Southern Seed Certification Association, Inc.

Standards and Regulations for Certified Seed Production

ARROWLEAF AND CRIMSON CLOVER

SPECIFIC STANDARDS

I. Application of General Standards

A. The general standards are basic and together with the following specific standards, constitute the standards for certification of Arrowleaf and Crimson Clover Seed.

B. The general standards are modified as follows:

Classes and sources of certified seed (V).

Once a field of Clover has been established to produce either Foundation, Registered, or Certified seed, the field will continue to produce that same certification class so long as it remains in production and meets minimum certification standards.

II. Land Requirements

A. A crop of clover must not have been grown or planted on the land for 5,3 and 2 years prior to stand establishment for producing the Foundation, Registered and Certified seed classes respectively.

B. During the year immediately prior to the seeding of any class of seed, the land shall be free from volunteer plants. No manure or other contaminating amendments shall be applied the year previous to seeding or during the establishment and productive life of the stand.

III. Field Standards

A. General:

1. Inspection

Fields intended for certification must be inspected at such times as will determine most accurately mixtures of off-type plants and other varieties. This inspection usually will be made during the blossom stage.

2. Unit of Certification

A field or portion of a field may be Certified. The portion of a field not meeting requirements for certification shall not be harvested for seed.

A. Specific Requirement:

Tolerance and Requirements

Factor	Foundation	Registered	Certified -
Isolation*	1320 feet	600 feet	300 feet
Other Varieties	1:2000	1:1000	1:500

*Between classes of the same variety - 25% of stated figures.

IV. Seed Standards

	Standards for each class		
Factor	**Foundation**	**Registered**	**Certified**
Pure seed (min.)	98.00%	98.00%	98.00%
Inert matter (max.)	2.00%	2.00%	2.00%
Weed seed (max.)	0.25%	0.25%	0.25%
Total other crop seed (max.)	0.05%	0.20%	0.40%
Other varieties (max.)	0.05%	0.15%	0.30%
Other kinds (max.)	None	0.05%	0.10%
Noxious weed seed (max.)*	None	None	30 per lb.
Germination & hard seed (min.)	85.00%	85.00%	85.00%

*Clover seed shall be free of wild mustard, rape, radish and turnips.

BAHIA GRASS AND ATRA PASPALUM

SPECIFIC STANDARDS

I. Application of General Standards

The general standards are basic and together with the following specific standards, constitute the standards for certification of Bahia Grass and Atra Paspalum.

II. Land Requirements

A. A field to be eligible for the production of Foundation seed must not have grown or been seeded to the same species during the previous five years, and must be free of bahiagrass, atra paspalum and other contaminates.

B. A field to be eligible for the production of Registered or Certified seed must not have grown or been seeded to the same species during the previous year, and must be free of bahiagrass, atra paspalum and other contaminates at time of inspection. Unless the field had been seeded with Foundation seed of the same variety in previous years and field had been in cultivation during years that the field was not in certified production.

C. A field inspection must be made prior to planting of seed.

D. Seed production fields will only be grazed during the months of November through April to prevent contamination.

E. Cattle may graze seed production fields if in the preceding five days are on pasture or feed stuffs that contain no seed heads. SSCA will be notified 10 days prior to grazing seed production fields, and inspection made of pastures and feed stuffs. Producers will be charged actual expenses for inspections.

F. Hay containing bahiagrass or atra paspalum will not be fed animals five days prior to grazing production fields.

G. At no time will contaminating hay be fed on production fields.

III. Fields Standards

A. General:

1. Inspection

A field inspection is to be made after heading but before harvesting.

2. Unit of Certification

The field shall be considered the unit of certification. A strip at least 5 - feet wide which is mowed, uncropped, or planted to some crop other than bahiagrass or atra paspalum shall constitute a field boundary.

3. Isolation:

A seed field to be eligible for the production of Foundation, Registered or Certified seed must be isolated from any other strain or strains of the same species in bloom at the same time in accordance with the requirements given in the following table:

Type of Reproduction	Border to be Removed* Feet	**Minimum Isolation-Feet Foundation	Registered	Certified
Cross-pollinated	0	900	300	165
	9	600	225	100
	15	450	150	75
Strains at least 80% Apomictic & highly self-fertile species***	0	60	30	15
	9	30	15	15

* Border removal applies only to fields of 5 acres or more. Where a border is to be removed such removal shall not occur until pollination of the crop to be certified is completed.

** When different classes of seed of the same variety are being grown on the same or adjacent fields, the isolation requirements may be reduced to 25% of that shown in the above table.

*** Varieties within species with both cross-pollinated and apomictic type of reproduction will be considered highly apomictic for purposes of minimum isolation unless otherwise specified for that variety.

B. Specific Requirements:

Maximum field tolerance for other varieties and off-type plants of the same species when recognizable are: (Ratio of plants)

Foundation	Registered	Certified
1:2000	1:200	1:100

IV. Seed Standards

Factor	Standards for each class Foundation	Registered	Certified
Pure seed (min.)	* 95.00%	* 95.00%	* 95.00%
Inert matter (max.)	** 5.00%	** 5.00%	** 5.00%
Weed seed (max.)	0.50%	0.50%	0.50%
Total other crop seed (max.)	0.10%	0.25%	0.50%
Other varieties (max.)	0.05%	0.20%	0.40%
Other kinds (max.)	0.05%	0.05%	0.10%
Noxious weed seed (max.)	None	None	None
Germination including firm seed (min.)	80.00%	80.00%	80.00%

*** Minimum of 90% and ** maximum of 10% with the certification tag carrying the following statement:**

SUBSTANDARD FOR PURITY AND INERT ONLY

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COMMERCIAL HYBRID CORN

SPECIFIC STANDARDS

I. Application of General Standards

A. The general seed standards are basic and together with the following specific standards, constitute the standards for certification of Commercial Hybrid Corn.

B. The general standards are modified as follows:

1. Eligibility requirements for Certification:

a. Hybrid Corn is seed to be planted for any use except seed production. It may be one of the following:

(1). A single cross, i.e. the first generation of a cross of two inbred lines, an inbred line and a Foundation backcross or two Foundation back crosses.

(2). A three-way cross, i.e. the first generation of a cross of a Foundation single cross and an inbred line or Foundation backcross.

(3). A double cross, i.e. the first generation of a cross between two Foundation single cresses.

2. Classes and Sources of Certified Seed:

a. Only the class "Certified" is recognized.

b. Hybrid corn must be produced from Certified Foundation seed that has been field inspected.

II. Land Requirements

There are no requirements as to the previous crop.

III. Field Inspection

A. Before Pollination Period:

1. Plots or fields in which commercial hybrids are being produced shall be inspected by the certifying agency at least once for purity as to plant type. Any off type or doubtful plants shall be rogued before they shed pollen.

2. Isolation shall also be checked at this time.

B. During Pollination Period:

During the pollination period the plot or field shall be inspected by the certifying agency as many times as deemed necessary, such inspection to be made without giving previous notice to the grower. The main purpose of these inspections is to check on the thoroughness of detasseling of the ear parent, or the absence of pollen shedding by the male sterile parent.

IV. Field Standards

A. General

1. Unit of Certification

The unit of certification shall be a field, but a portion of the field may be approved for certification, provided pollen control in the uncertified portion is satisfactory, and provided the remainder is harvested separately and the seed excluded from certification.

2. Isolation

a. A specific hybrid to be accepted for certification must be so located that the seed parent is not less than 660 feet from other corn of a different color and texture. However, in the case of the same color and texture the distance may be reduced to not less than 410 feet (sweet corn excepted) and further modified by the planting of pollen parent border rows, the number of which is to be determined by the acreage of the specific cross in accordance with the following tables.

b. A difference in date of planting shall not be accepted as a substitute for distance in meeting isolation requirements.

c. Border Rows: When the kernel type and color of the contaminating fields are the same as those of the parents in the crossing field, distance may be modified by the planting of border rows of the pollen parent. The following table indicates the minimum number of border rows required for fields of various sizes when located at different distances from other corn.

Field Sizes		
Minimum Distance From other corn (feet)	1 to 20 acres (Min.) Border rows	20 acres or more (Min.) Border rows
410	0	0
370	2	1
330	4	2
290	6	3
245	8	4
205	10	5
165	12	6
125	14	7
85	16	8
0	---	10

3. Male Sterile Ear Parent

A male sterile ear parent can be used to produce certified hybrid corn seed by either of two methods:

a. Seed of the normal fertile ear parent must be mixed with the seed of the male sterile ear parent of the same pedigree either by blending in the field at harvest or by size at conditioning time. The ratio of the male sterile ear parent seed to normal ear parent seed shall not exceed 2:1

b. The pollen parent must involve a certified pollen restoring line or lines so that not less than one-third of the plants grown from the hybrid corn seed produce pollen which appears to be normal in quantity and viability.

B. Specific Requirements

1. Off-type Plants:

A commercial hybrid parent which, after pollen shedding begins, contains more than .1% of off-type plants shall not be eligible for certification unless they are properly detasseled and if they are in female rows, they should be removed before the crop is harvested.

2. Detasseling:

The following requirements apply only when five percent or more of the seed parent plants have apparently receptive silks.

a. A hybrid will be disqualified for certification if more than one percent <u>of the seed parent tassels have shed pollen on any one inspection or if the total for all inspections on different dates exceed two percent.</u>

b. Sucker tassels and portions of tassels on main plants will be counted when two inches or more of the central stem, the side branches, or a combination of the two have the anthers extended from the glumes and are shedding pollen.

V. Seed Standards

Factor	Certified Class
Pure seed (min.)	99.00%
Inert matter (max.)	1.00%
Weed seed (max.)	None
Other varieties (max.)	0.50%
Germination (min.)	90.00%

FOUNDATION SINGLE CROSS HYBRID CORN

SPECIFIC STANDARDS

I. Application of General Standards

A. The general standards are basic and together with the following specific standards, constitute the standards for certification of Foundation Single Cross Hybrid Corn.

B. The general standards are modified as follows:

1. Eligibility Requirements:

   A Foundation single cross to be eligible for certification must be produced from approved inbred lines whose source assures their identity.

2. Classes and Sources of Certified Seed:

   a. Only the class Foundation is recognized.

   b. A Foundation single cross shall consist of the first generation hybrid between two Certified inbred lines to be used in the production of double-, three-way or top crossed.

C. Additional requirement for fertility restoring lines:

A fertility restoring line may be substituted for its non-restoring counterpart in a Foundation single cross provided the fertility restoring line is the same in other observable characteristics as its non-restoring counterpart.

II. Land Requirements

There are no requirements as to the previous crop.

III. Field Inspection

Three or more inspections shall be made by the certifying agency before and during the pollinating period without prior notice to the grower.

IV. Field Standards

A. General

1. Unit of Certification

The unit of certification shall be a field but a portion of a field may be approved for certification provided the remainder is harvested separately and the seed excluded from certification.

2. Isolation

A production field of a specific Foundation single cross involving male sterile or fertile material must be so located that it is not less than 660 feet from any kind of corn.

a. No isolation is required for the production of hand pollinated seed.

b. Differential maturity dates may permit modifying isolation distances, provided there are no receptive silks in the seed parent at the time pollen is being shed in the contaminating field.

3. Detasseling

The following requirements apply only when 5.0 percent or more of the seed parent plants have receptive silks.

a. A Foundation single cross will not be accepted for certification if more than .5 percent of the seed parent plants have shed pollen on any one inspection or if the total for three inspections of different dates exceeds 1.0 percent.

b. When more than one combination is being grown in the same isolation and the seed parent or one or more of them is shedding pollen in excess of 1.0 percent, all ear parents having 5 percent or more apparently receptive silks at that time will be disqualified unless adequately isolated from the shedding seed parent.

c. Sucker tassels, portions of tassels or tassels on main plants will be counted when 2 inches or more of the central stem, the side branches or a combination of the two have the anthers extended from the glumes and are shedding pollen.

B. Specific requirements

1. A Foundation single cross seed field in which more than 0.1 percent definitely off-type plants in the pollen parent have shed pollen will not be certified.

2. Any plant shedding pollen in male sterile rows must be destroyed at pollination time to eliminate the possibility of its seed production.

3. At the time of the last inspection the seed parent shall not contain in excess of 0.1 percent definitely off-type plants.

V. Seed Standards

Foundation single crosses shall not contain in excess of 0.1 percent of definitely off-type ears or more than 0.2 percent of ears with off-colored kernels.

INBRED CORN

SPECIFIC STANDARDS

I. Application of General Standards

A. The general standards are basic and together with the following specific standards, constitute the standards for certification of Inbred Lines of Corn.

B. The general standards are modified as follows:

1. Eligibility Requirements

An inbred line to be eligible for certification must be from a source such that its identity may be assured and approved by the certification agency.

2. Classes and Sources of Certified Seed

a. An inbred line must be a relatively true breeding strain of corn resulting from at least five successive generations of controlled self-fertilization or a back crossing to a recurrent parent with selection or its equivalent.

b. A recovered fertility restoring inbred line must have been back crossed to its recurrent parent with a selection for fertility restoration relative to a specific cytoplasmic sterile source for not less than five generations.

c. Proof of the fertility restoring ability of the line will be supplied by the originator.

d. Only the class Foundation is recognized.

