

Superseded by Order 884

Order No. 842 Superseded by

Order No. 850 Filed 5/24/61

See Docket #267 File #12

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE

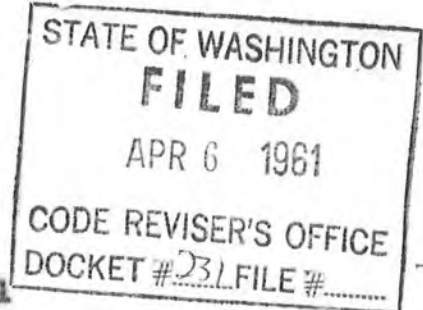
Olympia

ORDER NO. 842

Supersedes Order 811

Effective April 5, 1961

RULES FOR SEED CERTIFICATION



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I, Joe Dwyer, Director of Agriculture of the State of Washington, by virtue of the authority vested in me under Chapter 11, Laws 1961 (Chapter 15.46 RCW), after due notice as provided in Chapter 42.32 RCW and in accordance with the Administrative Procedures Act (Chapter 34.04 RCW), hereby adopt the following regulations:

Regulation 1. General Seed Certification Standards.

Section 1. The purpose of certification shall be to maintain and make available to the public, through certification, high quality seeds and propagating materials of superior crop plant varieties so grown and distributed as to insure genetic identity and genetic purity.

Section 2. Seed certification in the State of Washington is conducted by the Seed Branch, State Department of Agriculture, and Washington State Crop Improvement Association, Inc., in cooperation with the Institute of Agricultural Sciences, Washington State University, and International Crop Improvement Association. The certification of horticultural plant, or plant products, is conducted by the Division of Horticulture, State Department of Agriculture.

1. Certification of Alfalfa, Beans, Clover, Grasses, and Lotus shall be conducted by Seed Branch, State Department of Agriculture.
2. Certification of Field Peas, Small Grain, and Sorghum shall be conducted by the Washington State Crop Improvement Association, Inc., as per memorandum of agreement between the Washington State Crop Improvement Association, Inc. dated August 19, 1953, vesting the authority with Washington State Crop Improvement Association, Inc. as agent for the purpose of certifying certain crop seeds.

Section 3. The word seed or seeds as used in these standards shall be understood to include all propagating materials.

Section 4. Only those varieties that are approved by the Certification Advisory Board and accepted by the Certifying Agency shall be eligible for certification.

Section 5. Only one variety of the same crop may be grown for seed production on a farm except on prior approval of the Certifying Agency.

Section 6. Four classes (generations) of seed shall be recognized in certification, namely Breeder, Foundation, Registered and Certified.

1. Breeder seed is directly controlled by the originating or the sponsoring plantbreeder or institution and which provides the source for the initial and recurring increase of Foundation seed.
2. The Foundation class of seed (identified by white certification tags), including elite in Canada, shall be seed stocks that are so handled as to most nearly maintain specific genetic identity and purity. Foundation seed shall be the source of all other Certified seed classes, either directly or through Registered seed.
3. The Registered class of seed (identified by purple certification tags) shall be the progeny of Foundation seed that is so handled as to maintain satisfactory genetic identity and purity.

RULES FOR SEED CERTIFICATION

Section 6 (Continued)

4. The Certified class of seed (identified by blue certification tags) shall be the progeny of Foundation, Registered, or Certified seed that is so handled as to maintain satisfactory genetic identity and purity.

Section 7. Every field for which certification is requested shall show evidence of good management and shall show that reasonable precaution has been taken to control contaminating crops and varieties and objectionable weeds, the seeds of which are indistinguishable or inseparable in available cleaning equipment from seed of the particular crop being inspected.

Section 8. Every field for which certification is requested shall show evidence that reasonable precaution has been taken to control seed-borne diseases. The field at time of inspection shall not contain beyond established tolerances of injurious seed-borne plant diseases which are enumerated in the individual crop standards. The representative sample of the finished seed crop may be subjected to examinations for diseases.

Section 9. When seed of a variety resistant to a seed-borne organism is distributed because of its resistance to this organism, and a seed treatment is available, it is desirable that all seed of this variety sown to produce certified seed be treated.

Section 10. The grower shall comply with the following requirements:

1. In harvesting, the grower shall exercise precaution to prevent crop and lot mixture.
2. The grower shall have his seed cleaned at a processing plant which has been approved by the Seed Branch, Department of Agriculture.
3. The grower shall identify his crop with the assigned field number on each bag or box he delivers to the processor.

