#### Land Requirements:

- A. Breeder seed for the production of foundation seed shall be planted on land on which no alfalfa was grown or planted during the four (4) years prior to the one in which the present stand was planted.
- B. Foundation seed for the production of registered seed shall be planted on land on which no alfalfa was grown or planted during the three (3) years prior to the one in which the present stand was planted.
- C. Breeder, foundation, or registered seed for the production of certified seed shall be planted on land on which no alfalfa was grown or planted during the year prior to the one in which the present stand was planted.

This requirement is lengthened to three (3) years for non-GMO alfalfa being planted after GMO alfalfa production. A pre-plant inspection is required.

- D. For foundation, registered and certified the land must be free from volunteer plants as determined by field inspection at time seeding is established.
- E. At least two (2) years must elapse between destruction of varieties of dissimilar adaptation (varieties which differ by four (4) or more points on a dormancy rating scale as reported by the National Alfalfa Variety Review Board) and establishment of a new stand for the production of seed for certification.

Isolation Requirements:

A field producing foundation, registered or certified seed must have the minimum isolation distance from fields of any other variety or fields of the same variety that do not meet the varietal purity requirements for certification as given in the following table:

CLASSES	Fields of less than 5 Acres	Fields of more than 5 Acres
Foundation	900 feet	600 feet
Registered	450 feet	300 feet
Certified	330 feet	165 feet

Different generation of same variety	10 feet	10 feet
GMO Fields from Non-GMO	900 feet	900 feet

## 3. For Certified Class Only.

When the isolation zone (which is calculated by multiplying the length of the common border with other varieties of alfalfa by the average width of the certified field falling within 165 feet isolation distance requirement) is less than 10% for the entire field, no isolation is required.

This calculation does not apply to GMO fields adjacent to conventional fields.

4. Volunteer Plants.

Volunteer plants may be cause for rejection or reclassification of a seed field.

5. Fields producing foundation class seed will be rejected if more than two flowering plants, per acre of production, of the same species are found within the isolation zone.

	Maximum permitted in each class			
Factor	Foundation Registered Certified			
Red Clover	1/1000	1/1000	1/200	
Sweet Clover-Plants	None <sup>1</sup>	10/acre	10/acre	
Other varieties <sup>*</sup>	None	None	1.00%	

Field Standards:

<sup>\*</sup>Other varieties shall be considered to include off-type plants and plants that can be differentiated from the variety that is being inspected.

<sup>1</sup>None tolerance means none found during the normal inspection procedures.

Seed Standards:

	Standards for each class		
Factor Foundatio White Tag		Registered Purple Tag	Certified Blue Tag
Pure Seed (Min.)	99.0%	99.0%	99.0%
Other Crops (Max.)	.1%	.1%	.25%
Sweet Clover (Max.)	None	45/lb	90/lb
Inert Matter (Max.)	1.0%	1.0%	1.0%
Weed Seed (Max.)	.1%	.2%	.25%
Noxious Weeds <sup>*</sup>	None <sup>2</sup>	None	None
Objectionable Weeds (Max.) <sup>1</sup>	None	None	18/lb
Total Germination (Min.)	80.0%	80.0%	85.0%

\*Noxious Weeds, See Prohibited Noxious Weed List. <sup>1</sup>Blue Flowering Lettuce, Buckhorn, Halogeton, Medusa Head Rye, Perennial Ragweed, Povertyweed, Wild Oats.

<sup>2</sup>None tolerance means none found during the normal inspection procedures.

Land Requirements.

- A. A field, to be eligible for the production of foundation, registered and/or certified beans shall not have been planted to beans for one (1) year unless the previous crop was under certification and of the same variety and class.
- B. A field on which Bacterial Blight has been found will not be eligible to grow certified beans until it has been cropped two (2) years to crops other than beans.

	Maximum permitted in each class			
Factor	Foundation	Registered	Certified	
Other Varieties	None <sup>1</sup>	0.05%	0.10%	
Other Crops (inseparable)	None	0.05%	0.10%	
Anthracnose, Bacterial Bean Blights, Wilt and Brown Spot	None	None	None	
Bean Common Mosaic Virus and Bean Common Mosaic Necrosis Virus	None	.5%	1.0%	
Inseparable Noxious Weeds (must be controlled)	None	None	None	

Field Standards:

<sup>1</sup>None tolerance means none found during the normal inspection procedures.

Seed Standards.

	Standards for each class			
	Foundation White Tag	Registered Purple Tag	Certified Blue Tag	
Pure Seed (Min.)	99.0%	99.0%	99.0%	
Other Crops or Varieties (Max.)	None <sup>4</sup>	None	.00125%	
Inert Matter (Max.) <sup>1</sup>	1.0%	1.0%	1.0%	
Splits and Cracks (Max.) <sup>1, 1a</sup>	1.0%	1.0%	1.0%	
Weed Seeds (Max.)	None	None	0.1%	
Noxious Weeds <sup>2</sup>	None	None	None	
Objectionable Weeds <sup>3</sup>	None	None	None	
Germination (Min.)	85.0%	85.0%	85.0%	

<sup>1</sup>The total defects and damage in combination with inert shall not exceed 2%, splits and cracks. Except as noted in footnote 1a, the maximum defects allowed will be 3% in these designated market classes. Inert matter cannot consist of more than 0.05% foreign material (soil or rock).

<sup>1a</sup>A maximum of 2% splits and cracks will be allowed in the following market classes: Navy, Kidney, and Yellow Eye. All other tolerances apply where applicable.

<sup>2</sup>Noxious weeds – See Prohibited Noxious Seed List

<sup>3</sup>Blue Flowering Lettuce, Buckhorn, Halogeton, Medusa Head Rye, Perennial Ragweed, Povertyweed, Wild Oats, and nightshade berry.

<sup>4</sup>None tolerance means none found during the normal inspection procedures.

#### Idaho Birdsfoot Trefoil Certification Standards (rev. 3/17/2015)

Land Requirements:

- A. Breeder seed for the production of foundation seed shall be planted on land on which no Birdsfoot Trefoil was grown or planted during the five (5) years prior to the one in which the present stand was planted.
- B. Foundation seed for the production of registered seed shall be planted on land on which no Birdsfoot Trefoil was grown or planted during the four (4) years prior to the one in which the present stand was planted.
- C. Foundation, registered and/or certified seed for the production of certified seed shall be planted on land on which no Birdsfoot Trefoil was grown or planted during the three (3) years prior to the one in which the present stand was planted.

**Isolation Requirements:** 

A field producing foundation, registered or certified seed must have the minimum isolation distance from fields of any other variety or fields of the same variety that do not meet the varietal purity requirements for certification, as given in the following table:

CLASSES	Fields of less than 5 Acres	Fields of more than 5 Acres
Foundation	1320 feet	1320 feet
Registered	660 feet	330 feet
Certified	330 feet	165 feet
Different generation of the same variety	10 feet	10 feet

Field Standards:

	Maximum permitted in each class		
Factor	Foundation	Registered	Certified
Sweet Clover-Plants	None	None	80/acre
Other varieties <sup>*</sup>	.1%	.25%	1.0%

<sup>\*</sup>Other varieties shall be considered to include off-type plants and plants that can be differentiated from the variety that is being inspected.

Seed Standards:

	Standards for each class		
Factor	Foundation	Registered	Certified
	White Tag	Purple Tag	Blue Tag
Pure Seed (Min.)	99.0%	99.0%	98.0%
Other Crops (Max.)	.1%	.1%	1.0%
Sweet Clover (Max.)	None	90/lb	180/lb
Inert Matter (Max.)	1.0%	1.0%	2.0%
Weed Seed (Max.)	.1%	.2%	.25%
Noxious Weeds <sup>*</sup>	None	None	None
Objectionable Weeds <sup>1</sup> (Max.)	None	None	18/lb
Total Germination (Min.)	80.0%	80.0%	85.0%

\*Noxious weeds - See Prohibited Noxious Seed List.

<sup>1</sup>Blue Flowering Lettuce, Buckhorn, Halogeton, Medusa Head Rye, Perennial Ragweed, Povertyweed, Wild Oats.

#### Idaho Blue Flax Certification Standards (rev. 3/17/2015)

Land Requirements:

- A. Breeder seed for the production of foundation seed shall be planted on land on which no Blue flax was grown or planted during the five (5) years prior to the one in which the present stand is planted.
- B. Foundation seed for the production of registered seed shall be planted on land on which no perennial flax was grown or planted during the four (4) years prior to the one in which the present stand is planted.
- C. Foundation, registered and/or certified seed for the production of certified seed shall be planted on land on which no perennial flax was grown or planted during the three (3) years prior to the one in which the present stand was planted.
- D. For foundation, registered and certified seed the land must be free from volunteer plants as determined by field inspection at time seeding is established.

#### **Isolation Requirements:**

A field producing foundation, registered or certified seed must have the minimum isolation distance from fields of any other variety or fields of the same variety that do not meet the varietal purity requirements for certification, as given in the following table:

CLASSES	Fields of less than 5 Acres	Fields of more than 5 Acres
Foundation	1320 feet	1320 feet
Registered	660 feet	330 feet
Certified	330 feet	165 feet
Different Generation of the Same Variety	10 feet	10 feet

Field Standards:

	Maximum permitted in each class			
Factor	Foundation Registered Certified			
Sweet Clover-Plants	None	None	80/acre	
Other Varieties <sup>*</sup>	0.02%	0.05%	0.1%	

<sup>\*</sup>Other varieties shall be considered to include off-type plants and plants that can be differentiated from the variety that is being inspected.

### IV. Seed Standards.

	Standards for each class		
Factor	Foundation White Tag	Registered Purple Tag	Certified Blue Tag
Pure Seed (Min.)	99%	99%	98%
Other Crops (Max.)	.05%	.1%	.2%
Sweet Clover (Max.)	None	90/lb	180/lb
Inert Matter (Max.)	1.0%	1.0%	2.0%
Weed Seed (Max.)	.1%	.2%	.2%
Noxious Weeds <sup>*</sup>	None	None	None
Objectionable Weeds <sup>1</sup> (Max.)	None	None	18/lb
Total Germination (Min.)	80%	80%	80%

\*Noxious Weeds - See Prohibited Noxious Seed List.

<sup>1</sup>Blue Flowering Lettuce, Buckhorn, Halogeton, Medusa Head Rye, Perennial Ragweed, Povertyweed, Wild Oats.

#### Idaho Chickpea Certification Standards (rev. 3/17/2015)

Land Requirements:

- A. A field, to be eligible for the production of foundation, registered and/or certified chickpeas, shall not have been planted to chickpeas for three (3) years unless the previous crop was under certification and of the same variety and class of certified seed.
- B. A field on which Ascochyta Blight (*Ascochyta Rabiei*) has been found will not be eligible to grow certified chickpeas until it has been cropped five (5) years to crops other than chickpeas.

Isolation Requirements:

Field(s) producing Foundation, Registered, and Certified must have the minimum isolation distances from fields of any other variety or fields of the same variety that do not meet the varietal purity requirements for certification as given in the following table:

Classes	Minimum Distance
Foundation	100 feet
Registered	50 feet
Certified	25 feet
Same Variety Different Class	3 feet

Fields producing foundation, registered and/or certified chickpeas adjacent to chickpea fields found contaminated with Ascochyta Blight during the current growing season will be rejected.

Field Inspection.

Each field intended for certification must be inspected prior to harvest. Foundation and registered class seed must have two (2) inspections. One at bloom stage and one during the late pod stage. Certified class must have at least one (1) inspection during the bloom stage, plus one at pod stage if Ascochyta Blight is observed during bloom inspection. Field Standards:

	Maximu	Maximum permitted in each class						
Factor	Foundation	Registered	Certified					
Other Varieties	None	5 plants/acre	5 plants/acre					
Other Crops (Inseparable)	None	None	None					
<i>Ascochyta Rabiei –</i> Blight <sup>1</sup>	None	None	None					
Noxious Weeds <sup>2</sup>	None	None	None					

None tolerance means none found during normal inspection procedures.

<sup>1</sup>Ten plants per acre will be allowed in certified class of tolerant varieties.

<sup>2</sup>Noxious weeds: See Prohibited Noxious Seed List.

Seed Standards:

	Standards for each class						
Factor	Foundation White Tag	Registered Purple Tag	Certified Blue Tag				
Pure Seed (Min.)	99%	99%	99%				
Other Crops (Max.) <sup>* 1</sup>	None	None	2/lb				
Inert Matter (Max.)*	1%	1%	1%				
Weed Seed (Objectionable) <sup>2</sup>	None	None	2/lb				
Ascochyta Rabiei - Blight <sup>3</sup>	None	None	None				
Noxious Weeds <sup>2</sup>	None	None	None				
Germination (Min.)	85%	85%	85%				

\*The total of inert matter and other crops in combination shall not exceed 2%. None tolerance means none found during normal inspection procedures.

<sup>1</sup> No Austrian pea, rye, or vetch permitted.

<sup>2</sup> Nightshade berries or noxious weeds are not allowed.

<sup>3</sup> All classes of seed shall be treated with a chemical specifically approved by the EPA at the labeled rate for control of Ascochyta Blight.

# IDAHO CROP IMPROVEMENT ASSOCIATION, INC.

# SEED CERTIFICATION FEE & APPLICATION SCHEDULE

# ALL FEES DUE WITH APPLICATIONS & RENEWALS

2018										Ар	olication due (	Jates
CROP	Acreage Fee	Minimum Acreage Fee	Membership Fee	Cancel Fee	Reinstate. Fee	Reinspection Fee	Production Fee (\$/cwt)	Interagency Production Fee	OECD Fee (\$/cwt)	New S	Seedings	Renewals
ALFALFA	\$7.80	\$51.00	included	\$15.00	\$45.00	\$82.00	\$0.00	\$0.56	\$0.32	Fall 4/1	Spring 5/1	May 1st
BEANS	\$5.00	\$51.00	included	\$15.00	n/a	\$82.00	\$0.22	\$0.22	\$0.32	S.West Jur	ne 15 - S.Cen	tral July 1
BEANS - PHYTOSANITARY	\$8.90	\$51.00		\$15.00	n/a	\$82.00	\$0.11	n/a	n/a	S.West Jur	ne 15 - S.Cen	tral July 1
CLOVER	\$7.80	\$51.00	included	\$15.00	\$45.00	\$82.00	\$0.00	\$0.56	\$0.32	Fall 4/1	Spring 5/1	May 1st
CORN/SORGHUM/SUNFLOWER	\$31.00	\$153.00	included	\$15.00	n/a	\$82.00	\$0.00	\$0.15	\$0.32	July 1st		
GRAIN	\$10.55	\$51.00	included	\$15.00	n/a	\$82.00	\$0.00	\$0.14	\$0.32	June 1st		n/a
GRASS - stock fields & new seedings	\$2.05	\$102.00	included	\$15.00	n/a	\$82.00				60 days	post plant	n/a
GRASS - renewals	\$6.90	\$102.00	included	\$15.00	\$45.00	\$82.00	\$0.00	\$0.76	\$0.32	n/a	n/a	May 1st
MISC. CROPS - ANNUAL	\$5.55	\$51.00	included	\$15.00	n/a	\$82.00	\$0.22	\$0.22	\$0.40	May 1st		n/a
MISC. CROPS - PERENNIAL	\$7.80	\$51.00	included	\$15.00	\$45.00	\$82.00	\$0.00	\$0.56	\$0.40	May 1st		April 1st
POTATOES	30.25*	\$51.00	included	\$15.00	n/a	\$82.00	\$0.00	\$0.00		June 10th		n/a
PRE-VARIETY GERMPLASM SEED				\$/Species								
COLLECTED : SOURCE IDENTIFIED SEED	\$61.00	n/a	included	n/a			\$10.00 (\$25 min)	\$10.00 (\$25 min)	n/a	10 days pri	or to collectic	n
FIELD INCREASE OF SOURCE IDENTIFIED; SELECTED; & TESTED CLASS SEED	\$6.90	\$51.00	included	\$15.00	\$45.00	\$82.00	\$0.00	\$0.76	n/a	60 days	post plant	April 1st
Grain: Seedling inspections \$5.10 / acre. Applications due within 15 days of planting. Grain: Late fee = \$ 100.00 per field prior to July 1st. After July 1st the fee = \$100.00 plus 100% of the acreage fees									Official San Purity Testi		\$25.00	
All other crops: Late fees = 10% of the acreage fee with a minimum late fee of \$31.00Grass: Applications not accepted more than 120 days after plantingGrass: second reinspection fee = \$82.00 plus \$1.00 per acre								er acre	Grain Pu Bean P Mill Check	urity	\$25.00 \$18.00	
No seed potato applications postmarked after June 25 will be accepted Reinstatement fees are to be charged for each delinquent year. It is the growers responsibility that all fees are paid.									Grain Cl Bean Ch		\$15.00 \$15.00	

\* Includes \$3.00/Acre IPC Assessment

#### Land Requirements:

- A. Fields producing foundation class seed shall not have produced small grain for two (2) crop years prior, unless of an equal or higher class of the same variety, or unless a seedling inspection is conducted.
- B. Fields producing registered class seed shall not have produced small grain for the previous crop year, and shall not have produced a visually indistinguishable kind of grain for the previous two (2) years, unless of an equal or higher class of the same variety, or unless a seedling inspection is conducted.
- C. Fields producing certified class seed shall not have produced a visually indistinguishable kind of grain for two (2) crop years prior, unless of an equal or higher class of the same variety, or unless a seedling inspection is conducted.

#### **Isolation Requirements:**

All rye fields used for the production of certified seed must be isolated by at least 220 feet from fields of any other variety or varieties of rye or fields of the same variety that do not meet the varietal purity requirements for certification.

A 90 foot isolation is required for grains other than rye between different varieties when producing foundation seed.

		Maximum	Maximum permitted in each class						
Factor		Foundation	Registered	Certified					
Other Distin Varieties <sup>*</sup>	iguishable	1/250,000	1/5,000	1/3,000					
Other Small	Grain	1/250,000	1/10,000	1/3,000					
Smut		1/10,000	1/10,000	1/1,000					
Rye	None permitted in Wheat, Barley, Oat or Triticale								

Field Standards:

None tolerance means none found during the normal inspection procedures.

\*Other varieties shall be considered to include plants that can be differentiated from the variety being inspected. However, other varieties shall not include variations which are characteristic of the variety.

Wild Oats: Scattered wild oats in certified fields must not exceed five (5) plants per acre.

Cereal Rye: Fields found to contain cereal rye will be rejected and will not be eligible for reinspection.

Jointed Goatgrass: Fields found to contain jointed goatgrass, and/or its hybrids, will be rejected, and will not be eligible for reinspection. These fields shall be noted in the grower's file, and shall remain ineligible for any further production of certified seed until such time as an approved reclamation procedure is developed and successfully completed.

	Stand	dards for each o	class
Factor	Foundation White Tag	Registered Purple Tag	Certified Blue Tag
Pure Seed (Min.)	98.0%	98.0%	98.0%
Total Other Crop Seed (max)	None	.03% or	.05% or
excluding Other Small Grain		1/100 gms	1/100 gms
Other Varieties or Classes	1/10 lb	1/lb	2/lb
Other Small Grain	No Rye allowed	in Wheat, Oat, Bar	ley or Triticale
Inert Matter (Max.)	2.0%	2.0%	2.0%
Ergot (Max.)	.05%	.05%	.05%
Weed Seed (Max.)	.01%	.01%	.03%
Wild Oats	None	None	None
Noxious Weeds <sup>1</sup>	None	None	None
Objectionable Weeds <sup>2</sup>	None	None	None
Germination (Min.)	85%	85%	85%

Seed Standards:

<sup>1</sup>Noxious Weeds - See Prohibited Noxious Seed List.

<sup>2</sup>Blue Flowering Lettuce, Buckhorn, Halogeton, Medusa Head Rye, Perennial Ragweed, Povertyweed.

None tolerance means none found during the normal inspection procedures.

When jointed goatgrass, and/or its hybrids, is found in an official seed sample, the field producing that seed lot shall be noted in the grower's file and monitored for jointed goatgrass each subsequent year of production of certified seed.

#### Grass Certification Standards (rev. 3/17/2015)

#### Land Requirements:

- 1. 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 (5) years. Upon the approval of the certifying agency, with the use of fumigants and other ground short-term sterilization chemicals, the five (5) year eligibility may be waived to three (3) years.
- 2. A field to be eligible for the production of registered seed, must not have grown or been seeded to the same species during the previous three (3) years.
- 3. A field to be eligible for the production of certified seed, must not have grown or been seeded to the same species during the previous three (3) years, except for foundation, registered or certified seed of the same variety, of equal or higher class.
- 4. Bermudagrass:

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 (5) years, and must have included a cultivated crop for three (3) years. A field to be eligible for production of registered or certified seed, must not have grown or been seeded to the same species during the previous three (3) years and must have included a cultivated crop for three (3) years unless the crop was the same variety and passed field inspection for certification. Isolation Requirements:

A seed field of a species 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 requirement given in the following table:

	Minimun	n Isolation Dist	ance Required (1	feet)
Factor	Symbol	Foundation	Registered	Certified
All cross-pollinated species	С	990	330	165
Strains at least 80% apomictic <sup>*</sup>	А	165	33	16.5
Highly self-fertile species	S	165	33	16.5
Texas Bluegrass Spp.	С	1420	1420	1420

\*Refers to a type of asexual production of seed as in Kentucky Bluegrass.

For fields of certified class cross pollinated species, when the isolation zone (which is calculated by multiplying the length of the common border with other varieties by the average width of the certified field falling within 165 feet isolation distance requirement) is less than 10% of the entire field, only mechanical isolation is required.

Bermudagrass:

Fields or portions of fields for certification must be isolated from bermudagrass other than the same variety as follows: foundation - 990 feet; registered - 330 feet; certified - 165 feet.

Field Standards:

Factor	Maximum permitted in each class						
	Foundation	Registered	Certified				
Other varieties <sup>*</sup>	None <sup>1</sup>	0.5%	2.0%				
and/or other grass species							

<sup>\*</sup>Other varieties shall be considered to include plants that can be differentiated from the variety that is being inspected.

<sup>1</sup>None tolerance means none found during the normal inspection procedures.

Bermuda grass - Field Inspection.

In foundation fields, no off-types or other varieties are permitted, and only 1% by area is permitted in the certified class. Fields must be controlled to prevent seed formation.

Seed Standards:

		Factor	s									
TR = Type of Reproduction F&R = Foundation & Rgistered F.R&C = Foundation,	PS = Pure Seed (minimum) %IM = Inert Matter (maximum) %WS = Weed Seed (maximum) %OC = Other Crop (maximum) %G = Germination (minimum) %OG = Other Grass (maximum)species/gramspecies/gram											
Registered & Certified		PS		IM		WS <sup>1,11</sup>		OC <sup>2.7</sup>	ies, gruni	G	OG	
Species	T R	F&R	C	F&R	С	F&R	C	F&R	С	F,R&C	F	R
Bluegrass	1											
Kentucky	А	97	97	3	3	.05	.3	.1	.5	80	1/10	1/1
Merion	А	92	92	8	8	.05	.3	.1	.5 <sup>3</sup>	80	1/10	2/1
Canada	А	96	92	4	8	.05	.3	.1	.5	80	1/10	1/1
Upland	А	96	92	4	8	.05	.3	.1	.5	80		
Sherman (Big)	А	90	90	10	10	.05	.3	.1	.5	70	1/10	1/1
Bromegrass												
Meadow	С	95	95	5	5	.05	.5	.1	.5	85	1/50	10/50
Smooth	С	95	95	5	5	.05	.5	.1	.5	85	1/50	10/50
Bermudagrass	С	97	97	3	3	.10	.204	.10	.25	85		
Fescue												
Meadow	С	95	97	5	3	.05	.3	.1	.5	85	1/50	10/50
Tall	С	95	97	5	3	.03	.3	.1	.5	$\frac{\underline{F\&R}}{80}  \frac{\underline{C}}{85}$	2/50	10/50
Hard	С	95	95	5	5	.05	.3	.1	.5	85	1/50	5/50
Idaho	С	95	95	5	5	.05	.3	.1	.5	70	1/50	5/50
Red	С	95	95	5	5	.05	.3	.1	.5	85	1/50	5/50
Sheep <sup>6</sup>	С	95	95	5	5	.03	.3	.1	.5	80	1/50	1/50
Orchardgrass	С	90	90	10	10	.03	.3	.1	.5	80	3/50	10/50
Ricegrass, Indian	S	95	90	5	10	.3	.5	.5	1.0	80	1/50	5/50
Ryegrass, Perennial (Turf Type)	C	96	97	4	3	.1	.5	.1	.55	85	1/50	5/50
Tall Oatgrass	С	90	90	10	10	.3	.5	.5	1.0	70		
Timothy	С	97	97	3	3	.1	.5	.1	.5	80	1/50	5/50
Wheatgrass	1											
Crested	С	95	95	5	5	.1	.5	.5	1.0	80	1/50	5/50
Intermediate	С	95	95	5	5	.1	.5	.5	1.0	80	1/50	5/50
Siberian	С	95	95	5	5	.1	.5	.5	1.0	80	1/50	5/50
Streambank	С	90	90	10	10	.1	.5	.5	1.0	80	1/50	5/50
Tall	С	95	95	5	5	.1	.5	.5	1.0	85	1/50	5/50
Pubescent	С	95	95	5	5	.1	.5	.5	1.0	80	1/50	5/50
Beardless	С	90	90	10	10	.1	.5	.5	1.0	80	1/50	5/50
Western	С	90	90	10	10	.1	.5	.5	1.0	60	1/50	5/50
Bluebunch/ Snake River	С	90	90	10	10	.1	.5	.5	1.0	80	1/50	5/50
Thickspike	С	90	90	10	10	.1	.5	.5	1.0	80	1/50	5/50
Wildrye, Basin	С	90	90	10	10	.3	.5	.5	1.0	80		
Bentgrass	С	98	98	2	2	.3	.48,9	.2	.6 <sup>10</sup>	85		
Redtop	С	92	92	8	8	.5	.5	.5	2.0	80		
Small Burnett	С	95	95	5	5	.5	.5	1.0	1.0	85		

		Factors	Factors									
TR = Type of Reproduction F&R = Foundation & Rgistered F,R&C = Foundation,		PS = Pure Seed (minimum) % WS = Weed Seed (maximum) % G = Germination (minimum) %					IM = Inert Matter (maximum) % OC = Other Crop (maximum) % OG = Other Grass (maximum) species/gram					
Registered &		PS		IM		WS <sup>1,11</sup>		$OC^{2.7}$		G	OG	
Certified									-			
Species	T R	F&R	С	F&R	С	F&R	С	F&R	С	F,R&C	F	R
Slender	С	95	95	5	5	.1	.3	.1	.5	80	1/50	5/50

<sup>1</sup>Grasses eligible to tag shall comply with the kind of limits for primary and secondary noxious weeds as set forth in the Idaho State Seed Law, except for sheep sorrel, and pennycress: none in foundation; 45 per pound for registered; 90 per pound for certified; wild oat, none in foundation; 9 per pound for registered; and 18 per pound for certified.