II. Land Requirements

There are no requirements as to the previous crop.

III. Field Inspection

A. Hand-pollinated production will be inspected at least once.

B. For all other methods of inbred production, the plot or field shall be inspected as many times as deemed necessary by an inspector of the certification agency. At least three inspections shall be made without previous notification to the grower.

IV. Field Standards

A. General

1. Unit of Certification

The unit of certification shall be a field, but a portion of the field may be approved for certification, provided the remainder is harvested separately and the seed is excluded from certification.

2. Isolation

An increase of male sterile or fertile inbred line must be so located that it is not less than 660 feet from any other kind of corn.

a. No isolation is required for the production of hand pollinated seed.

b. Differential maturity dates may permit modifying isolation distances, provided there are no receptive silks in the inbred line at the time pollen is being shed in the contaminating field.

B. Specific requirements

1. A field which contains, at any one inspection, more than 0.1 percent of definitely off-type plants that have shed or are shedding pollen when 5.0 percent or more of the plants in the field have receptive silks, shall not be certified.

2. Sucker tassels, portions of tassels or tassels on main plants will be counted when 2 inches or more of the central stem, the side branches or a combination of the two have the anthers extended from the glumes and are shedding pollen.

3. Any plant shedding pollen in male sterile rows must be completely destroyed at pollinating time to eliminate the possibility of its seed production.

V. Seed Standards

Inbred lines shall not contain in excess of 0.1 percent of definitely off-type ears, or more than 0.2 percent of ears with off-type colored kernels.

COTTON

SPECIFIC STANDARDS

I. Application of General Standards

The general standards are basic and with the following specific standards, constitute the standards for certification of Cotton Seed.

II. Land Requirements

Land used for the production of Certified seed must be free of volunteer cotton plants.

III. Field Standards

A. General

1. Inspection

At least one field inspection shall be made prior to harvest at such time as, in the judgment of the Association, is most appropriate.

2. Unit of Certification

The field is the unit of certification, but a portion of a field may be approved provided the remainder is harvested separately and the seed eliminated for certification.

3. Isolation

Certified cotton must be isolated 15 feet or have a barrier that will prevent mechanical mixture, unless the variety adjacent is the same variety and being offered for certification. Certified cotton fields must be isolated at least ½ mile from other species of cotton. If a field of cotton adjacent to a certified field contains one to five plants per acre of the same species, but differs from the variety to be certified by easily observed morphological characteristics, the isolation must be 100 feet from the certified field to the nearest contaminant; 100 foot isolation for each additional increment of 5 plants per acre of the contaminant up to a maximum of ¼ mile isolation.

B. Specific Requirements:

	Maximum Permitted - Ratio of Plants		
Factor	**Foundation**	**Registered**	**Certified**
Other varieties and off types	1 plant/A	2 plant/A	10 plants/A
Other species	None	None	None

Cocklebur tolerance- 3 plants per acre of the size that are easily visible and that are at the height or taller than the average height of the cotton plants.

IV. One-Variety Farms and One-Variety Gins

A. One-Variety Farms: Cotton offered for certification must be grown on a one-variety farm or as per specifications of the originating breeder and/or institution.

B. One-Variety Gins: Cotton offered for certification must be ginned on a one-variety gin or as per specifications of the originating breeder and/or institution.

V. Seed Standards

		Standards for each class	
Factor	**Foundation**	**Registered**	**Certified**
Pure Seed (min.)	98.00%	98.00%	98.00%
Inert Matter (max.)	2.00%	2.00%	2.00%
Weed seed (max.)	None	None	None
Total other crop seed (max.)	0.03%	0.05%	0.10%
Other varieties (max.)	0.03%	0.05%	0.10%
Other kinds (max.)	None	None	None
Noxious weed seed	None	None	None
Germination (min.)	70.00%	70.00%	70.00%

COWPEA

SPECIFIC STANDARDS

I. Application of General Standards

The general standards are basic and with the following specific standards, constitute the standards for certification of Cowpea Seed.

II. Land Requirements

A crop will not be eligible for certification if planted on land where cowpeas other than a certified crop of the same variety was grown the previous year.

III. Field Standards

A. General:

1. Inspection

At least one inspection shall be made after the pods are well developed.

