SCHEDULE 4

Regulations 3(1) and (3), 5(3), (5), (6), (7) and (11), and 9(2), (3) and (4)

# REQUIREMENTS FOR BASIC SEED, CERTIFIED SEED, CERTIFIED SEED OF THE FIRST AND SECOND GENERATIONS AND COMMERCIAL SEED

## PART I

# CONDITIONS RELATING TO CROPS FROM WHICH SEEDS OTHER THAN COMMERCIAL SEED 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.

#### **Previous cropping**

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

#### Limitation of the number of harvest years

- **5.** A crop to produce Pre-basic Seed, Basic Seed or Certified Seed of Italian ryegrass, and varieties of other kinds which are conducive to the establishment from shed seed of a high proportion of plants which themselves produce seeds, shall not be used to produce a crop in the second harvest year unless:—
  - (a) Pre-basic Seed was produced in the first harvest year in which case Basic Seed may be produced, or
  - (b) Basic Seed was produced in the first harvest year and the seed sown to produce the crop were Pre-basic Seed in which case Certified Seed may be produced.

#### **Isolation distances**

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

- 7. Field pea crops grown for the production of Pre-basic Seed, Basic Seed, Certified Seed of the First Generation or Certified Seed of the Second Generation shall be isolated by 50 metres, throughout their whole growing period, from all other pea crops not being grown for such production.
- **8.** Throughout the period of flowering of the crop there shall be the following minimum distances from sources of undesirable pollen capable of fertilizing the crop:—

(a) (a) Crucifers. Crop	os to produce—	
Basic seed	4	400 metres
Certified Seed	2	200 metres
Crop Area up to 2 hectares	over 2 hectares	
(b) (b) Field beans, Crops to produce—		
Basic Seed and Certified Seed 1st generation	200m	100m
Certified Seed 2nd generation	100m	50m
(c) (c) Other cross- fertilised species. Crops to product—		
Basic Seed	200m	100m
Certified Seed	100m	50m

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

# Standards for varietal purity

**9.** The crop shall have sufficient varietal identity and varietal purity. In particular the average level of the following impurities, by area or by number, as appropriate, shall not exceed—

IN CROPS TO PRODUCE		
Basic Seed	Certified Seed, Certified Seed of the First and Second Generations	
(a) (a) recognisable off-types of the same species in grasses and herbage legumes (including Italian or awned ryegrass in perennial ryegrass and perennial or awnless ryegrass in Italian ryegrass) other than smooth-stalked meadowgrass		1 plant in 10 sq m

IN CRO	PS TO PRODUCE		
Basic Se	eed	Certified Seed, Certified Seed of the First and Second Generations	
(b)	(b) recognisable off-types of the same species in smooth- stalked meadowgrass other than apomictic uni-clonal varieties	1 plant in 20 sq m	4 plants in 10 sq m
(c)	(c) recognisable off-types of the same species in apomictic uni-clonal varieties of smooth- stalked meadowgrass	1 plant in 20 sq m	6 plants in 10 sq m
(d)	(d) recognisable off-types of the same species in field peas and field beans	0.3%	1%
(e)	(e) recognisable off-types of the same species in swede and fodder kale	0.3%	1%
(f)	(f) recognisable off-types of the same species in vetches, lupins and fodder radish	1 plant in 30 sq m	1 plant in 10 sq m
(g)	(g) plants (other than those classified as off-types) grown from shed seeds in grasses and herbage legumes	1% of seed heads in crop	No standard
(h)	(h) ryegrass in cocksfoot, meadow fescue, red fescue or tall fescue	1 plant in 50 sq m	1 plant in 10 sq m
(i)	(i) suckling clover (Trifolium dubium Sibth.) in white clover	1 plant in 50 sq m	1 plant in 10 sq m

## PART II

#### CONDITIONS RELATING TO THE SEEDS

- 1. Basic Seed, Certified Seed and Certified Seed of the First and Second Generations shall possess the varietal identity and varietal purity specified in Part I; for apomictic uni-clonal varieties of smooth-stalked meadowgrass the minmum varietal purity shall be 99.7% for Basic Seed and 98% for Certified Seed.
- **2.** For lucerne and red clover, Basic Seed and seeds entered for the Higher Voluntary Standard shall be effectively fumigated if stem eelworm (Ditylenchus dipsaci) is reported on official examination of the crop.
- **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.
- **4.** For each seed lot of Pre-basic Seed or Basic Seed of field beans, a minimum of 1,000 seeds and, for each seed lot of Certified Seed of the First Generation of field beans, a minimum of 500 seeds shall be officially examined for Ascochyta fabae and the level of infection shall not exceed 1 seed in 1,000 for Pre-basic Seed, 2 seeds in 1,000 for Basic Seed and 2 seeds in 500 for Certified Seed of the First Generation.
- **5.** For each seed lot of Breeder's Seed, Pre-basic Seed, Basic Seed and Certified Seed of the First Generation of field peas 1 kg shall be officially examined from a submitted sample of 2 kg thereof for the presence of Pseudomonas syringae p.v. pisi infection and the level of infection therefrom found to be nil.
  - **6.** The seeds shall comply with the following standards:—