<sup>2</sup>Not to exceed .1% other grass species for foundation or registered seed or .25% for certified except as indicated by (3). Maximum .01% Giant Bermudagrass allowable in foundation.

<sup>3</sup>A 3% tolerance of other Kentucky Bluegrass varieties will be allowed in Merion. (Note: containing minimum 92% Merion). In a Kentucky bluegrass other than Merion, 2% of varieties other than the variety certified will be allowed. In Canada bluegrass 3% Kentucky bluegrass will be permitted.

<sup>4</sup>Maximum .05% of the following specific grasses: Sprangle top, Lovegrass, Sanddrop seed. Maximum seed permitted of Featherfinger/Feathergrass and Rhodegrass - 36 per pound, either alone or in combination.

<sup>5</sup>Acceptable maximum fluorescence allowed is 3% in blue tag turf-type perennial ryegrass and 2% in blue tag annual ryegrass.

<sup>6</sup>Maximum other grass species in certified class is .25%.

<sup>7</sup>Ammonia test is required to determine presence of other fine fescue species in Hard fescue and Sheep fescue.

<sup>8</sup>Blue tag seed shall not contain over 907 seeds per pound, singly or collectively, of the following weeds: Plantago spp., Big Mouse-ear Chickweed, Yarrow, Spotted Cat's ear, and Dandelion.

<sup>9</sup>A maximum of 0.5% weed seed may be allowed in blue tag bentgrass containing silver hairgrass: PROVIDED, that the total of all other weed seed does not exceed 0.4%.

 $^{10}$ 1.5% other fine bentgrasses and 0.5% redtop may be allowed in blue tag bentgrass containing a minimum of 98% total bentgrass.

<sup>11</sup>A tolerance of 0.5% may be allowed of all other weed seeds. Provided, that the total of weedy Bromus Spp. does not exceed 0.30%.

None tolerance means none found during the normal inspection procedures.

Variety	Pure Seed (min)	Germination (min)	Other Crop (max)*	Weed Seed (max)***
Merion Kentucky Bluegrass	96%	80%	0.1%**	.02%
Tall Fescue-Turf	98.5%	85%	0.1%	.02%
Other Varieties of Kentucky Bluegrass	97%	80%	0.1%**	.02%
Red Fescue	98%	90%	0.1%	.02%
Perennial Ryegrass	98%	90%	0.1%	.02%
Chewings Fescue	98%	90%	0.1%	.02%

Seed Standards for Sod Quality:

\*Must be free of ryegrass, orchardgrass, timothy, bentgrass, big bluegrass, Poa trivialis, all species of *Bromus*, reed canarygrass, tall fescue, clover, meadow foxtail, bermudagrass (unless it is crop being tested), Black Medic, Alkaligrass, all of the genus *Puccinellia*.

\*\*Canada Bluegrass .02% - maximum allowable. Red Fescue and Chewings Fescue must be free of Canada Bluegrass.

\*\*Other Kentucky bluegrass - maximum 2%.

\*\*\*Must be free of dock, chickweed, crabgrass, plantain, short-awn foxtail, annual bluegrass, all species of *Bromus*, velvetgrass, rattail fescue, and all weeds prohibited (See Prohibited Noxious Seed List)

Grass varieties eligible for this special sod quality program follow the regular certification specific standards as listed above.

A sod seed analysis certificate based on a 25 gram purity examination and a 10 gram Poa annua examination will be issued on eligible seed. Also a distinct sod quality tag will be attached to the container along with the regular certification tag on eligible seed meeting the added requirements of this high quality program.

Idaho Lentil Certification Standards (rev. 3/17/2015)

Land Requirements:

A field to be eligible for the production of foundation seed, shall not have been planted to lentils for five (5) years, four (4) years for registered seed, and for certified seed three (3) years unless the previous crop was under certification and of the same variety and class.

**Isolation Requirements:** 

A field producing foundation seed must be at least 300 feet and registered and certified seed at least 20 feet from any other variety or fields of the same variety that do not meet varietal purity requirement for certification.

Field Standards:

Factor	Maximum permitted in each class							
	Foundation Registered Certifi							
Other Varieties <sup>*</sup>	None	.05%	.10%					
Other Crops (inseparable)	None	.05%	.10%					

\*Other varieties shall be considered to include plants that can be differentiated from the variety is being inspected. However, other varieties shall not include variations which are characteristic of the variety.

Seed Standards:

Factor	Standards permitted in each class			
	Foundation	Registered	Certified	
Pure Seed (min)	99%	99%	99%	
Other Crop Seed (max)	.10%	.10%	.10%	
Inert Matter (max)	1%	1%	1%	
Weed Seed (max)	.05%	.05%	.05%	
Noxious Weeds <sup>1</sup>	None	None	None	

Objectionable Weeds <sup>2</sup>	None	None	None
Germination (min)	85%	85%	85%

<sup>1</sup>Noxious Weeds - See Prohibited Noxious Seed List
<sup>2</sup>Objectionable Weeds - Blue Flowering Lettuce, Buckhorn, Halogeton, Medusa Head Rye, Perennial Ragweed, Povertyweed.

#### Idaho Milkvetch Certification Standards (rev. 3/17/2015)

#### Land Requirements

- A. Breeder seed for the production of foundation seed shall be planted on land on which no Milkvetch was grown or planted during the five (5) years prior to the one in which the present stand was planted.
- B. Foundation seed for the production of registered seed shall be planted on land on which no Milkvetch was grown or planted during the four (4) years prior to the one in which the present stand was planted.
- C. Foundation, registered and/or certified seed for the production of certified seed shall be planted on land on which no Milkvetch was grown or planted during the three (3) years prior to the one in which the present stand was planted.
- D. For foundation, registered and certified seed the land must be free from volunteer plants as determined by field inspection at time the seeding is established.

#### **Isolation Requirements:**

A field producing foundation, registered or certified seed must have the minimum isolation distance from fields of any other variety or fields of the same variety that do not meet the varietal purity requirements for certification, as given in the following table:

CLASSES	Fields of less than 5 Acres	Fields of more than 5 Acres
Foundation	1320 feet	1320 feet
Registered	660 feet	330 feet
Certified	330 feet	165 feet
Different generation of same variety	10 feet	10 feet

Field Standards:

	Maximum permitted in each class			
Factor	Foundation	Registered	Certified	
Sweet Clover-Plants	None	5/acre	10/acre	
Other varieties <sup>*</sup>	.1%	.25%	.5%	

<sup>\*</sup>Other varieties shall be considered to include off-type plants and plants that can be differentiated from the variety that is being inspected.

Seed Standards:

	Standards for each class			
Factor	Foundation White Tag	Registered Purple Tag	Certified Blue Tag	
Pure Seed (Min.)	99.0%	99.0%	99.0%	
Other Crops <sup>2</sup> (Max.)	.05%	.1%	.5%	
Inert Matter <sup>3</sup> (Max.)	1.0%	1.0%	1.0%	
Weed Seed (Max.)	.1%	.2%	.2%	
Noxious Weeds <sup>*</sup>	None	None	None	
Objectionable Weeds <sup>1</sup> (Max.)	None	None	18/lb	
Total Germination (Min.)	80.0%	80.0%	85.0%	

\*Noxious weeds - See Prohibited Noxious Seed List.

<sup>3</sup>Inert matter not to contain more than 0.1% root, crown or stem rot, or sclerotia.

<sup>&</sup>lt;sup>1</sup>Blue Flowering Lettuce, Buckhorn, Halogeton, Medusa Head Rye, Perennial Ragweed, Povertyweed, Wild Oats, Curly Dock.

<sup>&</sup>lt;sup>2</sup>Alfalfa and Sweet Clovers not to exceed 9/lb in foundation, 18/lb in registered and 45/lb in certified.

Land Requirements:

A field, to be eligible for the production of foundation, registered and/or certified peas shall not have been planted to peas for five (5) years for foundation and two (2) years for registered and certified classes unless the previous crop was under certification and of the same variety and class.

Isolation Requirements:

The unit of certification shall be a field, or a portion of a field separated from the remainder by a definite boundary not in peas at least five (5) feet wide.

Field Standards:

Factor	Maximum permitted in each o			
	Foundation	Registered	Certified	
Other Crops (inseparable)	None	0.05%	0.10%	
Other Varieties*	None	0.05%	0.10%	

<sup>\*</sup>Other varieties shall be considered to include off-type plants and plants that can be differentiated from the variety that is being inspected.

Seed Standards:

Factor	Stan	Standards for each class			
	Foundation White Tag	Registered Purple Tag	Certified Blue Tag		
Pure Seed (Min.)	98.0%	98.0%	98.0%		
Other Crop Seeds (Max.)	0.05%	0.25%	0.20%		
Inert Matter (Max.)	2.0%	2.0%	2.0%		
Weed Seed (Max.)	0.10%	.10%	0.25%		
Noxious Weeds <sup>1</sup>	None	None	None		
Objectionable Weeds <sup>2</sup>	None	None	None		

Germination (Min.)	85.0%	85.0%	85.0%
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<sup>1</sup>Noxious Weeds - See Prohibited Noxious Seed List <sup>2</sup>Blue Flowering Lettuce, Buckhorn, Halogeton, Medusa Head Rye, Perennial Ragweed, Povertyweed.

### IDAHO PENSTEMON CERTIFICATION STANDARDS (rev. 3/17/2015)

Land Requirements:

- A. Breeder (or Generation 0) seed for the production of Foundation (or Generation 1) seed shall be planted on land on which no Penstemon of the same species was grown or planted during the five (5) years prior to the one in which the present stand is planted.
- B. Foundation (Generation 1) seed for the production of Registered (or Generation 2) seed shall be planted on land on which no Penstemon of the same species was grown or planted during the four (4) years prior to the one in which the present stand is planted.
- C. Foundation (G1) and/or Registered (G2) for the production of Certified (G3) shall be planted on land on which no Penstemon of the same species was grown or planted during the three (3) years prior to the one in which the present stand was planted.
- D. For Foundation (G1), Registered (G2) and Certified (G3) seed the land must be free from volunteer plants as determined by field inspection at time seeding is established.

**Isolation Requirements:** 

A field producing Foundation (G1), Registered (G2), or Certified (G3) seed must have the minimum isolation distance from fields of any other variety or fields of the same variety that do not meet the varietal purity requirements for certification, as given in the following table:

CLASSES	ISOLATION DISTANCES
Foundation or (Generation 1)	900 feet
Registered or (Generation 2)	450 feet
Certified or (Generation 3)	165 feet
Different Generation of the Same Variety	Only a distinct separation (fence line, roadway, etc.) is necessary

Field Standards:

Maximum permitted in each class in the field				
FACTOR	Foundation G1	Registered G2	Certified G3	
Sweet Clover - Plants	None	40/acre	80/acre	
Other Varieties*	0.02%	0.05%	0.1%	

\*Other varieties shall be considered to include off-type plants and plants that can be differentiated from the variety that is being inspected.

#### Seed Standards:

FACTOR	Foundation (Generation 1)	Registered (Generation 2)	Certified (Generation 3)
Pure Seed (Min.)	90%	90%	90%
Other Crops (Max.)	0.20%	0.5%	1.0%
Sweet Clover (Max.)	None	90/lb	180/lb
Inert Matter (Max.)	10.0%	10.0%	10.0%
Weed Seed (Max.)	0.1%	0.3%	0.5%
Noxious Weeds*	None	None	None
ObjectionableWeeds <sup>1</sup> (Max.)	None	9 per lb.	18 per lb.
Total Viability by TZ (Min.)	80%	80%	80%

\*Noxious Weeds - See Prohibited Noxious Seed List.

<sup>1</sup>Blue flowering lettuce, Buckhorn, Halogeton, Medusahead rye, Perennial ragweed, Poverty weed, Wild Oats

## Idaho Potato Certification Standards (rev. 7/13/2016-1/16/18)

Land Requirements:

- A. A field will not be eligible to produce certified seed potatoes if Root-Knot Nematode has been proven to exist in the field or in potatoes grown in that field.
- B. A field will not be eligible to produce certified seed potatoes if noncertified potatoes or potatoes that have been confirmed to be Bacterial Ring Rot infected by a laboratory test were grown in this field the previous two growing seasons.
- C. A field must have been farmed with a crop other than potatoes immediately following the growing season in which potatoes were disqualified for Bacterial Ring Rot.

### Isolation Requirements:

- A. Potatoes entered for certification must be planted at least 20 feet from potatoes not entered for certification.
- B. Seed lots must be separated from each other by at least one row left unplanted or planted to some other crop.

Field Requirements:

- A. Two inspections shall be made for each field entered.
- B. Field Inspection tolerances for 1st and 2nd Inspections

Table 1 - Percentages allowed for 1st inspection<sup>1</sup>

Factor <sup>2</sup>	Generation (Field Year)					
	<mark>Nuclear</mark> FY1	<mark>Gen 1</mark> FY2	<mark>Gen 2</mark> FY3	<mark>Gen 3</mark> FY4	<mark>Gen 4</mark> FY5	<mark>Gen 5/6</mark> FY6/7
Varietal mixture	0.00	0.00	0.02	0.10	0.25	0.50
Well defined Mosaic	0.00	0.00	0.5	1.00	1.50	2.00
Potato Leafroll	0.00	0.00	0.03	0.05	0.10	0.20
Blackleg <sup>3</sup>	0.00	0.10	0.50	1.00	2.00	4
PVX	0.00	0.50	2.00			
Total Virus <sup>5</sup>						2.00

Incorporated by Refrerence Standards							
Table 2 - Percentages allowed for 2nd inspection <sup>1</sup>							
Factor <sup>2</sup>	Generation (Field Year)						
	<mark>Nuclear</mark> FY1	<mark>Gen 1</mark> FY2	Gen 2 FY3	<mark>Gen 3</mark> FY4	<mark>Gen 4</mark> FY5	<mark>Gen 5/6</mark> FY6/7	
Varietal mixture	0.00	0.00	0.01	0.05	0.10	0.20	
Well defined Mosaic	0.00	0.00	0.25	0.50	0.75	1.00	
Potato Leafroll	0.00	0.00	0.02	0.03	0.08	0.20	
Blackleg <sup>3</sup>	0.00	0.10	0.50	1.00	2.00	4	
Total Virus <sup>5</sup>						1.00	

<sup>1</sup>Field inspections of  $\frac{\text{Nuclear}}{\text{FY1}}$  and  $\frac{\text{Generation 1}}{\text{FY2}}$  seed lots are advisory and all factors are required to be rogued when found in order to maintain the tolerance of 0.00%.

<sup>2</sup>Some diseases may be present in a seed potato lot and not exhibit symptom expression in plants or tubers at the time of a regular inspection.

<sup>3</sup>Determination of blackleg disease is based on a visual plant symptom of an inky black stem originating from the seed tuber. Visible blackleg has no tolerance in Generations 5 and 6 FY6 and FY7 and therefore is not a disqualification factor.

<sup>4</sup>Visible blackleg will not be a disqualification factor in G5 or G6 FY6 or FY7.

<sup>5</sup>Total is the combined percentage of potato leafroll, calico, well defined mosaic and all other viral, viroid and phytoplasmas (including Candidatus Liberibacter). This does not include Potato Virus X (PVX).

Seed Lot Disqualifying Conditions:

- 1. Seed lots or portions thereof may be disqualified for certification because of any condition that interferes with the inspection of the potato plants.
- 2. Bacterial ring rot and root-knot nematode are zero tolerance factors. Any seed lot, regardless of generation, shall be rejected from certification at any time when any of these factors is confirmed by laboratory testing.
- 3. Evidence of failure to remove daughter tubers from rogued hills.

**Recertification Requirements:** 

- A. All contact lots on a farming operation shall be ineligible for recertification if any lot of seed on that farming operation is rejected for certification because of bacterial ring rot.
- B. Out-of-state potato stocks to be entered for certification must meet the same requirements as Idaho grown seed stocks.

#### 2 Page 2 of 7

- C. Seed lots with more than 0.1% Potato Leafroll Virus in either the 1st or 2nd inspection shall not be eligible for recertification.
- D. Nuclear, G1 or G2 FY1, FY2, or FY3 seed lots disqualified for certification in the post harvest test because of seed-borne chemical injury may only be recertified by the original applicant(s) during the next growing season.

Post Harvest Testing Requirements:

- A. Each seed lot must be post harvest tested. Lots, or portions thereof, which are shipped prior to post harvest testing, will be certified based on the two (2) summer field inspections and a shipping point inspection.
- B. Only seed lots that have passed the equivalent of a 2nd field inspection will be eligible for post harvest testing.
- C. Seed lots are <u>disqualified for certification</u> if seed-born chemical injury in excess of 5% is found during post harvest testing.
- D. Seed lots are not <u>eligible for recertification</u> if any of the following factors are found during post harvest testing at a percentage greater than:

Potato Leafroll Virus	0.8%
Well defined Mosaic	2.0%

Bacterial Ring Rot Testing Requirements:

A random sample of stems or tubers obtained from all seed lots entered for certification, GI FY2 or higher, shall be laboratory tested for bacterial ring rot.

