Bt11 x MIR162 Corn

[Alternate brand name: "Agrisure™ 2100"]

OECD Unique Identifier: SYN-BT011-1 x SYN-JR162-4

Plant-incorporated protectant:
Cry1Ab and Vip3Aa20 proteins for control of corn borers and other lepidopteran pests
This product is effective in controlling corn leaf, stalk, and ear damage caused by corn borers and certain lepidopteran pests.

Active Ingredients:
Bacillus thuringiensis Cry1Ab delta-endotoxin protein and the genetic material necessary for its production (via elements of vector pZO1502) in Bt11 x MIR162 corn (SYN-BT011-1).................................0.00140 – 0.00204%

Bacillus thuringiensis Vip3Aa20 insecticidal protein and the genetic material necessary for its production (via elements of vector pNOV1300) in Bt11 x MIR162 corn (SYN-JR162-4)...........................................0.0068 – 0.0087%

Other Ingredients:
A marker protein and the genetic material necessary for its production (via elements of vector pZO1502) in Bt11 x MIR162 corn (SYN-BT011-1).................................0.000065 – 0.000086%

A marker protein and the genetic material necessary for its production (via elements of vector pNOV1300) in Bt11 x MIR162 corn (SYN-JR162-4).................................0.00035 – 0.00042%

*Percentage in whole plants on a dry-weight basis

KEEP OUT OF REACH OF CHILDREN
CAUTION

EPA Registration No. 67979-12     Syngenta Seeds, Inc. - Field Crops - NAFTA
EPA Establishment No. 66736-NC-01     P.O. Box 12257
                                      3054 East Cornwallis Rd.
                                      Research Triangle Park, NC 27709

DIRECTIONS FOR USE

It is a violation of federal law to use this product in any manner inconsistent with this labeling. All corn seed that contains the plant-incorporated protectant sold or distributed by Syngenta Seeds or its distributors must be accompanied by informational material (e.g., a bag

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tag) indicating the registration number (67979-12) and the active ingredients, and stipulating that growers read the Grower Guide (or equivalent guidance) prior to planting the seed.

**Insects Controlled or Suppressed**

Field corn has been genetically transformed to produce the insecticidal proteins, Cry1Ab and Vip3Aa20, for control or suppression of the following lepidopteran:

- European corn borer (*Ostrinia nubilalis*)
- Southwestern corn borer (*Diatraea grandiosella*)
- Southern cornstalk borer (*Diatraea crambidoides*)
- Corn earworm (*Helicoverpa zea*)
- Fall armyworm (*Spodoptera frugiperda*)
- Beet armyworm (*Spodoptera exigua*)
- Black cutworm (*Agrotis ipsilon*)
- Western bean cutworm (*Striacosta albicosta*)
- Sugarcane borer (*Diatraea saccharalis*)
- Common stalk borer (*Papaipema nebris*)

**Insect Resistance Management**

The following information regarding commercial production of *Bt11 x MIR162* corn must be included in the Grower Guide (or equivalent).

*Refuge Requirements for Bt11 x MIR162 Corn*

These refuge requirements do not apply to seed increase/propagation of inbred and hybrid seed corn up to a total of 20,000 acres per county and up to a combined United States (U.S.) total of 250,000 acres per plant-incorporated protectant (PIP) active ingredient per registrant per year.

Grower agreements (also known as stewardship agreements) will specify that growers must adhere to the refuge requirements as described in the grower guide/product use guide and/or in supplements to the grower guide/product use guide.

- Specifically, growers must plant a structured refuge of at least 20% non-*Bt* corn and/or non-lepidopteran resistant *Bt* corn that may be treated with insecticides, as detailed below, to control lepidopteran stalk-boring and other pests.

- Refuge planting options include: separate fields, blocks within fields (e.g., along the edges or headlands), perimeter strips, and strips across the field (see diagrams below).
• External refuges must be planted within ½ mile.

• When planting the refuge as strips across the field or as perimeter strips, refuges must be at least 4 consecutive rows wide.

• Insecticide treatments for control of European corn borer, corn earworm, Southwestern corn borer, and other lepidopteran pests listed on the label, grower guides, or other educational material may be applied only if economic thresholds are reached for one or more of these target pests. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents or crop consultants). Instructions to growers will specify that microbial Bt insecticides must not be applied to non-Bt corn and/or non-lepidopteran resistant Bt corn refuges.

The following are schematics of the various refuge deployment options: