G	G	G	G	Na	Ε	E	E	E		Ε	Е	Е	E	G	Ε	F	Ε	E
WARRANT + GLYPHOSATE	9/15	1	E	E	G	G	Na	Ε	G	G	G	G	Na	E	E	E	E	Ε	Ε	Ε	E	Ε	G	Ε	F	E	E
LibertyLink Corn																											
LIBERTY	10	1	E	G	F	G	G	G	E	G	G	G	G	Е	F	F	G	G	F	F	F	Ρ	Ρ	Ρ	Ρ	G	F

(continued)

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

					AN	NU	AL	BR	OA	DL	EA	/ES	;			ANI	NU	AL	GR	AS	SES	6	PI	ERE	INN	IAI	S
Postemergence	SITE OF ACTION	CORN TOLERANCE**	COCKLEBUR	JIMSONWEED	LAMBSQUARTERS	NIGHTSHADE (E. BLACK)	PALMER AMARANTH ^a	PIGWEED	RAGWEED (COMMON)	RAGWEED (GIANT)	SMARTWEED	VELVETLEAF	WATERHEMP ^a	WILD MUSTARD	BARNYARDGRASS	CRABGRASS	GIANT FOXTAIL	GREEN FOXTAIL	YELLOW FOXTAIL	FALL PANICUM	WITCHGRASS	SANDBUR	CANADA THISTLE	QUACKGRASS	YELLOW NUTSEDGE	JOHNSONGRASS (seedling)	JOHNSONGRASS (Rhizome)
Enlist (2,4-D resistant) C	Corn																										
Enlist One	4	1	G	F	G	G	G	G	G	G	Ρ	F	G	G	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	F	Ν	Ν	Ν	Ν
Enlist Duo	4/9	1	E	Ε	G	G	G	Е	G	G	G	G	G	Ε	E	Ε	Ε	Е	Ε	Е	Е	Е	G	Ε	F	Е	Е

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.

^a 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 213-216.

^b Large crabgrass only.

TABLE 1C – Herbicide Premixes in Corn

Soil Applied

TRADE NAME	COMPANY	FORMULATION	TYPICAL USE RATE ^a	=	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 + 5 oz Zidua SC
Anthem ATZ	FMC	4.5SC	2.5 pt/A	=	1.25 qt atrazine 4L + 0.625 oz Cadet + 4.65 oz Zidua SC
Armezon PRO	BASF	5.35EC	20 oz/A	=	0.71 oz Armezon + 17.5 oz Outlook
Basis Blend	Corteva	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	Corteva	5.6L	2.4 qt/A	=	2.2 pt Breakfree NXT + 1.5 qt atrazine 4L
Breakfree NXT Lite	Corteva	6L	2 qt/A	=	2.5 pt Breakfree NXT + 0.85 qt atrazine 4L
Cinch ATZ	Corteva	5.5F	2.1 qt/A		1.33 pt Cinch + 1.6 qt atrazine 4L
Cinch ATZ Lite	Corteva	6F	1.5 qt/A	=	1.33 pt Cinch + 1 qt atrazine 4L
Corvus	Bayer	2.63SC	5.6 oz/A	=	5.26 oz Balance Flexx + 0.033 lb ai thiencarbazone
Degree Xtra	Bayer	4L	3 qt/A	=	2.3 pt Harness + 1 qt atrazine 4L
Fierce ^b	Valent	76WG	3 oz/A	=	1.97 oz Valor + 2.4 oz Zidua SC
FulTime NXT	Corteva	4L	3 qt/A	=	2.3 pt Surpass + 1 qt atrazine 4L
Harness MAX	Bayer	3.82L	75 fl oz/A	=	2.35 pt Harness + 6.18 oz Callisto
Harness Xtra 5.6L	Bayer	5.6L	2.4 qt/A	=	2.2 pt Harness + 1.5 qt atrazine 4L
Hornet WDG	Corteva	68.5WG	3 oz/A	=	0.7 oz Python + 0.25 pt Stinger
Instigate	Corteva	45.8WG	6 oz/A	=	5 oz Callisto + 1 oz Resolve SG
Keystone NXT	Corteva	5.6L	2.4 qt/A	=	2.2 pt Surpass NXT + 1.5 qt atrazine 4L
Keystone LA NXT	Corteva	6L	2 qt/A	=	2.5 pt Suprass NXT + 0.85 qt atrazine 4L

See footnotes at the end of the chart.

TABLE 1C - Herbicide Premixes in Corn (continued)

Soil Applied (continued)

TRADE NAME	COMPANY	FORMULATION	TYPICAL USE RATE ^a	=	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	ADAMA	5.5SL	2.3 qt/A	=	1.6 pt Parallel + 1.6 qt atrazine 4L
Prequel ^b	Corteva	45WG	1.66 oz/A	=	1 oz Balance PRO + 1 oz Resolve SG
Resicore	Corteva	3.29SE	2.75 qt/A	=	2.2 pt Surpass NXT + 6.6 oz Callisto + 5.6 oz Stinger
SureStart II ^b	Corteva	4.16SE	2 pt/A	=	1.07 pt Surpass NXT + 3 oz Stinger + 0.6 oz Python
TripleFLEX II ^b	Bayer	4.16SE	2 pt/A	=	1.07 pt Harness + 3 oz Stinger + 0.6 oz Python
/erdict ^b	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 + 4 oz Zidua SC
Anthem ATZ	FMC	4.5SC	1 qt/A	=	3.7 oz Zidua SC + 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 ^c	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	3.45SC	3 oz/A	=	2.5 oz Laudis + 0.01 lb ai thiencarbazone-methyl
DiFlexx DUO	Bayer	2.13SC	32 oz/A	=	2.46 oz Laudis + 10 oz DiFlexx
Enlist Duo ^d	Corteva	3L	3.5 pt/A	=	0.7 lb a.e. 2,4-D + 0.74 lb a.e. glyphosate
Halex GT ^c	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 ^a	=	EQUIVALENT RATES
Hornet WDG	Corteva	68.5WG	3 oz/A	=	0.7 oz Python + 0.25 pt Stinger
ImpactZ	AMVAC	4.26SC	8 fl oz/A	=	0.74 oz Impact + 0.25 qt atrazine 4L
Realm Q	Corteva	38.75WG	4 oz/A	=	1.2 oz Resolve + 2.5 oz Callisto
Resolve Q	Corteva	22.4WG	1.25 oz/A	=	0.9 oz Resolve + 0.1 oz Harmony SG
Revulin Q	Corteva	51.2WG	3.4 oz/A	=	0.9 oz Accent Q + 2.5 oz Callisto
Sequence ^c	Syngenta	5.25L	2.5 pt/A	=	0.98 pt Dual Magnum + 0.7 lb a.e. glyphosate
Status	BASF	56WG	5 oz/A	=	4 oz Clarity + 0.05 lb ai diflufenzopyr
Steadfast Q	Corteva	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

^a Rates recommended are for medium textured soils with 3% organic matter.

^b 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.

^c Postemergence applications should only be made to glyphosate-resistant corn.

^d 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.

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
Annual grasses	pyroxasulfone + fluthiacet (Anthem MAXX)	0.168	5 oz 4.3SE	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Anthem MAXX use rates are based on soil texture and organic matter. Anthem MAXX 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 corrunless resistant weeds are present. Anthem MAXX should be used as part of a planned preemergence followed by postemergence herbicide program. May be applied postemergence. Refer to the postemergence application section for Anthem MAXX and Table 1I. Refer to Table 12 for crop rotation restrictions.
	topramezone + dimethenamid-P (<i>Armezon PRO</i>)	0.835	20 oz 5.35L	 May be applied preemergence. Refer to Table 1A for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Atrazine at 1 lb ai/A may be applied with Armezon PRO to increase the spectrum of weeds controlled. Refer to label and Table 12 for crop rotation restrictions.
	s-metolachlor (Dual II Magnum, Cinch)	1.27	1.33 pt 7.64EC	 May be applied preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. Dual II Magnum and Cinch contain a safener which increase corn tolerance to s-metolachlor. Increase the rate to 1.66 pt/A for effective nutsedge control. Nutsedge control is improved when s-metolachlor is incorporated. May be applied postemergence on corn up to 40 inches tall, but this application alone will not control emerged weeds. Refer to Table 1H. Refer to Table 12 for crop rotation restrictions.

	<u> </u>	Applied		e Systems (continued)
Weed Controlled	Herbicide	Rate Ib/A a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual grasses	(Harness, Breakfree NXT, 1.97 2.25 pt Surpass NXT)	2.25 pt 7EC	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. <i>Harness, Breakfree NXT</i>, and <i>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. 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. All commercial acetochlor products contain a safener that increases corn tolerance. Application rate varies by soil type. EC formulations of acetochlor require less rainfall for incorporation compared with s-metolachlor or pendimethalin. May be applied postemergence on corn up to 11 inches tall, but this application alone will not control emerged weeds. Refer to Table 12 for crop rotation restrictions. 	
		0.84	18 oz 6EC	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. Increase the rate to 21 oz/A for effective nutsedge control. Nutsedge control is improved when incorporated. <i>Outlook</i> rates vary with soil texture and organic matter from 12 to 21 oz/A May be applied postemergence on corn up to 12 inches tall, but this application alone will not control emerged weeds. Refer to Table 1H. Refer to Table 12 for crop rotation restrictions.
	metolachlor (Parallel, others)	1.3	1.33 pt 7.8L	 May be applied preplant, preplant incorporated or preemergence. Parallel 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, Parallel 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). Refer to Table 1A for weed control and crop tolerance ratings. <i>Parallel</i> contains a safener which increases corn tolerance to metolachlor. May be applied postemergence on corn up to 40 inches tall, but this application alone will not control emerged weeds. Refer to Table 1H. Refer to Table 12 for crop rotation restrictions.