Kind	Minimum germination (% by number of pure seeds or pure pellets) <sup>a</sup>	Maximum hard seed content (% by number of pure seeds or pure pellets)	Minimum analytical purity (% by weight)		otal content of . species (% by v	
	All categories	All categories	All categories	Basic seed	Certified Seed, Certified Seed of the Firstand Second Generations	Commercial Seed
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Brown top	75		90	0.3	2.0	d
Red top	80		90	0.3	2.0	d
Other <i>Agrostis</i> spp	75		90	0.3	2.0	$3.0^{d}$
Tall oatgrass	80		90	0.3	3.0	$4.0^{d}$
Rescue grass	75		97	0.4	1.5	d
Alaska brome-grass	75		97	0.4	1.5	d
Sheep's fescue	75		85	0.3	2.0	$3.0^{d}$
Poa spp. other than Poa pratensis	75		85	0.3	2.0	3.0°
Birdsfoot trefoil	75 <sup>b</sup>	40	95	0.3	1.8	2.8
Narrow- leaved lupin (Blue lupin)	75 <sup>b</sup>	20	98°	0.3	0.5	1.5
Other lupins	80 <sup>b</sup>	20	98°	0.3	0.5	1.5°

a All fresh and healthy seeds which do not germinate after pre-treatment shall be considered as seeds which have germinated.

**b** Up to the maximum content indicated in column (3), hard seeds present shall be considered as seeds capable of germination.

c For Commercial Seeds 97%.

d No Commercial Seed except under licence.

e The Standard for Commercial Seed applies to the kinds of seed listed in the definition of commercial seed:—Regulation 3(3). Footnote 4 applies to the remaining kinds.

Kind	Minimum germination (% by number of pure seeds or pure pellets) <sup>a</sup>	Maximum hard seed content (% by number of pure seeds or pure pellets)	Minimum analytical purity (% by weight)		otal content of species (% by	
	All categories	All categories	All categories	Basic seed	Certified Seed, Certified Seed of the Firstand Second Generations	Commercial Seed
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Trefoil	80 <sup>b</sup>	20	97	0.3	1.5	2.5
Alsike clover	80 <sup>b</sup>	20	97	0.3	1.5	2.5
Vetches	85 <sup>b</sup>	20	98°	0.3	1.0	$2.0^{\rm e}$
Swede	80		98	0.3	1.0	d
Fodder kale	75		98	0.3	1.0	d
Fodder radish	80		97	0.3	1.0	d
Field pea	80		98	0.3	0.5	d
Field bean	85 <sup>b</sup>	5	98	0.3	0.5	d

a All fresh and healthy seeds which do not germinate after pre-treatment shall be considered as seeds which have germinated.

**b** Up to the maximum content indicated in column (3), hard seeds present shall be considered as seeds capable of germination.

c For Commercial Seeds 97%.

d No Commercial Seed except under licence.

e The Standard for Commercial Seed applies to the kinds of seed listed in the definition of commercial seed:—Regulation 3(3). Footnote 4 applies to the remaining kinds.

Kind	Minimum Maximum germinationhard (% by seed number content of pure (% by seeds number or pure of pure pellets) <sup>a</sup> seeds or pure pellets)		Minimum analytical purity (% by weight)		Maximum total content of seeds of other plant species (% by weight)		
	Basic Seed and Certified Seed	Basic Seed and Certified Seed	Basic Seed and Certified Seed (minimum standard)	Certified Seed (Higher Voluntary Standard)	Basic seed	Certified Seed (minimum standard)	Certified Seed (Higher Voluntary Standard)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Perennial ryegrass	80		96	98	0.3	1.5	1.5
Italian ryegrass	75		96	98	0.3	1.5	1.5
Hybrid ryegrass	75		96	98	0.3	1.5	1.5
Cocksfoot	80		90	90	0.3	1.5	1.5
Timothy	80		96	98	0.3	1.5	1.5
Meadow fescue	80		95	98	0.3	1.5	1.5
Smooth- stalked meadowgra	75 ss		85	90	0.3	2.0	1.5
Red fescue	75		90	95	0.3	1.5	1.5
Festulolium	175		96	98	0.3	1.5	1.5
Tall fescue	80		95	98	0.3	1.5	1.5
Red clover	80 <sup>b</sup>	20	97	98	0.3	1.5	1.5
White clover	80 <sup>b</sup>	40	97	98	0.3	1.5	1.5
Sainfoin	75 <sup>b</sup> , c	20°	95°	98	0.3	2.5°	1.5
Lucerne	80 <sup>b</sup>	40	97	98	0.3	1.5	1.5