Pre-nuclear Production Requirements

- A. Source: Meristem culture of tubers from breeding projects or tubers from lots of Nuclear, G1 and G2 FY1, FY2, and FY3.
- B. Greenhouse Pre-nuclear crops: A minimum of two inspections shall be performed on each Pre-nuclear seed lot entered.
- C. Each of the following organisms shall be tested for in Pre-nuclear seed production: Base Cultures: Bacterial Ring Rot (Entry Level) Pectobacterium (Erwinia) spp. Potato Viruses X, Y, M, A, S Potato Leafroll Virus Potato Spindle Tuber Viroid
  Greenhouses: Bacterial Ring Rot
  - Pectobacterium (<u>Erwinia)</u> spp. Potato Virus X, Y, A Potato Leafroll Virus

Line Selections:	Bacterial Ring Rot Pectobacterium ( <u>Erwinia)</u> spp.
	Potato Virus X, Y, A
	Potato Leafroll Virus
Mother Plants:	Bacterial Ring Rot
(Stem Cuttings)	Potato Virus X, Y, A
	Potato Leafroll Virus

Entry level cultures, line selection hill units or mother plants used in stem cuttings that are found to be infected with any of the indicated organisms shall be ineligible for use in Pre-nuclear seed production. Units or lots in greenhouse production found to be infected with any of the indicated organisms shall be downgraded to the next generation for which the seed lot does not exceed the generation tolerance of the organism that causes the certification factor (e.g. *Pectobacterium* (*Erwinia*) spp. is a causal agent for blackleg).

- D. Clonal Line Selections:
  - 1. One tuber from each plant selected shall be submitted to ICIA for laboratory testing.
  - 2. Nuclear <u>FY1</u> plots planted from clonal line selections shall be planted in hill units.
  - 3. All seed in a clonal line selection plot automatically advances to **G1** <u>FY2</u> the following season except for those hills selected for clonal selections.

Storage Inspection Requirements:

- A. Storage inspection will be conducted on all storages containing seed potatoes eligible for certification.
- B. Storages where sprout nip or similar materials were used the previous season are not eligible to store seed potatoes eligible for certification.
- C. Seed potatoes must not be stored, graded or handled in storage warehouses or subdivisions thereof in which potatoes that have not been field inspected, or are laboratory confirmed to have Bacterial Ring Rot, Root-Knot Nematode or Corky Ring Spot are stored or handled.
- D. For a seed lot to remain eligible for certification, seed lot identity must be maintained in storage.

Shipping Point Inspection Grade Requirements:

A. Idaho Certified Blue Tag Seed Potatoes

The blue tag shall be equivalent to U.S. No. 1 seed potato grade with the following exceptions. There is a 1% tolerance for late blight.

- 1. Scab shall not cover more than one-fifth of the surface area.
- 2. Adhering dirt a maximum of 50% of the tuber surface may be covered with caked dirt.
- 3. Loose dirt and/or foreign material included in total external tolerance.
- 4. Clipping or trimming not allowed.
- 5. Freshly broken off second growth shall not be damaged.
- 6. Wireworm and/or grub damaged by waste.
- 7. Tolerances: For total defects 10%. Three percent (3%) for potatoes which are affected by freezing injury. One percent (1%) for potatoes which are affected by soft rot, wet breakdown or are frozen. The limitations for external and internal defects shall apply as written in the U.S. No. 1 seed potato grade.
- 6. An additional 10% may be damaged, but not seriously, by shape.
- B. Idaho Certified Green Tag Seed Potatoes

The green tag grade shall be equivalent to the U.S. No. 2 grade with the following exceptions. There is a 1% tolerance for late blight.

- 1. Maximum and minimum size shall be specified by the grower.
- 2. Wireworm and/or grub serious damage by waste. Permit an additional six percent (6%) serious damage by waste.
- 3. Scab shall not cover more than one-fifth (1/5) of the surface area.
- 4. Hollowheart no requirements.
- 5. Adhering dirt no requirements.
- 6. Loose dirt and/or foreign material included in total external tolerance.
- 7. Varietal purity not more than 0.2% of other tuber identifiable varieties.
- 8. Clipping shall not be clipped or trimmed.
- 9. Second growth shall not be seriously damaged.
- 10. Sunburn and light greening no requirements.
- 11. Appearance discoloring of tubers caused by immaturity or the

5

characteristic checking of tubers that occurs under normal conditions shall not disqualify them.

- 12. Growth cracks not to exceed a maximum of 10% serious damage.
- 13. Mechanical injury shall not be damaged by waste.
- 14. Air cracks damage by waste.
- 15. Serious damage by dry or moist type tuber rot 2%.
- 16. Sprouts no requirements.
- 17. Flattened depressed and sunken discolored areas showing no underlying flesh discoloration no requirements.
- C. Idaho Certified Yellow Tag Seed Potatoes

The yellow tag grade shall be equivalent to the U.S. No. 2 grade with the following exceptions. There is a 1% tolerance for late blight.

- 1. Maximum and minimum size shall be specified by the grower.
- 2. Wireworm and/or grub no requirements.
- 3. Scab no requirements.
- 4. Hollowheart no requirements.
- 5. Adhering dirt no requirements.
- 6. Loose dirt and/or foreign material included in total external tolerance.
- 7. Varietal purity not more than 0.2% of other tuber identifiable varieties.
- 8. Clipping shall not be clipped.
- 9. Second growth shall not be seriously damaged.
- 10. Sunburn and light greening no requirements.
- 11. Appearance no requirements except second growth.
- 12. Growth cracks no requirements.
- 13. Mechanical injury shall not be seriously damaged by waste.

14. Six percent (6%) serious damage by internal discoloration. Percentages higher than six percent (6%) allowed with Idaho Crop Improvement Association, Inc. approval if laboratory tests show the internal discoloration is not of pathogen origin.

- 15. Serious damage by dry or moist type tuber rot 2%.
- 16. External discoloration no requirements.
- 17. Flattened depressed and sunken discolored areas showing no underlying flesh discoloration no requirements.
- 18. Rhizoctonia no requirements
- 19. Sprouts no requirements.

#### IDAHO PRE-VARIETY GERMPLASM CERTIFICATION STANDARDS (rev. 3/17/2015)

Eligibility Requirements for Pre-Variety Germplasm (PVG).

- 1. Eligible species include indigenous or non-indigenous trees, shrubs (including vines), or herbaceous plants (forbs, legumes and grasses).
- 2. These standards address seed, seedlings, or other propagating materials of species, selections, clones, intraspecific hybrids, etc. (collectively referred to as germplasm types) which have not been released as a variety. Germplasm types are recognized as follows:
  - a. Source Identified Class Source Identified Class propagating materials are propagating materials where original collection site is known, but no selection or testing of the parent population has been made, area of adaptation beyond original collection area is not known, produced so as to ensure genetic purity and identity from either:
    - 1. Rigidly defined natural stands or seed production areas, or
    - 2. Seed fields or orchards.
  - b. Selected Class Selected Class propagating materials shall be the progeny of phenotypically selected plants of untested parentage that have promise but not proof of genetic superiority or distinctive traits, area of adaptation is partially known, but not fully understood, produced so as to ensure genetic purity and identity from either:
    - 1. Rigidly defined natural stands or seed production areas, or
    - 2. Seed fields or orchards. This definition is equivalent to the OECD "Untested Seed Orchard" category and may be labeled as such by special tag if required.
  - c. Tested Class Tested Class propagating materials shall be the progeny of plants whose parentage has been tested at multiple sites for multiple generations and has proven genetic superiority or possesses distinctive traits for which the heritability is stable, as defined by the certifying agency, but for which a variety has not been named or released. Area of adaptation is fairly well determined, but may not be completely understood. This seed must be produced so as to assure genetic purity and identity from either:
    - 1. Rigidly controlled and isolated natural stands or individual plants, or
    - 2. Seed fields or orchards

- 3. Designation of classes will be by use of the generation system to signify initial collections or plantings and subsequent collections or plantings. Example: First collection of Source Identified seed is G0. First field production of any class, Source Identified, Selected or Tested, would be G1. Terms such as Breeder, Foundation, Registered and Certified do not apply to the PVG program or standards.
- 4. Limitations of Generations.
  - a. Limitation of generations for all PVG types when grown in seed fields or orchards may be specified for each species by the Certifying agency or the original PVG Release Notice.
  - b. No limitation of generations is defined for all germplasm types collected from natural stands; such seed or other propagating materials is designated Generation 0 (G0).
  - c. Both sexual (seed) and asexual (cuttings, rhizomes, grafting, etc.) means of reproduction and establishment are addressed by the limitation of generations, with one asexual generation being equivalent to one sexual generation.
- 5. Unit of Certification.
  - a. An individual plant, clone, or stand of plants (or field or orchard) may be certified in producing Source Identified Class, Selected Class or Tested Class seed. Seed production zones and/or breeding zones may be defined as a unit of certification for Selected Class and Source Identified Class seed.
- 6. Production of Seed
  - a. For Source Identified Class seed collected from natural stands, verification of the collection site is required. Compliance with regard to correct identification of species and location of natural stand must be verified by whatever means is deemed efficient and enforceable by the Idaho Crop Improvement Association, Inc.
  - b. All germplasm types grown in seed fields or orchards shall follow established certification requirements and standards for similar crops if applicable, or those developed by a certification agency for a specific species.
  - c. For Tested Class seed collected from natural stands, at least one field inspection shall be made prior to pollination. At this time, compliance with regard to rouging and isolation as covered by the applicable standards

will be checked. For Tested Class and Selected Class seed, an inspection will be made just prior to seed maturity or during harvest.

