

# PLANT VARIETY AND SEEDS REGULATIONS

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## SECTIONS 35 AND 84 PLANT VARIETY AND SEEDS REGULATIONS

### Statutory Instrument

- 67 of 1988
- 157 of 1989
- Act No.
- 13 of 1994
- 21 of 1995

## Title

1. These Regulations may be cited as the Plant Variety and Seeds Regulations.

## Interpretation

2. In these Regulations unless the context otherwise requires-

"Certifying Authority" means the authority established by section three of the Act;

"control growing" means the growing of plants under tests to determine the cultivar purity and disease infection;

"cultivar" means a subdivision of any species of seed which can be distinguished from other subdivisions of that species by means of growth, plant, fruit or other characteristics;

"field inspection" means an inspection of a seed field and includes the checking of isolation, hectareage, off-types and weeding usually as part of a seed certification programme;

"germination capacity" means the percentage by number of seeds which, in the course of a germination test, have produced normal seedlings;

"isolation" means the required distance between two crops of the same species or between two crops of too closely related species to prevent contamination either mechanically or by pollination;

"I.S.T.A.' means the International Seed Testing Association;

"noxious weed" means weed species declared noxious by the Noxious Weeds Act; Cap. 231

"off-type plant" means a plant which does not exhibit the recognised and accepted habits and characteristics of the cultivar being grown;

"purity" means the percentage by weight of pure seed as determined by purity analysis;

"seed certification" means a system for quality control of seed multiplication and production;

"seed class" means a stage in a seed multiplication system well defined in respect of parent seed, standard of cultivation and seed quality;

"seed lot" means a specified quantity of seed, which is homogeneous and physically identifiable;

"S.C.C.I." means the Seed Control and Certification Institute of Zambia;

"variety" means cultivar;

"weed plant" is any plant which is not of the same species as the crop being grown, and which is generally considered as a weed.

## Prescribed seeds

3. The seeds set out in the First Schedule shall be prescribed seed for the purposes of the Act.

## The Seed Control and Certification Institute of Zambia

4. The Seed Control and Certification Institute of Zambia established under section seventeen is an official seed-testing station.

### Sale of Seed

5. (1) No seed shall be offered for sale unless it has been certified or it has had its quality declared under regulation 7.

(2) No species of seed set out in the Second Schedule shall be offered for sale unless it has been certified.

### Certification of seed

6. (1) No seed shall be certified unless it has been produced inspected, sampled, tested and complies with the standards set out in the Fourth Schedule.

(2) Seed shall be certified in six classes as set out in the Third Schedule:

Provided that a seed lot may be down-graded on the request of the applicant.

(3) Only cultivars which have been approved by the Certifying Authority shall be eligible for certification.

(4) Any crop which contains noxious weeds or noxious ergots shall not be eligible for certification.

(5) Breeders shall maintain the standards of cultivars approved under sub-regulation (3).

### Declaration of seed quality

7. Seeds whose quality conforms to the standards set out in the Fifth Schedule shall have its quality declared as such.

### Registration as seed grower

8. (1) An application for registration as a seed grower shall be made in Form I as set out in the Seventh Schedule.

(2) Each application shall be accompanied by the appropriate fee and shall refer to the growing of one crop only.

(3) An application shall not be approved in respect of land on which during the preceding season other cultivars of the same crop or other too closely related crops have been grown.

(4) On registration as a registered seed grower, the Certifying Authority shall furnish to the applicant a certificate of registration in Form 2 set out in the Seventh Schedule, which certificate shall specify the conditions with regard to the growing of the registered seed crop.

(5) Unless the Certifying Authority decides otherwise, only one cultivar of the same species shall be permitted on the same farm.

(6) The registered seed crop shall not exceed the approved hectareage by more than ten per cent, any excess over this amount shall be destroyed without compensation, immediately on the request of an authorised seed inspector.

(7) The Certifying Authority shall keep a register of registered seed growers.

(8) The grower shall plant the appropriate parent seed for the production of his registered seed class and shall keep a record of such parentage including certification labels and invoices as may be sufficient to satisfy the Certifying Authority in this respect.

#### Field inspection

9. (1) Field inspection for the purpose of certification shall be conducted by persons authorised by the Certifying Authority to be seed inspectors.

(2) A seed inspector conducting a field inspection shall refuse to certify a crop if he is satisfied that-

(a) the crop is so heavily contaminated with weeds, other species or disease as to render the crop unfit for seed or make inspection impracticable; or

(b) the isolation distance or the standards relating to off-types and other cultivars, prescribed in the Fourth Schedule have not been complied with; or

(c) for hybrids of maize, sorghum and sunflower there are more than three pollinating females per thousand plants;

(d) the crop exceeds the approved and registered hectareage by more than ten per cent.

(3) For the purpose of certification an inspector shall conduct at least three field inspections per crop.

(4) A report of every field inspection shall be made by a seed inspector in Form 3 set out in the Seventh Schedule, and shall be countersigned by the registered grower or his representative.

#### Licence for seed processing

10. (1) No person shall process seeds without a licence to process seed in Form 5 of the Seventh Schedule issued by the Certifying Authority.

(2) An application for a licence to process seed shall be made in Form 4 of the Seventh Schedule and shall be accompanied by the appropriate fee.

(3) The Certifying Authority shall issue a licence to process seed if he is satisfied that the applicant has the ability and the appropriate processing facilities to produce quality seed.

(4) A licence to process seed shall-

(a) set out the conditions relating to the processing of seed;

(b) be valid for thirty-six months.

(5) The Certifying Authority shall maintain a register of holders of licences to process seed.

(6) The Certifying Authority may enter and inspect any processing premises.