	Corn – So	il Applied	– All Tillage	e Systems (continued)
Weed Controlled	Herbicide	Rate Ib/A a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual grasses	pendimethalin <i>(Prowl)</i> OR (Prowl H ₂ O)	1.5 OR 1.4	3.6 pt 3.3EC OR 3 pt 3.8AS	 DO NOT apply preplant incorporated. Refer to Table 1A for weed control and crop tolerance ratings. 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. Apply after planting. Plant at least 1.5 inches deep. Adjust rate according to soil type. DO NOT use on sandy soil with less than 1.5% organic matter. 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. Refer to Table 12 for crop rotation restrictions.
	rimsulfuron (Resolve SG)	0.016	1 oz 25WG	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. DO NOT apply to seed corn. DO NOT apply preemergence to coarse-textured soils (sand, loamy sand or sandy loam) with less than 1% organic matter. Atrazine at 1 lb a.i./A tank mixed with <i>Resolve</i> will improve control of broadleaf weeds. Insecticide interaction. Allow at least 60 days between a preemergence Resolve SG application and application of an organophosphate insecticide. Refer to Table 1L. 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. Refer to Table 12 for crop rotation restrictions.
	pyroxasulfone (Zidua) OR (Zidua SC)	0.133	2.5 oz 85WG OR 4 oz 4.17SC	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. Application rate varies with soil texture and application timing from 1.5 to 4 oz/A. 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 WG</i>; 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 SC</i>. DO NOT use on peat or muck soils with 10% or more organic matter. May be applied postemergence up to 4 collar (V4) corn, but this application alone will not control emerged weeds. Refer to Table 1H. 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 SC</i>, 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.

				e Systems (continued)
Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
Annual broadleaves	atrazine (<i>AAtrex</i> , others)	1	1 qt 4L OR 1.1 lb 90WG	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. Mixing, loading, and application setbacks are required for atrazine. See page 12 or label for details. 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. May be applied postemergence on corn up to 12 inches tall. Refer to Table 1H and the postemergence application section for atrazine. Refer to Table 12 for crop rotation restrictions.
_	mesotrione <i>(Callisto)</i>	0.188	6 oz 4SC	 May be applied preplant or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. Mesotrione can be applied preemergence to field corn, seed corn, sweet corn, and yellow popcorn. Tank mixes with atrazine (1 a.i. lb/A) will improve control of common ragweed, giant ragweed, and cocklebur. DO NOT apply <i>Callisto</i> with an emulsifiable concentrate herbicide or liquid fertilizer if corn has already emerged. DO NOT exceed a total of 7.7 oz/A of <i>Callisto</i> per season. Mesotrione preemergence is generally applied in a premix. Mesotrione premixes include <i>Acuron, Acuron Flexi, Instigate, Lumax EZ, Lexar EZ,</i> and <i>Zemax</i>. 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>. Refer to Table 12 for crop rotation restrictions.
	flumetsulam + clopyralid (Hornet WDG)	0.128	3 oz 68.5WG	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Corn should be planted at least 1.5 inches deep. Adjust application rate according to soil type and organic matter. DO NOT apply to soils with less than 1.5% organic matter, a pH > 7.8, or soils with >5% organic matter and low soil pH (5.9). DO NOT follow this treatment with a postemergence application of an ALS-inhibiting herbicide if plants are under stress. Tank mixes with atrazine (1 a.i. Ib/A) will improve control of heavy populations of jimsonweed. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. 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</i>. Requires a 26-month rotation interval and a successful field bioassay before planting sugar beets, cucumbers or tomatoes. Refer to Table 12 for crop rotation restrictions.

	Corn –	Soil Applied	– All Tillage	e Systems (continued)
Weed Controlled	Herbicide	Rate Ib/A a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual broadleaves	simazine (<i>Princep</i> , other	1 s)	1 qt 4L OR 1.1 lb 90WG	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. May be substituted for atrazine for slightly better grass control. DO NOT apply after corn emergence. <i>Princep</i> has similar carryover risk as atrazine. When <i>Princep</i> and atrazine are both applied to corn, carryover risk is additive. Refer to Table 12 for crop rotation restrictions.
	flumetsulam (Python)	0.05	1 oz 80WG	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. Corn should be planted at least 1.5 inches deep. Adjust application rate according to soil type and organic matter. DO NOT apply to soils with less than 1.5% organic matter – severe injury may occur. 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. DO NOT follow this treatment with a postemergence application of an ALS-inhibiting herbicide if plants are under stress. Tank mixes with atrazine (1 a.i. lb/A) will improve control of heavy populations of common ragweed, cocklebur, and jimsonweed. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. May be applied postemergence on corn up to 20 inches tall or through 6 collars, rates should be reduced. Refer to Table 14.
	saflufenacil (Sharpen)	0.056	2.5 oz 2.85SC	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. Sharpen can be applied to field corn, silage corn, seed corn and popcorn. Refer to seed company recommendations for use on inbred lines. 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. The maximum Sharpen rate for coarse textured soils is 2.5 oz per acre per application. DO NOT apply Sharpen after corn emergence or severe crop injury will occur. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. DO NOT exceed an application rate of 3.5 oz of Sharpen per acre per application or 6 oz/A of Sharpen per year. Sharpen is an effective burndown herbicide in no-till corn. Consult Table 1K for more information. Refer to Table 12 for crop rotation restrictions. DO NOT include time in the rotation interval when the ground is frozen.

	Corn – So	il Applied	d – All Tillage	e Systems (continued)
Weed Controlled	Herbicide	Rate Ib/A a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual broadleaves	flumioxazin <i>(Valor)</i>	0.064	2 oz 51WG	 Apply a minimum of 7 day or more prior to planting corn on no-till or minimum tillage fields. Refer to Table 1A for weed control and crop tolerance ratings 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. <i>Valor</i> can be used as part of the burndown program in no-til corn. Refer to Table 1K. DO NOT apply after corn emergence. Refer to label and Table 12 for crop rotation restrictions.
Annual broadleaves Annual grasses	bicyclopyrone + mesotrione + atrazine + s-metolachlor <i>(Acuron)</i>	2.85	3 qt 3.44ZC	 May be applied preplant or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. If the soil organic matter is <3% apply 2.5 qt/A of <i>Acuron</i>. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. <i>Acuron</i> at 2 qt/A may be applied as part of a planned 2-pas program. May be applied postemergence on corn up to 12 inches tall Refer to Table 1H. <i>Acuron</i> can be split between preemergence and early postemergence application timings. Tank-mixtures with glyphosate can be applied postemergence to glyphosate resistant corn. Tank-mixtures with <i>Liberty</i> can be applied postemergence to LibertyLink corn.
	bicyclopyrone + mesotrione + s-metolachlor (Acuron Flexi)	1.83	2.25 qt 3.26ZC	 May be applied preplant or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. If the soil organic matter is <3% apply 2.0 qt/A of <i>Acuron Flexi</i>. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. May be applied postemergence on corn up to 30 inches tall or up to the 8 leaf stage. Refer to Table 1H. <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. Tank-mixtures with glyphosate can be applied postemergence to glyphosate-resistant corn. Tank-mixtures with <i>Liberty</i> can be applied postemergence to LibertyLink corn.

	Corn – Soil	Applied	– All Tillage	Systems (continued)
Weed Controlled	Herbicide	Rate Ib/A a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual broadleaves Annual grasses	pyroxasulfone + fluthiacet + atrazine <i>(Anthem ATZ)</i>	1.4	2.5 pt 4.5SC	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance rating: See Table 1C for individual product rate equivalents for the premix. Anthem ATZ use rates are based on soil texture and organ matter. Anthem ATZ 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-pa program in glufosinate or glyphosate-resistant corn, unless resistant weeds are present. Anthem ATZ should be used as part of a planned preemergence followed by postemergence herbicide program. May be applied postemergence. Refer to the postemergence application section for Anthem ATZ and Table 1I. Refer to Table 12 for crop rotation restrictions.
	isoxaflutole (Balance Flexx)	0.0937	6 oz 2SC	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. Balance Flexx can be applied to field corn, silage, and seed corn. Refer to seed company recommendations for use on inbred lines. Tank-mixes with atrazine (1 a.i. lb/A) will improve control giant ragweed and cocklebur. 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. 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. Lower rates of Balance Flexx (4 fl oz/A) can be used as part of a planned 2-pass program or when tank-mixed with grast herbicide-atrazine premixtures. Add crop oil concentrate at 1% v/v to control existing weed prior to corn emergence. Insecticide interaction. Consult label for organophosphate or carbamate insecticide interactions. May be applied postemergence from spike through V2 corn Refer to Table 1H. Atrazine may be tank-mixed with postemergence applications of Balance Flexx. DO NOT add an adjuvant. 15 inches of precipitation is needed for a 10 month rotatior 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 Balance Flexx applications – planting the following year after application has resulted in dry bean injury. Refer to Table 12 for crop rotation restrictions.

