

# Crops – Commercial

## Corn

Bt corn products for 2020 in the Southern U.S. (updated October 2019).

Product trade name (Abbreviation)	Bt protein(s)	Relative Efficacy for Insect Control <sup>1</sup>					Herbicide tolerance <sup>4</sup>	Required refuge in the South <sup>5</sup>	Event(s)
		Corn earworm (ear)	Fall armyworm (whorl)	Corn borers <sup>2</sup> (stalk)	Black cutworm (seedling)	LCB <sup>3</sup> (seedling)			
<b>Agrisure Products</b>									
Agrisure 3011	Cry1Ab mCry3A	P	F-G	E	P/F	G	GT LL	50%	Bt11, MIR604, GA21
Agrisure Viptera 3110	Vip3Aa20 Cry1Ab	E	E	E	VG	G	GT LL	20%	MIR162, Bt11, GA21
Agrisure Viptera 3111	Vip3Aa20 Cry1Ab mCry3A	E	E	E	VG	G	GT LL	20%	MIR162, Bt11, MIR604, GA21
Agrisure Viptera 3220	Vip3Aa20 Cry1Ab Cry1F	VG	E	E	VG	VG	GT LL	20%	MIR162, Bt11, TC 1507, GA21
<b>Optimum Products</b>									
Optimum Intrasect (YHR)	Cry1F Cry1Ab	P	G	E	VG	VG	LL RR2	20%	TC 1507, MON810
Optimum Intrasect XTRA (YXR)	Cry1F Cry1Ab Cry34Ab1/Cry35Ab1	P	G	E	VG	VG	LL RR2	20%	TC 1507, MON810, DAS-59122-7
Optimum Leptra (YYHR)	Cry1F Cry1Ab Vip3Aa20	VG	E	E	VG	VG	LL RR2	20%	TC 1507, MON810, MIR162
<b>YieldGard Products</b>									
YieldGard VT Triple (VT3)	Cry1Ab Cry3Bb1	P	F	E	P	G	RR2	50%	MON810, MON88017
<b>Genuity/SmartStax/P OWCORE Products</b>									
Genuity VT Double PRO (GENVT2P)	Cry1A.105 Cry2Ab2	F	VG	E	P	VG	RR2	20%	MON89034, NK603
Genuity VT Triple PRO (GENVT3P)	Cry1A.105 Cry2Ab2 Cry3Bb1	F	VG	E	P	VG	RR2	20%	MON89034, MON88017
POWERCORE	Cry1A.105 Cry2Ab2 Cry1F	F	E	E	G	VG	LL RR2	20%	MON89034, TC 1507, NK603
SmartStax (SSX, Dow) or Genuity SmartStax (GENSS, Monsanto)	Cry1A.105 Cry2Ab2 Cry1F Cry3Bb1 Cry34Ab1/Cry35Ab1	F	E	E	G	VG	LL RR2	20%	MON89034, TC 1507, MON88017, DAS-59122-7
Trecepta	Cry1A.105 Cry2Ab2 Vip3Aa20	E	E	E	VG	VG	RR2	20%	MON89034, NK603, MIR162,

<sup>1</sup> E = excellent, VG = very good, G = good, F = fair, P = poor. Excellent usually means better than 95% control. Poor means less than about 30% control.

<sup>2</sup> Southwestern corn borer, European corn borer, sugarcane borer and others.

<sup>3</sup> Lepidopteran Bt traits do not specifically list lesser cornstalk borer (LCB) as a target pest.

<sup>4</sup> GT = Glyphosate tolerant; LL= Liberty Link (glufosinate tolerant); RR2= Roundup Ready 2 (glyphosate tolerant).

<sup>5</sup> See product Insect Resistance Management (IRM) documentation from the seed companies for more details.