Section 11. A representative sample of each lot of seed as it is offered for sale shall be obtained by the Certifying Agency for laboratory analysis to determine if said seed meets seed standards for certification. The entire lot must be cleaned and in condition for sale at time of sampling.

Section 12. The Certifying Agency shall have authority to reject from certification any lot of seed not meeting the standards presented by these regulations, not properly protected from mixture, or improperly identified.

Section 13. Analyses and tests of samples of seed, and definitions of analytical terms, shall be in accordance with the rules of the Association of Official Seed Analysts as interpreted by the State and Federal Seed Laws.

Section 14. The Certifying Agency reserves the right to refuse certification on any lot of seed if, in the opinion of the Certifying Agency, the color or appearance of the seed might be detrimental to the certification program.

Section 15. All seed, when sold as certified seed, shall have an official tag or label properly affixed to each container. Sealing requirements will depend upon the crop and methods of handling.

1. All certified seed shall be packaged in clean new containers when tagged and sealed.
2. Certified Seed Bulk Sale Certificates may be used at the discretion of the Certifying Agency.
3. All official certification tags, labels and seals must be secured from the Certifying Agency and must be affixed to seed containers under the supervision of, or by a representative of the Certifying Agency.

Section 16. It is recognized that certain lots of seed would be lost if regular certification standards are adhered to. Therefore, under such

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circumstances, seed failing to meet certification standards other than those affecting genetic purity may be certified, provided there is no injury to the reputation of certified seed. The certification tag or labels attached to such seed shall clearly show the respects in which the seed is substandard.

Section 17. The Seed Processor shall notify the Seed Branch, State Department of Agriculture, of his intent to process certified seed.

1. An inspection will be made by a representative of the Seed Branch, State Department of Agriculture, to determine if the plant shall be approved for the processing of certified seed.
2. Upon approval of the plant by the Certifying Agency, the name of the establishment will be added to the list of cleaning plants approved for processing certified seed, and said list will be made available to growers of certified seed.
3. Should a subsequent investigation reveal that the certification program is in any way jeopardized in the processing plant, and that the Operator fails to take corrective measures, approval will be rescinded and the name of the establishment will be removed from the list of approved plants and the growers of certified seed notified of the same.
4. Certified seed must be handled in a manner so as to prevent mixture of lots.
5. The plant must show evidence of "clean" management. Dust and spillings should not be allowed to collect on floors and equipment. Equipment must be thoroughly cleaned between lots.
6. Installations must be easily accessible for cleaning and inspection.
7. All certified seed must be clearly marked with a lot number.
8. Approval from the Certifying Agency must be obtained for bulk handling of certified seed other than Small Grain.
9. Disposal of screenings must be made in a manner so as to comply with the Washington State Seed Law.
10. Approval must be obtained from the Certifying Agency to ship certified seed out-of-state for processing.

Section 18. Responsibility for any obligations, other than those concerned with certification, arising from the sale or shipment of seed which has been certified rests with the grower or subsequent handler making the sale or shipment.

Regulation 2. Procedure to Follow for Certification.

Section 1. Persons who wish to participate in the seed certification program must submit applications for seed certification in accordance with the requirements of these regulations. (See specific rules for each crop.)

Section 2. Seedling applications (applications for new plantings) are due within 60 days after planting date. Each application must be accompanied by the required fee and the certification tags from the seed stock, or other evidence of eligibility for certification. Upon acceptance of the application, each field is assigned a field number which shall be used to identify this particular field and all certified seed produced on it.

1. A separate application must be used for each crop when applying for seedling inspection.

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Section 2 (Continued)

- 2. The fee for seedling application for perennial crops is \$10.00 per application. Acreage fee is not charged on seedling applications. Application fees for annual crops are \$10.00 per application plus acreage fee of 50¢ per acre.
- 3. A penalty fee of \$10.00 per application is charged on seedling applications received more than 60 days after planting date.
- 4. Seedling applications will not be accepted later than 6 months after planting date.

Section 3. Fees for seed certification shall be as follows:

- 1. Application fee*.....\$10.00 for each crop
- Seedling application fee\$10.00 for each crop
- Acreage fee\$.50 per acre
- Sampling fee**.....\$.10 per 100 lbs.
(Beans 5¢ per 100 lbs.)
- Tagging fee**.....\$.15 per 100 lbs.
(Beans 10¢ per 100 lbs.)
- Reinspection fee.....\$10.00 for each reinspection
- Late penalty fee.....\$10.00 per application
(This fee is charged when an application is received after the due date.)
- Purity and germination fee..... As established by the Director of Agriculture.
- Blending fee.....\$.05 per 100 lbs.
- Resampling and retagging fee.....\$.05 per bag

*A grower shall not pay more than two regular application fees for grass seed certification, regardless of the number of grass crops applied for.