- d. Producers of seedling or otherwise propagated nursery or container stock shall be supervised sufficiently so that the certification agency knows that the stock was produced from the germplasm type claimed.
- 7. Labeling
  - a. The following tag or label colors will apply to PVG:

Source Identified Class – Yellow Selected Class – Green Tested Class – Blue

- b. The respective seed germplasm type (Tested, Selected, or Source Identified) must be printed on the top line across the tag or label.
- c. The generation of the seed may be indicated in the center of the tag along with such information as species, selection number, lot number, location, elevation, site index, seed zone and or breeding zone, etc.
- 8. Sampling and Testing For seed of species not covered by the rules for testing seeds of the Association of Official Seed Analysts, the analyses and testing shall be in accordance the rules of the International Seed Testing Association or appropriate state or federal laboratories as determined by the certifying agency.
- 9. Land Requirements
  - a. Location where Source Identified Class or Selected Class seed was collected from natural stands shall be defined by means of administrative, geographic, latitudinal or other appropriate boundaries or descriptions judged to be significant by the certifying agency. State, county and elevation (nearest 500 feet) is the minimum required to be shown on the tag.
  - b. For natural stands of the Tested Class germplasm type, the exact geographic source of the parent plants and stand history must be known. Location (designated by section or comparable land survey unit) and elevation (nearest 500 feet) of the site of seed production must be shown on the tag.
  - c. For all germplasm types where seed or other propagating materials are produced in artificially established fields or orchards, the specific geographic origin of the parent material must be known and be listed on the tag along with the location of the artificially established field or

orchard.

d. G1 through G5 shall be planted on land which no plants of the same genus was grown or planted for the specified number of years according to the chart which is a part of these PVG standards.

## III. Field Standards

## A. Isolation

- 1. For rigidly controlled natural stands of Source Identified Class, Selected Class or Tested Class germplasm types, an adequate isolation zone shall be maintained free of off-type plants and other cross pollinating species. The isolation distance shall be set for each species by the certifying agency.
- 2. There shall be no isolation requirements for Source Identified Class or Selected Class seed collected from natural seed zones and/or breeding zones.
- 3. Isolation for all germplasm types when grown in seed fields or orchards shall follow isolation requirements for similar crop varieties if applicable, or those developed by a certification agency for a specific species.
- B. Specific Field Requirements.
  - 1. For all germplasm types grown in a seed field or orchard, off-type plants (and plants of inseparable other species or hybridizing species) are to be defined and appropriate tolerance set by the certifying agency.
  - 2. Design and methods for establishing seed fields and orchards and the selecting and testing of plant material shall be in accordance with the requirements of the certifying agency for each species or group of species.

## IV. Seed Standards. \*\*

Seed lots are to be tested according to AOSA rules for purity and viability (germination or TZ). No noxious weed seeds are allowed based upon an All States or Western Noxious Weed Seeds exam.

Not more than 0.25% Downy Brome (cheatgrass) is allowed in any Generation of PVG seed.

Idaho Crop Improvement Association or AOSCA standards apply for species with variety releases and established standards. Where PVG crops are involved the use of AOSCA

standards for that species will apply. Species for which no standard exist the seed standard will simply be no noxious weeds allowed and not more than 0.25% Downy Brome (cheatgrass).

COMMON NAME	SCIENTIFIC NAME	
Austrian Fieldcress	Rorippa austriaca	
Austrian Peaweed	Swainsonia salsula	
*Bladder campion	Silene cucubalus	
Black Henbane	Hyoscyamus niger L.	
Buffalobur	Solanum rostratum, Dunal	
Camelthorn	Alhagi pseudalhagi	
Canada Thistle	Cirsium arvense	
Common Crupina	Crupina vulgaris Cass.	
Dalmation Toadflax	Linaria dalmatica	
Diffuse Knapweed	Centaurea diffusa Lam.	
*Dodder	Cuscuta spp.	
*Dogbane	Apocynum cannabinum	
Dyers Woad	Isatis tinctoria L.	
Field Bindweed	Convolvulus arvensis	
Hoary Cress	Cardaria draba	
*Horsenettle	Solanum corolinenser	
Johnsongrass	Sorghum halepense	
Jointed Goatgrass	Aegilops cylindrica, Host	
Leafy Spurge	Euphorbia esula	
Matgrass	Nardus stricta	
Meadow Hawkweed	Hieracium pratense	
Meadow Knapweed	Centaurea pratensis	
Milium	Milium vernale	
Musk Thistle	Carduus nutans L.	
Orange Hawkweed	Hieracium aurantiacum	
*Pennycress	Thlaspi arvense	
Perennial Pepperweed	Lepidium latifolium L.	
Perennial Sowthistle	Sonchus arvensis	
Poison Hemlock	Conium maculatum, L.	
Puncturevine	Tribulus terrestris L.	
Purple Loosestrife	Lythrum salicaria L.	

# Prohibited Noxious Seed in Idaho Certified Seed (unless otherwise specified) (rev. 3/17/2015)

COMMON NAME	SCIENTIFIC NAME
Quackgrass	Elytrigia repens
Russian Knapweed	Centaurea picris
Scotch Broom	Cvtisus scoparius
Scotch Thistle	Onopordum acanthium L.
Silverleaf Nightshade	Solanum elaeagnifolium
Skeletonleaf Bursage	Ambrosia tomentosa Nutt.
Smooth Groundcherry	Physalis subglabrata ackenz. & Bush
Spotted Knapweed	Centaurea maculosa Lam.
St. Johnswort	Hypericum perforatum
Swainsonpea	Sphaerophysa salsula (Pall.) DC; wainsona salsula (Pallas) Taubert
Syrian Beancaper	Zygophyllum fabago
Tansy Ragwort	Senecio jacobeae, L .
Toothed Spurge	Euphorbia dentata
Whitetop (Hoary Cress)	Cardaria draba and pubescens
*Wild carrot	Daucus carota
Yellow-flowered (Rush) Skeletonweed	Chondrilla juncea
Yellow Starthistle	Centaurea solstitalis L.
Yellow Toadflax	Linarea vulgaris, Hill

\* Designated by AOSCA Seed Standards for specific crop kinds.

### Land Requirements:

Class Planted	Class Produced	Years that field must be free from <i>Brassica</i> crop
Breeder seed	Foundation seed	5
Breeder or Foundation	Certified seed	3

## **Isolation Requirements:**

A field producing foundation seed must have the minimum isolation distance from fields of any other variety or species, or fields of the same variety that do not meet the varietal purity requirements for certification, as given in the following table:

	B. napus			
B. napus	1,320 feet	B. rapa	]	
B. rapa	660 feet	1,320 feet	B. juncea	
B. juncea	20 feet	20 feet	1,320 feet	S. alba
S. alba	20 feet	20 feet	20 feet	1,320 feet

A field producing certified seed must have the minimum isolation distance from fields of any other variety or species, or fields of the same variety that do not meet the varietal requirements for certification, as given in the following table:

	B. napus		_	
B. napus	660 feet	B. rapa		
B. rapa	330 feet	660 feet	B. juncea	
B. juncea	10 feet	10 feet	660 feet	S. alba
S. alba	10 feet	10 feet	10 feet	660 feet

Field Standards:

Species	Foundation S	Foundation Seed		eed	
species	Other Brassica's 1	Other * Varieties 2	Other Brassica's	Other Varieties	
B. napus	2/acre	None 2	4/acre	1%	
B. rapa	2/acre	None	4/acre	1%	
B. juncea	2/acre	None	4/acre	1%	
S. alba	2/acre	None	4/acre	2%	

\* Other varieties shall be considered to include off-type plants and plants that can be differentiated from the variety being inspected.