	Corn – So	oil Applied	– All Tillage	e Systems (continued)
Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual broadleaves Annual grasses	rimsulfuron + thifensulfuron <i>(Basis Blend)</i>	0.023	1.25 oz 30WG	 May be applied preplant or preemergence. Refer to Table 1A for weed control and crop tolerance ratings See Table 1C for individual product rate equivalents for the premix. Basis Blend is best used as part of a burndown program in no-till corn. Refer to Table 1K. DO NOT apply on course textured soils with less than 1% organic matter. DO NOT apply to popcorn, sweet corn or corn grown for seed. May be applied postemergence on corn up to 6 inches or 2 collar, rates need to be reduced to 0.825 oz of Basis Blend. Rotation restrictions to soybean are dependent on use rate. Soybean can be planted 10 months after 1.25 oz of Basis Blend is applied. The rotation interval to planting soybean is reduced to 15 days if 0.825 oz of Basis Blend is applied. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. Refer to label and Table 12 for crop rotation restrictions.
	atrazine + s-metolachlor (Bicep Lite II Magnum Cinch Lite ATZ)	, 2.25	1.5 qt 6F	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings See Table 1C for individual product rate equivalents for the
	OR (Bicep II Magnum, Cinch ATZ)	2.9	2.1 qt 5.5F	 premix. Lower rates may be applied as part of a 2-pass program in glufosinate or glyphosate-resistant corn, unless resistant weeds are present. May be applied postemergence on corn up to 12 inches tall Refer to Table 1H. Tank-mixtures with glyphosate can be applied post-emergence to glyphosate-resistant corn. Tank-mixtures with <i>Liberty</i> can be applied postemergence to LibertyLink corn. Refer to label and Table 12 for crop rotation restrictions.
	atrazine + metolachlor (<i>Parallel Plus</i> , others)	2.9	2.3 qt 5.5F	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. <i>Parallel Plus</i> may be applied at lower rates as part of a planned 2-pass program where glyphosate is used postemergence in glyphosate-resistant corn. May be applied postemergence on corn up to 12 inches tall. Refer to Table 1H. Tank-mixtures with glyphosate can be applied postemergence to glyphosate-resistant corn. Tank-mixtures with <i>Liberty</i> can be applied postemergence to LibertyLink corn. Refer to label and Table 12 for crop rotation restrictions.

	Com - 301	Applied	- All Thage	e Systems (continued)
Veed Controlled	Herbicide	Rate Ib/A a.i.	Formulation/A	Remarks and Limitations
continued)				
(De	atrazine + acetochlor (Breakfree NXT Lite, Keystone LA NXT) OR gree Xtra, Fultime NXT) OR (Breakfree ATZ NXT, Harness Xtra, Keystone NXT)	3 3 3.4	2 qt 6L 3 qt 4L 2.4 qt 5.6L	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Degree Xtra and Fultime NXT contain encapsulated formulations of acetochlor. Use rates of these products are based on soil texture and organic matter. Breakfree NXT Lite/Keystone LA NXT rates range from 1.8 to 2.3 qt/A (2 qt/A); Degree Xtra/Fultime NX rates range from 2.9 to 3.7 qt/A (3 qt/A); Breakfree ATZ NX Harness Xtra/Keystone NXT rates range from 1.4 to 3 qt/A (2.4 qt/A). Lower rates can be applied as part of a 2-pass program in glufosinate or glyphosate-resistant corn, unless resistant weeds are present. May be applied postemergence on corn up to 11 inches tall. Refer to Table 1H. Tank-mixtures with glyphosate-resistant corn. Tank-mixtures with Liberty can be applied postemergence for the stall can be applied postemergence for the present corn.
- t	isoxaflutole + niencarbazone-methyl <i>(Corvus)</i>	0.115	5.6 oz 2.63SC	 LibertyLink corn. Refer to label and Table 12 for crop rotation restrictions. May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. <i>Corvus</i> can be applied to field corn, silage, and seed corn. Refer to seed company recommendations for use on inbred lines. Tank-mixes with atrazine (1 a.i. lb/A) will improve control giant ragweed and cocklebur. 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 us: 3.33 fl oz/A of <i>Corvus</i>. 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. Add crop oil concentrate at 1% v/v to control existing weed prior to corn emergence. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. May be applied postemergence from spike through V2 corn Refer to Table 1H. Atrazine may be tank-mixed with postemergence applications <i>Corvus</i>. DO NOT add an adjuvant. 15 inches of precipitation is needed for a 9 month rotation interval to soybean and barley.

	Corn – So	il Applied	I – All Tillage	e Systems (continued)
Weed Controlled	Herbicide	Rate Ib/A a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual broadleaves Annual grasses	pyroxasulfone + flumioxazin <i>(Fierce)</i>	0.133	3 oz 76WG	 Apply a minimum of 7 days up to 30 days prior to planting corn on no-till or minimum tillage fields. Refer to Table 1A for weed control and crop tolerance ratings See Table 1C for individual product rate equivalents for the premix. Use only on no-till or minimum tillage fields where last year's crop residue has not been incorporated into the soil. DO NOT use on soils with less than 1% organic matter unless an incorporating rainfall has occurred between herbicide application and planting. DO NOT use on seed corn. <i>Fierce</i> can be used as part of the burndown program in no-till corn. Refer to Table 1K. DO NOT apply after corn emergence. 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.
	acetochlor + mesotrione (Harness MAX)	2.26	75 fl oz/A 3.82L	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. DO NOT apply to popcorn or sweet corn. 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>). Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. DO NOT graze, feed forage, grain or fodder within 60 days of application. May be applied postemergence on corn up to 11 inches tall. Refer to Table 1H. <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. Refer to Table 12 for crop rotation restrictions.

		Rate Ib/A		
Weed Controlled	Herbicide	a.i.	Formulation/A	Remarks and Limitations
(continued) Annual broadleaves Annual grasses	mesotrione + rimsulfuron <i>(Instigate)</i>	0.82	6 oz 45.8WG	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings See Table 1C for individual product rate equivalents for the premix. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. DO NOT apply preemergence to course textured soils with less than 1% organic matter. DO NOT apply to seed corn. Instigate can be tank-mixed with other soil-applied herbicide or used as part of a planned 2-pass weed control program. 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 SG</i>) per year. May be applied early postemergence through 2 leaf collar (V2) corn, at 5.25 to 5.4 oz/A with a crop oil concentrate an ammonium sulfate. Refer to Table 1H. DO NOT graze, feed forage, grain or fodder within 45 days of application. Refer to Table 12 for crop rotation restrictions.
	mesotrione + atrazine + s-metolachlor <i>(Lexar EZ)</i> OR <i>(Lumax EZ)</i>	2.8 2.5	3 qt 3.7ZC 2.7 qt 3.67ZC	 May be applied preplant or preemergence. Refer to Table 1A for weed control and crop tolerance ratings See Table 1C for individual product rate equivalents for the premix. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. <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. May be applied postemergence on corn up to 12 inches tal Refer to Table 1H. <i>Lexar EZ</i> or <i>Lumax EZ</i> can be split between preemergence and early postemergence application timings. Tank-mixtures with glyphosate-resistant corn. Tank-mixtures with <i>Liberty</i> can be applied postemergence to glyphosate resistant corn. Refer to Table 1A for the presence applied postemergence to glyphosate resistant corn.
	rimsulfuron + isoxaflutole <i>(Prequel)</i>	0.046	1.66 oz 45WG	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Use rates are based on soil texture; ranging from 1.66 to 2.5 oz/A. DO NOT apply to coarse-textured soils with less than 1% organic matter. DO NOT to corn grown for seed, popcorn or sweet corn. <i>Prequel</i> should be used as part of a planned preemergence followed by postemergence herbicide program. This premia alone will not provide full-season weed control. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L.

	Corn – Soil	Applied	– All Tillage	Systems (continued)
Weed Controlled	Herbicide	Rate Ib/A a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual broadleaves Annual grasses	acetochlor + mesotrione + clopyralid (<i>Resicore</i>)	2.26	2.75 qt 3.29SE	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Use rates are based on soil texture and organic matter; ranging from 2.25 to 3 qt/A (2.75 qt/A). Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. <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 on corn up to 11 inches tall Refer to Table 1H. <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. <i>Resicore</i> can be polit between preemergence (1/2 rate) and postemergence (1/2 rate) application timings. Refer to label and Table 12 for crop rotation restrictions.
(Sι	flumetsulam + clopyralid + acetochlor ureStart II, TripleFLEX II)	1.04	2 pt 4.16SE	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings See Table 1C for individual product rate equivalents for the premix. Use rates are based on soil texture and organic matter; ranging from 1.5 to 3 pt/A (2 pt/A). Corn should be planted at least 1.5 inches deep. DO NOT apply to soils with less than 1.5% organic matter, a pH > 7.8, or soils with >5% organic matter and low soil pH (5.9). Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. <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. May be applied postemergence on corn up to 11 inches tall. Refer to Table 1H. Tank-mixtures with glyphosate can be applied postemergence to glyphosate resistant corn. Tank-mixtures with <i>Liberty</i> can be applied postemergence to LibertyLink corn. Requires a 26-month rotation interval and a successful field bioassay before planting sugar beets, cucumbers or tomatoes. Refer to label and Table 12 for crop rotation restrictions.

Corn – Soil Applied – All Tillage Systems (continued)					
Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations	
(continued)					
	saflufenacil + dimethenamid-P + <i>(Verdict)</i>	0.65	15 oz 5.57EC	 May be applied preplant, preplant incorporated or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Use rates are based on soil texture; ranging from 10 to 18 oz/A (15 oz/A). <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. <i>Verdict</i> can be used as part of a burndown program in no-tic corn. Refer to Table 1K. DO NOT apply after corn emergence. <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. Crop rotation to soybean ranges between 0-4 months depending on soil type and application rate. Refer to label and Table 12 for crop rotation restrictions. 	
	mesotrione + s-metolachlor <i>(Zemax)</i>	1.9	2 qt 3.67L	 May be applied preplant or preemergence. Refer to Table 1A for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. Zemax may be applied at 1.6 qt/A as part of a planned 2-pass program where glyphosate is used postemergence glyphosate-resistant corn. May be applied postemergence on corn up to 30 inches tal or up to the 8 leaf stage. Refer to Table 1H. Tank-mixtures with glyphosate can be applied postemergence to glyphosate-resistant corn. Tank-mixtures with <i>Liberty</i> can be applied postemergence to the total or up to the total or up. 	