a All fresh and healthy seeds which do not germinate after pre-treatment shall be considered as seeds which have germinated

**b** Up to the maximum content indicated in column (3), hard seeds present shall be considered as seeds capable of germination.

c Including Commercial Seed.

**Status:** This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

7. The seeds shall also comply with the following standards where appropriate. Where number standards are indicated a sample of the size indicated in column 2 should be examined.

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Kind Weig Maximum permitted content of seed impurities (by number or as a percentage by
               of weight)
               sample
               for
               determination
               of
               foreign
               seeds
               by
               number
               grams
  Avena
 fatua
  A.
  ludovicianaandA.
  Sterilis(Wild
  Oat) or
  Cuscuta
  spp.
  (Dodder)
  Rumexspp.
  (Docks and
  Sorrels)
  excluding R.
  acetosella(Sheep's
  sorrel)
  and R.
  maritimus
  (Golden
  dock)
  Allopecurus
  myosuroides(Blackgrass)
  Agropyron
  repens(couch)
  Melilotus(Sweetclovers)
  Maximum
                                          Other
  content of
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  any one
  other plant
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Kind Weig Maximum permitted content of seed impurities (by number or as a percentage by
               of weight)
               sample
               for
               determination
               of
               foreign
               seeds
               by
               number
               grams
 Avena
fatua
 A.
 ludovicianaandA.
 Sterilis(Wild
 Oat) or
 Cuscuta
 spp.
 (Dodder)
 Rumexspp.
 (Docks and
 Sorrels)
 excluding R.
 acetosella(Sheep's
 sorrel)
 and R.
 maritimus
 (Golden
 dock)
 Allopecurus
 myosuroides(Blackgrass)
 Agropyron
 repens(couch)
 Melilotus(Sweetclovers)
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ryegrass
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Kind Weig Maximum permitted content of seed impurities (by number or as a percentage by
               of weight)
               sample
               for
               determination
               of
               foreign
               seeds
               by
               number
               grams
  Avena
 fatua
  A.
  ludovicianaandA.
  Sterilis(Wild
  Oat) or
  Cuscuta
  spp.
  (Dodder)
  Rumexspp.
  (Docks and
  Sorrels)
  excluding R.
  acetosella(Sheep's
  sorrel)
  and R.
  maritimus
  (Golden
  dock)
  Allopecurus
  myosuroides(Blackgrass)
  Agropyron
  repens(couch)
  Melilotus(Sweetclovers)
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ryegrass
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Kind Weig Maximum permitted content of seed impurities (by number or as a percentage by

