

Traits of Selected, Commercially Available Bt Corn Products

Description	Caterpillar Traits	Rootworm Traits
Agrisure CB/LL	Cry 1AB (Bt11)	None
Agrisure 3000GT	Cry 1AB (Bt11)	Cry 3A (modified)
Herculex I (HX1)	Cry 1F (HX1)	None
Herculex XTRA (HXX)	Cry 1F (HX1)	Cry 34/35Ab1
YieldGard Corn Borer (YGCB)	Cry 1AB (YGCB)	None
YieldGard VT Triple (VT3)	Cry 1AB (YGCB)	Cry 3Bb1
Genuity VT Triple Pro (GENVT3P)	Cry 1A.105 + Cry2Ab2	Cry 3Bb1
Genuity VT Double Pro (GENVT2P)	Cry 1A.105 + Cry2Ab2	None
Genuity VT Double Pro RIB (GENVT2P RIB)	Same as above + RIB *	None
Genuity or Dow AgroSciences SmartStax (GENSS or SSX)	Cry 1A.105 + Cry2Ab2 + Cry 1F (HX1)	Cry 3Bb1 + Cry 34/35Ab1
Genuity or Dow AgroSciences SmartStax RIB (GENSS RIB)	Same as above + RIB *	Same as above + RIB *
Agrisure Viptera 3110	Cry 1Ab (Bt11) + VIP3A (MIR162)	None
Agrisure Viptera 3111	Cry 1Ab (Bt11) + VIP3A (MIR162)	Cry 3A (modified)
Optimum Intrasect	Cry1Ab (YGCB) + Cry 1F (HX1)	None
Optimum AcreMax	Cry1Ab (YGCB) + Cry 1F (HX1)	None
Optimum AcreMax Xtra	Cry1Ab (YGCB) + Cry 1F (HX1)	Cry 34/35Ab1

* Non-Bt Refuge Blended in the Bag

November, 2011

Relative Efficacy and Refuge Requirements of Selected, Commercially Available Bt Corn Products

Traits / Brands	Corn borers	Cutworm	Corn earworm	Fall armyworm	Western corn rootworm
Agrisure CB/LL *	Excellent	Poor	Fair	Fair	None
Agrisure 3000GT *	Excellent	Poor	Fair	Fair	Good
Herculex I (HX1) *	Excellent	Good	Poor	Good	None
Herculex XTRA (HXX) *	Excellent	Good	Poor	Good	Excellent
YieldGard Corn Borer (YGCB) *	Excellent	Poor	Fair	Fair	None
YieldGard VT Triple (VT3) *	Excellent	Poor	Fair	Fair	Excellent
Genuity VT Triple Pro (GENVT3P) **	Excellent	Poor	Good	Very Good	Excellent
Genuity VT Double Pro (GENVT2P) ***	Excellent	Poor	Good	Very Good	None
Genuity VT Double Pro RIB (GENVT2P RIB) ****	Excellent	Poor	Good	Very Good	None
Genuity or Dow AgroSciences SmartStax (GENSS or SSX) ***	Excellent	Good	Good	Very Good	Excellent
Genuity or Dow AgroSciences SmartStax RIB (GENSS RIB) ****	Excellent	Good	Good	Very Good	Excellent
Agrisure Viptera 3110 **	Excellent	Good	Excellent	Excellent	None
Agrisure Viptera 3111 **	Excellent	Good	Excellent	Excellent	Good
Optimum Intrasect ***	Excellent	Good	Fair	Very Good	None
Optimum AcreMax ****	Excellent	Good	Fair	Very Good	None
Optimum AcreMax Xtra *****	Excellent	Good	Fair	Very Good	Excellent

* 50% and 20% non-Bt corn refuge requirement in cotton and corn areas, respectively.

** 20% non-Bt corn is required in cotton and corn areas.

*** 20% and 5% refuge requirement in cotton and corn areas, respectively.

**** 5% refuge in bag system in non-cotton areas (20% corn borer refuge is required in cotton growing areas).

***** 10% refuge in bag system in non-cotton areas (20% corn borer refuge is required in cotton growing areas).

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