



SEED CORN TECHNOLOGY REVIEW

Technology	Herbicide					Refuge Req.	Different insects controlled by technology						
	ECB Trait	CRW Trait	Broad Lep	RR	LL		ECB	CRW	BCW	FAW	CEW	WBC	SB
Grome® (Q)	◆	●		x	x	5% IR	C	C	C	C	NoA	NoA	C
Optimum® AcreMax® XTreme (AMXT)	■	●		x	x	5% IR	C	C	C	C	NoA	NoA	C
Optimum® Intrasect® XTreme (CYXR)	■	●		x	x	†5%	C	C	C	C	NoA	NoA	C
Optimum® AcreMax® Xtra (AMX)	■	●		x	x	10% IR	C	C	C	C	NoA	NoA	C
Optimum® AcreMax® TRisect® (AMT)	■	●		x	x	10% IR	C	C*	C	C	NoA	NoA	C
Optimum® AcreMax® (AM)	■			x	x	5% IR	C	NoA	C	C	NoA	NoA	C
Optimum® AcreMax® Leptra® (AML)	■		◆	x	x	5% IR	C	NoA	C	C	C	C	C
Herculex® XTRA/RR (HXX/RR)	■	●		x	x	20%	C	C	C	C	NoA	NoA	C
Herculex® XTRA (HXX)	■	●		x	x	20%	C	C	C	C	NoA	NoA	C
Herculex® 1 (HX1/RR/S)	■			x	x	*20%	C	NoA	C	C	NoA	NoA	C
Optimum® AcreMax® 1 (AM1)	■	●		x	x	*20%	C	C	C	C	NoA	NoA	C
Agrisure Duracade® 5222 E-Z Refuge®	■	●	◆	x	*	5% IR	C	C	C	C	C	C	C
Agrisure Duracade® 5122 E-Z Refuge®	■	●	■	x	*	5% IR	C	C	C	S	S	S	S
Agrisure® 3122 E-Z Refuge®	■	●	■	x	*	5% IR	C	C	C	S	S	S	S
Agrisure Viptera® 3111	■	●	◆	x	x	20%	C	C*	C	C	C	C	C
Agrisure® 3000GT	■	●		x	x	20%	C	C*	NoA	S	S	NoA	S
Agrisure Viptera® 3220 E-Z Refuge®	■		◆	x	*	5% IR	C	NoA	C	C	C	C	C
Agrisure Viptera® 3110	■		◆	x	x	*20%	C	NoA	C	C	C	C	C
Agrisure® 3010	■			x	x	*20%	C	NoA	NoA	S	S	NoA	S
Refuge Advanced® Powered by SmartStax®	■	●		x	x	5% IR	C	C	C	C	C	NoA	C
SmartStax® RIB Complete® (SS)	■	●		x	x	5% IR	C	C	C	C	C	NoA	C
VT Double PRO® RIB Complete® (VT2P)	■			x		5% IR	C	NoA	NoA	C	C	NoA	C
PowerCore™ Enlist™**	■			x	x	*5%	C	NoA	C	C	C	NoA	C

EVENT (Protein Expressed, Insect Target)

- TC1507 (Cry1F, ECB)
- MON 810 (Cry1Ab, ECB)
- BT11 (Cry1Ab, ECB)
- MON89034 (Cry1A.105 + Cry2Ab2, Broad Lep)
- DAS-59122-7 (Cry34/Cry35Ab1, CRW)
- MIR604 (mCry3A, CRW)
- MON88017 (Cry3Bb1, CRW)
- Event 5307 (eCry3.1Ab, CRW)
- ◆ MIR162 (Vip3Aa, Broad Lep)
- ◆ DP4114 (Cry1F + Cry1Ab, ECB; Cry34/Cry35Ab1, CRW)

CORN BELT REFUGE GUIDELINES

5% is single bag refuge with refuge blended in the bag, no separate refuge needed
 †5% non-Bt refuge must be within field or directly adjacent
 *5% non-Bt refuge must be within 1/2 mile of the field
 10% is single bag refuge with refuge blended in the bag, no separate refuge needed
 10% & 20% means 10% of CRW refuge is blended in the bag plus 20% non-Bt refuge for ECB must be within 1/2 mile from the field
 20% non-Bt refuge must be within field or directly adjacent
 *20% non-Bt refuge must be within 1/2 mile of the field
 **2,4-D and FOP resistance
 *Refer to bag tag or Burrus Seed Product Selection Guide

- ECB - European corn borer
- CRW - Corn rootworm
- BCW - Black cutworm
- FAW - Fall armyworm
- CEW - Corn earworm
- WBC - Western bean cutworm
- SB - Common stalk borer
- C - Control of the insect
- C* - Resistance may have been reported
- S - Suppression of the insect
- NoA - No activity on the insect
- x - Includes herbicide tolerance
- RR - Roundup Ready® (glyphosate)
- LL - LibertyLink® (glufosinate)
- IR - Integrated Refuge