2. Unit of Certification

A field or a portion of a field may be certified. The portion of a field not meeting requirements for certification shall not be harvested for seed.

B. Specific Requirements:

	Tolerance and Requirements		
Factor	**Foundation**	**Registered**	**Certified**
Isolation	15 feet	15 feet	15 feet
Inseparable Other Crops	None	1:5000	1:1000
Other Varieties and Off-types	1:4000	1:2000	1:500
Diseased plants	None	1:1000	1:100

IV. Seed Standards

	Standards for each class		
Factor	**Foundation**	**Registered**	**Certified**
Pure Seed (min.)	95.00%	95.00%	95.00%
Inert matter (max.)	5.00%	5.00%	5.00%
Weed seed (max.)	None	None	0.25%
Total other crop seed (max.)	0.02%	0.10%	0.40%
Other varieties (max.)	0.01%	0.10%	0.20%
Other kinds (max.)	0.01%	0.05%	0.20%
Noxious weed seed (max.)	None	None	None
Weevil damage (max.)	4.00%	4.00%	4.00%
Germination (min.)	75.00%	75.00%	75.00%

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TALL FESCUE

SPECIFIC STANDARDS

I. Application of General Standards

A. The general standards are basic and together with the following specific standards, constitute the standards for certification of Tall Fescue Seed.

B. The general standards are modified as follows:

Classes and sources of certified seed (V).

(a) Fields of the variety KY 31 are eligible for certification if sown with certified seed.

(b) Following establishment, the certification of seed fields shall be limited to 4 years for Foundation, 5 years for Registered and 6 years for Certified. Fields established with KY 31 for the production of Certified seed will be eligible to continue production for as long as the original stand remains vigorous and productive as determined by the Association.

(c) The cultivar AU Triumph has no Registered class.

II. Land Requirements

A. The production of foundation seed shall be on land that has not grown or been seeded to the same species during the previous 5 crop years.

B. The production of the registered or Certified classes shall be on land that has not grown or been seeded to the same species during the previous crop year, except a Certified class of the same variety.

III. field Standards

A. General:

1. Inspection

Field inspection must be made after heading and before harvesting.

2. Unit of Certification

The unit of certification shall be a seed field or block surrounded by at least ten feet of ground that is uncropped, mowed or of another crop kind.

B. Specific Requirements:

	Tolerance and Requirements		
Factor	**Foundation**	**Registered**	**Certified**
Isolation	1320 feet	660 feet	330 feet
Inseparable other crops	1:1000	1:400	1:200
Other varieties and off-Types	1:1000	1:400	1:200
Inseparable noxious weeds	None	None	None

IV. Seed Standards

	Standards for each class		
Factor	**Foundation**	**Registered**	**Certified**
Pure seed (min.)	98.00%	98.00%	98.00%
Inert matter (max.)	2.00%	2.00%	2.00%
Weed seed (max.)	0.05%	0.10%	0.30%
Total other crop seed (max.)	0.10%	0.50%	1.00%
Other varieties (max.)	0.05%	0.25%	0.50%
Other kinds (max.)	0.05%	0.25%	0.50%
Wild winter peas	None	None	None
Noxious weed seed (max.)*	None	None	50 per lb.
Germination (min.)	80.00%	80.00%	80.00%

* Prohibited Noxious Weeds: Bindweed, Nutgrass, Wild Onion and/or Wild Garlic, Johnson Grass, Dodder, Bermuda, Horsenettle, Dock, Corncockle, Canada Thistle, Blessed Thistle and Quackgrass.

Permitted Noxious Weeds: Bracted Plantain, Buckhorn Plantain, Chess or Cheat, Darnel, Silverleaf Nightshade and Sheep Sorrel.

SERICEA LESPEDEZA

SPECIFIC STANDARDS

I. Application of General Standards

A. The general standards are basic and together with the following specific standards, constitute the standards for certification of Sericea Lespedeza.

B. The general standards are modified as follows:

Classes and sources of certified seed (V).

(a) Foundation fields will be eligible for the production of Foundation seed for 6 successive harvest years after which the field will not be eligible for the production of Foundation, Registered or Certified seed.

(b) Fields established with Foundation seed will be eligible for the production of Registered seed for 6 successive harvest years after which time the field may be reclassified for the production of Certified seed for 2 successive harvest years.

(c) Fields established with Foundation or Registered seed for the production of Certified seed will be limited to not more than 6 successive harvest years. Certified seed shall not be used for further production of Certified seed.