	Corn -	- Postemergence – All Tillage Systems			
Weed Controlled	Herbicide	Rate Ib/A a.i.	Formulation/A	Remarks and Limitations	
Annual grasses	nicosulfuron + safener (Accent Q) + crop oil concentrate + ammonium sulfate	0.031	0.9 oz 54.5WG + 1% + 2 lb	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to field corn up to 20 inches tall or 6 leaf collars (V6), whichever is more restrictive. For corn 20-36 inches tall, use drop nozzles. Refer to Table 1I for maximum crop and weed heights. DO NOT apply more than 1.8 oz/A per season. <i>Accent Q</i> may be applied to seed corn, however maximum corn height for application is 20 inches or 5 leaf collars (V5). DO NOT tank-mix with 2,4-D containing products – grass antagonism. DO NOT tank-mix with <i>Basagran</i> – severe crop injury. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. Consult label for preferred adjuvants for specific tank mixtures. Rotation restrictions for sugarbeet, potatoes, cucumbers, and tomatoes are increased to 18 months when soil pH >6.5. Refer to label and Table 12 for crop rotation restrictions. 	
	rimsulfuron + thifensulfuron (Resolve Q) + crop oil concentrate + ammonium sulfate	0.017	1.25 oz 22.4WG + 1% + 2.5 lb	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn up to 20 inches tall or 6 leaf collars (V6), whichever is more restrictive. Refer to Table 1I for maximum crop and weed heights. DO NOT apply to seed corn. DO NOT tank-mix with <i>Basagran</i> – severe crop injury. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. Consult label for preferred adjuvants for specific tank mixtures. Refer to label and Table 12 for crop rotation restrictions. 	
	nicosulfuron + rimsulfuron + safener <i>(Steadfast Q)</i> + crop oil concentrate + ammonium sulfate	0.035	1.5 oz 37.7WG + 1% + 2 lb	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn up to 20 inches tall or 6 leaf collars (V6), whichever is more restrictive. Refer to Table 1I for maximum crop and weed heights. DO NOT tank-mix with 2,4-D containing products – grass antagonism. DO NOT tank-mix with <i>Basagran</i> – severe crop injury. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. Consult label for preferred adjuvants for specific tank mixtures. Rotation restrictions for sugarbeet, potatoes, cucumbers, and tomatoes are increased to 18 months when soil pH >6.5. Refer to label and Table 12 for crop rotation restrictions. 	

		Rate lb/A		
Weed Controlled	Herbicide	a.i.	Formulation/A	Remarks and Limitations
Annual broadleaves	2,4-D amine OR 2.4-D ester	0.5	1 pt 4L OR 0.5 pt 4L	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn less than 8 inches tall. Drop nozzles can be used after this stage. Refer to Table 1I for maximum crop and weed heights. DO NOT apply to corn from tasseling to the dough stage. Ester formulations have a greater potential for crop injury and vapor drift. CAUTION should be taken to avoid spray drift, many broadleaf plants are sensitive to 2,4-D. Not effective on smartweed or wild buckwheat. DO NOT apply with adjuvant – crop injury. Corn hybrids vary in sensitivity to 2,4-D. Consult seed company for details. Refer to Table 12 for crop rotation restrictions.
	atrazine (AAtrex, others) + crop oil concentrate	2	2 qt 4L OR 2.2 lb 90DG + 1 qt	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn up to 12 inches tall. Refer to Table 1I for maximum crop and weed heights. Lower rates of atrazine are often tank-mixed with other herbicides. Consult label for preferred adjuvants for specific tank mixtures. DO NOT exceed 2 lb ai/A for any single application or 2.5 lb ai/A per season. DO NOT apply after June 10 – carryover concerns to rotational crops. Mixing, loading, and application setbacks are required for atrazine. See page 12 or label for details. Refer to Table 12 for crop rotation restrictions.
	carfentrazone (Aim) + surfactant	0.008	0.5 oz 2EC + 0.25%	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn up to 8 leaf collars. Drop nozzles can be used up to 14 collar corn. Refer to Table 1I for maximum crop and weed heights. Applications should not be made within 6–8 hours of rain or irrigation — severe crop injury. Avoid applications into the corn whorls. DO NOT tank-mix with <i>Basagran</i>, or <i>Buctril</i> – severe crop injury. Consult label for preferred adjuvants for specific tank mixtures. Refer to Table 12 for crop rotation restrictions.
	pyroxasulfone + fluthiacet (Anthem MAXX) + surfactant	0.134	4 oz 4.3SE + 0.25%	 Refer to Table 1B for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Apply from emergence through the V4 (4 visible collars) stage. Refer to Table 1I for maximum crop and weed heights. Crop oil concentrate or methylated seed oil at 1% may be used instead of surfactant. The addition of ammonium sulfate (2 lb/A) may improve control of certain weeds. The pyroxasulfone component of <i>Anthem MAXX</i> will provide residual control of grass and small seeded broadleaf weeds. Avoid applications when the crop foliage is wet – increased crop response. DO NOT harvest corn forage or grain until 30 or 70 days, respectively, after <i>Anthem MAXX</i> application. Insecticide interaction: DO NOT tank-mix with chlorpyrifos containing insecticides. Refer to Table 12 for crop rotation restrictions.

	Corn – Poste	Corn – Postemergence – All Tillage Systems (continued)						
Weed Controlled	Herbicide	Rate Ib/A a.i.	Formulation/A	Remarks and Limitations				
(continued)								
Annual broadleaves	pyroxasulfone + fluthiacet + atrazine <i>(Anthem ATZ)</i> + surfactant	1.125	1 qt 4.5SC + 0.25%	 Refer to Table 1B for weed control and crop tolerance ratings See Table 1C for individual product rate equivalents for the premix. Apply from emergence up to V4 (4 visible collars) stage. Refer to Table 1I for maximum crop and weed heights. Crop oil concentrate or methylated seed oil at 1% may be used instead of surfactant. The addition of ammonium sulfate (2 lb/A) may improve control of certain weeds. The pyroxasulfone component of <i>Anthem ATZ</i> will provide residual control of grass and small seeded broadleaf weeds. Avoid applications when the crop foliage is wet – increased crop response. DO NOT harvest corn forage or grain until 60 or 70 days, respectively, after <i>Anthem ATZ</i> application. Insecticide interaction: DO NOT tank-mix with chlorpyrifos containing insecticides. Refer to Table 12 for crop rotation restrictions. 				
	dicamba (<i>Banvel, Clarity</i>)	0.5	1 pt 4SL	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn up to the 5-leaf stage or 8 inches tall, whichever comes first. Banvel/Clarity 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. Refer to Table 1I for maximum crop and weed heights. AMS or 28% liquid nitrogen fertilizer may be added for improved control of larger velvetleaf. See label for details. Consult label for preferred adjuvants for specific tank mixtures. Carn hybrids vary in sensitivity to dicamba. Consult seed company for details. CAUTION should be taken to avoid vapor and particle spray drift. 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. Refer to label and Table 12 for crop rotation restrictions. DO NOT include time in the rotation interval when the ground is frozen. 				
	bentazon (Basagran, Broadloom) OR (Basagran 5L) + crop oil concentrate	1	2 pt 4SL OR 1.6 pt 5L + 1 qt	 Refer to Table 1B for weed control and crop tolerance ratings. Refer to Table 1I for maximum crop and weed heights. The addition of 2.5 lb/A of ammonium sulfate (AMS) is recommended if velvetleaf is the targeted weed. Rates can be reduced if weeds are small – consult label. DO NOT use AMS if common lambsquarters is present. Refer to Table 12 for crop rotation restrictions. 				

		Rate lb/A		
Weed Controlled	Herbicide	a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual broadleaves	primisulfuron <i>(Beacon)</i> + crop oil concentrate	0.036	0.76 oz 75WG + 1%	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn between 4 and 20 inches tall. Drop nozzles can be used up to tassel emergence. Refer to Table 1I for maximum crop and weed heights. 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. 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. <i>Beacon</i> may be tank mixed with other postemergence herbicides for control of a broader spectrum of weeds. Consult label for preferred adjuvants for specific tank mixtures. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. 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.
	bromoxynil (<i>Buctril, Moxy</i> , others)	0.375	1 pt 2EC	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn up to tassel emergence. Refer to Table 1I for maximum crop and weed heights. The minimum corn stage is 4 leaves if the rate of <i>Buctril</i> is increased to 1.5 pt/A. Good spray coverage is important. DO NOT mix with spray additives or liquid fertilizers unless specified for tank mixes. Atrazine at 0.5 lb a.i./A is a common tank mix partner For ground applications, use minimum of 20 gal of water/A and 30 psi. Refer to Table 12 for crop rotation restrictions.
	fluthiacet <i>(Cadet)</i> + surfactant	0.006	0.9 oz 0.91EC + 0.25%	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn up to 48 inches tall, but before tassel emergence. Refer to Table 1I for maximum crop and weed heights. Crop oil concentrate at 1% may be used instead of surfactant. The addition of ammonium sulfate (2 lb/A) may improve control of certain weeds. <i>Cadet</i> can be applied at 0.5 oz/A when tank-mixed with other herbicides for additional broadleaf weed control. Use drop nozzles when corn canopy will prevent complete spray coverage of the weeds. DO NOT apply more than 1.25 oz/A of <i>Cadet</i> per cropping season. Refer to label and Table 12 for crop rotation restrictions.