**Based on pounds of cleaned seed sampled.

- 2. Certification fees for Field Peas, Small Grains and Sorghum certified by Washington State Crop Improvement Association, Inc. shall be as follows:

- Application fee.....\$10.00 for 10 or fewer acres plus 50¢ for each additional acre per variety.
- Late penalty fee.....\$ 5.00 per variety
- Reinspection fee.....\$ 5.00 each
- Final certification fee.....\$.07 cwt. cleaned seed sampled

Section 4. Field inspections of certified seed shall be made as follows:

- 1. A seedling inspection will be made the first year the field has been planted. The inspection will be repeated in case the field produces seed that same season.
- 2. A field inspection will be made each year that a crop of certified seed is produced.
- 3. Field inspections will take place while the crop is in blossom.
- 4. No field will be certified unless a field inspection has been made.
- 5. The unit of certification will be the entire field standing at the time of inspection. A portion of a field may be certified if the area to be certified is clearly defined. Portions of a field not meeting requirements for certification must not be allowed to reach the seed stage.

RULES FOR SEED CERTIFICATION

Section 4 (Continued)

- 6. A field producing Foundation or Registered seed that warrants a rejection because of noxious weeds will be reclassified to Certified class if upon reinspection these fields meet Blue Tag Certified standards.
- 7. If a field is rejected, the grower may apply for reinspection after the cause for rejection has been corrected. No more than two reinspections will be granted each field.
- 8. See rules for each crop for specific requirements.

Section 5. Certified seed must be harvested in clean bags or boxes. When harvesting, use clean equipment and take all precautions to prevent mixture. The field number must be put on all bags or boxes when filled, to insure seed identity when delivered to the cleaning plant.

Section 6. Upon completion of the cleaning process at the cleaning plant, a representative of the Certifying Agency draws a sample of the seed for the purpose of making a purity and germination analysis at the Seed Laboratory. Only in the case of cereals, grown and processed on the home place, is the grower permitted to draw his own sample and send it to the Seed Laboratory for analysis. When the purity and germination tests are completed and the seed is found to meet the required standards, certification tags are printed for each particular lot and attached to the bags with official certification seals.

Section 7. A grower may of his own accord withdraw a field from certification. To do so, he must notify the Certifying Agency of his intention before a field inspection is made. Upon notification of withdrawal, the acreage fee only is refundable.

Section 8. The following weeds shall be considered Prohibited Noxious Weeds for the purpose of seed certification:

English or Common Name	Botanical or Scientific Name
Bindweed (wild morning glory)....	<i>Convolvulus arvensis</i>
	<i>Convolvulus sepium</i>
Quackgrass.....	<i>Agropyron repens</i>
Canada thistle.....	<i>Cirsium arvense</i>
Dodder.....	<i>Cuscuta</i> spp.
Perennial sow thistle.....	<i>Sonchus arvensis</i>
White-top (hoary cress).....	<i>Cardaria Draba</i>
	<i>Cardaria Draba</i> var. <i>repens</i>
	<i>Cardaria pubescens</i>
Perennial peppergrass.....	<i>Lepidium latifolium</i>
Russian knapweed.....	<i>Centaurea repens</i> (<i>C. picris</i>)
Leafy spurge.....	<i>Euphorbia esula</i>
White horse nettle (silver- leaf nightshade).....	<i>Solanum elaeagnifolium</i>
Camelthorn.....	<i>Alhagi camelorum</i>
Austrian field cress.....	<i>Roripa austriaca</i>
Blue flowering lettuce.....	<i>Lactuca pulchella</i>
Common barberry bushes (rust- susceptible species of barberry and mahonia).....	<i>Berberis</i> spp.
	<i>Mahonia</i> spp.
Yellow toadflax (butter-and- eggs).....	<i>Linaria vulgaris</i>
Dalmatian toadflax.....	<i>Linaria dalmatica</i>
Johnson grass.....	<i>Sorghum halepense</i>
<i>Sorghum aluum</i>	<i>Sorghum aluum</i>

RULES FOR SEED CERTIFICATION

Section 9. The following weeds shall be considered Objectionable Weeds for the purpose of certification:

English or Common Name	Botanical or Scientific Name
Perennial rag weed.....	Ambrosia psilostachya
Powerty weed (deathseed).....	Iva axillaris
Alkali mallow.....	Sida hederacea
Corncockle.....	Agrostemma githago
Docks.....	Rumex spp.
Sheep sorrel (red sorrel).....	Rumex acetosella
Charlock (wild mustard).....	Brassica kaber
Plantains.....	Plantago spp.
Perennial groundcherry.....	Physalis longifolia and Physalis subglabrata
Parweed.....	Thlaspi arvense
Yellow star-thistle.....	Centaurea solstitialis
Perennial nutgrass (nut sedge)...	Cyperus rotundus
Ranunculus.....	Tribulus terrestris
Wild garlic (wild onion).....	Allium vineale
St. Johnswort (Klamath-weed).....	Hypericum perforatum
Halogeton.....	Halogeton glomeratus
Wild oats.....	Avena fatua

Regulation 3. Alfalfa Seed Certification Standards.

Section 1. The general seed certification standards, (Regulations 1 and 2), are basic and together with the following specific standards constitute the standards for certification of Alfalfa seed.

Section 2. The varieties eligible and the certification scheme for each are as follows:

Ranger, Buffalo, Rambler, Harragansett, Talent, Cody, & Williamsburg:	Foundation seed is eligible to produce Registered seed. Registered seed is eligible to produce Certified seed. Certified seed is for forage production only.
Vernal, Lehontan, Alfa, & Culver:	Foundation seed is eligible to produce Certified seed only. Certified seed is for forage production only.
Grims & Ladak:	Certified seed is eligible to produce Certified seed.
DuPuits:	Certified production only from approved imported seed stock.

Section 3. An application for certification of a field producing seed must be made each year a grower plans to produce certified seed. This application must be filed with the Seed Branch, State Department of Agriculture by June 15 accompanied by required fees.

1. No applications will be accepted after July 31, except seedling applications which should be submitted within 60 days after planting.
2. A penalty of \$10.00 per application for producing fields will be charged for applications received after June 15, and for seedling applications received 60 days after planting.
3. See Regulation 2 for additional information on applications and fees.

RULES FOR SEED CERTIFICATION

Section 4. Land requirements shall be as follows:

1. A field to be planted with Breeder seed for the production of Foundation seed, or with Foundation seed for the production of Registered seed, must not have grown or have been seeded to Alfalfa during the preceding 4 years.
2. A field to be planted with Foundation or Registered seed for the production of Certified seed must not have grown or have been seeded to Alfalfa during the preceding 2 years.
3. A field to be planted with Certified Grims or Ladak varieties for the production of Certified seed must not have grown or have been seeded to Alfalfa during the preceding 2 years, unless it is a replacement of a Certified field of the same variety.
4. Reseeding of a field on account of failure or partial failure of the first seeding may be done only with permission of the Seed Branch.
5. Ditchbanks, roadways, etc. adjacent to a Certified field must be free of volunteer Alfalfa and noxious weeds.
6. Volunteer plants in the field may be cause for rejection or reclassification of a seed field.
7. No manure or other contaminating materials shall be applied during the establishment and productive period of the stand.
8. If a cereal crop is used as a companion crop, it is recommended that only a Certified cereal be used to prevent introducing weeds or other crops.

Section 5. Isolation requirements shall be as follows:

1. Alfalfa for certification shall be isolated from all other Alfalfa varieties or fields of the same variety not meeting varietal purity requirements for certification as follows:

CLASS PLANTED	CLASS PRODUCED	FIELDS LESS THAN 5 ACRES	FIELDS 5 ACRES OR MORE
Breeder	Foundation	1,320 feet	1,320 feet
Foundation	Registered	1,000 feet	500 feet
Foundation	Certified	500 feet	300 feet
Registered	Certified	500 feet	300 feet
Certified	Certified	500 feet	300 feet

The isolation between fields producing Certified Blue Tag Ranger and Certified Blue Tag Vernal shall be 165 feet.

2. Isolation between different classes (generations) of the same variety shall be as follows:

CLASS PLANTED	CLASS PRODUCED	DISTANCE REQUIRED FOR THE NEAREST FIELD PLANTED WITH	
Breeder	Foundation	Foundation	400 feet
		Registered	900 feet
Foundation	Registered	Registered	165 feet
Foundation	Certified	Certified	165 feet
Registered	Certified	Certified	165 feet

3. In cases where an adjoining field is planted with a different variety of Alfalfa, or Alfalfa of a lower class which requires more than mechanical isolation, isolation may be obtained by measuring off the required strip in the Certified field. The isolation strip must be mowed and not allowed to reach bloom stage.