1 Other Brassica's *Brassica* species other than crop being inspected.

2 None means none found during the normal inspection procedures.

## Seed Standards:

Factor	Standards for each class	
	Foundation	Certified
Pure Seed (Min.)	99%	99%
Other Crops (Max.)	1/50 grams	2/50 grams
Inert Matter (Max.)	1%	1%
Weed Seed (Max.)	10/50 grams	20/50 grams
Prohibited Noxious Weeds 1	None	None
Objectionable Weeds (Max.) 2	1/50 grams	2/50 grams
Seed Analysis 3	See footnote 3	See footnote 3
Sclerotinia bodies	1/50 grams	1/50 grams
Leptosphaeria maculans /Phoma lingum (Blackleg)	0.01%	0.01%

Germination (Min.)	85%	85%	

1 None means none found during normal inspection procedures.

**2** Objectionable weed seeds are defined as: Restricted noxious plus *Brassica* species other than crop being inspected, and *Galium aparine* (Bedstraw).

**3** Erucic acid and glucosinolate content must be within tolerances as described by the plant breeder for each variety.

**4** All seed lots for which certification is applied shall be assayed for virulent Phoma lingam/Leptosphaeria maculans (Blackleg) and shown to be 99.99% free of this seed borne fungi.

#### Idaho Red Clover Certification Standards (rev. 3/17/2015)

Land Requirements:

- A. Breeder seed for the production of foundation seed shall be planted only on land on which no red clover has been seeded or grown for at least the preceding six (6) years during three (3) of which the land must be cultivated.
- B. Foundation seed for the production of registered seed shall be planted only on land on which no red clover has been seeded or grown for at least the preceding four (4) years during two (2) of which the land must be cultivated. This time interval may be omitted if the last seed crop was of the same variety and met foundation requirements.
- C. Foundation or registered seed for the production of certified seed shall be planted only on land on which no red clover has been seeded or grown for at least the preceding three (3) years. This time interval may be shortened one (1) year if one (1) cultivated crop or clean fallow has intervened.

Isolation Requirements:

A field producing foundation, registered or certified seed must have the minimum isolation distance from fields of any other variety or fields of the same variety that do not meet the varietal purity requirements for certification, as given in the following table:

CLASSES	Fields of less than 5 Acres	Fields of more than 5 Acres
Foundation	900 feet	600 feet
Registered	450 feet	300 feet
Certified	165 feet	165 feet

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

#### Length of Stand.

A stand of red clover will not be eligible to produce any class of certified seed after two seed crops. These seed crops may be produced in either the same or consecutive years.

Field Standards:

	Maximum permitted in each class		
Factor	Foundation Registered Certified		Certified
Alfalfa	1/1000	1/1000	1/200
Sweet Clover-Plants	None	10/acre	10/acre
Other varieties <sup>*</sup>	None <sup>1</sup>	None	0.5%

\*Other varieties shall be considered to include plants that can be differentiated from the variety that is being inspected.

<sup>1</sup>None tolerance means none found during the normal inspection procedures.

Seed Standards.

	Standards for each class		
Factor	Foundation White Tag	Registered Purple Tag	Certified Blue Tag
Pure Seed (Min.)	99.0%	99.0%	99.0%
Other Crops (Max.)	.1%	.2%	.25%
Sweet Clover (Max.)	None	45/lb	90/lb
Inert Matter (Max.)	1.0%	1.0%	1.0%
Weed Seed (Max.) <sup>1</sup>	.15%	.15%	.25%
Noxious Weeds <sup>*</sup>	None <sup>4</sup>	None	None
Objectionable Weeds (Max.) <sup>2</sup>	None	None	18/lb
Other Objectionable Weeds <sup>3</sup>	9/lb	45/lb	90/lb
Total Germination (Min.)	85.0%	85.0%	85.0%

\*Noxious Weeds - See Prohibited Noxious Seed List.

<sup>&</sup>lt;sup>1</sup>Black Medic shall be considered a crop seed. No Black Medic is permitted in the foundation or registered class.

<sup>&</sup>lt;sup>2</sup>Blue Flowering Lettuce, Buckhorn, Halogeton, Medusa Head Rye, Perennial Ragweed, Povertyweed, Wild Oats.

<sup>&</sup>lt;sup>3</sup>Bracted Plantain, Giant Foxtail, and Docks (including Sorrel).

<sup>&</sup>lt;sup>4</sup>None tolerance means none found during the normal inspection procedures.

Land Requirements:

- A. A crop of the same kind must not have been grown or planted on the land for five (5), three (3), or two (2) years prior to stand establishment for producing the foundation, registered and certified seed classes respectively.
- B. The land must be free from volunteer plants as determined by field inspection at time seeding is established.

**Isolation Requirements:** 

A field producing foundation, registered or certified seed must have the minimum isolation distance from fields of any other variety or fields of the same variety that do not meet the varietal purity requirements, as given in the following table:

CLASSES	Fields of less than 5 Acres	Fields of more than 5 Acres
Foundation	1320 feet	1320 feet
Registered	660 feet	330 feet
Certified	330 feet	165 feet

Where different classes of seed of the same variety are grown on the same or adjacent farms, the isolation requirement may be reduced to 25% of that shown in the above table.

#### Length of stand:

Fields of all classes may produce a maximum of five (5) successive seed crops following seeding.

Field Standards:

	Maximum permitted in each class		
Factor	Foundation	Registered	Certified
Other varieties <sup>*</sup>	None	.05%	.5%

\*Other varieties shall be considered to include off-type plants and plants that can be differentiated from the variety that is being inspected.

Seed Standards:

	Standards for each class		
Factor	Foundation White Tag	Registered Purple Tag	Certified Blue Tag
Pure Seed (Min.)	99.0%	99.0%	98.0%
Other Crops (Max.)	.1%	.1%	.1%
Inert Matter (Max.)	1.0%	1.0%	2.0%
Weed Seed (Max.)	.1%	.1%	.2%
Noxious Weeds <sup>*</sup>	None	None	None
Objectionable Weeds <sup>1</sup> (Max.)	None	None	9/lb
Total Germination (Min.)	80.0%	80.0%	85.0%

\*Noxious Weeds - See Prohibited Noxious Seed List.

<sup>1</sup>Objectionable Weeds - Blue Flowering Lettuce, Buckhorn, Halogeton, Medusa Head Rye, Perennial Ragweed, Povertyweed, Wild Oats.

#### Idaho White Clover Certification Standards (rev. 3/17/2015)

Land Requirements:

- A. Breeder and foundation seed for the production of foundation seed shall be planted only on land on which no white clover plants have ever grown, insofar as is possible to determine.
- B. Foundation seed for the production of registered seed shall be planted only on land on which no white clover plants of any type have grown for at least the preceding five (5) years during three (3) of which the land must be cultivated. This time interval may be omitted if the last seed crop was the same variety and met foundation requirements.
- C. Foundation or registered seed for the production of certified seed shall be planted only on land on which no white clover plants of any type have grown for at least the preceding four (4) years during two (2) of which the land must be cultivated.

Isolation Requirements:

A field producing foundation, registered or certified seed must have the minimum isolation distance from fields of any other variety or fields of the same variety that do not meet the varietal purity requirements for certification as given in the following table.

CLASSES	Fields of less than 5 Acres	Fields of more than 5 Acres
Foundation	1320 feet	1320 feet
Registered	660 feet	330 feet
Certified	330 feet	165 feet
Between seed classes of the same variety	*	*

<sup>\*</sup>Isolation distance may be reduced 25% of higher class.

Length of Stand.

1. A foundation and/or registered field may produce only two (2) successive seed crops following seeding except that each may be reclassified to the next lower class after being harvested for seed for two (2) years. A stand will not be eligible to produce any class of seed after four (4) successive seed crops.

2. A certified field on which a stand of perennial plants are maintained may produce a maximum of four (4) successive seed crops following seeding.

Field Standards:

	Maximum	Maximum permitted in each class		
Factor	Foundation	Registered	Certified	
Other varieties <sup>*</sup>	None	0.2%	1.0%	

\*Other varieties shall be considered to include plants that can be differentiated from the variety that is being inspected.

Seed Standards.

	Standards for each class		
Factor	Foundation White Tag	Registered Purple Tag	Certified Blue Tag
Pure Seed (Min.)	99.0%	99.0%	99.0%
Other Crops (Max.)	.1%	.25%	.25%
Sweet Clover (Max.)	None	45/lb	180/lb
Inert Matter (Max.)	1.0%	1.0%	1.0%
Total Weed Seed (Max.)	.1%	.25%	.5%
Noxious Weeds <sup>*</sup>	None	None	None
Objectionable Weeds <sup>1</sup> (Max.)	None	None	45/lb
Other Objectionable Weeds <sup>2</sup> (Max.)	45/lb	90/lb	180/lb
Total Germination (Min.)	85.0%	85.0%	85.0%

\*Noxious Weeds - See Prohibited Noxious Seed List

<sup>2</sup>Plantain and Docks (including Sorrel).

<sup>&</sup>lt;sup>1</sup>Blue Flowering Lettuce, Buckhorn, Halogeton, Medusa Head Rye, Perennial Ragweed, Povertyweed, Wild Oats.