

BE Corn Crop Summary

BE Corn Events in the Food Supply

BE Event	Trait	Producing Countries	Comments	FDA Review
MZIR098	Insect Resistance, Herbicide Tolerance	Canada, United States		BNF-151
MON87419	Herbicide Tolerance	Brazil, Canada, United States		BNF-148
MZHGOJG	Herbicide Tolerance	Canada, United States		BNF-150
MON87403	Increased Ear Biomass	Canada, United States		BNF-147
MON87411	Insect Resistance, Herbicide Tolerance	Brazil, Canada, United States		BNF-145
VCO-Ø1981-5	Herbicide Tolerance	Canada, Costa Rica, United States		BNF-137
4114	Insect Resistance, Herbicide Tolerance	Canada, United States		BNF-136
HCEM485	Herbicide Tolerance	Canada, United States		BNF-106
MON87427	Herbicide Tolerance	Brazil, Canada, United States	Trade Name: Roundup Ready™	BNF-126
5307	Insect Resistance	Brazil, Canada, United States	Trade Name: Agrisure® Duracade™	BNF-128
DAS40278	Herbicide Tolerance	Brazil, Canada, United States	Trade Name: Enlist™	BNF-120
MON87460	Drought Tolerance	Brazil, Canada, United States	Trade Name: Genuity® DroughtGard™	BNF-116
MIR162	Insect Resistance	Argentina, Brazil, Canada, Colombia, Paraguay, United States	Trade Name: Agrisure™ Viptera	BNF-113
98140	Herbicide Tolerance	Argentina, Canada, United States	Trade Name: Optimum™ GAT™	BNF-111

MON89034	Insect Resistance	Argentina, Brazil, Canada, Honduras, Paraguay, Philippines, South Africa, United States	Trade Name: YieldGard™ VT Pro™	BNF-107
3272	Alpha Amylase	Brazil, Canada, United States	Trade Name: Enogen™	BNF-095
MIR604	Insect Resistance	Argentina, Brazil, Canada, United States	Trade Name: Agrisure™ RW	BNF-099
LY038	Increased Lysine	Canada, United States	Trade Name: Maveria™ Maize	BNF-087
MON88017	Insect Resistance	Argentina, Brazil, Canada, Honduras, United States	Trade Name: YieldGard™ VT™ Rootworm™ RR2	BNF-097
59122	Insect Resistance, Herbicide Tolerance	Canada, United States	Trade Name: Herculex™ RW	BNF-081
TC6275	Insect Resistance, Herbicide Tolerance	Canada, United States		BNF-093
MON863	Insect Resistance	Canada, United States	Trade Name: YieldGard™ Rootworm RW, MaxGard™	BNF-075
TC1507	Insect Resistance, Herbicide Tolerance	Argentina, Brazil, Canada, Colombia, Cuba, Honduras, Pakistan, Paraguay, Philippines, South Africa, United States, Uruguay	Trade Name: Herculex™ I, Herculex™ CB	BNF-073
NK603	Herbicide Tolerance	Argentina, Brazil, Canada, Colombia, Honduras, Panama, Paraguay, Philippines, South Africa, United States, Uruguay	Trade Name: Roundup Ready™ 2	BNF-071
MS6	Male Sterility	United States	Trade Name: InVigor™	BNF-066

