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## SECTION 16.2

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### PRODUCTION OF HYBRID SUNFLOWER

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In this Section:

- **Hybrid Sunflower** includes all varieties of Hybrid Sunflower (*Helianthus annuus*).
- **Sunflower** includes all Sunflower species (*Helianthus spp.*).

Regulations for production of Open Pollinated Sunflower (*Helianthus annuus*) are in Section 16.1.

Section 1, *Regulations for All Pedigreed Seed Crops*, together with the following, constitute the production regulations.

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#### **16.2.1 SEED CLASSES AND GENERATIONS**

- 16.2.1.1 The number of official pedigreed classes is determined by the Breeder of the variety and normally Foundation parental material is planted to produce Certified hybrid crops.
- 16.2.1.2 Foundation seed: limited to one generation.
- 16.2.1.3 Certified seed: limited to one generation.

#### **16.2.2 LAND REQUIREMENTS**

- 16.2.2.1 Hybrid Sunflower crops must not be grown on land which in the previous year grew a non-pedigreed crop of Sunflower or a different variety of Sunflower.

#### **16.2.3 CROP INSPECTION**

The basic standards for all crops are set out in Section 1.7. In addition, the following apply to crops in this section:

- 16.2.3.1 It is the grower's responsibility to ensure that crops are inspected by an authorized inspector prior to swathing or harvesting.
- 16.2.3.2 A crop that is cut, swathed or harvested prior to crop inspection is not eligible for pedigree.
- 16.2.3.3 The crop must be inspected at a stage of growth when varietal purity is best determined. Crops not inspected at the proper stage for best determining varietal purity may be cause for declining pedigreed status.
- 16.2.3.4 A first crop inspection shall be made during early bloom stage and a second crop inspection shall be made at full bloom stage.

**16.2.4 CROP STANDARDS****16.2.4.1 Isolation**

- a) Hybrid Sunflower crops for Foundation or Registered status must be isolated by a distance of 400 meters (1312 feet) from other varieties of Hybrid Sunflower or from a non-pedigreed crop of Hybrid Sunflower.
- b) Hybrid Sunflower crops for Certified status must be isolated by a distance of 200 meters (656 feet) from other varieties of Hybrid Sunflower or from a non-pedigreed crop of Hybrid Sunflower.
- c) The required isolation must be provided prior to the time of flowering and crop inspection.

**16.2.4.2 Weeds**

- a) All crops for pedigree must be free of Prohibited noxious weeds.
- b) Very weedy crops will be declined pedigreed status.

**16.2.4.3 Maximum Impurity Standards**

The maximum impurity levels outlined in Table 16.2.4.3 apply, unless variants are specified by the responsible Breeder.

**Table 16.2.4.3: Maximum Impurity Standards**

| Impurity                     | Maximum Permitted<br>in each class |                    |                    |
|------------------------------|------------------------------------|--------------------|--------------------|
|                              | Foundation                         | Registered         | Certified          |
| Other varieties of Sunflower | 1 per 1,000 plants                 | 1 per 1,000 plants | 1 per 1,000 plants |

**16.2.5 SPECIFIC REQUIREMENTS****16.2.5.1 Flowering**

At least 50 percent of the male parent plants must be flowering and producing pollen when the female parent is in full bloom. Female plants flowering and shedding pollen, before the male parent plants are shedding pollen, must be removed.

**16.2.5.2 Roguing**

In Foundation crops of parental materials, to be used for the production of Certified hybrids and in the male rows of Certified hybrid crops, all off-type plants must be removed before any cross pollination has occurred.