		Rate lb/A		
Weed Controlled	Herbicide	a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual broadleaves	mesotrione (Callisto) + crop oil concentrate + ammomium sulfate	0.094	3 oz 4SC + 1% + 8.5 lb/100 gal	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn up to 30 inches tall or 8-collar, whichever is more restrictive. Refer to Table 1I for maximum crop and weed heights. DO NOT use methylated seed oil (MSO) or MSO blends. 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. Consult label for preferred adjuvants for specific tank mixtures. 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>. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L Refer to Table 12 for crop rotation restrictions.
	mesotrione + atrazine (Callisto Xtra) + crop oil concentrate + ammonium sulfate	0.69	24 oz 3.7SC + 1% + 8.5 lb/100 gal	 Refer to Table 1B for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Apply to corn up to 12 inches tall. Refer to Table 1I for maximum crop and weed heights. Consult label for preferred adjuvants for specific tank mixtures. 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>. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L Refer to label and Table 12 for crop rotation restrictions.
	dicamba + safener (<i>DiFlexx</i>) + surfactant + ammonium sulfate	0.25	8 oz 4SC + 0.25% + 17 lb/100 gal	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn from spike up to 36 inches tall or V6 (6 visible collars), whichever is more restrictive. Refer to Table 1I for maximum crop and weed heights. <i>DiFlexx</i> will likely be tank-mixed with other postemergence herbicides for an integrated weed management program. 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. <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. 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. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L DO NOT harvest or feed corn forage, silage or fodder withir 45 days of application. Refer to label and Table 12 for crop rotation restrictions. DO NOT include time in the rotation interval when the ground is frozen.

		Rate lb/A		
Weed Controlled	Herbicide	a.i.	Formulation/A	Remarks and Limitations
continued)				
Annual broadleaves	tembotrione + dicamba + safener (<i>DiFlexx DUO</i>)	0.53	32 oz 2.13SC	 Refer to Table 1B for weed control and crop tolerance ratings. Apply from corn emergence up to, but not including, V7 (7 visible collars) corn or 36 inches tall, whichever is more restrictive.
	+ methylated seed oil + ammonium sulfate		+ 1% + 8.5-17 lb/100 gal	 Refer to Table 1I for maximum crop and weed heights. Apply DiFlexx DUO at rates ranging from 24 to 40 oz/A (32 oz/A). Higher use rates should be used when Group 4 or 27 resistant weeds are present. DiFlexx DUO will likely be tank-mixed with other postemergence herbicides for an integrated weed management program. Use a methylated seed oil or crop oil concentrate at 1% v/r for improved weed control. 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. DO NOT apply into areas of temperature inversions. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. DO NOT graze or harvest corn forage within 45 days of application. 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.
	flumetsulam + clopyralid (Hornet WDG) + surfactant + ammonium sulfate	0.128	3.0 oz 68.5WG + 0.25% + 2 lb	 Refer to Table 1B for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Apply to corn up to 20 inches tall or 6 collars, whichever is more restrictive. Refer to Table 1I for maximum crop and weed heights. Crop oil concentrate at 1% may be used instead of surfactant. DO NOT tank mix with <i>Basagran</i> — severe crop injury. Consult label for preferred adjuvants for specific tank mixtures. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. CAUTION should be taken to avoid spray drift. Requires a 26-month rotation interval and a successful field bioassay before planting sugar beets, cucumbers or tomatoes. Refer to Table 12 for crop rotation restrictions.

Weed Controlled	Herbicide	Rate Ib/A a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual broadleaves	halosulfuron <i>(Permit)</i> + surfactant	0.03	0.67 oz 75DF + 0.25%	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn from spike up to canopy closure. Refer to Table 1I for maximum crop and weed heights. <i>Permit</i> provides excellent control of yellow nutsedge. <i>Permit</i> does NOT control common lambsquarters. Crop oil concentrate at 1% may be used instead of surfactant. Include ammonium sulfate (2 lb/A) for improved velvetleaf and pigweed control. Refer to Table 12 for crop rotation restrictions.
	flumiclorac (<i>Resource</i>) + crop oil concentrate	0.027	4 oz 0.86EC + 1 pt	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn between 2 and 10 collars. Refer to Table 1I for maximum crop and weed heights. Very effective on velvetleaf. Use drop nozzles when corn canopy will prevent complete spray coverage of the weeds. Consult label for preferred adjuvants for specific tank mixtures. Refer to Table 12 for crop rotation restrictions.
	dicamba + diflufenzopyr + safener (Status) + surfactant + ammonium sulfate	0.18	5 oz 56WG 0.25% + 17 lb/100 gal	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn between 4 (V2) and 36 (V8) inches tall. DO NOT make applications when corn is within 15 days of tassel emergence. Refer to Table 1I for maximum crop and weed heights. <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. Consult label for preferred adjuvants for specific tank mixtures. 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). Provides limited suppression of annual grasses. CAUTION should be taken to avoid vapor and particle spra drift. 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. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. In the event of crop failure, corn may be replanted within 7 or more days of application. 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. Refer to Table 12 for crop rotation restrictions.

Weed Controlled	Herbicide	Rate Ib/A a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual broadleaves	clopyralid (Stinger)	0.094	0.25 pt 3SL	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to field corn up to 24 inches tall. Refer to Table 1I for maximum crop and weed heights. Treat ragweed, cocklebur, jimsonweed and Jerusalem artichoke up to the 5-leaf stage. Increase the rate to 0.5 pt/A to control Canada thistle and perennial sowthistle. DO NOT apply more than 0.66 pt/A per year. CAUTION should be taken to avoid spray drift. Refer to Table 12 for crop rotation restrictions.
	halosulfuron + dicamba (Yukon) + surfactant + ammonium sulfate	0.169	4 oz 67.5WG + 0.25% + 17 lb/100 gal	 Refer to Table 1B for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Apply from spike to 36 inch tall corn, drop nozzles are recommended for corn greater than 20 inches. Refer to Table 1I for maximum crop and weed heights. Corn hybrids vary in their sensitivity to dicamba. Consult seed company for details. <i>Yukon</i> provides excellent control of yellow nutsedge. Consult label for preferred adjuvants for specific tank mixtures. CAUTION should be taken to avoid vapor and particle spradrift. 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. Refer to label and Table 12 for crop rotation restrictions.

				ge Systems (continued)
Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
Annual grasses Annual broadleaves	topramezone (Armezon/Impact) + methylated seed oil + ammonium sulfate	0.016	0.75 oz 2.8SC + 1% + 17 lb/100 gal	 Refer to Table 1B for weed control and crop tolerance ratings. Armezon/Impact may be applied to corn up to 45 days priot to harvest. Refer to Table 1I for maximum crop and weed heights. Atrazine at 0.25-0.5 lb a.i./A tank mixed will improve contro of broadleaf and grass weeds. Note: Tank mixtures of Armezon/Impact with atrazine can be applied to corn up to 12 inches tall only. Crop oil concentrate can be used instead of methylated seed oil in certain tank mixes. When Armezon/Impact is applied at 0.5 oz/A, dry bean (excluding cranberry beans) or snap bean may be planted after nine months. Armezon/Impact 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. Refer to label and Table 12 for crop rotation restrictions.
	topramezone + dimethenamid-P (Armezon PRO) + methylated seed oil + ammonium sulfate	0.835	20 oz 5.35L + 1% + 8.5 lb/100 gal	 Refer to Table 1B for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Apply to corn up to 30 inches tall or V8 (8 visible collars), whichever is more restrictive. <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. Refer to Table 1I for maximum crop and weed heights. The dimethenamid-P component of <i>Armezon PRO</i> will provide residual control of grass and small seeded broadleat weeds. Atrazine at 0.25-0.5 lb a.i./A tank mixed will improve contro of broadleaf weeds. Note: Tank mixtures of <i>Armezon PRO</i> with atrazine can be applied to corn up to 12 inches tall onl 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. <i>Armezon PRO</i> can be applied at 16 fl oz/A on lighter textured and/or lower organic matter soils. DO NOT apply on sand-textured soils with less than 3% organic matter where the groundwater depth is 30 feet or less. DO NOT harvest or feed corn forage, silage or fodder withir 45 days of application.

	Corn – Poste	emergeno	ce – All Tilla	ge Systems (continued)
Weed Controlled	Herbicide	Rate Ib/A a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual grasses Annual broadleaves	tembotrione + thiencarbazone-methyl <i>(Capreno)</i> + crop oil concentrate + ammonium sulfate	0.081	3.0 oz 3.45SC + 1% + 8.5 lb/100 gal	 Refer to Table 1B for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Apply to corn from 1 (V1) to 5 collars (V5). Refer to Table 1I for maximum crop and weed heights. DO NOT exceed a total of 6 oz/A of <i>Capreno</i> in a year. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. If soil pH is 7.5 or greater crop rotation intervals are extended for all crops, except field corn, soybean, wheat, and barley. Alfalfa and oats can be planted the following spring if the tota 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. Refer to label and Table 12 for crop rotation restrictions.
	topramezone + atrazine (<i>ImpactZ</i>) + methylated seed oil + ammonium sulfate	0.266 + 1% + 8.5lb/100gal	8 oz 4.26SC	 Refer to Table 1B for weed control and crop tolerance ratings See Table 1C for individual product rate equivalents for the premix. Apply to corn up to 12 inches tall. Refer to Table 1I for maximum crop and weed heights. DO NOT graze, feed forage, grain or fodder within 60 days of application. <i>ImpactZ</i> may be applied at maximum rate of 10.7 oz/A to provide greater control of certain grass species, however rotational crop restrictions are increased, refer to label. Refer to Table 12 for crop rotation restrictions.
	tembotrione (Laudis) + methylated seed oil + ammonium sulfate	0.082	3 oz 3.5SC + 1% + 8.5 lb/100 gal	 Refer to Table 1B for weed control and crop tolerance ratings. Apply to corn up to 8 collars (V8). Refer to Table 1I for maximum crop and weed heights. Atrazine at 0.25-0.5 lb a.i./A tank mixed will improve control of broadleaf weeds. Note: Tank mixtures of Laudis with atrazine can be applied to corn up to 8 collars or 12 inches tall, whichever is more restrictive. Crop oil concentrate can be used instead of methylated seed oil in certain tank mixes. Consult label for preferred adjuvants for specific tank mixtures. 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 Laudis application if cumulative precipitation exceeds 20 inches. Refer to label and Table 12 for crop rotation restrictions.