II. Land Requirements

The crop will not be eligible for certification if planted on land where Lespedeza, other than a crop eligible for certification and of the same variety, was grown during the previous ten years for Foundation production and five years for Registered and Certified production. Land must be free of all Lespedeza volunteer plants the year prior to seeding.

III. Field Standards

A. General:

1. Inspection

At least one field inspection shall be made prior to each harvest.

2. Unit of Certification

A field or a portion of a field may be certified. The portion of a field not meeting requirements for certification shall not be harvested for seed.

B. Specific Requirements:

	Tolerance and Requirements		
Factor	**Foundation**	**Registered**	**Certified**
Isolation	1320 feet	660 feet	330 feet
Inseparable Other Crops	1:2000	1:10000	1:500
Other varieties and Off-Types	1:1000	1:500	1:250
Inseparable Noxious Weeds	None	None	1:100,000

IV. **Seed Standards**

	Standards for each class		
Factor	**Foundation**	**Registered**	**Certified**
Pure seed (min.)	98.00%	98.00%	98.00%
Inert matter (max.)	2.00%	2.00%	2.00%
Weed seed (max.)	0.10%	0.25%	0.50%
Total other crop seed (max.)	0.10%	0.30%	0.60%
Other varieties (max.)	0.08%	0.20%	0.40%
Other kinds (max.)	0.02%	0.10%	0.20%
Noxious weed seed (max.)	None	None	30 per lb.
Germination & Hard Seed (min.)	85.00%	85.00%	85.00%

PEANUT

SPECIFIC STANDARDS

I. Application of General Standards

The general standards are basic and, with the following specific standards, constitute the standards for certification of Peanut Seed.

II. Land Requirements

A peanut crop will not be eligible for certification if planted on land which grew peanuts either of the previous 2 years, volunteer or otherwise, unless the preceding crop was grown from certified seed of the same variety.

III. Field Standards

A. General:

1. Inspection

At least one field inspection shall be made prior to harvest at such time as, in the judgment of the Association, is most appropriate.

2. Unit of Certification

A field or portion of a field constitutes the unit of certification. A portion of a field shall be clearly marked to prevent mechanical mixtures with non-eligible portions at harvest.

B. Specific Requirements:

	Tolerance and Requirements		
Factor	**Foundation**	**registered**	**Certified**
Isolation	10 feet	10 feet	10 feet
Other varieties and Off-Types	1:5000	1:1000	1:500

IV. Seed Standards

Factor	Standards for each class Foundation	Registered	Certified
Pure seed (min.)	95.00%	95.00%	95.00%
Inert matter (max.)	5.00%	5.00%	5.00%
Weed Seed (max.)	0.01%	0.01%	0.01%
Total other crop seed (max.)	0.11%	0.21%	0.52%
Other varieties (max.)	0.10%	0.20%	0.50%
Other kinds (max.)	0.01%	0.01%	0.02%
Noxious weed seed (max.)	None	None	None
Germination (min.)	75.00%	75.00%	75.00%

SMALL GRAINS (BARLEY, OAT, RYE, TRITICAL, WHEAT)

SPECIFIC STANDARDS

I. Application of General Certification Standards

The general standards are basic and together with the following specific standards, constitute the standards for certification of Small Grain Seed.

II. Land Requirements

Small grain offered for certification shall not be planted on land which grew small grains of the same kind the previous year unless the crop was grown from certified seed of the same variety.

A. General:

1. Inspection

At least one field inspection must be made after the grain is fully headed.

2. Unit of Certification

A portion of a field may be accepted for certification if the non-eligible portion does not affect the genetic purity of the certified portion.

B. Specific Requirements:

Factor	Tolerance and Requirements Foundation	Registered	Certified
Isolation*	10 feet	10 feet	10 feet
Inseparable Other Crops	1:20,000	1:10,000	1:5000
Other varieties and Off-Types	1:10,000	1:5000	1:2500
Inseparable Noxious Weeds**	None	None	None
Chemically Controllable Seed-Borne Diseases	None	None	None

* All rye fields producing Certified seed must be isolated by at least 660 feet from fields of any other variety of rye or fields of the same variety that do not meet the varietal purity requirements for certification.

** Any field will be rejected from certification if found to contain wild turnips, radish, mustard, rape, cheat, darnel, wild onion or garlic.