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of weight)
                sample
                for
                determination
                of
                foreign
                seeds
                by
                number
                grams
 Avena
fatua
 A.
 ludovicianaandA.
 Sterilis(Wild
 Oat) or
 Cuscuta
 spp.
 (Dodder)
 Rumexspp.
 (Docks and
 Sorrels)
 excluding R.
 acetosella(Sheep's
 sorrel)
 and R.
 maritimus
 (Golden
 dock)
 Allopecurus
 myosuroides(Blackgrass)
 Agropyron
 repens(couch)
 Melilotus(Sweetclovers)
 Maximum
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Kind Weig Maximum permitted content of seed impurities (by number or as a percentage by
               of weight)
               sample
               for
               determination
               of
               foreign
               seeds
               by
               number
               grams
 Avena
fatua
 A.
 ludovicianaandA.
 Sterilis(Wild
 Oat) or
 Cuscuta
 spp.
 (Dodder)
 Rumexspp.
 (Docks and
 Sorrels)
 excluding R.
 acetosella(Sheep's
 sorrel)
 and R.
 maritimus
 (Golden
 dock)
 Allopecurus
 myosuroides(Blackgrass)
 Agropyron
 repens(couch)
 Melilotus(Sweetclovers)
 Maximum
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Kind Weig Maximum permitted content of seed impurities (by number or as a percentage by
               of weight)
               sample
               for
               determination
               of
               foreign
               seeds
               by
               number
               grams
 Avena
fatua
 A.
 ludovicianaandA.
 Sterilis(Wild
 Oat) or
 Cuscuta
 spp.
 (Dodder)
 Rumexspp.
 (Docks and
 Sorrels)
 excluding R.
 acetosella(Sheep's
 sorrel)
 and R.
 maritimus
 (Golden
 dock)
 Allopecurus
 myosuroides(Blackgrass)
 Agropyron
 repens(couch)
 Melilotus(Sweetclovers)
 Maximum
                                          Other
 content of
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fescue
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Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

```
Kind Weig Maximum permitted content of seed impurities (by number or as a percentage by
               of weight)
               sample
               for
               determination
               of
               foreign
               seeds
               by
               number
               grams
 Avena
fatua
 A.
 ludovicianaandA.
 Sterilis(Wild
 Oat) or
 Cuscuta
 spp.
 (Dodder)
 Rumexspp.
 (Docks and
 Sorrels)
 excluding R.
 acetosella(Sheep's
 sorrel)
 and R.
 maritimus
 (Golden
 dock)
 Allopecurus
 myosuroides(Blackgrass)
 Agropyron
 repens(couch)
 Melilotus(Sweetclovers)
 Maximum
                                          Other
 content of
                                          Requirements
 any one
 other plant
 species
                            BasicCertified BasicCertified BasicCertified BasicCertified
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stalked
Meadowgrass
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Kind Weig Maximum permitted content of seed impurities (by number or as a percentage by
               of weight)
               sample
               for
               determination
               of
               foreign
               seeds
               by
               number
               grams
 Avena
fatua
 A.
 ludovicianaandA.
 Sterilis(Wild
 Oat) or
 Cuscuta
 spp.
 (Dodder)
 Rumexspp.
 (Docks and
 Sorrels)
 excluding R.
 acetosella(Sheep's
 sorrel)
 and R.
 maritimus
 (Golden
 dock)
 Allopecurus
 myosuroides(Blackgrass)
 Agropyron
 repens(couch)
 Melilotus(Sweetclovers)
 Maximum
                                          Other
 content of
                                          Requirements
 any one
 other plant
 species
                             BasicCertified BasicCertified BasicCertified BasicCertified
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fescue
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Kind Weig Maximum permitted content of seed impurities (by number or as a percentage by
                of weight)
                sample
                for
                determination
                of
                foreign
                seeds
                by
                number
                grams
  Avena
 fatua
  A.
  ludovicianaandA.
  Sterilis(Wild
  Oat) or
  Cuscuta
  spp.
  (Dodder)
  Rumexspp.
  (Docks and
  Sorrels)
  excluding R.
  acetosella(Sheep's
  sorrel)
  and R.
  maritimus
  (Golden
  dock)
  Allopecurus
  myosuroides(Blackgrass)
  Agropyron
  repens(couch)
  Melilotus(Sweetclovers)
  Maximum
                                           Other
  content of
                                           Requirements
  any one
  other plant
  species
                             BasicCertified BasicCertified BasicCertified BasicCertified
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Kind Weig Maximum permitted content of seed impurities (by number or as a percentage by
               of weight)
               sample
               for
               determination
               of
               foreign
               seeds
               by
               number
               grams
 Avena
fatua
 A.
 ludovicianaandA.
 Sterilis(Wild
 Oat) or
 Cuscuta
 spp.
 (Dodder)
 Rumexspp.
 (Docks and
 Sorrels)
 excluding R.
 acetosella(Sheep's
 sorrel)
 and R.
 maritimus
 (Golden
 dock)
 Allopecurus
 myosuroides(Blackgrass)
 Agropyron
 repens(couch)
 Melilotus(Sweetclovers)
 Maximum
                                          Other
 content of
                                          Requirements