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual grasses Annual broadleaves	rimsulfuron + mesotrione + safener (<i>Realm Q</i>) + crop oil concentrate + ammonium sulfate	0.097	4 oz 38.75WG + 1% + 17 lb/100 gal	 Refer to Table 1B for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Apply to corn up to the 20 inches tall or 6 collars, whichever is more restrictive. Refer to Table 1I for maximum crop and weed heights. A spray solution pH of 6.0 – 8.0 is needed for product stability. DO NOT tank-mix with <i>Basagran</i> – severe crop injury. Consult label for preferred adjuvants for specific tank mixtures. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. Refer to label and Table 12 for crop rotation restrictions.
	nicosulfuron + mesotrione (<i>Revulin Q</i>) + crop oil concentrate + ammonium sulfate	0.109	3.4 oz 51.2WG + 1% + 2 lb	 Refer to Table 1B for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. 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. Refer to Table 1I for maximum crop and weed heights. <i>Revulin Q</i> can be applied up to 4 oz/A. DO NOT tank-mix with <i>Basagran</i> – severe crop injury. Consult label for preferred adjuvants for specific tank mixtures. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. Refer to label and Table 12 for crop rotation restrictions.

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
Annual grasses Annual broadleaves Suppression of perennials	glyphosate + ammonium sulfate	0.75–1.13 a.e.	See Table 10 + 17 lb/100 gal	 APPLY TO GLYPHOSATE-RESISTANT CORN ONLY. See above recommendations for appropriate use of glyphosate in glyphosate-resistant corn. Corn hybrids that are glyphosate-resistant are designated as <i>Roundup Ready Corn, Roundup Ready 2 Corn,</i> or <i>Glyphosate Tolerant (GT)</i>. Refer to Table 1B for weed control and crop tolerance ratings. 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. 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. Apply to corn up to 30 inches tall or 8 collars, whichever is more restrictive. Refer to Table 1I for maximum crop and weed heights. Glyphosate applications to corn from 30 to 48 inches tall can be made with drop nozzles only – avoid application into the whorls. 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. Glyphosate application rate can be increased to 1.13 lb a.e./A to control larger weeds or weeds that are under stress. DO NOT apply more than 2.25 lb a.e./A of glyphosate in-crop per season. Allow a minimum of 50 days between postemergence application and harvest of forage. Use extreme caution to avoid spray drift to sensitive crops. Higher glyphosate rates and second application of glyphosate will improve control of perennial weeds.

	Gly	phosate-	Resistant Co	orn (continued)
Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
(continued)				
Annual grasses Suppression of perennials	mesotrione + glyphosate (Callisto GT) + surfactant + ammonium sulfate	1.045	2 pt 4.18L + 0.25% + 17 lb/100 gal	 APPLY TO GLYPHOSATE-RESISTANT CORN ONLY. Refer to Table 1B for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Apply from corn emergence up to 30 inches tall or 8 collars whichever is more restrictive. Refer to Table 1I for maximum crop and weed heights. DO NOT tank-mix with emulsifiable concentrate grass herbicides – severe crop injury. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. Refer to Table 12 for crop rotation restrictions.
	mesotrione + s-metolachlor + glyphosate <i>(Halex GT)</i> + surfactant	1.97	3.6 pt 4.38L + 0.25%	 APPLY TO GLYPHOSATE-RESISTANT CORN ONLY. Refer to Table 1B for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Apply from corn emergence up to 30 inches tall or
	+ ammonium sulfate		+ 17 lb/100 gal	 8 collars, whichever is more restrictive. 8 Refer to Table 1I for maximum crop and weed heights. Halex GT does not contain a safener for preemergence applications. DO NOT tank-mix with emulsifiable concentrate grass herbicides – severe crop injury. Insecticide interaction: Consult label for organophosphate insecticide restrictions and Table 1L. Refer to label and Table 12 for crop rotation restrictions.
	s-metolachlor + glyphosate <i>(Sequence)</i> + ammonium sulfate	1.64	2.5 pt 5.25L + 17 lb/100 gal	 APPLY TO GLYPHOSATE-RESISTANT CORN ONLY. Refer to Table 1B for weed control and crop tolerance ratings. See Table 1C for individual product rate equivalents for the premix. Apply to corn up to 30 inches tall or 8 collars, whichever is more restrictive. Refer to Table 1I for maximum crop and weed heights. Sequence can be applied preplant or preemergence for all corn types in no-till production. Refer to label and Table 12 for crop rotation restrictions.
	acetochlor (Warrant) + glyphosate + ammonium sulfate	1.125	3 pt 3CS + See Table 10 + 17 lb/100 gal	 APPLY TO GLYPHOSATE-RESISTANT CORN WHEN TANK-MIXED WITH GLYPHOSATE. Refer to Table 1B for weed control and crop tolerance ratings. Apply from corn emergence up to 30 inches tall or 8 collars, whichever is more restrictive. Refer to Table 1I for maximum crop and weed heights. Warrant does not contain a safener for preemergence applications. Warrant 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 Warrant be applied with postemergence weed control products (e.g., glyphosate). Refer to label and Table 12 for crop rotation restrictions.

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 Ib/A a.i.	Formulation/A	Remarks and Limitations
Annual grasses Annual broadleaves	glufosinate (Liberty)	0.58	32 oz 2.34L	APPLY TO LIBERTYLINK OR GLUFOSINATE- RESISTANT CORN ONLY.
	+		+	See above recommendations for appropriate use of
	ammonium sulfate		17 lb/100 gal	 Liberty in LibertyLink corn. Refer to Table 1B for weed control and crop tolerance ratings.
				 Always add ammonium sulfate at 8.5–17 lb/100 gal.
				 Apply from emergence up to V6 corn.
				• Refer to Table 1I for maximum crop and weed heights.
				 Drop nozzles can be used to apply <i>Liberty</i> until 36 inch tal LibertyLink corn. Avoid spraying into the corn whorl.
				 DO NOT apply more than 87 oz/A of <i>Liberty</i> on corn per growing season.
				 Use a minimum carrier volume of 15 gallons per acre.
				 DO NOT use drift control agents — this reduces spray coverage and may result in reduced weed control.
				 DO NOT apply Liberty within 60 days of harvesting corn forage or within 70 days of harvesting corn grain.
				 Liberty is a contact herbicide that may provide some top growth control of perennial weeds.
				 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.
				 Refer to Table 12 for crop rotation restrictions.

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 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 Enlist-TankMix.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 for options.

Weed Controlled	Herbicide	Rate lb/A a.i.	Formulation/A	Remarks and Limitations
Annual broadleaves	2,4-D choline (Enlist One)	0.71 a.e.	1.5 pt 3.8L	 APPLY PREPLANT, PREEMERGENCE, AND/OR POSTEMERGENCE TO ELIST TRAITED CORN. Can be applied as a preplant burndown or used preemergence in non-Enlist traited corn. Enlist traited corn is resistant to 2,4-D choline, glyphosate and aryloxyphenoxypropionate (FOPs) herbicides. DO NOT mix any other herbicides or additives with <i>Enlist One</i> unless they are approved on the following website: EnlistTankMix.com See label for proper nozzle selection. See label for protection of sensitive areas via buffer. Apply to corn up to 30 inches tall or 8 collars, whichever is more restrictive. Refer to Table 1I for maximum crop and weed heights. <i>Enlist One</i> applications to corn from 30 to 48 inches tall ca be made with drop nozzles only – avoid application into th whorls. Refer to Table 1B for weed control and crop tolerance ratings. Maximum in-season use is one preemergence and two postemergence applications in Enlist traited corn. Allow 12 days between sequential postemergence applications in Enlist traited corn. DO NOT apply more than 4 pt/A in non-Enlist traited corn per growing season. DO NOT apply more than 6 pt/A in Enlist traited corn per growing season. DO NOT apply within 24 hours of predicted rainfall. Refer to Table 1K for spring burndown applications. 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. Refer to Table 12 for crop rotation restrictions.

Weed Controlled	Herbicide	Rate Ib/A a.i.	Formulation/A	Remarks and Limitations
Annual grasses Annual broadleaves	2,4-D choline + glyphosate (Enlist Duo)	1.44 a.e.	3.5 pt 3.3L	 APPLY PREPLANT, PREEMERGENCE, AND/OR POSTEMERGENCE TO ELIST TRAITED CORN. Can be applied as a preplant burndown or used preemergence in non-Enlist traited corn. Enlist traited corn is resistant to 2,4-D choline, glyphosate and aryloxyphenoxypropionate (FOPs) herbicides. DO NOT mix any other herbicides or additives with <i>Enlist</i> <i>Duo</i> unless they are approved on the following website: EnlistTankMix.com The use of ammonium sulfate (17 lb/100 gal) is currently approved, check EnlistTankMix.com prior to making application to verify. See label for proper nozzle selection. See label for proper nozzle selection. See label for protection of sensitive areas via buffer. Apply to corn up to 30 inches tall or 8 collars, whichever is more restrictive. Refer to Table 11 for maximum crop and weed heights. <i>Enlist Duo</i> applications to corn from 30 to 48 inches tall ce be made with drop nozzles only – avoid application into th whorls. Refer to Table 1B for weed control and crop tolerance ratings. Maximum in-season use is one preemergence and two postemergence applications in Enlist traited corn. Allow 12 days between sequential postemergence applications in Enlist traited corn. DO NOT apply more than 9.5 pt/A in non-Enlist traited corn per growing season. DO NOT apply more than 14.25 pt/A in Enlist traited corn per growing season. DO NOT apply within 24 hours of predicted rainfall. Refer to Table 1K for spring burndown applications. Clethodim herbicides such as <i>Select or Select Max</i> may be used to control volunteer Enlist corn in the following soybean, sugarbeet, or dry bean crop. Refer to Table 12 for crop rotation restrictions.

