

The South African Seed Certification Scheme

ANNEXURE 12

REQUIREMENTS RELATING TO CAULIFLOWER, CABBAGE & BROCCOLI [*Brassica oleracea* L. var. *capitata* L., *B. oleracea* L. convar *botrytis* (L.) Alef. var. *botrytis*] & [*Brassica oleracea* L. convar *botrytis* (L.) Alef. var. *cymosa* Duchenense]

1 Field requirements

A field may be registered as a unit only if no plants of any *Brassica* spp., have been established thereon for seed production or otherwise during the growing season preceding the registration thereof.

2 Planting requirements

- 2.1 Plants shall be established in rows on a unit.
- 2.2 Gap-filling in rows shall not be permissible.

3 Isolation requirements

- 3.1 A unit shall be surrounded by an isolation area which -
 - 3.1.1 in the case of the intended production of certified pre-basic seed or basic seed of -
 - 3.1.1.1 an open-pollinated variety, is at least 3 000 metres wide; and
 - 3.1.1.2 a hybrid variety, is at least 3 000 metres wide; and
 - 3.1.2 in the case of the intended production of certified seed -
 - 3.1.2.1 of an open-pollinated variety, is at least 1 500 metres wide; and
 - 3.1.2.2 of a hybrid variety, is at least 1 500 metres wide
- 3.2 Such an isolation area shall be free from plants of any *Brassica* variety or species of *Brassica* which flower at the same time as the plants on the unit concerned, unless -
 - 3.2.1 in the case of the intended production of certified basic seed, they have been established from certified pre-basic seed of the same variety; and
 - 3.2.2 in the case of the intended production of certified seed, they have been established from certified pre-basic seed or basic seed of the same variety; and
 - 3.2.3 in the case of the intended production of a variety of 2nd generation certified seed, they have been established from 1st generation certified seed of the same variety.

4 Requirements for plants

- 4.1 The number of deviating plants on a unit shall -
 - 4.1.1 in the case of the intended production of certified pre-basic seed or basic seed, not exceed 0,2 percent; and
 - 4.1.2 in the case of the intended production of certified seed, not exceed 0,5 percent.
- 4.2 If male sterility is used in the seed parent of a hybrid variety -
 - 4.2.1 the number of deviating pollen-shedding plants of the pollen parent on a unit shall -
 - 4.2.1.1 in the case of the intended production of certified pre-basic seed or basic seed, not exceed 0,2 percent of the plants of the pollen parent at the stage on which 2,0 percent or more of the plants of the seed parent has pollen susceptible flowers;
 - 4.2.1.2 in the case of the intended production of certified seed, not exceed 0,5 percent of the plants of the pollen parent at the stage on which 5,0 percent or more of the plants of the seed parent has pollen-susceptible flowers.
 - 4.2.2 the number of deviating plants of the seed parent on a unit shall -
 - 4.2.2.1 in the case of the intended production of certified pre-basic seed or basic seed not exceed 0,5 percent of the plants of the seed parent; and
 - 4.2.2.2 in the case of the intended production of certified seed, not exceed 1,0 percent of the plants of the seed parent; and
 - 4.2.3 the number of pollen-shedding plants of the seed parent on a unit shall -
 - 4.2.3.1 in the case of the intended production of certified pre-basic seed or basic seed, not exceed 0,2 percent of the plants of the seed parent at the stage at which 2,0 percent or more of the plants of the seed parent has pollen-susceptible flowers: Provided that the aggregate of the number of pollen-shedding flowers found during inspections shall not exceed 0,5 percent of the plants of the seed parent; and
 - 4.2.3.2 in the case of the intended production of certified seed, not exceed 0,5 percent of the plants of the seed parent at the stage at which 5,0 percent or more of the plants of the seed parent has pollen-susceptible flowers. Provided that the aggregate number of plants with pollen-shedding flowers found during inspections shall not for the three inspections showing the highest incidence of such plants, exceed 1,0 percent of the plants of the seed parent.

5 Inspection requirements

- 5.1 Seedlings shall be inspected before they are established on a unit.
- 5.2 Plants which are established on a unit from such seedlings shall be inspected –
 - 5.2.1 before the flowering stage thereof;
 - 5.2.2 during the flowering stage thereof;
 - 5.2.3 during the full seed stage thereof; and
 - 5.2.4 in the case of a hybrid variety, after the plants of the pollen parent have been removed.
- 5.3 If plants of a hybrid variety have been established on a unit -
 - 5.3.1 the seed grower concerned shall notify the authorised person at least 10 days prior to the date on which -
 - 5.3.1.1 the plants of the seed parent are expected to start flowering; and
 - 5.3.1.2 the pollen parent to be removed; and
 - 5.3.2 the seed of the plants of the seed parent may not be harvested before the inspection referred to in paragraph 5.2.4 has been carried out.

6 Physical requirements

- Seed shall -
 - 6.1 have a germination percentage of at least 75;
 - 6.2 have at least 98,0 percent pure seed; and
 - 6.3 not contain more than -
 - 6.3.1 0,1 percent other seed; and
 - 6.3.2 2,0 percent other material.
 - 6.3.3 Notwithstanding the provisions of paragraph 6.3.1, not more than one seed of any of the restricted weed seed species may occur in an ISTA working sample for the determination of other seed by number of the specie being tested.