

SCHEDULE 4

Regulations 3(1) and (3), 5(4), (6), (7) and (8) and 9(2)

REQUIREMENTS FOR BASIC SEED, CERTIFIED SEED AND STANDARD SEED

PART I

BASIC SEED AND CERTIFIED SEED

CONDITIONS RELATING TO CROPS FROM WHICH SEEDS ARE OBTAINED

1. So far as the Minister can ascertain them, by the use of methods which shall include official examination of the crop and which may, at such stages in the production of a variety as the Minister may require, include examination of a plot sown with a sample from the seed lot sown in the field and the consideration of any other relevant information, the requirements for the crop set out below shall be met.

Varietal identity and varietal purity

2. The characteristics for the determination of varietal identity and varietal purity shall be those recognised as those of the variety for the purposes of the National List or the Common Catalogue.

Crop inspections

3. The crop shall be officially examined in such manner and at such times (when the cultural condition of the field and the stage of development and condition of the crop are such as to permit suitable checks of varietal identity, varietal purity and species purity to be made) as the Minister may reasonably require.

Crop health

4. The crop shall be of a satisfactory state of health insofar as seed-borne diseases and organisms affecting the seeds are concerned.

Previous cropping

5. The crop may be grown only on land which has not previously been cropped in a manner that might adversely affect the nature or quality of the seeds to be produced and which complies with the Minister's requirements in that respect.

Isolation distances

6. There shall be either a physical barrier or at least 2 metres of fallow between the seed crop and any crop likely to cause contamination in the seed.

7. Throughout the period of flowering of the crop there shall be the following minimum distances from sources of undesirable pollen capable of fertilising the seed crop—

(a) Beta species

(i) from any pollen sources of the genus Beta 1000m
not included in subparagraphs (ii) or (iii)

(ii) from pollen sources of varieties of the same sub-species belonging to a different group of varieties—

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Crops to produce Basic Seed	1000m
Crops to produce Certified Seed	600m

(iii) from pollen sources of varieties of the same sub-species belonging to the same group of varieties—

Crops to produce Basic Seed	1000m
Crops to produce Certified Seed	600m

(b) Brassica species—

Crops to produce Basic Seed	1000m
Crops to produce Certified Seed	600m

(c) other cross-fertilised vegetable species—

Crops to produce Basic Seed	500m
Crops to produce Certified Seed	300m

With the approval of the Minister, these distances may be modified if there is adequate protection against undesirable pollen.

For the purposes of this paragraph the groups of varieties of the Beta species shall be those set out in the following table classified in groups according to their characteristics. Where the crop is of a genetically monogerm variety, multigerm varieties shall be deemed to belong to a different group—

(1) Beta vulgaris L. var. vulgaris, Spinach beet, chard

1 <i>Group</i>	2 <i>Characteristics</i>
1	White petiole and pale green leaf blade, without anthocyanin coloration.
2	White petiole and medium or dark green leaf blade, without anthocyanin coloration.
3	Green petiole and medium or dark green leaf blade, without anthocyanin coloration.
4	Pink petiole and medium or dark green leaf blade.
5	Red petiole and leaf blade with anthocyanin coloration.

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(2) Beta vulgaris L. Var. conditiva Alef., red beet or beetroot

1 <i>Group</i>	2 <i>Characteristics</i>
1	Transverse narrow elliptic or transverse elliptic shape of root longitudinal section and root flesh red or purple.
2	Circular or broad elliptic shape of root longitudinal section and root flesh white.
3	Circular or broad elliptic shape of root longitudinal section and root flesh yellow.
4	Circular or broad elliptic shape of root longitudinal section and root flesh red or purple.
5	Narrow oblong shape of root longitudinal section and root flesh red or purple.
6	Narrow obtriangular shape of root longitudinal section and root flesh red or purple.

Varietal purity standards

(a) (a) For crops of Brassicas, French bean, broad bean, and pea the minimum varietal purity standards shall be:—

<i>Kind</i>	<i>Varietal purity percentage by number in crops to produce</i>	
<i>Basic Seed</i>	<i>Certified Seed</i>	
Brassicas (other than turnip)	99.8	99.5
Turnip	99.7	98.0
French bean	99.8	99.0
Broad Bean	99.7	99.0
Peas	99.995	99.995

(b) Within the standards laid down in (a) above the maximum percentage of flower colour off-types shall not exceed the percentages here specified:—

<i>Kind</i>	<i>Basic Seed</i>	<i>Certified Seed</i>
French bean	0.1	0.5
Broad bean	NIL	0.01
Peas	NIL	NIL