IV. Seed Standards

Factor	Standards for each class Foundation	Registered	Certified
Pure seed (min.)	98.00%	98.00%	98.00%
Inert matter (max.)	2.00%	2.00%	2.00%
Weed seed (max.)	0.03%	0.05%	0.05%
Total other crop seed (max.) *	0.02%	0.06%	0.12%
Other varieties (max) **	0.01%	0.03%	0.06%
Other kinds (max.) ***	0.01%	0.03%	0.06%
Noxious weed seed (max.)	None	None	None
Germination (min.)	85.00%	85.00%	85.00%
Germination - Rye (min.)	75.00%	75.00%	75.00%

* No vetch shall be permitted in Foundation and Registered. Maximum in Certified: 2 vetch seed per pound. Fatuoid oat seed shall not exceed 45 per pound. Oats that vary from the variety description by color type as determined by seed characteristics and confirmed by the fluorescence test, will be permitted up to 50 seed per pound in all classes.

** Other varieties shall not exceed 1 per pound for Foundation; 2 per pound for Registered; 5 per pound for Certified.

*** Other kinds shall not exceed 1 per pound for Foundation; 2 per pound for Registered; 5 per pound for Certified.

Revised 02/06

SOYBEAN

SPECIFIC STANDARDS

I. Application of General Standards

The general standards are basic and together with the following specific standards, constitute the standards for certification of Soybean seed.

II. Land Requirements

Soybeans shall be grown on land on which the previous crop was another kind or planted with a class of Certified seed of the same variety or with a variety having an easily identifiable character difference.

A. General:

1. Inspection

Fields shall be inspected when plants are in full bloom and/or after the beans are mature and at a time when pod, pubescence color and other plant characteristics can be detected.

2. Unit of Certification

The unit of certification shall be a field, but a portion of a field may be approved for certification provided the remainder is harvested separately and the seed eliminated for certification.

B. Specific Requirements:

	Tolerance and Requirements		
Factor	**Foundation**	**Registered**	**Certified**
Isolation	10 feet	10 feet	10 feet
Inseparable Other Crops	1:10,000	1:5000	1:2500
Other Varieties and Off-Types	1:10,000	1:1000	1:500
Corn and Cowpea Plants	None	None	None
Inseparable Noxious Weeds	None	None	None

III. Seed Standards

	Standards for each class		
Factor	**Foundation**	**Registered**	**Certified**
Pure seed (min.)	98.00%	98.00%	98.00%
Inert matter (max.)	2.00%	2.00%	2.00%
Weed seed (max.)	0.02%	0.05%	0.05%
Total other crop seed (max.)	0.05%	0.12%	0.30%
Other varieties (max.)*	0.03%	0.08%	0.24%
Other kinds (max.)	0.02%	0.04%	0.06%
Noxious weed seed (max.)	None	None	None
Moisture (max.)	13.00%	13.00%	13.00%
Germination (min.)	80.00%	80.00%	80.00%

* Off-colored beans due to environmental factors shall not be considered other varieties.

SWEET POTATO ROOTS AND PLANTS

SPECIFIC STANDARDS

I. Application of General Standards

The general standards are basic and together with the following specific standards, constitute the standards for certification of Sweet Potato Roots and Plants.

II. Application For Field Inspection

A. The certification of sweet potatoes includes the seed roots and plants.

B. Sweet Potatoes for certification must also meet the minimum grade A requirements of the State Department of Agriculture for diseases and insects. It is agreed and understood that the grower will apply to the Plant Industry Division, Alabama or Florida State Department of Agriculture for inspection of the potatoes for insects and diseases. Proof of inspection must be sent to the Association before tags will be issued.

III. Land Requirements

A. Land producing sweet potatoes for certification shall be treated by approved methods to control wireworms, nematodes and other soil insects.

B. Sweet potato seed stock eligible for certification shall be produced on land which:

1. Has not produced sweet potatoes during the last 3 years.

2. Did not receive manure or sweet potato residue during the last 3 years.

3. Is not subject to drainage water from fields that are now growing or have grown sweet potatoes during the last 3 years.

IV. Plant Bed Requirements

A. The plant bed must be located on well-drained soil away from drainage from barnyards, poultry yards, or from land which has produced sweet potatoes within the last 3 years.

B. Manure must not be used in the plant bed.

C. Plant beds that have been used previously shall be disinfected by approved methods.

D. Sweet potatoes shall be treated with approved fungicides prior to bedding.

E. At least one inspection shall be made by the Association, when the plants in the bed have made a uniform growth and are nearly large enough to transplant.

V. Field standards

A. General:

1. Inspection

At least one inspection shall be made during the growing season. Foundation fields must be inspected during harvesting and where possible, registered and certified fields inspected at digging time.