#### Seed seller's licence

11. (1) No person shall sell seeds without a seed seller's licence issued by the Certifying Authority in Form 7 set out in the Seventh Schedule.

(2) An application for a seed seller's licence shall be made in Form 6 set out in the Seventh Schedule and shall be accompanied by the appropriate fee.

(3) The Certifying Authority shall issue a seed seller's licence if he is satisfied that the applicant has the ability, knowledge and appropriate facilities to maintain the quality and viability of the seeds to be exposed for sale.

(4) A seed seller's licence shall-

(a) set out the conditions relating to the maintenance of the seeds to be exposed for sale;

(a) be valid for thirty-six months; the Certifying Authority may, however, limit the validity of such licence for any period less than thirty-six months but not less than six months, if it thinks it necessary.

(5) The Certifying Authority shall maintain a register of holders of seed sellers licence.

(6) The Certifying Authority may enter and inspect any premises where seeds are kept for sale.

#### Sampling of seeds

12. (1) The sampling of seed lots shall be conducted in accordance with current I.S.T.A. rules.

(2) Crops from different fields of the same origin, species and cultivar which have passed field inspections may be blended and bulked to constitute one seed lot.

(3) The applicant shall provide reliable scales for checking the weight of a seed lot.

(4) The seeds inspector or authorised officer who conducts the sampling shall submit a report of his sampling in Form 8 set out in the Seventh Schedule which report shall be counter-signed by the applicant or his representative.

(5) A seed lot which has been sampled in accordance with this regulation may be moved from one place to another.

#### Testing of seed

13. The official seed testers shall-

(a) test seeds in accordance with I.S.T.A. rules for seed testing on payment of the appropriate fee by the applicant;

(b) record the results of the seed test on a certificate in Form 9 set out in the Seventh Schedule;

(c) state in the certificate whether the seeds are marketable and the category of the seeds.

14. (1) Seed lots which have been sampled and tested under these Regulations shall be control grown in accordance with instructions issued by the S.C.C.I. Control growing

(2) The S.C.C.I. shall submit a report on each control growing carried out under these Regulations in Form 10 set out in the Seventh Schedule.

#### Packing and labelling of seeds

15. (1) Certified seed lots shall be packed in bags, securely closed, sealed by a seed inspector and labelled with a certification label.

(2) The certification label referred to in sub-regulation (1) shall state-

(a) the seed class;

- (b) certification number;
- (c) the species and cultivar of seed;
- (d) lot number;
- (e) purity (% by weight);
- (f) germination capacity (% by number);
- (g) expiry date; and
- (h) warning text in case the seed lot is treated.

(3) The inspector who sealed the bags shall submit a report of the sealing in Form 11 set out in the Seventh Schedule.

(4) Where certified seed lots have to be re-packed, the repacking shall be done only with the approval of the S.C.C.I. and under S.C.C.I.'s supervision.

(5) The seller of seed whose quality has been declared under these Regulations shall label each package of seed being offered for sale and such label shall state the species, cultivar, purity (percentage by weight), germination capacity (percentage by number) and period of validity of the declaration.

#### Validity of certification and quality declaration

16. (1) Unless cancelled earlier, the validity of a certification-

- (a) for cereals, pulses, oil crops, fibre crops and root crops shall be nine months;
- (b) for herbage grasses and legumes, vegetables and stimulant crops, shall be twelve months; from the date of completion of testing the seeds.

(2) Unless cancelled earlier, a declaration of quality for all kinds of species of seed shall be valid for twelve months from the date of completion of testing the seeds.

#### Importation of seed

17. (1) No person shall import seeds for sale-

- (a) without a valid seed seller's licence;
- (b) a notice to import the seeds has been submitted in Form 12 set out in the Seventh Schedule and has been approved by the Certifying Authority;
- (c) if the seeds do not comply with the minimum standards set out in the Fifth Schedule.

(2) A notice to import seed shall refer to one specific quantity of seed of a given species and cultivar.

(3) The importer of seed shall on request supply S.C.C.I. with samples of the imported seed for checking its quality.

(4) The Certifying Authority may-

- (a) regulate the certification of imported seed lots according to the certification scheme of Zambia;
- (b) restrict the importation of any species and cultivar of seeds.

#### Appeals

18. Any person aggrieved by any decision made under these Regulations by-
- (a) an inspector or duly authorised officer may appeal to the Certifying Authority;
  - (b) the Certifying Authority may appeal to the Minister.

#### Fees

19. The fees prescribed in the Sixth Schedule shall be payable in respect of the matters set out therein.

### ***FIRST SCHEDULE***

(Regulation 3)

#### PRESCRIBED SEEDS

##### CEREALS:

Barley *Hordeum vulgare* L.  
Finger millet *Eleusine coracana* (L.) Gaertn.  
Maize *Zea mays* L.  
Oats *Avena sativa* L.  
Pearl millet *Pennisetum glaucum* (L.) R.Br.  
Rice *Oryza sativa* L.  
Rye *Secale cereale* L.  
Sorghum *Sorghum bicolor* (L.) Moench  
Triticale X *Triticosecale* Wittm.  
Wheat *Triticum* spp.

##### PULSES:

Beans *Phaseolus vulgaris* L.  
Broad bean *Vicia faba* L.  
Chick pea *Cicer arietinum* L.  
Cowpea *Vigna unguiculata* (L.) Walp.  
Dolichos bean *Dolichos lablab* L.  
Pea *Pisum sativum* L.  
Soya bean *Glycine max* (L.) Merr.  
Velvet bean *Mucuna deeringiana* (Bort) Merr  
Common vetch *Vicia sativa* L.