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Section 6. Field tolerances shall be as follows:

	FOUNDATION	FIELD PRODUCING REGISTERED	CERTIFIED
Other Varieties	0.20%	0.5%	1.0%
Sweet Clover	None	5 plants per acre	20 plants per acre
Red Clover	None	5 plants per acre	20 plants per acre

Alfalfa fields must be free of weeds listed in Regulation 2, Section 3.

Section 7. Seed standards shall be as follows:

PURITY	FOUNDATION	REGISTERED	CERTIFIED Blue Tag
Pure seed (min.)	99.00%	99.00%	99.00%
Other crops (max.)	0.1 %	0.1 %	.25%
Sweet clover (max.)	None	None	90 per lb.
Inert mat. (max.)	1.00%	1.00%	1.00%
Weed seed (max.)	0.1 %	0.2 %	.25%
Objectionable weed seeds - See Regulation 2, Section 9.			
(max. total)	None	None	16 per lb.
GERMINATION			
(min. total germination and hard seed)	80.00%	85.00%	85.00%

Foundation or Registered seed that has been rejected in the laboratory for seeds of the weeds listed in Regulation 2, Section 3, will be reclassified to the Certified Blue Tag class and will not be eligible for seed stock although it is reclaimed and upon retesting meets Certified standards.

Alfalfa seed must be free of the seeds of the weeds listed in Regulation 2, Section 3.

Regulation 4. Bean Seed Certification Standards.

Section 1. The general seed certification standards, (Regulations 1 and 2), are basic and together with the following specific standards constitute the standards for certification of Bean seed.

Section 2. The varieties eligible are as follows:

Great Northern:	University of Idaho Numbers 123, 59, 31, & 16
Red Mexican:	University of Idaho Numbers 34, 3, & 35
Pinto:	University of Idaho Numbers 111, 78, & 72, & Columbia
Flat Small White:	University of Idaho Numbers 1 & 2

1. As the list of eligible varieties is subject to change, other varieties may be eligible upon approval of the Certifying Agency.

2. Planting stock must consist of Foundation, Registered, or Certified Blue Tag seed.

Section 3. An application for certification must be filed with the Seed Branch, State Department of Agriculture, not later than July 1st accompanied by the required fees and the certification tags or other evidence of eligibility for certification.

1. No applications will be accepted after July 15.

2. A penalty of \$10.00 per application will be charged for applications received after July 1.

3. A fee of \$10.00 will be charged for reinspection of a field that did not pass the second inspection.

RULES FOR SEED CERTIFICATION

Section 3 (Continued)

4. See Regulation 2 for additional information on applications and fees.

Section 4. Land requirements shall be as follows:

1. A field to be eligible for the production of Certified seed must not have been planted to Beans the preceding year, unless the previous crop was under certification and of the same class or higher of the same variety and strain, and free of bacterial blight.
2. A field will not be eligible for production of Certified seed for more than two consecutive years.

Section 5. Field tolerances shall be as follows:

1. PRODUCING	FOUNDATION	REGISTERED	CERTIFIED
Other varieties or off-type plants	None	.1%	.2%
Other crops	None	.1%	.1%
Total seed-borne diseases	None	.5%	1.5%
Bacterial Bean blights & wilt	None	.1%	.5%
Anthracnose	None	.1%	.5%
Mosaic (Seed Borne)	None	.5%	.5%

2. Fields must be rogued of weeds, off-type plants, volunteer plants and plants showing symptoms of seed borne diseases.
3. A field to be certified must have clean cultivated boundaries of at least 10 feet wide.
4. Excessive weeds, poor stands, lack of vigor or any other condition which is apt to make inspection inaccurate may be cause for rejection of the field.

Section 6. Inspection requirements shall be as follows:

1. At least two field inspections will be made - one when the plants are at the third-leaf stage, and one when plants are fully grown and the first Beans maturing.
2. A greenhouse test may be made of every lot of Certified Beans to determine the percentage of seed borne mosaic. A two pound sample of each lot must be submitted to the Seed Branch, State Department of Agriculture, before December 31.
3. The maximum test plot tolerances for seed borne mosaic are:

Foundation	Registered	Certified
0%	0.50%	1.00%

4. The combined results of field inspections, laboratory tests and test plot readings will determine final certification.

