







		Corn Insects Controlled*			Herbicide Tolerance	Refuge Required	Insect Trait Event Name	
		Modes of action Above ground	Above ground insect key: BCW=Black cutworm CEW=Corn earworm ECB=European corn borer FAW=Fall armyworm WBC=Western bean cutworm SB=Stalk borer	Modes of action Below ground			Please note refuge requirements. Some are Refuge in Bag (RIB) while others require structured refuge.	Use this tool to track modes of action and build a strategy for your operation. Trait event rotation is one method of Insect Resistance Management (IRM)
	Refuge Advanced powered by SmartStax	M	BCW, CEW, ECB, FAW, WBC, SB	M	RR2,LL	5% in the bag (RIB)	TC1507, DAS59122-7, MON89034, MON88017	Yes
	SmartStax	M	BCW, CEW, ECB, FAW, WBC, SB	M	RR2,LL	5% structured - adjacent	TC1507, DAS59122, MON89034, MON88017	Yes
	PowerCore	M	BCW, CEW, ECB, FAW, WBC, SB	---	RR2,LL, Enlist	5% in the bag (RIB)	TC1507, MON89034	Pending**
 	Herculex I (HXI, HXI/RR)	S	BCW, ECB, FAW, WBC, CEW, SB	---	RR,LL	20% structured -1/2 mile	TC1507	Yes
	Herculex RW (HXRW, HXRW/RR)	---	+++++	S	RR,LL	20% structured - adjacent	DAS59122-7	Yes
	Herculex XTRA (HXX, HXX/RR)	S	BCW, ECB, FAW, WBC, CEW, SB	S	RR,LL	20% structured - adjacent	TC1507, DAS59122-7	Yes
 	Optimum AcreMax (AM)	M	BCW, ECB, FAW, WBC, CEW, SB	---	RR2,LL	5% in the bag (RIB)	TC1507, MON810	Yes
	Optimum AcreMax I (AM1)	S	BCW, ECB, FAW, WBC, CEW	S	RR2,LL	10% in the bag (RW) & 20% structured 1/2 mile (CB)	TC1507, DAS59122-7	Yes
	Optimum AcreMax RW (AMRW)	---	+++++	S	RR2,LL	10% in the bag (RIB)	DAS59122-7	Yes
	Optimum AcreMax TRIsect(AMT)	M	BCW, ECB, FAW, WBC, CEW, SB	S	RR2,LL	10% in the bag (RIB)	TC1507, MON810, MIR604	Yes
	Optimum AcreMax Xtra (AMX)	M	BCW, ECB, FAW, WBC, CEW, SB	S	RR2,LL	10% in the bag (RIB)	TC1507, MON810, DAS59122-7	Yes
	Optimum AcreMax Xtreme (AMXT)	M	BCW, ECB, FAW, WBC, CEW, SB	M	RR2,LL	5% in the bag (RIB)	TC1507, MON810, MIR604, DAS59122-7	Yes
	Optimum Intrasect	M	BCW, ECB, FAW, WBC, CEW, SB	---	RR2,LL	5% structured - 1/2 mile	TC1507, MON810	Pending**
	Optimum Intrasect Leptra	M	BCW, CEW, ECB, FAW, WBC, SB	---	RR2,LL	5% structured - adjacent	TC1507, MON810, MIR164	Pending**
	Optimum Intrasect Xtra	M	BCW, CEW, ECB, FAW, WBC, SB	S	RR2,LL	20% structured - adjacent	TC1507, MON810, DAS59122-7	Pending**
	Optimum Intrasect Xtreme	M	BCW, CEW, ECB, FAW, WBC, SB	M	RR2,LL	5% structured - adjacent	TC1507, MON810, MIR604, DAS59122-7	Pending**
Optimum TRIsect (AMT)	S	BCW, ECB, FAW, WBC, CEW	S	RR2,LL	20% structured - adjacent	TC1507, MIR604	Pending**	
 	YieldGard CB (YGCB, YGCB/RR)	S	ECB, CEW, FAW, SB	---	RR2	20% structured -1/2 mile	MON810	Yes
	YieldGard VT Rootworm	---	+++++	S	RR2	20% structured - adjacent	MON88017	Yes
	YieldGard VT Triple	S	ECB, CEW, FAW, SB	S	RR2	20% structured - adjacent	MON810, MON88017	Yes
	Genuity VT Double PRO RIB Complete	M	CEW, ECB, FAW, SB	---	RR2	5% in the bag (RIB)	MON89034	Yes
	Genuity VT Triple PRO RIB Complete	M	CEW, ECB, FAW, SB	S	RR2	10% in the bag (RIB)	MON89034, MON88017	Yes
	Genuity SmartStaxRIB Complete	M	BCW, CEW, ECB, FAW, WBC, SB	M	RR2,LL	5% in the bag (RIB)	TC1507, DAS59122-7, MON89034, MON88017	Yes
	Agrisure CB/LL/RW	S	ECB, CEW, FAW, SB	S	LL	20% structured - adjacent	Bt11, MIR604	Yes
	Agrisure 3000GT	S	ECB, CEW, FAW, SB	S	GT,LL	20% structured - adjacent	Bt11, MIR604	Yes
	Agrisure Artesian 3011A	S	ECB, CEW, FAW, SB	S	GT,LL	20% structured - adjacent	Bt11, MIR604	Yes
	Agrisure Viptera 3110	S	BCW, CEW, ECB, FAW, WBC, SB	---	GT,LL	20% structured -1/2 mile	Bt11, MIR164	Yes
	Agrisure Viptera 3111	S	BCW, CEW, ECB, FAW, WBC, SB	S	GT,LL	20% structured - adjacent	Bt11, MIR164, MIR604	Yes
	Agrisure 3122 E-Z Refuge	M	BCW, ECB, FAW, WBC, CEW, SB	M	GT,LL	5% in the bag (RIB)	Bt11, TC1507, MIR604, DAS59122-7	Yes
	Agrisure Viptera 3220 E-Z Refuge	M	BCW, CEW, ECB, FAW, WBC, SB	---	GT,LL	5% in the bag (RIB)	Bt11, TC1507, MIR164	Yes
	Agrisure Duracade 5122 E-Z Refuge	M	BCW, CEW, ECB, FAW, WBC, SB	M	GT,LL	5% in the bag (RIB)	Bt11, TC1507, MIR604, 5307	Pending**
	Agrisure Duracade 5222 E-Z Refuge	M	BCW, CEW, ECB, FAW, WBC, SB	M	GT,LL	5% in the bag (RIB)	Bt11, TC1507, MIR164, MIR604, 5307	Pending**

\* - Bold type indicates control otherwise suppression

M=Multiple modes, S= Single mode

\*\* Still requires approval to some export markets