

Handy Bt Trait Table

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Insects: black cutworm (BCW); corn earworm (CEW); rootworm (CRW); corn borer (ECB);
fall armyworm (FAW); stalk borer (SB); western bean cutworm (WBC)
Herbicide tolerance: glyphosate/Roundup (GT, RR2); glufosinate/Liberty (LL)

**Current ** January 18, 2012	Bt protein (s)	Insects controlled (bold) or <i>suppressed (italics)</i> Above-ground----- In soil	Herbicide tolerant?	Refuge % & location in the MIDWEST
Agrisure products				
Agrisure CB/LL	Cry1Ab	ECB CEW FAW SB	---	LL 20% - ½ mile
Agrisure GT/CB/LL	Cry1Ab	ECB CEW FAW SB	---	GT LL 20% - ½ mile
Agrisure RW	mCry3A	---	CRW	---
Agrisure GT/RW	mCry3A	---	CRW	GT 20% - adjacent
Agrisure CB/LL/RW	Cry1Ab mCry3A	ECB CEW FAW SB	CRW	LL 20% - adjacent
Agrisure 3000GT	Cry1Ab mCry3A	ECB CEW FAW SB	CRW	GT LL 20% - adjacent
Agrisure Viptera 3110	Cry1Ab Vip3A	BCW CEW ECB FAW WBC SB	---	GT LL 20% - ½ mile
Agrisure Viptera 3111	Cry1Ab mCry3A Vip3A	BCW CEW ECB FAW WBC SB	CRW	GT LL 20% - adjacent
Agrisure 3122 Refuge Renew	Cry1Ab Cry1F mCry3A Cry34/35Ab1	BCW ECB FAW WBC CEW SB	CRW	GT LL 5% adjacent
Agrisure Viptera 3220	Cry1Ab Cry1F Vip3A	BCW CEW ECB FAW WBC SB	---	GT LL 5% - ½ mile
Herculex products				
Herculex 1 (HX1)	Cry1F	BCW ECB FAW WBC CEW	---	LL RR2 (some) 20% - ½ mile
Herculex RW (HXRW)	Cry34/35Ab1	---	CRW	LL RR2 (some) 20% - adjacent
Herculex XTRA (HXX)	Cry1F Cry34/35Ab1	BCW ECB FAW WBC CEW	CRW	LL RR2 (some) 20% - adjacent
Optimum products				
Optimum Intrasect	Cry1F Cry1Ab	BCW ECB FAW WBC CEW SB	---	LL RR2 5% - ½ mile
Optimum AcreMax (OAM)	Cry1F Cry1Ab	BCW ECB FAW WBC CEW SB	---	RR2 5% <i>in the bag</i>
Optimum AcreMaxRW	Cry34/35Ab1	---	CRW	RR2 10% <i>in the bag</i>
Optimum AcreMax1	Cry1F Cry34/35Ab1	BCW ECB FAW WBC CEW	CRW	LL RR2 10% <i>in the bag</i> (CRW) & 20% - ½ mile (ECB)
Optimum AcreMax Xtra	Cry1F Cry1Ab Cry34/35Ab1	BCW ECB FAW WBC CEW SB	CRW	RR2 10% <i>in the bag</i>
YieldGard products				
YGCB	Cry1Ab	ECB CEW FAW SB	---	RR2 (some) 20% - ½ mile
YGRW	Cry3Bb1	---	CRW	RR2 (some) 20% - adjacent
YieldGard Plus	Cry1Ab Cry3Bb1	ECB CEW FAW SB	CRW	RR2 (some) 20% - adjacent
YieldGard VTRW	Cry3Bb1	---	CRW	RR2 20% - adjacent
YieldGard VT Triple	Cry1Ab Cry3Bb1	ECB CEW FAW SB	CRW	RR2 20% - adjacent
Genuity / SmartStax products				
Genuity VT Double PRO (VT2P)	Cry1A.105 Cry2Ab2	CEW ECB FAW	---	RR2 5% - ½ mile
Genuity VT Double PRO Complete	Cry1A.105 Cry2Ab2	CEW ECB FAW	---	RR2 5% <i>in the bag</i>
Genuity VT Triple PRO (VT3P)	Cry1A.105 Cry2Ab2 Cry3Bb1	CEW ECB FAW	CRW	RR2 20% - adjacent
SmartStax (Dow) or Genuity SmartStax (Monsanto)	Cry1A.105 Cry2Ab2 Cry1F Cry3Bb1 Cry34/35Ab1	BCW CEW ECB FAW WBC	CRW	LL RR2 5% - adjacent
Genuity SmartStax RIB Complete	Same as SmartStax	BCW CEW ECB FAW WBC	CRW	LL RR2 5% <i>in the bag</i>
REFUGE ADVANCED Powered by SmartStax	Same as SmartStax	BCW CEW ECB FAW WBC	CRW	LL RR2 5% <i>in the bag</i>