676	Herbicide Tolerance, Male Sterility	United States		BNF-036
678	Pollination Control	United States		BNF-036
680	Herbicide Tolerance, Male Sterility	United States		BNF-036
CBH-351	Insect Resistance, Herbicide Tolerance	United States	Trade Name: Starlink™	BNF-041
GA21	Herbicide Tolerance	Argentina, Brazil, Canada, Paraguay, Philippines, South Africa, United States, Uruguay	Trade Name: Roundup Ready™, Agrisure™GT	BNF-051
DBT418	Insect Resistance	Canada, United States	Trade Name: Bt Xtra™	BNF-040
MON802	Insect Resistance, Herbicide Tolerance	Canada, United States		BNF-035
MON 805	Herbicide Tolerance	NONE		BNF-035
MON 831	Herbicide Tolerance	NONE		BNF-035
MON 832	Herbicide Tolerance	NONE	Trade Name: Roundup Ready™	BNF-035
MON810	Insect Resistance, Herbicide Tolerance	Argentina, Brazil, Canada, Chile, Colombia, Egypt, European Union, Honduras, Paraguay, Philippines, South Africa, United States, Uruguay	Trade Name: YieldGard™, MaizeGard™	BNF-034
MON809	Insect Resistance, Herbicide Tolerance	Canada, United States		BNF-034
MON801	Insect Resistance, Herbicide Tolerance	United States		BNF-018

MS3	Male Sterility	Canada, United States	Trade Name: InVigor™	BNF-031
Bt11	Insect Resistance	Argentina, Brazil Canada, Paraguay, Philippines, South Africa, United States, Uruguay	Trade Name: Agrisure™ CB/LL	BNF-017
DLL25	Herbicide Tolerance	Canada, United States		BNF-028
T14	Herbicide Tolerance	Canada, United States	Trade Name: Liberty Link™	BNF-029
Bt176	Insect Resistance	Argentina, Canada, United States	Trade Names: NaturGard KnockOut™, Maximizer™	BNF-024
T25	Herbicide Tolerance	Argentina, Brazil, Canada, United States	Trade Name: Liberty Link™	BNF-029
Bt10	Insect Resistance	none		NO
32138	Fertility Control	Brazil, United States	Trade Name: 32138 SPT maintainer	NO
33121	Insect Resistance, Herbicide Tolerance	NONE		NO

BE Field Corn Production

BE corn is produced commercially in 15 countries. In the following 7 countries, BE corn production represents more than half of all corn production: Argentina, Brazil, Canada, Honduras, South Africa, the United States and Uruguay. Corn sourced from these countries should be presumed to be BE corn. The following 8 countries also produce BE corn: Colombia, Czech Republic, Paraguay, The Philippines, Portugal, Slovakia, Spain and Vietnam.

In 2017, 32% of all global corn production was BE corn (ISAAA, 2017). Since corn grain moves freely in global commerce, and since non-BE corn often commands a premium price, corn grain moving in global commerce should be presumed to be BE corn.

BE Field Corn Food Safety Reviews

FDA biotechnology consultations have been completed for 45 BE corn events (FDA, 2018).

BE Sweet Corn Production

Because all BE sweet corn was developed by breeding with BE field corn, the events are the same. However, only a few of the insect resistant and herbicide tolerant events developed for BE field corn have been bred into BE sweet corn. The biotradestatus database maintained by CropLife International lists the status of two sweet corn products as “Commodity Cultivation”. The sweet corn hybrids sold under the trade names Attribute contain event Bt11 and the sweet corn hybrids sold under the trade name Attribute II contain events Bt11, MIR162 and GA21 (CropLife International, 2018). Please note that the biotradestatus database is populated by CropLife International member companies and may not reflect other products that may also be in the market.

BE sweet corn is produced commercially in Canada and the United States. Production estimates vary from 10% to 25% in the United States. Because many other countries produce BE field corn with the same events present in BE sweet corn, those countries could also become producers of BE sweet corn in the future.

BE Sweet Corn Food Safety Reviews

There are no separate food safety reviews for BE sweet corn. The food safety reviews are based on safety in corn of any genetic background.

BE Popcorn

There is no commercial production of BE popcorn. All popcorn can be presumed to be non-BE.

References

CropLife International (2018) Biotradestatus Database

<http://www.biotradestatus.com/>

FDA (2018) Biotechnology Consultations on Food from GE Plant Varieties

<https://www.accessdata.fda.gov/scripts/fdcc/?set=Biocon>

ISAAA (2017) Global Status of Commercialized Biotech-GM Crops – 2017