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## SECTION 14.3

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### FOUNDATION AND CERTIFIED PRODUCTION OF HYBRID SORGHUM

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In this Section:

- **Hybrid Sorghum** includes all varieties of Hybrid Sorghum (*Sorghum vulgare*).
- **Sorghum** includes all Sorghum (*Sorghum vulgare*).

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

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#### **14.3.1 SEED CLASSES AND GENERATIONS**

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

#### **14.3.2 LAND REQUIREMENTS**

- 14.3.2.1 Hybrid Sorghum crops must not be grown on land which in the previous year grew a non-pedigreed crop of Sorghum or a different variety of Sorghum unless the previous crop was a pedigreed crop of one or both of the parents of the inspected hybrid crop.
- 14.3.2.2 Hybrid Sorghum crops must not be grown on land which in the previous year grew a crop of Sudangrass or Broomcorn..

#### **14.3.3 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:

- 14.3.3.1 It is the grower's responsibility to ensure that crops are inspected by an authorized inspector prior to swathing or harvesting.
- 14.3.3.2 A crop that is cut, swathed or harvested prior to crop inspection is not eligible for pedigree.
- 14.3.3.3 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.
- 14.3.3.4 Two crop inspections shall be made during the bloom stage, one in early bloom and one in full bloom. A third crop inspection shall be made before harvest but after the seed begins to assume mature colour.

### 14.3.4 **CROP STANDARDS**

#### 14.3.4.1 **Isolation**

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

#### 14.3.4.2 **Weeds**

- a) All crops for pedigree should be free of Prohibited and Primary noxious weeds.
- b) Very weedy crops may be declined pedigreed status.

#### 14.3.4.3 **Maximum Impurity Standards**

The maximum impurity levels outlined in Table 14.3.4.3 apply, unless variants are specified by the responsible Breeder.

**Table 14.3.4.3: Maximum Impurity Standards**

Impurity	Maximum Permitted At One Crop Inspection	
	Foundation	Certified
Other varieties of Sorghum		
Definite	1 per 50,000 plants	1 per 20,000 plants
Doubtful	1 per 20,000 plants	1 per 1,000 plants

### 14.3.5 **SPECIFIC REQUIREMENTS**

#### 14.3.5.1 **Flowering**

At any one crop inspection, the maximum pollen shedding permitted by seed (female) parent plants is 1 per 3,000 plants for Foundation crops and 1 per 1,500 plants for Certified hybrid crops.