

## BE Corn Crop Summary

### BE Corn Events in the Food Supply

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

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

676	Herbicide Tolerance, Male Sterility	United States		<a href="#">BNF-036</a>
678	Pollination Control	United States		<a href="#">BNF-036</a>
680	Herbicide Tolerance, Male Sterility	United States		<a href="#">BNF-036</a>
CBH-351	Insect Resistance, Herbicide Tolerance	United States	Trade Name: Starlink™	<a href="#">BNF-041</a>
GA21	Herbicide Tolerance	Argentina, Brazil, Canada, Paraguay, Philippines, South Africa, United States, Uruguay	Trade Name: Roundup Ready™, Agrisure™GT	<a href="#">BNF-051</a>
DBT418	Insect Resistance	Canada, United States	Trade Name: Bt Xtra™	<a href="#">BNF-040</a>
MON802	Insect Resistance, Herbicide Tolerance	Canada, United States		<a href="#">BNF-035</a>
MON 805	Herbicide Tolerance	NONE		<a href="#">BNF-035</a>
MON 831	Herbicide Tolerance	NONE		<a href="#">BNF-035</a>
MON 832	Herbicide Tolerance	NONE	Trade Name: Roundup Ready™	<a href="#">BNF-035</a>
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™	<a href="#">BNF-034</a>
MON809	Insect Resistance, Herbicide Tolerance	Canada, United States		<a href="#">BNF-034</a>
MON801	Insect Resistance, Herbicide Tolerance	United States		<a href="#">BNF-018</a>

MS3	Male Sterility	Canada, United States	Trade Name: InVigor™	<a href="#">BNF-031</a>
Bt11	Insect Resistance	Argentina, Brazil Canada, Paraguay, Philippines, South Africa, United States, Uruguay	Trade Name: Agrisure™ CB/LL	<a href="#">BNF-017</a>
DLL25	Herbicide Tolerance	Canada, United States		<a href="#">BNF-028</a>
T14	Herbicide Tolerance	Canada, United States	Trade Name: Liberty Link™	<a href="#">BNF-029</a>
Bt176	Insect Resistance	Argentina, Canada, United States	Trade Names: NaturGard KnockOut™, Maximizer™	<a href="#">BNF-024</a>
T25	Herbicide Tolerance	Argentina, Brazil, Canada, United States	Trade Name: Liberty Link™	<a href="#">BNF-029</a>
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