##### OIL CROPS:

Castor bean *Ricinus communis* L.  
Ground-nut *Arachis hypogaea* L.  
Linseed *Linum usitatissimum* L.  
Oilseed rape *Brassica napus* L. var. *oleifera* Metzg.  
Safflower *Carthamus tinctorius* L.  
Sesame *Sesamum indicum* L.  
Sunflower *Helianthus annuus* L.

##### FIBRE CROPS:

Cotton *Gossypium* spp.  
Flax *Linum usitatissimum* L.

Kenaf *Hibiscus cannabinus* L.

ROOT CROPS:

Beet *Beta vulgaris* L.

Swede *Brassica napus* L. var. *napobrassica*  
(L.) Reichb

Turnip *Brassica rapa* L. var. *rapifera* Metzg.

HERBAGE GRASSES:

Buffel grass *Cenchrus ciliaris* L.

Guinea grass *Panicum maximum* Jacq.

Paspalum grass *Paspalum* spp.

Rhodes grass *Chloris gayana* Kunth

Ryegrass *Lolium* spp.

Setaria grass *Setaria sphacelata* (Schum.) Stapf  
et C. E. Hubb.

Weeping lovegrass *Eragrostis curvula* (Schrader) Nees

HERBAGE LEGUMES:

Centro *Centrosema pubescens* Benth..

Clover *Trifolium* spp.

Glycine *Glycine javanica* L.

Greenleaf *Desmodium intortum* (Miller) Urban.

Leucaena *Leucaena leucocephala* (Lam.) de Wit.

Lucerne *Medicago sativa* L.

Silverleaf *Desmodium uncinatum* (Jacq.) DC

Siratro *Macroptilium atropurpureum* (DC)  
Urban.

Stylo *Stylosanthes guianensis* (Au bl.) Sw.

Sunnhemp *Crotalaria juncea* L.

VEGETABLES:

Amaranth *Amaranthus* spp.

Beet *Beta vulgaris* L.

Brussels sprouts *Brassica oleracea* L. convar. *oleracea*  
var. *gemnifera* DC.

Beans *Phaseolus vulgaris* L.

Cabbage *Brassica oleracea* L. var. *capitata* L.

Carrot *Daucus carota* L.

Cauliflower *Brassica oleracea* L. convar *botrytis*  
(L) Alef. var. *botrytis*

Celery *Apium graveolens* L.

Chinese cabbage *Brassica chinensis* L.

Cucumber *Cucumis sativus* L.

Dill *Anethum graveolens* L.

Eggplant *Solanum melongena* L.

Endive *Cichorium endivia* L.

Kale *Brassica oleracea* L. var. *acephala*  
DC.

Leek *Allium porrum* L.

Lettuce *Lactuca sativa* L.

Muskmelon *Cucumis melo* L.

Okra *Hibiscus esculentus* L.

Onion *Allium cepa* L.

Parsley *Petroselinum crispum* (Miller) Nyman  
ex A. W. Hill.

Parsnip *Pastinaca sativa* L.

Pea *Pisum sativum* L. sensu lato.

Pepper *Capsicum* spp.



Pumpkin Cucurbita pepo L.  
Radish Raphanus sativus L. var. radicola Pers.  
Rape Brassica napus L.  
Spinach Spinacea oleracea L.  
Sprouting broccoli Brassica oleracea L. convar botrytis  
(L.) Alef var. cymosa Duch.  
Squash Cucurbita moschata (Duch) Duch ex.  
Poir.  
Tomato Lycopersicon esculentum P. Mill.  
Turnip Brassica rapa L. var. rapifera Metzg.  
Water melon Citrullus lanatus (Thumb.) Matsum et  
Nahai

**STIMULANT CROPS:**

Tobacco Nicotiana tabacum L.

NOTE-For potato-Solanum tuberosum-see The Agriculture (Potato Seed) Regulations, 1984, (S.I. No. 133 of 1984).

***SECOND SCHEDULE***

(Regulation 5)

**SEED FOR COMPULSORY CERTIFICATION**

**SPECIES:**

**CEREALS:**

Maize

Sorghum

Wheat

**PULSES:**

Soyabean

**OIL CROPS:**

Sunflower

***THIRD SCHEDULE***

(Regulation 6 (2))

**SEED CERTIFICATION SCHEME**

Colour of

Code Class Parent seed label

A Pre-basic Seed Produced from the breeder's Violet stripe  
parent material under control on white  
of the breeder and supervision of the  
S.C.C.I. More than one generation m  
may be allowed by the  
Controller of Seeds

B Basic Seed Produced from pre-basic seed and White  
officially inspected  
Only one generation permitted

C1 Certified Seed, Produced from basic seed and Blue stripe  
1st generation inspected on white officially

C2 Certified Seed, Produced from certified seed, 1st Red stripe on 2nd generation generation (or higher class) and white officially inspected

C3 Certified Seed, Produced from certified seed, 2nd Red stripe 3rd generation generation (or higher class) and on white officially inspected

D Certified Seed, Produced from certified seed, 3rd Green stripe 4th generation generation (or higher class) and on white officially inspected

E Emergency class Only used when a serious shortage Red label of seed (for certification) of essential crops occurs. The standards will be set by the Controller of Seeds

#### ***FOURTH SCHEDULE***

(Regulation 6 (1))