Table 1H - Delayed Applications ofSoil 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
Hornet WDG, Python	20 inches or 6 collars
Acuron Flexi, Callisto, Zemax	30 inches or 8 collars
Prowl, Prowl H ₂ O	30 inches or 8 collars
Dual II Magnum, Cinch, Parallel	40 inches

TABLE 1I – Weed and Crop Heights for PostemergenceHerbicide Applications in Corn*

		ANNUAL BROADLEAVES							ANNUAL GRASSES														
		COCKLEBUR	JIMSONWEED	LAMBSQUARTERS	NIGHTSHADE (E. BLACK)	${\rm PALMER}~{\rm AMARANTH}^{\rm C}$	PIGWEED	RAGWEED (COMMON)	RAGWEED (GIANT)	SMARTWEED	VELVETLEAF	WATERHEMP ^C	WILD MUSTARD	BARNYARDGRASS	CRABGRASS	GIANT FOXTAIL	GREEN FOXTAIL	YELLOW FOXTAIL	FALL PANICUM	WITCHGRASS	SANDBUR		CORN
HERBICIDE^b	RATE/A				AN	XIN	1UI	MH	IEI	GH.	ſ			Μ	AX	IM	UΜ	HE	EIG	HT	а	MINIMUM ^a HEIGHT	MAXIMUM ^a HEIGHT
2,4-D amine/ester Accent Q Aim Anthem ATZ	1 pt/0.5 pt 0.9 oz 0.5 oz	4" NR NR NR	NR 3" NR 3"	4" NR NR 2"	4" NR 4" 3"	3" NR 2"	4" 4" 4" 3"	4" NR NR	4" NR NR NR	NR 4" NR 2"	NR NR 36"	3" NR 2" 4"	4" NR NR NR		NR NR NR NR	NR 4" NR NR	NR 4" NR NR	NR 4" NR NR	NR 4" NR NR	NR 4" NR NR	NR 3" NR NR	None None None	8" 20" or 6 collars 8 collars
Anthem MAXX Armezon/Impact Armezon PRO	1 qt 4 oz 0.75 oz 20 oz	NR 8" 5"	3 2" 6" 4"	2" 6" 4"	2" 6" 4"	- 6" 4"	3 2" 6" 4"	NR NR 6" 4"	NR 8" 5"	2" 2" 3" 2"	36" 8" 4"	4 2" 6" 4"	NR 6" 4"		NR 3" 3"	NR 4" 4"	NR 3" 3"	NR 3" 3"	NR 3" 3"	NR NR 3" NR	NR NR NR NR	None None None None	4 collars 4 collars 45 day PHI 30" or 8 collars
Atrazine 4L Banvel/Clarity Basagran/Broadloom	2 qt 1 pt 2 pt (4L) 1.6 pt (5L)	4" 4" 10"	4" 4" 10"	6" 4" 2"	4" 4" NR	1.5" 3" NR	6" 4" NR	4" 4" 3"	4" 4" 6"	4" 6" 10"	NR NR 5"	1.5" 3" NR	4" 2" 8"	NR NR		NR NR NR	1½" NR NR	1½" NR NR	NR NR NR	NR NR NR	NR NR NR	None None None	12" 8" or 5 lf None
Beacon Buctril, Moxy, others Cadet Callisto	0.76 oz 1 pt 0.9 oz 3 oz	4" 8" NR NR	4" 4" 2" NR	NR 6" 2" 5"	4" 6" 2" 5"	NR NR - 3"	4" NR 4" 5"	9" 6" NR 3"	9" 6" NR 3"	4" 4" 2" 5"	4" 3" 36" 5"	NR NR 2" 3"	4' NR NR NR		NR NR NR 2"	NR NR NR NR	NR NR NR NR	NR NR NR	2" NR NR NR	2" NR NR NR	NR NR NR	4" None None None	20" d 48" ^d 30" or 8 collars
Callisto Xtra Capreno DiFlexx	24 oz 3 oz 8 oz	10" 6" 3"	10" 6" 3"	10" 6" 3"	10" 6" 3"	3" 3" 3"	10" 6" 3"	10" 6" 3"	10" 6" 3"	10" 6" 3"	10" 6" NR	5" 3" 3"	10" 6" 2"	NR 5" NR	2" 3" NR	NR 3" NR	NR 2" NR	NR 3" NR	NR 5" NR	NR 3" NR	NR 2" NR	None 1 collar spike	12" 5 collars 36" or 6 collars
DiFlexx Duo Hornet WDG ImpactZ Laudis	32 oz 3 oz 8 oz 3 oz	6" 6" 8" 6"	6" NR 6"	6" NR 6"	6" NR 6" 6"	4" NR 6" 6"	6" NR 6"	6" 6" 6"	6" 6" 8" 6"	6" 6" 3" 6"	6" 6" 8" 6"	4" NR 6" 6"	6" 6" 6"	5" NR 4" 5"	3" NR 3"	3" NR 4"	2" NR 3" 2"	3" NR 3" 3"	- NR 3" NR	- NR 3" NR	2" NR NR 2"	None None None	36" or 6 collars 20" or 6 collars 12" 8 collars
Permit Realm Q Resolve Q	0.67 oz 4 oz 1.25 oz	9" 4" 3"	4" 4"	0 NR 4" 3"	0 NR 4" NR	NR 3" NR	3" 4" 3"	9" 4" 3"	0 3" 4" NR	2" 4" 3"	9" 4" 3"	NR 3" NR	4" 4" 3"	NR 2"	NR 1/2" 0.5"	3 NR 2" 2"	2 NR 2" 2"	3 NR 2" 2"	NR 2" 2"	NR NR 2" NR	NR NR NR	None Spike None None	canopy closure 20" or 6 collars 20" or 6 collars
Resource Revulin Q Steadfast Q	4 oz 3.4 oz 1.5 oz	NR 4" NR	NR 4" 4"	NR 4" NR	NR 4" NR	NR 3" NR	NR 4" 4"	NR 3" NR	NR 3" NR	NR 4" NR	5 lf 4" NR	NR 3" NR	NR 4" 4"	4" 4"	NR 2" NR	NR 4" 4"	NR 4" 4"	NR 4" 4"	NR 4" 4"	NR 6" 4"	NR 3" 2"	2 lf None None	10 collars 20" or 6 collars 20" or 6 collars
Status Stinger Yukon	5 oz 0.25 pt 4 oz	6" 5 lf 14"	6" 5 lf 4"	6" NR 6"	6" NR 6"	3" NR NR	6" NR 12"	6" 5 lf 12"	6" 5 lf NR	6" NR 3"	6" NR 12"	3" NR NR	2" NR 6"	NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	4"(V2) None spike	36"(V8) 24" 36"
GLYPHOSATE-RESISTAL glyphosate Callisto GT	0.75-1.13 lb a.e. 2 pt	6" 4"	6" 4"	3" 4"	4" 4"	NR 3"	4" 4"	4" 4"	6" 4"	4" 4"	4" 4"	NR 3"	6" 4"	6" 4"	4" 4"	6" 4"	6" 4"	6" 4"	6" 4"	6" 4"	6" 4"	None	30" or 8 collars 30" or 8 collars
Halex GT Sequence	3.6 pt 2.5 pt	4 4" 12" 6"	4" 4" 12" 6"	4 4" 6" 3"	4 4" 6" 4"	3" NR NR	4" 4" 12" 4"	4" 12" 4"	4 4" 12" 6"	4 4" 6" 4"	4" 6" 4"	3" NR NR	4" 12"	4 4" 6" 6"	4 4" 12" 4"	4" 18" 6"	4" 18"	4 4" 18" 6"	4" 6" 6"	4" 12" 6"	4" 12"	None spike None	30" or 8 collars 30" or 8 collars 30" or 8 collars 30" or 8 collars
Warrant + glyphosate	3 pt + 0.75 lb a.e.	U	U	3	4	NR	4	4	U	4	4	INF	6"	υ	4	U	6"	U	U	U	6"	spike	SU ULO CUITAS
Liberty ^e	32 oz	6"	6"	2"	6"	2"	3"	6"	6"	6"	3"	2"	4"	3"	3"	6"	6"	3"	3"	4"	NR	None	24" or 7 collars
ENLIST CORN																							
Enlist One Enlist Duo	1.5 pt 3.5 pt	6" 6"	6" 6"	6" 6"	6" 6"	3" 3"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	3" 3"	6" 6"	6" 6"	4" 4"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	6" 6"	None None	30" (V8) 30" (V8)

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

^a NR = not recommended; - = not enough information to rank; If=leaf stage.

^b Consult label for recommended additives.

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

- ^d Before tassel emergence.
- ^e 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.