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PART II

BASIC SEED, CERTIFIED SEED AND STANDARD SEED CONDITIONS RELATING TO THE SEEDS

1. The seeds shall possess adequate varietal identity and varietal purity.
2. The seeds shall meet the following minimum standards:—

<i>Kin(a)</i>	<i>Minimum analytical purity (% by weight)</i>	<i>Maximum content of seeds of other plant species (% by weight)</i>	<i>Minimum germination (% of pure seeds or pellets)</i>
Asparagus	96	0.5	70
Beet (except var. Cheltenham)	97	0.5	70 (Clusters)
Beet (var. Cheltenham)	97	0.5	50 (Clusters)
Broad bean	98	0.1	80
Brussels sprouts	97	1	75
Cabbage	97	1	75
Calabrese	97	1	75
Carrot	95	1	65
Cauliflower	97	1	70
Celeriac	97	1	70
Celery	97	1	70
Chicory	95	1.5	65
Chinese cabbage	97	1	75
Cucumber	98	0.1	80
Curly Kale or borecole	97	1	75
Endive	95	1	65
French bean	98	0.1	75
Gherkin	98	0.1	80
Gourd	98	0.1	80
Kohl rabi	97	1	75
Leek	97	0.5	65
Lettuce	95	0.5	75
Marrow	98	0.1	75
Melon	98	0.1	75
Onion	97	0.5	70

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<i>Kind</i>	<i>Minimum analytical purity (% by weight)</i>	<i>Maximum content of seeds of other plant species (% by weight)</i>	<i>Minimum germination (% of pure seeds or pellets)</i>
Parsley	97	1	65
Pea	98	0.1	80
Radish	97	1	70
Red Cabbage	97	1	75
Runner bean	98	0.1	80
Savoy cabbage	97	1	75
Spinach	97	1	75
Sprouting broccoli	97	1	75
Tomato	97	0.5	75
Turnip	97	1	80

(b) Additional requirements

- (i) Seeds of runner beans, French bean, pea or broad bean must not be contaminated by the following live pea and bean seed beetles:

*Acanthoscelides obtectus*Say.

*Bruchus affinis*Fro.

*Bruchus atomarius*L.

*Bruchus pisorum*L.

*Bruchus rufimanus*Boh.

- (ii) Seeds must not be contaminated with live mites (*Acarina*).

3. The seeds shall be of a satisfactory state of health in so far as seed-borne diseases and organisms affecting the seeds are concerned. The following standards or measures shall apply:—

<i>Kind</i>	<i>Disease</i>	<i>Category</i>	<i>No. of seeds to be examined</i>	<i>Standard</i>
Brassicas	<i>Phoma lingam</i> (Canker)	Basic Seed	1,000	*Nil infection
Red beet or beetroot	<i>Phoma betae</i> (Blackleg)	Basic Seed	200	*Nil Infection
Celery	<i>Septoria apiicola</i> (Leaf blight),	Basic Seed Certified Seed	400	*Nil infection
Peas	<i>Phoma apiicola</i> (Root rot) <i>Ascochyta pisi</i>	Basic Seed	200	*Nil infection

* Where infected seeds are found an effective treatment approved by the Minister must be applied before the seeds can be officially certified.

† Where not more than 20 infected seeds are found in Basic Seed, or more than 20 infected seeds are found in Certified Seed an effective treatment approved by the Minister must be applied before the seeds can be officially certified.

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<i>Kind</i>	<i>Disease</i>	<i>Category</i>	<i>No. of seeds to be examined</i>	<i>Standard</i>
	<i>Mycosphaerella pinodes</i> , <i>Ascochyta pinodella</i> , (Leaf and pod spot)	Certified Seed	200	†Not more than 20 seeds
Lettuce	Lettuce mosaic virus	Basic Seed Certified Seed	5,000	Nil Infection
French beans	(i) <i>Colletotrichum lindemuthianum</i> (Anthracnose)	Basic Seed	600	Nil infection
	(ii) <i>Pseudomonas phaseolicola</i> (Halo blight)	Basic Seed	5,000	Nil infection
Broad beans	<i>Ascochyta fabae</i> (Leaf and pod spot)	Basic Seed	600	Nil infection
* Where infected seeds are found an effective treatment approved by the Minister must be applied before the seeds can be officially certified.				
† Where not more than 20 infected seeds are found in Basic Seed, or more than 20 infected seeds are found in Certified Seed an effective treatment approved by the Minister must be applied before the seeds can be officially certified.				