

Field corn 'events' in the US

New March 2023

All Bt trait stacks in the Handy Bt Trait Table are combinations of a limited number of plant transformations, or 'events'. Inbred lines with these events are crossed to produce hybrid seed corn for commercial sale. The reference table below lists the events, in alphabetical order with their trade names, in Bt hybrids sold in the U.S.

** Every event has a registrant (a company which developed it) and an EPA registration number. Companies may have merged or changed, but the registration numbers remain the same. These numbers are extremely useful for searching government databases.

** Bt toxins in Bt plants may be similar to natural endotoxins or modified proteins developed in the lab. Toxins vary in activity, controlling different pest species as noted in the caterpillar and rootworm columns. Pest acronyms used below: ECB European corn borer, TAW true armyworm, WBC western bean cutworm, WCR/NCR/MCR western/northern/Mexican corn rootworm.

** Many Bt events also express proteins which allow plants to tolerate one or more herbicides as noted in the weeds column.

Event	Trade name	Original registrant EPA Reg #	Gene products expressed in plant for control of: *		
			Caterpillars * target species	Corn rootworm * target species	Weeds * tolerance to:
4114	n/a	Pioneer 29964-17	Cry1F endotoxin * ECB plus borers and ear feeders, except TAW & WBC	Cry34Ab1 endotoxin Cry35Ab1 endotoxin * WCR/NCR/MCR	PAT * glufosinate
5307	Agrisure Duracade	Syngenta Seeds 67979-22		eCry3.1Ab chimera * WCR/NCR/MCR	
Bt11	Agrisure CB	Syngenta 67979-1	Cry1Ab endotoxin * narrow spectrum: ECB & related borers, corn earworm		PAT * glufosinate
DAS 40278	Enlist Maize	Dow AgroSciences n/a			aad-1 * 2,4-D/ fops
DAS 59122	Herculex RW	Mycogen 68467-5 Pioneer 29964-4		Cry34Ab1 endotoxin Cry35Ab1 endotoxin * WCR/NCR/MCR	PAT * glufosinate
GA21	RR Corn or Agrisure GT	Monsanto n/a			mEPSPS * glyphosate
MIR162	Agrisure Viptera	Syngenta Seeds 67979-14	Vip3Aa20 vegetative protein * broad spectrum except ECB		
MIR604	Agrisure RW	Syngenta Seeds 67979-5		mCry3A modified protein * WCR/NCR/MCR	
MON810	YieldGard Corn Borer	Monsanto 524-489	Cry1Ab endotoxin * narrow spectrum: ECB & related borers, corn earworm		CP4 EPSPS * glyphosate
MON863	YieldGard Rootworm	Monsanto 524-528		Cry3Bb1 endotoxin * WCR/NCR/MCR	
MON87411	n/a	Monsanto 524-618		Cry3Bb1 endotoxin dvSnf7 RNAi tech * WCR/NCR/MCR	CP4 EPSPS * glyphosate
MON87427	Roundup Ready	Monsanto n/a			CP4 EPSPS * glyphosate
MON88017	YieldGard VT RW	Monsanto 524-551		Cry3Bb1 endotoxin * WCR/NCR/MCR	CP4 EPSPS * glyphosate
MON89034	YieldGard VT Pro	Monsanto 524-575	Cry1A.105 combination toxin Cry2Ab2 endotoxin * ECB plus borers and ear feeders, except TAW & WBC		
NK603	Roundup Ready 2 (RR2)	Monsanto n/a			CP4 EPSPS * glyphosate
TC1507	Herculex I or Herculex CB	Pioneer 29964-3 Mycogen 68467-2	Cry1Fa2 modified toxin * ECB plus borers and ear feeders, except TAW & WBC		PAT * glufosinate