

Reported Genetically Engineered Seed Sales in Vermont, 2002 to 2012

Companies reporting (2.6.13):

The following companies reported sales of GE seeds in Vermont in 2012, as required by 6VSA §648:

Dow/Agrigenetics (dba Mycogen)
Monsanto Ag Products LLC, including Fielder's Choice, Heartland Hybrids, and Hubner Seeds brands
Pioneer Hi-Bred International Inc.
Seedway Inc. , including Agriculver brand
Syngenta Seeds Inc., including Agrisure and Garst seed brands.
T.A. Seeds
Winfield Solutions LLC

GE brand and traits reported (2002 to 2012, inclusive):

<u>Seed Type</u>	<u>Brand</u>	<u>Trait</u>	<u>Herbicide / Pest Tolerance</u>
Alfalfa	Roundup Ready	Herbicide Tolerant	Glyphosate
Canola	Roundup Ready	Herbicide Tolerant	Glyphosate
Corn	Roundup Ready	Herbicide Tolerant	Glyphosate
Corn	Roundup Ready 2	Herbicide Tolerant	Glyphosate
Corn	Liberty Link	Herbicide Tolerant	Glyfosinate - ammonium
Corn	Clearfield ¹	Herbicide Tolerant	Tolimidazolinone
Corn	YieldGard CB	Insect Resistance - Bt	Corn Borer resistant
Corn	Agrisure CB (Bt11)	Insect Resistance - Bt	Corn Borer resistant
Corn	YieldGard RW	Insect Resistance - Bt	Rootworm resistant
Corn	YieldGard Plus	Insect Resistance - Bt	Corn Borer and Rootworm resistant
Corn	Herculex I	Insect Resistance - Bt	Corn Borer, Cutworm, Fall Armyworm Resistant
Corn	YieldGard & Roundup Ready 2	Herbicide Tolerant / Insect Resistance	Stacked Trait
Corn	Herculex & Liberty Link	Herbicide Tolerant / Insect Resistance	Stacked Trait
Corn	Liberty Link & Bt11	Herbicide Tolerant / Insect Resistance	Stacked Trait
Corn	YieldGard/VT Triple	Herbicide Tolerant Insect Resistant	Stacked Trait
Soybean	Roundup Ready	Herbicide Tolerant	Glyphosate
Soybean	Roundup Ready & Soybean Cyst Nematode	Herbicide Tolerant / Nema. Resistant	Stacked Trait
Sunflower	Clearfield	Nematode Resist.	

Notes:

HT = Herbicide Tolerant

IR = Insect Resistant.

IR / HT = Insect Resistant / Herbicide Tolerant

HT / SCN = Herbicide Tolerant / Soybean Cyst Nematode resistant

BT = Seed engineered to produce insecticidal proteins with activity identical to those proteins produced by the insecticidal bacterium *Bacillus thuringiensis* (Bt)

Stacked Trait – Seed with two or more GE traits are said to be ‘stacked’ or to have ‘stacked traits, often tolerance to a broad spectrum herbicide combined with one or more Bt protein traits.

¹“Clearfield” herbicide resistance is bred into seed via traditional breeding and hybridization techniques and is therefore not a genetically engineered trait; however, it has appeared on GE Seed Reporting Forms submitted to the Agency of Agriculture, Food & Markets, and is included here as a result.

² In 2011, significant acreages of corn, all purposes, were reported as having been reseeded as a result of late spring germination failures (flooding, late frosts, killing frosts after seedling emergence, etc.), which may help explain this overage.

* Breakdown of corn traits is not available for 2002.

** Assumes a seeding rate of 20 lb/ac for corn , 50 lb/ac for soybeans, and 15 lb/ac for alfalfa. Calculated acres are derived from percentages, which are rounded.

† Acreage planted data obtained from the National Agricultural Statistics Service (NASS) - <http://www.nass.usda.gov>

†† The amount of GE soybean planted in VT as a percentage of the total is unknown, but is estimated to be in the 85 to 95% range

*** No GE alfalfa was planted in 2007 or 2008 due to the May 3, 2007 Federal injunction prohibiting sale and planting of Roundup Ready alfalfa after that date.