TABLE 1J – Plant Response to Fall or SpringHerbicides in Sod

	Alfalfa	Red Clover	Hairy Vetch	Dandelion	Curled Dock	Bromegrass	Timothy	Bluegrass	Orchardgrass	Quackgrass
Fall Application ^a										
glyphosate (0.75 lb a.e.) ^c	F-G	F- G	F-G	G	-	G	G	G	G	G-E
glyphosate (1.5 lb a.e.) ^c	G-E	G-E	G-E	G	-	E	E	E	E	E
2,4-D ester (1 qt)	F-G	F-G	F	F	-	N	N	N	N	N
glyphosate (0.75 lb a.e.) + 2,4-D ester (1 qt)	G	G	G	G	-	G	G	G	G	G-E
glyphosate (1.5 lb a.e.) ^c + 2,4-D ester (1 qt)	G-E	G-E	G-E	G	-	E	E	E	E	E
Spring Application ^b										
glyphosate (0.75 lb a.e.)	F	F	F	F	Р	F	F	G	Р	G
glyphosate (1.5 lb a.e.)	F-G	F- G	F-G	F	F	G	G	G	F	E
2,4-D ester (1 qt)	F-G	G	F-G	Р	Р	N	N	Ν	N	N
glyphosate (0.75 lb a.e.) ^c + 2,4-D ester (1 qt)	F-G	F-G	F-G	F	P-F	F	F	G	Р	G
glyphosate (1.5 lb a.e.) ^c + 2,4-D ester (1 qt)	G	G	G	F	F	G	G	G	F	E

P = Poor; F = Fair; G = Good; E = Excellent; N = None; - = Not enough information to rank

^a Ideal timing is 4-6 weeks after mowing. Mow in late August–early September and treat in early to mid-October in central or southern Michigan.

^b Treat when plants reach at least 6 inches tall.

^c See Table 10 for glyphosate products, formulations and rates. Always include 17 lb/100 gal of ammonium sulfate (AMS) with glyphosate applications.

TABLE 1K - Effectiveness of Herbicidesfor Spring Burndown in Corn*

			ANN	IUAL	BRC	DADL	EAVI	ES				A	NNU	JAL G	RAS	SES				WI	NTEF PER	R AN ENN		LS/		сс	VER	CRO	PS
	COCKLEBUR	JIMSONWEED	LAMBSQUARTERS	NIGHTSHADE	PIGWEED	RAGWEED (COMMON)	RAGWEED (GIANT)	SMARTWEED	VELVETLEAF	WILD MUSTARD	BARNYARDGRASS	CRABGRASS	GIANT FOXTAIL	GREEN FOXTAIL	YELLOW FOXTAIL	FALL PANICUM	WITCHGRASS	SANDBUR	CHICKWEED (COMMON)	YELLOW ROCKET	SHEPHERD'S PURSE	PENNYCRESS	MARESTAIL (HORSEWEED)	DANDELION	QUACKGRASS	RYE	WHEAT	CLOVER	HAIRY VETCH
						— M	axin	num \	Need	l Heig	ght (i	nche	s) —									Her	bicid	e Effe	ective	eness	s —		
atrazine (1 lb a.i.) ^a	2	2	2	2	2	2	2	2	2	2	NR	NR	NR	NR	NR	NR	NR	NR	-	G	E	G	G	Р	Ρ	Ρ	Ρ	Ρ	Ρ
atrazine (2 lb a.i.) ^a	3	3	3	3	3	3	3	3	3	3	NR	NR	NR	1.5	1.5	NR	NR	NR	-	Е	E	E	Е	F	F	F	F	F	F
2,4-D ester (1 pt)	3	NR	3	3	3	3	3	NR	2	3	NR	NR	NR	NR	NR	NR	NR	NR	Ρ	F	G	F	Е	Ν	Ν	Ν	Ν	F	F
2,4-D ester (1 qt)	6	3	6	6	6	6	6	3	5	6	NR	NR	NR	NR	NR	NR	NR	NR	F	G	E	G	E	Ρ	Ν	Ν	Ν	G	G
glyphosate (0.75 lb a.e.) ^{bc}	16	10	10	10	16	10	5	5	5	16	5	_	16	16	16	_	_	_	E	Е	E	E	Е	F	F	E	Е	F	F
Gramoxone (2.0 pt) ^d	3	3	3	3	3	3	3	NR	3	3	3	3	3	3	3	3	3	3	E	G	G	G	Р	Р	Р	F	F	Ρ	Р
Gramoxone (2.5 pt) ^d	6	6	6	6	6	6	6	NR	6	6	6	6	6	6	6	6	6	6	Е	Е	E	E	Р	Р	Р	G	G	F	F
Liberty (29 oz) ^c	14	10	6	8	4	10	12	14	4	6	5	5	12	12	4	5	6	NR	Е	G	G	G	G	F	Ν	Ρ	F	Ρ	G
Basis Blend (1.25 oz) + 2,4-D ester (1 pt) + atrazine (1 lb a.i.) ^a	3	2	3	3	3	3	3	3	3	3	2	NR	2	2	2	2	_	_	E	G	E	G	E	G	F	Р	P	F	F
Fierce (3 oz) ^f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ρ	G	E	G	Ρ	F	Ν	Ν	Ν	Ρ	Р
Resolve SG (1 oz) + 2,4-D ester (1 pt) + atrazine (1 lb a.i.) ^a	3	2	3	3	3	3	3	3	3	3	2	NR	2	2	2	2	_	_	E	G	E	G	E	G	F	Р	P	F	F
Resolve Q (1.25 oz) + 2,4-D ester (1 pt) + atrazine (1 lb a.i.) ^a	3	2	3	3	3	3	3	3	3	3	2	NR	2	2	2	2	_	_	E	G	E	G	E	G	F	Р	P	F	F
Sharpen (1 oz) ^e	6	6	6	6	6	6	6	6	6	6	NR	NR	NR	NR	NR	NR	NR	NR	F	G	G	G	E	F	NR	NR	NR	-	-
Sharpen (1 oz) + glyphosate (0.75 lb a.e.) ^{be}	16	10	10	10	16	10	6	6	6	16	5	-	16	16	16	_	_	_	G	E	E	E	E	F	G	E	E	F	F
Valor (2 oz) ^f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ρ	G	Е	G	Ρ	F	Ν	Ν	Ν	Ρ	Р
Vida (1 oz) + glyphosate (0.75 lb ae) ^{bc}	4	_	4	4	4	4	4	4	4	_	NR	NR	NR	NR	NR	NR	NR	NR	E	E	E	E	E	F	G	E	E	F	F

P = Poor; F = Fair; G = Good; E = Excellent; N = None; NR = Not Recommended; - = Not enough information to rank

** Burndown effectiveness varies, depending on several factors. This table is intended as a guide to relative effectiveness of burndown herbicide options.

^a Always add crop oil concentrate at 1 qt/A to maximize foliar activity.

^b See Table 10 for glyphosate products, formulations and rates.

^c Always include 8.5-17 lb/100 gal of ammonium sulfate (AMS).

^d Always add either a non-ionic surfactant (0.25%) or a crop oil concentrate (1%) with *Gramoxone*.

^e Must be applied with a methylated seed oil (MSO) at 1% and ammonium sulfate at (17 lb/100 gal).

^f Apply 7 to 30 days before planting on no-till or minimum tillage fields. Provides additional residual control of annual broadleaves. Do not irrigate corn from emergence to 2-leaf. Apply with 2,4-D, *Gramoxone*, glyphosate or other herbicides (see label).

TABLE 1L - Corn Herbicide and InsecticideUse Precautions

This table is a guide to using herbicides on field corn where an organophosphate (OP) insecticide is used at planting or after corn emergence. Do not tank mix an OP insecticide with the herbicides in Table 1L, severe corn injury will occur.

	SOIL-APPLII	SOIL-APPLIED ORGANOPHOSPHATE INSECTICIDES									
HERBICIDE	COUNTER	LORSBAN	AZTEC	FORTRESS	DAYS BEFORE	DAYS AFTER					
Accent Q	Do not use	NR	Y	Y	7	3					
Acuron/Acuron Flexi (POST)	NR	TI	TI	TI	7	7					
Basis Blend	Do not use	Do not use	Y	Y	7	3					
Beacon	Do not use	ТІ	TI	ТІ	10	7					
Callisto/Callisto GT/Callisto Xtra (POST)	NR	NR	See label	See label	7	7					
Capreno	Do not use	Do not use	Y	Do not use	7	7					
Corvus	Do not use	Y	Y	Y	7	7					
Harness MAX	NR	NR	NR	NR	7	7					
Halex GT	NR	NR	NR	NR	7	7					
Hornet WDG	Do not use	TI1	Tl1	TI ¹	10	10					
Instigate	Do not use	Do not use	Y	Y	7	3					
Lexar EZ/Lumax EZ (POST)	NR	ТІ	TI	TI	7	7					
Prequel	Do not use	NR	Y	Y	See label	See label					
Python/Accolade	Do not use	TI1	TI1	TI ¹	See label	See label					
Realm Q	NR	NR	Y	Y	7	7					
Resicore (POST)	NR	ТІ	TI	TI	7	7					
Resolve Q	Do not use	NR	Y	Y	7	3					
Resolve SG	Do not use	Do not use	Y	Y	60	60					
Revulin Q	NR	NR	Y	Y	7	3					
Sharpen	Do not use	Do not use	Y	Y	See label	See label					
Steadfast Q	Do not use	NR	Y	Y	7	3					
Surestart II/Tripleflex II	Do not use	TI1	Tl1	TI ¹	10	10					
Verdict	Do not use	Do not use	Y	Y	See label	See label					
Zemax (POST)	NR	NR	NR	NR	7	7					

Do not use = do not apply the herbicide if a soil OP insecticide has been applied

NR = not recommended

TI = temporary injury may occur if the herbicide is applied to corn treated with the soil OP insecticide

Y = little risk of injury

¹Apply the soil insecticide in a T-band or a band to reduce risk of crop injury