#### **STANDARDS FOR ZAMBIA CERTIFIED SEED**

##### **A. FIELD INSPECTION**

Species Isolation, metres (minimum) Off types and or cultivars

A B C1 C2-C3 D A B C1 C2-C D

CEREALS: I. Maximum number per 10 square metres

Barley 10 10 5 5 5 5 5 10 30 50

Oats 10 10 5 5 5 5 5 10 30 50

Rice 10 10 5 5 5 5 5 10 30 50

Rye 400 400 200 200 200 10 10 20 60 100

Triticale 20 20 10 10 10 10 10 20 60 100

Wheat 10 10 5 5 5 5 5 10 30 50

II. Maximum number per 1 000 plants (heads)

Finger millet 50 50 25 10 2 2 5 5 10

Maize .. 400 400 200 200 1 1 3 3 10

Pearl millet 400 300 200 200 5 5 10 15 30

Sorghum .. 400 400 400 300 200 2 2 5 5 10

PULSES: I. Maximum number per 10 square metres

Common vetch 100 100 50 50 25 1 1 2 2 5

Soya bean 10 10 5 5 5 1 1 2 2 5

Pea .. 100 100 50 50 50 1 1 2 2 5

II. Maximum number per 1000 plants (heads)

Beans .. 50 50 25 25 10 1 1 2 2 5

Broad bean 200 200 100 100 50 1 1 2 2 5

Cow pea .. 10 10 5 5 5 1 1 2 2 5

OIL CROPS II. Maximum number per 1000 plants (heads)

Castor bean 50 50 25 25 25 1 1 2 2 5

Groundnut 200 200 100 100 50 1 1 2 2 5

Oilseed rape 1000 1000 600 400 200 2 2 5 5 10

Sunflower .. 2000 2000 1500 1000 1000 10 10 20 20 40

FIBRE CROPS: II. Maximum number per 1000 plants (heads)

Cotton .. 400 400 200 200 100 1 2 2 5 5  
 I. Maximum number per 10 square metres  
 Flax 20 20 10 10 10 5 5 10 30 50  
 Kenaf 600 600 300 300 200 1 1 2 2 5  
 ROOT CROPS: II. Maximum number per 1000 plants (heads)  
 Beet 2 000 2 000 1 500 1 000 1 000 1 1 2 2 5  
 Swede 1 000 1 000 600 400 200 1 1 2 2 5  
 Turnip 1 000 1 000 600 400 200 1 1 2 2 5  
 HERBAGE GRASSES: I. Maximum number per 10 square metres  
 Buffel grass 200 200 100 100 50 1 1 2 2 5  
 Guinea grass 50 50 25 10 5 1 1 2 2 5  
 Rhodes grass 200 200 100 100 50 1 1 2 2 5  
 Rye grass 400 400 200 200 200 1 1 2 2 5  
 Weeping lovegrass 50 50 25 10 5 1 1 2 2 5  
 HERBAGE LEGUMES:  
 Glycine 300 300 200 200 100 1 1 2 2 5  
 Siratro 200 200 100 100 50 1 1 2 2 5  
 Stylo 200 200 100 100 50 1 1 2 2 5  
 II. Maximum number per 1000 plants (heads)  
 Clover 400 400 300 300 200 1 1 3 10 15  
 Lucerne 400 400 300 300 200 1 1 3 10 15  
 VEGETABLES: I. Maximum number per 10 square metres  
 Pea 100 100 50 50 25 1 1 2 2 5  
 II. Maximum number per 1000 plants (heads)  
 Beet 2 000 2 000 1 500 1 500 1 000 1 1 2 2 5  
 Cabbage.. 1 000 1 000 600 400 200 2 2 5 5 10  
 Carrot 1 000 1 000 750 500 250 5 5 10 10 20  
 Cauliflower 1 000 1 000 600 400 200 2 2 5 5 10  
 Kale 1 000 1 000 600 400 200 2 2 5 5 10  
 Leek 1 500 1 500 1 000 600 400 5 5 10 10 20  
 Lettuce 100 100 50 25 25 2 2 10 15 30  
 Onion 1 500 1 000 800 600 400 5 5 10 10 20  
 Pepper 200 200 100 50 50 1 1 2 2 5  
 Pumpkin 1 000 1 000 800 600 400 2 2 10 15 30  
 Rape 1 000 1 000 600 400 200 2 2 5 5 10  
 Tomato 100 100 50 50 25 2 2 5 10 20  
 Water melon 1 000 1 000 800 600 400 1 1 2 5 10  
 STIMULANT CROPS:  
 Tobacco 500 500 400 400 300 2 2 5 5 10

## LABORATORY TESTS

1. Quality requirements for different classes with respect to the analysis figures concerning purity, germination capacity, weed seeds and moisture content.

Weed Seeds (excluding

Germination Capacity noxious weeds) Number MoistureContent

Species Purity % by weight % by number pro kg (highest value) %

A-B C1-C3 D A-B C1-C3 D A B C1-C3 D A-D

CEREALS:

Barley 99.5 99.0 98.5 95 90 90 1 2 5 10 11.0

Finger millet 99.0 98.5 98.0 80 80 75 125 250 500 1 000 11.0

Maize.. 99.5 99.0 99.0 90 90 90 1 2 5 10 13.5

Oats 99.5 99.0 98.5 90 85 85 1 2 5 10 11.0

Pearl millet 99.0 98.5 98.5 80 80 75 250 500 750 1 000 11.0

Rice 99.0 98.5 98.0 85 85 80 1 2 5 10 11.0

Rye 99.5 99.0 98.5 85 85 80 1 2 5 10 11.0  
 Sorghum 99.0 98.5 98.0 80 80 75 50 100 200 300 11.0  
 Triticale 99.0 98.5 98.0 90 85 80 1 2 5 10 11.0  
 Wheat 98.0 97.5 97.0 90 85 80 1 2 5 10 11.0  
**PULSES:**  
 Beans 99.5 99.0 98.5 80 75 75 1 2 5 10 14.0  
 Broad bean 99.5 99.0 98.5 80 75 75 1 2 5 10 14.0  
 Cowpea 99.0 98.5 98.0 80 75 75 1 2 5 10 14.0  
 Pea 99.5 99.0 98.0 80 75 75 1 2 5 10 14.0  
 Soyabean 99.5 99.0 98.0 80 75 75 1 2 5 10 14.0  
 Common vetch 99.0 98.5 97.5 80 75 70 1 2 5 10 14.0  
**OIL CROPS:**  
 Castor bean 99.0 98.5 98.0 80 75 75 1 2 5 10 14.0  
 Groundnut 98.0 97.5 97.0 85 80 80 1 2 5 10 14.0  
 Oilseed rape 99.0 98.5 98.0 85 80 80 250 250 500 1 000 10.0  
 Sunflower 98.5 98.0 97.5 90 85 85 5 10 50 100 12.0  
**FIBRE CROPS**  
 Cotton 99.0 98.5 98.0 80 75 75 5 10 25 50 10.0  
 Flax 99.0 98.5 98.0 85 80 80 25 25 50 100 10.0  
 Kenaf 99.0 98.5 98.0 80 75 75 50 100 100 200 10.0  
**ROOT CROPS:**  
 Beet 99.0 98.5 98.0 85 80 80 25 25 50 100 10.0  
 Swede 99.0 98.5 98.0 85 80 80 200 200 250 500 10.0  
 Turnip 99.0 98.5 98.0 85 80 80 250 250 500 1000 10.0  
**HERBAGE GRASSES:**  
 Buffel (grass 75.0 70.0 60.0 70 60 60 250 500 1 000 2 000 10.0  
 Guinea grass 75.0 70.0 60.0 70 60 50 250 500 1 000 2 000 10.0  
 Rhodes grass 75.0 70.0 60.0 70 60 50 250 500 1 000 2 000 10.0  
 Rye grass 98.0 97.5 97.5 90 85 80 250 500 750 1 000 10.0  
 Weeping lovegrass 90.0 85.0 80.0 90 85 80 250 500 1 000 2 000 10.0  
**HERBAGE LEGUMES:**  
 Clover 99.0 98.0 97.5 80 80 75 100 100 200 300 10.0  
 Glycine 98.0 97.5 97.0 80 75 70 100 100 200 300 10.0  
 Lucerne 99.0 98.5 98.0 80 80 75 200 200 250 500 10.0  
 Siratro 99.0 98.5 98.0 90 85 80 200 200 250 500 10.0  
 Style 99.0 98.5 98.0 75 70 65 200 200 250 500 10.0  
**VEGETABLES:**  
 Beet 99.0 98.5 98.0 85 80 80 25 25 50 100 10.0  
 Cabbage 99.0 98.5 98.0 85 80 80 25 25 50 100 8.0  
 Carrot 98.5 97.5 97.0 75 75 70 250 500 1000 2 000 8.0  
 Cauliflower 99.0 98.5 98.0 85 80 80 25 25 50 100 8.0  
 Kale 99.0 98.5 98.0 85 80 80 25 25 50 100 8.0  
 Leek 99.5 99.0 98.5 80 75 75 25 25 50 100 8.0  
 Lettuce 98.5 98.0 97.5 80 75 75 50 50 100 200 7.0  
 Onion 99.5 99.0 98.5 75 70 70 25 25 50 100 8.0  
 Pea 99.5 99.0 98.0 80 75 75 1 2 5 10 14.0  
 Pepper 99.0 98.5 98.0 75 70 70 25 25 50 100 8.0  
 Pumpkin 99.0 98.5 98.0 80 75 75 25 25 50 100 8.0  
 Rape 99.0 98.5 98.0 85 80 80 250 250 500 1 000 7.0  
 Tomato 99.5 99.0 98.5 85 85 80 1 2 5 10 8.0  
 Water melon 99.0 98.5 98.0 80 75 75 25 25 50 100 8.0  
**STIMULANT CROPS:**  
 Tobacco 99.0 99.0 98.5 90 90 85 50 50 100 200 8.0  
**NOTES:**  
 The following seeds are evaluated as germinable:

(a) All fresh ungerminated seeds of cereals; pulses and herbage legumes.

(b) All hard seeds of herbage legumes. II. QUALITY REQUIREMENTS FOR PURITY OF CULTIVAR IN LABORATORY TESTING

## II. QUALITY REQUIREMENTS FOR PURITY OF CULTIVAR IN LABORATORY TESTING

### A. MAXIMUM NUMBER (PER CENT) SEEDS OF FOREIGN CULTIVARS

Species Certification Classes

A B C1 C2-C3 D

CEREALS:

Barley 0.1 0.1 0.3 1.0 2

Maize 0.1 0.1 0.3 1.0 2

Rice 0.5 0.5 1.0 1.5 2

Sorghum 0.1 0.1 0.3 0.5 1

Wheat 0.1 0.1 0.3 1.0 2

PULSES:

Broad bean 0.1 0.1 0.2 0.2 1

Cow pea 0.1 0.1 0.2 0.2 1

Pea 0.1 0.1 0.3 1.0 2

Soyabean 0.1 0.1 0.2 0.2 1

OIL CROPS:

Groundnut 0.1 0.1 0.2 0.2

Sunflower 1.0 1.0 2.0 2.0 3

NOTES:

Even though the minimum requirements for certification have been fulfilled the certification of a seed lot shall be refused or permitted in a lower class if:

(a) the seed to a great extent (more than 15%) is mixed with ergots or infected with seed-borne diseases and insects;

(b) because of mould or musty smell the seed cannot be considered to stand storage without loss in germination capacity;

(c) after considering the cultivar and the year's crop growth the seed is of unsatisfactory quality with regard to cleaning, scarifying or grading.