 any one
 other plant
 species
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fescue
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Kind Weig Maximum permitted content of seed impurities (by number or as a percentage by
               of weight)
               sample
               for
               determination
               of
               foreign
               seeds
               by
               number
               grams
 Avena
fatua
 A.
 ludovicianaandA.
 Sterilis(Wild
 Oat) or
 Cuscuta
 spp.
 (Dodder)
 Rumexspp.
 (Docks and
 Sorrels)
 excluding R.
 acetosella(Sheep's
 sorrel)
 and R.
 maritimus
 (Golden
 dock)
 Allopecurus
 myosuroides(Blackgrass)
 Agropyron
 repens(couch)
 Melilotus(Sweetclovers)
 Maximum
                                           Other
 content of
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 any one
 other plant
 species
                             BasicCertified BasicCertified BasicCertified BasicCertified
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clover
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Kind Weig Maximum permitted content of seed impurities (by number or as a percentage by
               of weight)
               sample
               for
               determination
               of
               foreign
               seeds
               by
               number
               grams
 Avena
fatua
 A.
 ludovicianaandA.
 Sterilis(Wild
 Oat) or
 Cuscuta
 spp.
 (Dodder)
 Rumexspp.
 (Docks and
 Sorrels)
 excluding R.
 acetosella(Sheep's
 sorrel)
 and R.
 maritimus
 (Golden
 dock)
 Allopecurus
 myosuroides(Blackgrass)
 Agropyron
 repens(couch)
 Melilotus(Sweetclovers)
 Maximum
                                           Other
 content of
                                           Requirements
 any one
 other plant
 species
                             BasicCertified BasicCertified BasicCertified BasicCertified
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clover
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Kind Weig Maximum permitted content of seed impurities (by number or as a percentage by
              of weight)
              sample
              for
              determination
              of
              foreign
              seeds
              by
              number
              grams
 Avena
fatua
 A.
 ludovicianaandA.
 Sterilis(Wild
 Oat) or
 Cuscuta
 spp.
 (Dodder)
 Rumexspp.
 (Docks and
 Sorrels)
 excluding R.
 acetosella(Sheep's
 sorrel)
 and R.
 maritimus
 (Golden
 dock)
 Allopecurus
 myosuroides(Blackgrass)
 Agropyron
 repens(couch)
 Melilotus(Sweetclovers)
 Maximum
                                         Other
 content of
                                         Requirements
 any one
 other plant
 species
                            BasicCertified BasicCertified BasicCertified BasicCertified
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Seed/
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fruit
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Kind Weig Maximum permitted content of seed impurities (by number or as a percentage by
               of weight)
               sample
               for
               determination
               of
               foreign
               seeds
               by
               number
               grams
 Avena
fatua
 A.
 ludovicianaandA.
 Sterilis(Wild
 Oat) or
 Cuscuta
 spp.
 (Dodder)
 Rumexspp.
 (Docks and
 Sorrels)
 excluding R.
 acetosella(Sheep's
 sorrel)
 and R.
 maritimus
 (Golden
 dock)
 Allopecurus
 myosuroides(Blackgrass)
 Agropyron
 repens(couch)
 Melilotus(Sweetclovers)
 Maximum
                                           Other
 content of
                                           Requirements
 any one
 other plant
 species
                             BasicCertified BasicCertified BasicCertified BasicCertified
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- a For Certified Seed minimum standard, 1 seed of dodder in a sample of the size specified in column (2) shall not be regarded as an impurity if a second sample of the same weight is free from dodder.
- **b** The presence of a maximum of 80 seeds of *Poa* spp. in a sample of the size specified in column (2) shall not be regarded as an impurity.
- c There shall be no more than 0.4% by weight of annual meadowgrass.
- d In Basic Seed awned ryegrass seeds shall not exceed 5 seeds in a sample of the size specified in column (2) of seeds of a variety known not to produce seeds with awns. In Certified Seed awned ryegrass seeds shall not exceed 1% by weight in seeds of a variety known not to produce seeds with awns.
- e There shall be no more than 0.3% by weight of Agrostis spp.
- f There shall be no more than 0.3% by weight of ryegrasses.
- **g** There shall be no more than 0.3% by weight of rough-stalked meadowgrass.
- h For Certified Seed, Higher Voluntary Standard of red fescue, there shall be no more than a total of 4 seeds of ryegrass, cocksfoot and meadow fescue in a sample of the size specified in column 2.
- j One seed of *Melilotus*spp. in a sample of the size specified in column (2) shall not be regarded as an impurity if a second sample of twice that size is free of *Melilotus*spp.
- k Including Commercial Seed.
- In Certified Seed a maximum of 0.8% by weight of seeds of other meadowgrasses shall not be regarded as an impurity.
- m In Certified Seed a maximum of 0.4% by weight of seeds of other meadowgrasses shall not be regarded as an impurity.

# PART III ASCOCHYTA FABAE STANDARDS

Category	Maximum percentage of infected seeds
Certified Seed of the Second Generation	1.0