

# Orchardgrass – Foundation, Registered and Certified Production

## General Requirements for All Pedigreed Seed Crops

The basic standards for all crops are set out in [General Requirements for All Pedigreed Seed Crops](#). In addition, the following standards apply to Orchardgrass.

### Land Requirements\*

| Inspected Crop    | Must NOT be grown on land which:   |
|-------------------|--|
| <b>Foundation</b> | <p>In any of the 5 years prior to the year of seeding produced:</p> <ul style="list-style-type: none"><li>• a non-pedigreed crop of Orchardgrass.</li><li>• a different variety of Orchardgrass.</li></ul> <p>In any of the 3 years prior to the year of seeding produced:</p> <ul style="list-style-type: none"><li>• a pedigreed crop of the same variety.</li></ul> |
| <b>Registered</b> | <p>In any of the 3 years prior to the year of seeding produced:</p> <ul style="list-style-type: none"><li>• a crop of Orchardgrass.</li></ul>  |
| <b>Certified</b>  | <p>In any of the 2 years prior to the year of seeding produced:</p> <ul style="list-style-type: none"><li>• a crop of Orchardgrass.</li></ul>  |

\*Except where chemical control measures acceptable to the CSGA have been taken to eradicate growth from a previous crop of Orchardgrass.

### Crop Inspection

Orchardgrass crops must be inspected when the crop is headed and before harvest.

### Age of Stand

The maximum number of years pedigreed seed can be produced from a stand of Orchardgrass established with Breeder or Foundation seed is outlined below. The class that can be produced from a stand varies with the class used to establish the crop, the classes of seed through which a given variety may be multiplied and the number of years the stand has been in production.

| When crop is established with:                       |           |   |            |  |  |           |
|--|-----------|---|------------|--|--|-----------|
| Breeder seed of a variety without a Registered class |           | Breeder seed of a variety with a Registered class |            | Foundation seed of a variety without a Registered class* | Foundation seed of a variety with a Registered class |           |
| Foundation   | Certified | Foundation  | Registered | Certified  | Registered   | Certified |
| 3 yrs.   | +         | 3 yrs.  | +          | 3 yrs.   | +  | 3 yrs.    |
|  |           |   |            | 6 yrs.   |  |           |

\*Or when crop is established with Registered seed of a variety with a Registered class.

## Crop Standards

### Isolation

The isolation must be reasonably free from plants that may cross pollinate with the inspected crop. The risk to varietal purity posed by plants that may cross pollinate varies depending on area, density, stage of maturity and distance from the inspected crop. These factors will be taken into consideration in determining the pedigreed status of the inspected crop. Not more than 3 plants per square meter, on average, of plants that may cross pollinate with the inspected crop should be in the required isolation adjacent to an inspected crop.

### Minimum Isolation Distances Required from an Inspected Crop to Other Crops:

#### 1. Varietal Purity

|  | Distance              |
|--|-----------------------|
| a. Inspected pedigreed Orchardgrass of same variety and class        | 1 meter (3 feet)      |
| b. Inspected pedigreed Orchardgrass of same variety, different class | 3 meters (10 feet)    |
| c. Planted with Certified seed of the same variety                   | 3 meters (10 feet)*   |
| d. Different varieties of Orchardgrass or non-pedigreed Orchardgrass | Isolation table below |

\* For Certified crop status only, provided the pedigree of the Certified seed used can be established.

| Area of Inspected Crop | Minimum Isolation Distance |                |                |
|------------------------|----------------------------|----------------|----------------|
|                        | Foundation                 | Registered     | Certified      |
| 5 acres or less        | 400 m (1312 ft)            | 300 m (984 ft) | 150 m (492 ft) |
| More than 5 acres      | 300 m (984 ft)             | 100 m (328 ft) | 50 m (164 ft)  |

### Border Removal in Lieu of Isolation:

For seed crops in excess of 5 acres, removal of a border from the inspected crop in lieu of the required isolation to a different variety or non-pedigreed Orchardgrass is permitted as outlined in the table below. The border must be allowed to shed pollen before being discarded.

| <b>Border Removal in Lieu of Isolation Distances</b> |  |  |
|--|--|--|
| <b>Inspected Crop</b>                                | <b>Actual isolation distance from contaminating source</b> | <b>Distance to be removed from the inspected seed crop</b>       |
| <b>Foundation</b>                                    | 300 m (984 ft) +   | 0 m (0 ft)   |
|  | 200 - 299 m (656 - 983 ft)                                 | 3 m (10 ft)  |
|  | 150 - 199 m (492 - 655 ft)                                 | 5 m (16 ft)  |
|  | less than 150 m (492 ft)                                   | 5 m (16 ft) + 150 m (492 ft) minus the actual isolation distance |
| <b>Registered</b>                                    | 100 m (328 ft) +   | 0 m (0 ft)   |
|  | 75 - 99 m (246 - 327 ft)                                   | 3 m (10 ft)  |
|  | 50 - 74 m (164 - 245 ft)                                   | 5 m (16 ft)  |
|  | less than 50 m (164 ft)                                    | 5 m (16 ft) + 50 m (164 ft) minus the actual isolation distance  |
| <b>Certified</b>                                     | 50 m (164 ft)  | 0 m (0 ft)   |
|  | 30 - 49 m (98 - 163 ft)                                    | 3 m (10 ft)  |
|  | 25 - 29 m (82 - 97 ft)                                     | 5 m (16 ft)  |
|  | less than 25 m (82 ft)                                     | 5 m (16 ft) + 25 m (82 ft) minus the actual isolation distance   |

### **Maximum Impurity Standards**

#### **1. Varietal Purity** (on average in either 10 or 100 m<sup>2</sup>)

- a. Off-types/other varieties of the same crop kind
  - i. Foundation – 3 plants/100 m<sup>2</sup>
  - ii. Registered – 1 plant/10 m<sup>2</sup>
  - iii. Certified – 1 plant/10 m<sup>2</sup>

#### **2. Mechanical Purity**

- a. Plants with seed difficult to separate (DTS) from seed of the inspected crop will be reported by frequency in the field and will not be a factor in the seed crop certification decision. For Orchardgrass that includes Bentgrass, Bluegrass and Redtop.