Section 7. Seed standards shall be as follows:

1. PURITY	FOUNDATION	REGISTERED	CERTIFIED Blue Tag
Pure seed (min.)	98.00%	99.00%	99.00%
Other crops & varieties	None	None	2 per 100 lbs.
Badly discolored (max.)		1.00%	1.00%
Inert matter (max.)		1.00%	1.00%
Splits & cracks (max.)		1.00%	1.00%
Wood seed (max.)		None	None
GERMINATION (min.)		85.00%	85.00%

RULES FOR SEED CERTIFICATION

Section 7 (Continued)

- 2. Total of inert matter, splits and cracks, and badly discolored shall not exceed 2% or over 1% of any of these factors alone except for Foundation seed.
- 3. Rough handling of Bean seed in the combine or cleaning plant reduces germination materially. Precautions must be taken against such treatment and the seed safeguarded against high drops.

Regulation 5. Grass Seed Certification Standards.

Section 1. The general seed certification standards, (Regulations 1 and 2), are basic and together with the following specific standards constitute the standards for certification of Grass seed.

Section 2. The varieties eligible and the certification scheme for each are as follows:

- Bentgrass: Astoria, Colonial, Highland, Sossida, Penncross***
- Bluegrass: Sherman Big*, Delta*, Marlow*, Park*, Newport*
- Bromegrass: Manchester*, Lincoln*, Saratoga**, Lyon*, Bromar*
- Fescue: Alta*, Hard*, Chewings, Creeping Red - Varieties of Creeping Red: Olds, Illinois*, Rainier*, Pennlar**
- Meadow Fescue: Creeping*
- Orchard Grass: S-143*, Akaroc*, Potomac**, Lotar*, Massherdy*, Pennlate**, Sterling*
- Ryegrass: Perennial
- Tall Oatgrass: Tualatin*
- Timothy: Clinar*, Drummond*
- Wheatgrass: Greener Intermediate*, Anar Intermediate, Topar Pubescent*, Sodar Streambank*, Whitmar Beardless*, Pringr Slender*, Standard Crested*, Nordan Crested*, Fairway Crested, Siberian*, Albar Tall*
- Russian Wildrye: Vinail*

- *Foundation seed is eligible to produce Registered seed.
- **Registered seed is eligible to produce Certified seed.
- ***Certified seed is for forage production only.

**These varieties are to be certified on a limited generation basis in which Foundation seed is eligible to produce Certified seed only.

***See specific rules for certification of Penncross Bentgrass.

The certification of Pennlate Orchard Grass shall be limited as follows:

A field of Pennlate Orchard Grass shall not be eligible to produce certified seed after six years of vegetative growth not counting the seedling year.

A Breeder planting shall be eligible for Foundation production for the first three years and will be reclassified to Certified production for the last three years of the six year limit.

Section 3. Vegetative planting stock shall be as follows:

- 1. Vegetative planting stock of Grasses certified on generation basis must originate in fields which have been planted with Breeder, Foundation, or Registered seed, and which have met certification field standards for these classes.
- 2. Fields planted with Breeder seed shall be eligible to produce Foundation vegetative propagating material. Foundation vegetative propagating material will be eligible to produce Foundation seed.
- 3. Fields planted with Foundation seed shall be eligible to produce Registered vegetative propagating material. Registered vegetative propagating material will be eligible to produce Registered seed.

RULES FOR SEED CERTIFICATION

Section 3 (Continued)

4. Fields planted with Registered seed shall be eligible to produce Certified vegetative propagating material. Certified vegetative propagating material will be eligible to produce Certified seed.
5. Fields shall be eligible to produce vegetative propagating material until:
 - (a) The field is two years old (or)
 - (b) Seed heads appear
6. Fields producing Foundation or Registered vegetative propagating materials may be reclassified to the next lower class based on age of stand, or appearance of seed heads.
7. All vegetative plantings must have approval of the Certifying Agency.
8. See specific rules for certification of Penncross Bentgrass.

Section 4. An application for certification of a field producing seed must be made each year a grower plans to produce certified seed. This application must be filed with the Seed Branch, State Department of Agriculture by May 15 accompanied by required fees.

1. No applications will be accepted after July 15, except for seedling applications which should be submitted within 60 days of planting.
2. A penalty of \$10.00 per application for producing fields will be charged for applications received after May 15, and for seedling applications received 60 days after planting.
3. See Regulation 2 for additional information on applications and fees.