2. Unit of Certification

A field or portion of a field may be certified, provided the entire field is of the same certified class and the area to be certified is clearly defined. Precautions acceptable to the Association must be taken to prevent contamination from the portion not certified.

3. Roguing

Off type and diseased plants along with their roots shall be rogued from the field or plant beds.

4. Isolation

(a) Fields shall be located not less than ¼ mile from any other sweet potato planting to prevent the spread of insect-borne diseases carried by feeding insects.

(b) Plant beds producing certified plants or slips for sale shall be separated in a way to insure prevention of varietal mixtures. Distinct barriers must be used.

5. Planting Stock Requirements

(a) Foundation, Registered and Certified sweet potato roots must be produced from either vine cuttings or from cut sprouts. The sprouts must be cut before they are pulled from the bed.

(b) All seed stocks used for Foundation seed production shall be cut and typed for internal color before bedding. External and internal color should be typical of the variety.

B. Specific Requirements:

	Maximum Permitted - Ratio of Plants		
Factor	**Foundation**	**Registered**	**Certified**
Plant Bed			
Blackrot	None	None	None
Scurf	None	None	None
Wilt	None	None	None
Other Varieties	None	None	None
Field			
Wilt	None	None	None
Mosaic	None	None	None
Other varieties	None	None	None

IV. Seed and Storage Standards

A. Seed:

1. At least one storage inspection shall be made.

2. Seed stock must conform to the minimum standards for U. S. No. 1 Grade except that minimum size shall be not less than 3 inches in length and 1 inch in diameter and shall not exceed 10 inches in length and 3 inches in diameter.

3. Specific Seed Standards:

	Maximum Permitted - Ratio of Roots		
Factor	**Foundation**	**Registered**	**Certified**
Storage Rot	None	None	None
Blackrot	None	None	1:1000
Scurf	None	None	1:1000
Internal Cork*	None		
Nematode	None	1:500	1:200
Wireworm	1:100	1:50	1:20
Sweet Potato Weevil	None	None	None
Other varieties	None	None	None

* If serious, will cause rejection.

B. Storage

1. Sweet potatoes for certification must be stored in an approved storage facility that has been cleaned and disinfected with approved materials.

2. Sweet potatoes for certification shall be stored in containers that are either new or free of soil and plant debris and disinfected to control soil-borne pathogens.

VII. Packing and Tagging

Sweet potato seed must be packed in containers that are either new or free of soil and plant debris, disinfected to control soil-borne pathogens, and have the net weight stamped, stenciled or printed on them.

VIII. Plant Standards

Harvested plants shall be:

A. Apparently free of injurious insects and the diseases: Black rot, Scurf and Wilt.

B. True to varietal characteristics.

C. Of good color, fresh, firm, strong.

D. Of satisfactory size for commercial planting (approximately 8" to 12" in length).

E. Bound in such a way as to insure proper identity at all times.

VEGETATIVELY PROPAGATED BERMUDA GRASS

SPECIFIC STANDARDS

I. Application of General Standards

The general standards are basic and together with the following specific standards, constitute the standards for certification of Vegetatively Propagated Bermuda grass.

II. Land Requirements

A. General:

1. Inspection

An inspection shall be made during the growing season at a time when there is sufficient growth to make the identification of other Bermuda strains possible. Harvested stolons may also be inspected.

2. Unit of Certification

The entire acreage standing at the time of inspection must be subjected to inspection as a unit.

B. Specific Requirements:

	Tolerance and Requirements		
Factor	**Foundation**	**Registered**	**Certified**
Isolation	10 feet	10 feet	10 feet
Other Varieties	None	1.00%	2.00%
Noxious Weeds	None	None	None

IV. Harvesting and Handling

Harvesting, handling and packing operations shall maintain the genetic purity and identity of the planting stock for certification.

V. Labeling shipments of Bermuda

All sales of certified stock will be accompanied by a certification tag in the case of bag shipments and a certification certificate in the cast of bulk shipments.

VI. Planting Stock Standards

A. Pure living sprigs (minimum by count) ---- 95.00%

B. Other living plants (maximum by count) ---- 1.00%

C. Noxious weeds (maximum) ---- None

The above percentages shall be determined by count.

VEGETATIVELY PROPAGATED TURFGRASS

Please refer to the Standards and Regulations for Certified Turfgrass Production Handbook or visit our web-site at www.ag.auburn.edu/ssca