

BE Potato Crop Summary

BE Potato Events in the Food Supply

BE Event	Trait	Producing Countries	Comments	FDA Review
X17	Reduced Black Spot Bruising, Late Blight Protection, Reduced Levels of Free Asparagine and Reducing Sugars	Canada, United States	Trade name: Innate® Acclimate	BNF-153
Y9	Reduced Black Spot Bruising, Late Blight Protection, Reduced Levels of Free Asparagine and Reducing Sugars	Canada, United States	Trade name: Innate® Hibernate	BNF-153
V11	Reduced Black Spot Bruising, Reduced Levels of Free Asparagine and Reducing Sugars	United States	Trade name: Innate® Invigorate	BNF-152
W8	Reduced Black Spot Bruising, Reduced Levels of Free Asparagine and Reducing Sugars	Canada, United States	Trade name: Innate®	BNF-146
F10	Reduced Black Spot Bruising, Reduced Levels of Free Asparagine and Reducing Sugars	Canada, United States	Trade Name: Innate® Generate	BNF-141
E12	Reduced Black Spot Bruising, Reduced Levels of	Canada, United States	Trade Name: Innate® Cultivate	BNF-141

	Free Asparagine and Reducing Sugars			
J3	Reduced Black Spot Bruising, Reduced Levels of Free Asparagine and Reducing Sugars	Canada, United States	Trade Name: Innate® Accelerate	BNF-141
J55	Reduced Black Spot Bruising, Reduced Levels of Free Asparagine and Reducing Sugars	Canada, United States		BNF-141
G11	Reduced Black Spot Bruising, Reduced Levels of Free Asparagine and Reducing Sugars	United States		BNF-141
H50	Reduced Black Spot Bruising, Reduced Levels of Free Asparagine and Reducing Sugars	United States		BNF-141
RBMT21-350	Virus Resistant	Canada, United States	Trade Name: New Leaf™ Plus Russet Burbank	BNF-048
RBMT21-129	Virus Resistant	Canada, United States	Trade Name: New Leaf™ Plus Russet Burbank	BNF-048
RBMT22-082	Virus Resistant	Canada, United States	Trade Name: New Leaf™ Plus Russet Burbank	BNF-048
RBMT21-152	Virus Resistant	United States	Trade Name: New Leaf™ Plus Russet Burbank	BNF-048
RBMT22-238	Virus Resistant	United States	Trade Name: New Leaf™ Plus Russet Burbank	BNF-048

RBMT22-186	Virus Resistant	United States	Trade Name: New Leaf™ Plus Russet Burbank	BNF-048
RBMT22-262	Virus Resistant	United States	Trade Name: New Leaf™ Plus Russet Burbank	BNF-048
RBMT15-101	Virus Resistant	Canada, United States	Trade Name: New Leaf™ Y Russet Burbank	BNF-049
SEMT15-15	Virus Resistant	Canada, United States	Trade Name: Shepody NewLeaf™ Y	BNF-049
SEMT15-02	Virus Resistant	Canada, United States	Trade Name: Shepody NewLeaf™ Y	BNF-049
SEMT15-07	Virus Resistant	United States	Trade Name: Shepody NewLeaf™ Y	BNF-049
HLMT15-3	Virus Resistant	United States	Trade Name: Hi-Lite NewLeaf™ Y	BNF-049
HLMT15-15	Virus Resistant	United States	Trade Name: Hi-Lite NewLeaf™ Y	BNF-049
HLMT15-46	Virus Resistant	United States	Trade Name: Hi-Lite NewLeaf™ Y	BNF-049
ATBT04-31	Insect Resistance	Canada, United States	Trade Name: Atlantic NewLeaf™	BNF-033
ATBT04-36	Insect Resistance	Canada, United States	Trade Name: Atlantic NewLeaf™	BNF-033
ATBT04-6	Insect Resistance	Canada, United States	Trade Name: Atlantic NewLeaf™	BNF-033
SPBT02-5	Insect Resistance	United States	Trade Name: Superior NewLeaf™	BNF-033
ATBT04-30	Insect Resistance	Canada, United States	Trade Name: Atlantic NewLeaf™	BNF-033
SPBT02-7	Insect Resistance	United States	Trade Name: Superior NewLeaf™	BNF-033
BT16	Insect Resistance	Canada, United States	Trade Name: New Leaf™ Russet Burbank	BNF-005
BT10	Insect Resistance	Canada, United States	Trade Name: New Leaf™ Russet Burbank	BNF-005

BT17	Insect Resistance	Canada, United States	Trade Name: New Leaf™ Russet Burbank	BNF-005
BT12	Insect Resistance	Canada, United States	Trade Name: New Leaf™ Russet Burbank	BNF-005
BT23	Insect Resistance	Canada, United States	Trade Name: New Leaf™ Russet Burbank	BNF-005
BT06	Insect Resistance	Canada, United States	Trade Name: New Leaf™ Russet Burbank	BNF-005
BT18	Insect Resistance	Canada, United States	Trade Name: New Leaf™ Russet Burbank	BNF-005

BE Potato Production

BE potatoes are in commercial production in the United States and Canada. Current production is relatively minor; ISAAA (2017) estimated 3000 ha of BE potato production in the United States in 2017. BE potato versions have been developed for three potato cultivars: Atlantic, Ranger Russet and Russet Burbank. All other potato cultivars may be presumed to be non-BE potatoes.

Some fresh market BE potatoes are sold under the trade name White Russet™.

BE Potato Food Safety Reviews

Between 1995 and 2017, the FDA completed 9 biotechnology consultations for 38 BE potato events (FDA, 2018). Of these, 27 events were reviewed in the 1990's and none of these remain in commercial production at this time. Since 2014, FDA has reviewed 11 new BE potato events; some of these are currently in the market.

Food safety reviews for events E12, F10, and J3 have also been conducted by Australia, Canada, Mexico and New Zealand (ISAAA, 2017).

References

- 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