Section 5. Land requirements shall be as follows:

1. A field to be planted with Breeder seed for the production of Foundation seed must not have grown or have been seeded to the same species, sub-species, variety, or strain of Grass during the preceding 5 years. The field must be planted in rows of at least 30 inch spacing and cultivated to maintain the rows.
2. A field to be planted with Foundation seed for the production of Registered seed must not have grown or have been seeded to the same species, sub-species, variety, or strain of Grass during the preceding 3 years.
3. A field to be planted with Foundation, Registered, or Certified seed for the production of Certified seed must not have grown or have been seeded to the same species, sub-species, variety, or strain of Grass during the preceding 2 years.
4. A field to be planted with Certified seed of a Grass not certified on generation basis may replace a Certified field of the same species, variety and strain.
5. Reseeding of a field on account of failure or partial failure of the first seeding may be done only with permission of the Seed Branch.
6. Row planting is recommended for all Grass seed fields.
7. Field margins should be clean cultivated or mowed for hay and related Grasses growing in fence rows and other areas adjacent to the field must be controlled by methods that prevent blooming.

RULES FOR SEED CERTIFICATION

Section 5 (Continued)

8. Growers will be permitted to plow out Marion Kentucky Bluegrass after harvest, (or not later than August 1), clean fallow the rest of that year, and replant the following spring for Blue Tag production only.

Section 6. Isolation requirements shall be as follows:

1. A seed field to be eligible for the production of Foundation, Registered, or Certified seed must be isolated from any other variety or strain of the same species in accordance with the requirements in the following table:

Symbol for Type of Reproduction	Minimum Isolation Distance Required for Fields Producing:		
	FOUNDATION	REGISTERED	CERTIFIED
Strains at least 80% apomictic - - - - - A	10 rods	10 rods	1 rod-clean fallow
Strains entirely apomictic - - - - - A	10 rods	10 rods	1 rod-clean fallow
Highly self-fertile species - - - - - S	10 rods	10 rods	1 rod-clean fallow
All cross pollinated species - - - - - C	80 rods	40 rods	20 rods

*See seed standards for classification of grass species.

2. Isolation required between different classes of the same variety of cross pollinated (C) species.

CLASS SEED PLANTED	CLASS SEED PRODUCED	Distance Required from Nearest Field Producing
Breeder	Foundation	Registered - - - - 165 feet
		Certified - - - - 300 feet
Foundation	Registered	Certified - - - - 165 feet

Section 7. Field tolerances shall be as follows:

1. Maximum other varieties permitted for all Grass except Bentgrass in fields producing:
 Foundation 0% Registered 0.5% Certified 1%
2. Maximum of 1% fine-leaved Bentgrasses is permitted in Certified Bentgrass seed fields. A trace of Red Top is permitted in Certified Blue Tag Bentgrass fields.
3. Grass fields must be free of weeds listed in Regulation 2, Section 8.

Section 8. Requirements for blending Certified grass shall be as follows:

1. A blend data sheet must be submitted to the Seed Branch and approved prior to blending.
2. The Seed Branch will supervise the blending operations of all Certified and Registered blends.
3. All lots of seed used in a Registered blend must be of a Registered class and must meet Registered standards.

RULES FOR SEED CERTIFICATION

Section 8 (Continued)

4. Individual seed lots to be eligible for Certified blending must not exceed the following:
 - Inert - two times the amount allowed in certification standards.
 - Crop - four times the amount allowed in certification standards.
 - Weeds - two times the amount allowed in certification standards.
5. Germination or tetrazolium percent on any one lot to be blended shall not be less than the minimum certification standard of germination minus one-half of the difference between that standard and 100%.
6. A germination test will be required on all Certified blends, prior to tagging, if the average germination on the blend sheet is less than 2% above minimum required germinations.
7. A tetrazolium test may be used in lieu of germination test required in paragraph 6 above. However, the tetrazolium must show normal staining of 5% above minimum required germination.
8. Individual lots containing more than 100 objectionable weeds per pound will not be allowed in the blend.

Section 9. Requirements for vegetative propagation material shall be as follows:

1. Field standards - The maximum of other recognizable Grass species, varieties, or strain permitted for each specific class of vegetative propagating material to be produced for all Grasses except Bentgrass* is as follows:
 - Foundation - None Registered - 0.25% Certified - .50%
 - *No tolerance allowed for Bentgrass
2. Planting stock standards - Pure living sprigs (min. by count) 95% and other living plants (max. by count) 2%.
3. Planting stock must be free of weeds listed in Regulation 2, Sections 8 and 9.