### C. CONTROL GROWING

Species Foreign cultivars including off-types,  
maximum permitted percentage by number

A B C1 C2-C3

CEREALS:

Barley 0.1 0.1 0.3 0.1

Finger millet 0.3 0.4 0.8 2.0

Maize 0.1 0.1 0.3 1.0

Oats 0.1 0.1 0.3 1.0

Pearl millet 0.3 0.3 0.6 2.0

Rice 0.1 0.1 0.3 1.0

Rye 0.3 0.3 0.6 2.0

Sorghum 0.3 0.4 0.8 2.0

Triticale 0.3 0.3 0.6 2.0

Wheat 0.1 0.1 0.3 1.0

PULSES:

Beans 0.1 0.1 0.3 1.0

Broad bean 0.3 0.3 0.6 2.0

Cowpea 0.3 0.3 0.6 2.0

Pea 0.1 0.1 0.3 1.0

Soyabean 0.1 0.1 0.3 1.0

Common vetch 0.1 0.1 0.3 1.0

**OIL CROPS:**

Castor bean 0.1 0.1 0.3 1.0

Groundnut 0.1 0.3 0.6 2.0

Oilseed rape 0.3 0.3 1.0 2.0

Sunflower 1.5 1.5 2.5 4.5

**FIBRE CROPS:**

Cotton: 0.1 0.1 0.3 1.0

Flax 0.1 0.1 0.3 1.0

Kenaf 0.1 0.1 0.3 1.0

**ROOT CROPS:**

Beet 0.1 0.1 0.3 1.0

Swede 0.3 0.3 1.0 2.0

Turnip 0.3 0.3 1.0 2.0

**HERBAGE GRASSES:**

Buffel grass 0.3 0.3 1.0 2.0

Guinea grass 0.3 0.3 1.0 2.0

Rhodes grass 0.3 0.3 1.0 2.0

Rye grass 0.3 0.3 1.0 2.0

Weeping lovegrass 0.3 0.3 1.0 2.0

**HERBAGE LEGUMES:**

Clover 0.1 0.1 0.3 1.0

Glycine 0.3 0.3 1.0 2.0

Lucerne 0.1 0.1 0.3 1.0

Siratiro 0.3 0.3 1.0 2.0

Stylo 0.3 0.3 1.0 2.0

**VEGETABLES:**

Beet 0.1 0.1 0.3 1.0

Cabbage 0.3 0.3 1.0 2.0

Carrot 0.2 0.2 0.4 1.5

Cauliflower 0.3 0.3 1.0 2.0

Kale 0.3 0.3 1.0 2.0

Leek 0.3 0.3 1.0 2.0

LXttuce 0.1 0.1 0.3 1.0

Onion 0.3 0.3 1.0 2.0

Pea 0.1 0.1 0.3 1.0

Pepper 0.2 0.2 0.4 1.5

Pumpkin 0.1 0.1 0.3 1.0

Rape 0.3 0.3 1.0 2.0

Tomato 0.1 0.1 0.3 1.0

Water melon 0.1 0.1 0.3 1.0

**STIMULANT CROPS:**

Tobacco 0.3 0.3 1.0 2.0

**NOTES:**

In review of the frequency of disease infection the S.C.C.I. determines in every special case whether the seed lot can be approved in the respective classes or not.

***FIFTH SCHEDULE***

(Regulation 7)

**MINIMUM STANDARD OF SEED QUALITY**

Germination

Purity capacity

Species % by weight % by number

CEREALS:

Barley 98.0 85

Finger millet 97.5 70

Oats 98.0 80

Pearl millet 97.5 70

Rice 97.0 75

Rye 98.0 80

Triticale 98.0 80

PULSES:

Beans 98.0 70

Broad bean 98.0 70

Chick pea 97.0 70

Cowpea 98.0 75

Dolichos bean 98.0 70

Pea 98.0 75

Velvet bean 98.0 75

Common vetch 97.0 70

OIL CROPS:

Castor bean 98.0 70

Ground-nut 96.0 75

Linseed 97.5 75

Oilseed rape 98.0 75

Safflower 96.0 75

Sesame 96.0 75

FIBRE CROPS:

Cotton 97.5 70

Flax 97.5 75

Kenaf 98.0 75

ROOTS CROPS:

Beet 97.5 75

Swede 98.0 75

Turnip 98.0 75

HERBAGE GRASSES:

Buffel grass 55.0 60 or PISC 33%,

Guinea grass 50.0 50 or PLSC 33%,

Paspalum grass 50.0 50 or PLSC 25%

Rhodes grass 50.0 50 or PLSC 25%,

Rye grass 96.0 75

Setaria grass 60.0 60 or PLSC 36%,

Weeping lovegrass 80.0 80

HERBAGE LEGUMES:

Centro 98.0 55

Clover 97.0 70

Glycine 97.0 60

Greenleaf 95.0 70

Leucaena 95.0 70

Lucerne 98.0 70

Silverleaf 95.0 70

Siratiro 97.5 75

Stylo 97.0 65

Sunnhemp 98.0 75

VEGETABLES:

Amaranth 93.0 70  
Beet 97.5 75  
Brussel sprouts 98.0 75  
Beans 98.0 75  
Cabbage 98.0 75  
Carrot 97.0 65  
Cauliflower 98.0 75  
Celery 96.0 60  
Chinese cabbage 98.0 75  
Cucumber 98.0 75  
Dill 97.0 70  
Eggplant 98.0 60  
Endive 95.0 70  
Kale 98.0 75  
Leek 98.0 70  
Lettuce 97.0 75  
Muskmelon 98.0 75  
Okra 96.0 55  
Onion 98.0 65  
Parsley 96.0 65  
Parsnip 96.0 55  
Pea 98.0 70  
Pepper 98.0 65  
Pumpkin 98.0 75  
Radish 98.0 75  
Rape 98.0 75  
Spinach 96.0 65  
Sprouting broccoli 98.0 75  
Squash 98.0 75  
Tomato 98.0 75  
Turnip 98.0 75  
Water melon 98.0 70  
STIMULANT CROPS:  
Tobacco 98.0 80

