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**SECTION 14.15**

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**FOUNDATION, REGISTERED AND CERTIFIED PRODUCTION OF QUINOA**

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In this Section:

- **Quinoa** includes all varieties of all types of Quinoa (*Chenopodium quinoa*).

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

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**14.15.1 SEED CLASSES AND GENERATIONS**

- 14.15.1.1 The number of official pedigreed classes is determined by the Breeder of the variety and are normally Foundation, Registered and Certified.
- 14.15.1.2 For Select or Probation plot production, refer to the general requirements for plots in Section 12. Land and crop inspection requirements for plot production of Quinoa are the same as for Foundation status crops.
- 14.15.1.3 For those growers who are not accredited by CSGA to grow Probation, Select or Foundation plots, and who plant crops with Breeder or Select seed, CSGA reserves the right to determine the status of the crop and may issue a Registered or Certified crop certificate.

**14.15.2 LAND REQUIREMENTS**

- 14.15.2.1 Quinoa crops must not be grown on land which in the previous year grew a non-pedigreed crop of Quinoa or a different variety of Quinoa.
- 14.15.2.2 Pedigreed class of crops determined by the previous crop
- a) Land requirements prevent production of a higher pedigreed status crop (of the same variety) than the pedigreed status of the crop produced on that land the previous year.
  - b) Breeder or Select seed of the same variety may be sown in two consecutive years on the same land and the crop will be eligible for Foundation status. The third and fourth consecutive crops of the same variety on the same land, if planted with Breeder, Select or Foundation seed, will be eligible for Registered status.
  - c) Foundation seed of the same variety may be sown in two consecutive years on the same land and the crop will be eligible for Registered status. The third and fourth consecutive crops of the same variety on the same land, if planted with Breeder, Select, Foundation or Registered seed, will be eligible for Certified status.
  - d) Breeder, Select, Foundation or Registered seed of the same variety may be sown to produce a Certified seed crop on the same land for unlimited consecutive years.

### **14.15.3 CROP INSPECTION**

The basic standards for all crops are set out in Section 1. In addition, the following apply to Quinoa crops in this section:

- 14.15.3.1 It is the grower's responsibility to ensure that crops are inspected by an authorized inspector prior to swathing or harvesting.
- 14.15.3.2 A crop that is cut, swathed or harvested prior to crop inspection is not eligible for pedigree.
- 14.15.3.3 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.
- 14.15.3.4 At least one field inspection is required. The inspection should be done during the bloom stage but not before at least 50 percent of the plants are showing one or more blossoms.

### **14.15.4 CROP STANDARDS**

#### **14.15.4.1 Isolation**

- a) Quinoa crops for Foundation status must be isolated by a minimum distance of 200 meters (656 feet) from crops of other varieties of Quinoa or from a non-pedigreed crop of Quinoa.
- b) Quinoa crops for Registered status must be isolated by a minimum distance of 100 meters (328 feet) from crops of other varieties of Quinoa or from a non-pedigreed crop of Quinoa.
- c) Quinoa crops for Certified status must be isolated by a minimum distance of 100 meters (328 feet) from crops of other varieties of Quinoa or from a non-pedigreed crop of Quinoa.
- d) The required isolation must be provided prior to flowering and crop inspection.

#### **14.15.4.2 Weeds**

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

#### **14.15.4.3 Maximum Impurity Standards**

- a) The maximum impurity levels outlined in Table 14.15.4.3 below apply to Quinoa crops in this section. Table 14.15.3 indicates the maximum number of plants of other varieties or other crop kinds permitted in approximately 10,000 plants of the inspected crop. The inspector makes 6 counts (10,000 plants each) in the field to determine the number of impurities. The resulting average must not exceed the maximum impurity standards in Table 14.15.4.3.

**Table 14.15.4.3: Maximum Impurity Standards**

<b>Inspected Crop</b>	<b>Off-types or Other Varieties of the inspected crop kind</b>		
	<b>Foundation</b>	<b>Registered</b>	<b>Certified</b>
Quinoa	10 per 10,000 plants	15 per 10,000 plants	20 per 10,000 plants