

Traits and Refuge Requirements for Commercial Hybrids Containing Bt Technology

Trademark	Abbreviation	Traits	Proteins	Refuge Requirement	Target Pest
SmartStax™	VT3P/HXX	CRW/RR2 (VT)+BT (VT) + CRW (HXRW)+BT (HX I)	(Cry3Bb1 & RR2) + (Cry1A.105 & Cry2Ab2) (Cry34Ab1 & Cry35Ab1) + (Cry1F & LL)	20%	corn rootworm, corn borer spp., corn earworm, fall armyworm
YieldGard VT Rootworm/RR2™	VT3RR2	CRW/RR2 (VT)	(Cry3Bb1 & RR2)	50%	corn rootworm
YieldGard VT Triple™	VT3	CRW/RR2 (VT)+BT	Cry3Bb1 & RR2) + Cry1Ab	50%	corn rootworm, corn borer spp., fall armyworm
YieldGard VT Triple PRO™	VT3P	CRW/RR2 (VT)+BT (VT)	(Cry3Bb1 & RR2) + (Cry1A.105 & Cry2Ab2)	20%	corn rootworm, corn borer spp., corn earworm, fall armyworm
YieldGard VT PRO™	VTP	BT (VT)	Cry1A.105 & Cry2Ab	20%	corn borer spp., corn earworm, fall armyworm
YieldGard VT PRO/RR2™	VT3RR2	BT (VT)+RR2	(Cry1A.105 & Cry2Ab2) + RR2	20%	corn borer spp., corn earworm, fall armyworm
YieldGard® Plus with Roundup Ready® Corn 2	YGPL/RR2	CRW+RR2+BT	Cry3Bb1 + RR2 + Cry1Ab	50%	corn rootworm, corn borer spp., fall armyworm
YieldGard® Corn Borer with Roundup Ready® Corn 2	YGCB/RR2	BT+RR2	Cry1Ab + RR2	50%	corn borer spp., fall armyworm
YieldGard® Rootworm with Roundup Ready® Corn 2	YGRW/RR2	CRW+RR2	Cry3Bb1 + RR2	50%	corn rootworm
YieldGard® Plus	YGPL	CRW+BT	Cry3Bb1 + Cry1Ab	50%	corn rootworm, corn borer spp., fall armyworm
Roundup Ready® Corn 2	RR2	RR2	RR2	--	--
YieldGard® Corn Borer	YGCB	BT	Cry1Ab	50%	corn borer spp., fall armyworm
YieldGard® Rootworm	YGRW	CRW	Cry3Bb1	50%	corn rootworm
Herculex® Rootworm	CRW (HXRW)	CRW (HXRW)	Cry34Ab1 & Cry35Ab1	50%	corn rootworm
Herculex® I	BT (HX I)	BT (HX I)	Cry1F	50%	corn borer spp., fall armyworm, cutworm
Herculex® Xtra	CRW (HXRW)+BT (HX I)	CRW (HXRW)+BT (HX I)	Cry34Ab1 & Cry35Ab1) + Cry1F	50%	corn rootworm, corn borer spp., fall armyworm, cutworm
Agrisure CB/LL	CB/LL	CB+ LL	Cry1Ab + glufosinate tolerance	50%	corn borer spp., fall armyworm
Agrisure CB/LL/RW	CB/LL/RW	CB + LL + RW	Cry1Ab +modified Cry3A + glufosinate tolerance	50%	corn rootworm, corn borer spp., fall armyworm
Agrisure 3000GT	CB/LL/RR/RW	CB + LL + RR + RW	Cry1Ab +modified Cry3A + glufosinate tolerance + glyphosate tolerance	50%	corn rootworm, corn borer spp., fall armyworm
Agrisure Viptera 3110	CB/LL/RR/Viptera	CB+LL+RR+Viptera	Cry1Ab + Vip3A + glufosinate tolerance + glyphosate tolerance	20%	corn borer spp., fall armyworm, corn earworm
Agrisure Viptera 3111	CB/LL/RR/RW/Viptera	CB+LL+RR+RW+Viptera	Cry1Ab + modified Cry3A + Vip3A + glufosinate tolerance + glyphosate tolerance	20%	corn rootworm, corn borer spp., fall armyworm, corn earworm
Optimum Intrasect™	YGCB+HX1+LL+RR2	CB+LL+RR	Cry1Ab+Cry1F	20%	corn borer spp., fall armyworm