## APPENDIX

(Regulation 2)

### ***SIXTH SCHEDULE***

(Regulation 19)

#### PRESCRIBED FEES

##### REGISTRATION AS SEED GROWER:

Fee units  
Hybrids of maizo, sorghum and sunflower 19 per hectare  
All other crops.. 13 per hectare  
Seed Processing License: 25 per annum  
Seed Seller's License:  
A. General - Restricted wholesale 23 per annum  
B. General - Restricted retail 23 per annum  
C. General - Unrestricted 30 per annum



D. Limited - Restricted wholesale 10 per annum  
E. Limited - Restricted retail 8 per annum  
F. Limited - Unrestricted 15 per annum  
Sampling of seeds 6 per bag (container)

## TESTING OF SEEDS

A. Determination of  
Weeds by Moisture  
Purity Germination number content  
K K K K  
Cereals 20.00 22.00 22.00 20.00  
Pulses 20.00 22.00 22.00 20.00  
Oil Crops 28.00 22.00 26.00 18.00  
Fibre Crops 28.00 22.00 26.00 18.00  
Root Crops 24.00 24.00 26.00 18.00  
Herbage Crasses 28.00 28.00 26.00 18.00  
Herbage Legumos 24.00 24.00 26.00 18.00  
Vegetables 28.00 28.00 26.00 26.00  
Stimulant Crops 28.00 28.00 26.00 20.00  
Others 28.00 28.00 26.00 20.00

A. Miscellaneous Tests  
K  
Seed health test 34.00  
Verification of species 22.00  
Verification of cultivars  
-Laboratory test 30.00  
-Control growing 250.00  
Weight per 1000 seeds 22.00  
TZ-test 37.00  
Others 37.00

C. Certificate  
K n  
ISTA-Orange International Seed Lot Certificate 25.00 per piece  
ISTA-Blue International Seed Sample Certificate 25.00 per piece  
Sealing of seeds 2.50 per bag (container)  
Notice to import seeds 20.00 per piece

### NOTES:

Fees for registration as a seed grower includes necessary field inspections  
19 fee units and for all other crops 13 fee units  
(As amended by S.I. no. 176 of 1989 and Act No. 13 of 1994)

## ***SEVENTH SCHEDULE***

(Regulations 8, 10, 11, 12, 13, 14, 15 and 17)

## PRESCRIBED FORMS

Form 1

REPUBLIC OF ZAMBIA  
(To be completed in triplicate)

MINISTRY OF AGRICULTURE AND FOOD SECURITY

PLANT VARIETY AND SEEDS REGULATIONS

APPLICATION FOR REGISTRATION AS SEED GROWER

(Regulation 8)

To: S.C.C.I.,

P.O. Box 350199

Chilanga

Name and address of applicant

Name and address of farm

Species to be grown Cultivar

Parent seed:Class Certification No.

For hybrids:Male line Female line

Quantity kg Proposed hectarage

Proposed planting date.....

Previous crops and cultivars grown in the field during the last two growing season:

Season 19.....19.....

Crop.

Cultivar

Comments

Date Signature

(A map giving clear instructions on how to reach the farm must be drawn overleaf)

FOR OFFICIAL USE ONLY

Application received Fee paid

for.....hectares

Decision: Approval of .....(species).....(cultivar)

Production period ..... Conditions imposed.....

Reg. No..... Date.....

.....  
For Seed Control and Certification Institute

Form 2

REPUBLIC OF ZAMBIA

MINISTRY OF AGRICULTURE AND FOOD SECURITY

PLANT VARIETY AND SEEDS REGULATIONS

CERTIFICATE OF REGISTRATION AS A SEED GROWER

(Regulation 8 (4))

Registration No.:.....

To .....(name)

of..... (address)

You are hereby registered as a seed grower to grow .....  
hectares of..... (species).....(cultivar) on the  
farm .....

for certification as..... seed class

parent seed .....

(specie, cultivar, cert. No.)

This registration is valid from..... 19..... to.....  
.....19.....

The following conditions are imposed on this crop .....

.....

.....

Date.....

for Seed Control and Certification Institute

Form 3

REPUBLIC OF ZAMBIA

MINISTRY OF AGRICULTURE AND FOOD SECURITY

PLANT VARIETY AND SEEDS REGULATIONS

FIELD INSPECTION REPORT No.:.....

(Regulation 9)

IDENTIFICATION:

Registration No Crop

Cultivar .. Seed class

Parent seed, certification No.

Grower

Farm

INSPECTION:

Hectares..... Isolation.....Metres

Cultivar purity

.

Diseases

Other crop plants

Weed plants

Remarks

Date.....

.....  
Signature of Grower or his representative Signature of Inspector

Form 4  
(To be completed in triplicate)  
REPUBLIC OF ZAMBIA

MINISTRY OF AGRICULTURE AND FOOD SECURITY

PLANT VARIETY AND SEEDS REGULATIONS

APPLICATION FOR SEED PROCESSING LICENCE

(Regulation 10 (2))

Applicant

Address

SPECIFICATION

Address of premises

Type of processing plant

Drying facilities

Cleaning facilities

Dressing and packing facilities

Storage facilities

Remarks

Date..... Signature.....

FOR OFFICIAL USE ONLY

Application received..... Fee paid.....

Inspected by .....

Decision:  Approved for the period.....  Rejected.

Conditions imposed .....

.....

Licence No..... Date.....

.....

for Seed Control and Certification Institute

Form 5  
REPUBLIC OF ZAMBIA

MINISTRY OF AGRICULTURE AND FOOD SECURITY

PLANT VARIETY AND SEEDS REGULATIONS

SEED PROCESSING LICENCE

(Regulation 10 (1))

A seed processing licence is hereby granted to (name) .....

.....

of (address) .....

for processing of seeds at (name of premises) .....

.....

(address) .....

for the period..... 19..... to.....19.....

This license is subject to the following conditions .....

.....

.....

.....

Date.....

for Seed Control and Certification Institute

Form 6

REPUBLIC OF ZAMBIA (To be completed in triplicate)

MINISTRY OF AGRICULTURE AND FOOD SECURITY

PLANT VARIETY AND SEEDS REGULATIONS

APPLICATION FOR A SEED SELLERS' LICENCE

(Regulation 11 (2))

To: S.C.C.I.

P.O. Box 350199

Chilanga

Applicant .....

Address .....

.....

I hereby apply for a seed seller's licence of class:

A. General-Restricted wholesale [ ] B. General-Restricted retail [ ]

C. General-Unrestricted [ ] D. Limited-Restricted wholesale [ ]

E. Limited-Restricted retail [ ] F. Limited-Unrestricted [ ]

Tick off as applicable

Name and address of premises

Species to be sold

Storage facilities

Date..... Signature.....

FOR OFFICIAL USE ONLY

Application received..... Fee paid.....  
Inspected by .....  
Decision: [ ] Approved for the period..... [ ] Rejected  
Conditions imposed .....  
.....  
Licence No..... Date.....  
for Certifying Authority

Form 7  
REPUBLIC OF ZAMBIA

MINISTRY OF AGRICULTURE AND FOOD SECURITY

PLANT VARIETY AND SEEDS REGULATIONS

SEED SELLER'S LICENCE

Licence No.....  
A seed seller's licence of class is  
hereby granted to (name)  
(address)  
for trading of seeds at (name of premises)  
(address)  
for the period..... 19..... to.....19.....  
This licence is subject to the following conditions.

Date.....  
for Certifying Authority

Form 8

REPUBLIC OF ZAMBIA

MINISTRY OF AGRICULTURE AND FOOD SECURITY

PLANT VARIETY AND SEEDS REGULATIONS

SAMPLING REPORT

(Regulation 12)

No.....  
Applicant  
Address

Registration No.....  
Certification No.....  
Crop Cultivar

Lot No Weight of lot kg:  
Intended seed class  
Number of labels required  
Remarks

Date.....

Signature of Applicant or his Signature of Sampler/Inspector  
representative

Form 9

REPUBLIC OF ZAMBIA  
MINISTRY OF AGRICULTURE AND FOOD SECURITY  
PLANT VARIETY AND SEEDS REGULATIONS  
SEED CERTIFICATE  
(Regulation 13)  
SEED CONTROL AND CERTIFICATION INSTITUTE OF ZAMBIA

Species

Cultivar  
Test No.

Date Recieved Date sampled  
Lot No.

Origin Weight  
of Lot: kg

Name and address of applicant

Purity, % weight Germination, % number Germination  
Capacity, %  
Pure seed Inert  
Matter Other  
Crop  
Seed Weed  
Seeds Normal  
Seedlings Hard  
Seeds Fresh  
Seeds Abnorma  
Seedlings Dead  
Seeds

Kind of inert matter:

Species and number of other crop seeds:

Species and number of weed seeds:

Moisture Content, %

Cultivar Purity, % Weed Seeds, number per kg

Other Determinations:

Date.....

.....  
for S.C.C.I.

Form 10

REPUBLIC OF ZAMBIA  
MINISTRY OF AGRICULTURE AND FOOD SECURITY  
PLANT VARIETY AND SEEDS REGULATIONS

SEED CONTROL AND CERTIFICATION INSTITUTE OF ZAMBIA

CONTROL GROWING REPORT

(Regulation 14)

Specie .....

Cultivar .....

Certification No..... Seed Lot No.....

Seed Class..... Planted.....

TEST RESULTS

Foreign cultivars .....

.....

.....

Off types .....

.....

.....

Diseased plants .....

.....

.....

.....

Remarks .....

.....

.....

.....

Date.....

Signature, S.C.C.I.

Form 11

REPUBLIC OF ZAMBIA

MINISTRY OF AGRICULTURE AND FOOD SECURITY

PLANT VARIETY AND SEEDS REGULATIONS

SEED CONTROL AND CERTIFICATION INSTITUTE OF ZAMBIA

SEALING REPORT



(Regulation 15)

Applicant .....

Address .....

.....

Species and Cultivar Certification

No. Lot

No. Number and  
size of bags

sealed

Date.....

.....

Signature of Sampler/Inspector

.....

Signature of Applicant or  
his representative

Form 12

REPUBLIC OF ZAMBIA

MINISTRY OF AGRICULTURE AND FOOD SECURITY

PLANT VARIETY AND SEEDS REGULATIONS

NOTICE TO IMPORT SEED

(Regulation 17)

Applicant .....

Address .....

SPECIFICATION

Species .....

Cultivar .....

Quantity to be imported..... kg

Country of origin .....

Official marks of the seed lot .....

Quality of the seeds (copy of seed certificate to be enclosed) .....

.....

.....

Reasons for the importation .....

.....

.....  
Expected date for the import .....  
Date.....  
Signature

FOR OFFICIAL USE ONLY  
Notification received..... Fees paid.....  
Remarks .....  
Notification No. ....  
Date.....  
Signature