RULES FOR SEED CERTIFICATION

Section 10. Seed standards for Grasses shall be as follows:

Crop and its type of Reproduction		Min % Germ Fndt.		Min.% Pure Fndt.		Max.% Inert Fndt.		Max.% Weeds (3) Fndt.		Max.% Other Crop Fndt. (1)		Max.% seeds of other grass spp.	
		Reg.	Cert.	Reg.	Cert.	Reg.	Cert.	Reg.	Cert.	Reg.	Cert.	Fndt.	Reg.
Bentgrass	(C)	80	85	96	96	4	4	.1	.4(2)	.1	.6	1/10 grams	1/1 grams
Bluegrass													
Sherman	(a)	70	70	90	90	10	10	.1	.3	.1	.5	1/10 grams	1/1 grams
Kty. Type	(a)	75	75	97	97	3	3	.1	.3	.1	.5	1/10 grams	1/1 grams
Merion	(a)	75	75	92	92	8	8	.1	.3	.1	.5(5)	1/10 grams	2/1 grams
Smooth Brome	(C)	80	85	95	95	5	5	.1	.3(4)	.1	.5	1/50 grams	10/50 grams
Lt. Brome	(S)	85	90	95	95	5	5	.1	.3(4)	.1	.5	1/50 grams	10/50 grams
Alta.	(C)	80	85	95	97	5	3	.1	.3	.1	.5	2/50 grams	10/50 grams
Hard Fescue	(C)	80	90	95	95	5	5	.1	.3	.1	.5	1/50 grams	5/50 grams
Other Fescue	(C)	80	90	98	98	2	2	.1	.3	.1	.5	1/50 grams	5/50 grams
Orchard Grass	(C)	80	85	85	90	15	10	.1	.3	.1	.5	3/50 grams	10/50 grams
Tall Oatgrass	(C)	75	75	90	95	10	5	.1	.3	.1	.5	1/50 grams	10/50 grams
Ryegrass	(C)	85	90	96	98	4	2	.1	.3	.1	.5	1/50 grams	5/50 grams
Wheatgrass													
Beardless	(C)	80	85	90	90	10	10	.1	.3	.1	.5	1/50 grams	5/50 grams
Intermediate	(C)	80	85	95	95	5	5	.1	.3	.1	.5	1/50 grams	5/50 grams
Pubescent	(C)	80	85	95	95	5	5	.1	.3	.1	.5	1/50 grams	5/50 grams
Streambank	(C)	80	85	90	90	10	10	.1	.3	.1	.5	1/50 grams	5/50 grams
Crested	(C)	80	85	90	95	10	5	.1	.3	.1	.5	1/50 grams	5/50 grams
Slender	(S)	80	85	90	95	10	5	.1	.3	.1	.5	1/50 grams	5/50 grams
Tall	(C)	80	85	95	95	5	5	.1	.3	.1	.5	1/50 grams	5/50 grams
Russian Wildrye	(C)	80	80	90	90	10	10	.3	.5	1.0	1.0	.1%	.25%
Mdw. foxtail	(C)	80	80	80	85	20	15	.1	.3	.1	.5	5/50 grams	5/50 grams
Timothy	(C)	80	85	97	97	3	3	.1	.3	.1	.5	1/50 grams	5/50 grams

- Not to exceed twenty-five hundredths of one per cent (.25%) other grass species for certified seed, except Bentgrass.
- Blue Tag Bentgrass shall not contain over 900 seeds per pound, singly or collectively, of the following weeds:
Plantain spp., Big Mouse-Ear Chickweed, Yarrow, Spotted Cat's Ear, and Dandelion.
A maximum of 0.5% weed seed will be allowed in Bentgrass containing Silver Hairgrass providing the total of all other weed seed does not exceed .30%.
- Grass seed must not contain more than 45 per lb. for registered seed, 90 per pound for blue tag seed, singly or collectively, of objectionable weeds. (See general rules.) Grass seed must be free of weed seeds listed under prohibited weeds in the general rules.
- A tolerance of .50% will be allowed for samples containing weedy bromus spp., provided the total of all other weed seeds does not exceed .30%.
- A tolerance of 3.00% common or other Kentucky-type bluegrass will be allowed in certified Merion Bluegrass.
- A tolerance of .80% will be allowed on Blue Tag wheatgrass containing small grain seed providing the total of all other crop seed does not exceed .5%.
- A tolerance of 1.50% Other Fine Bentgrasses and .50% Red Top will be allowed in Certified Bentgrass containing a minimum of 98% total Bentgrass.

RULES FOR SEED CERTIFICATION

Regulation 6. Penncross Creeping Bentgrass Certification Standards.

Section 1. The general seed certification standards, (Regulations 1 and 2), are basic and together with the following specific standards constitute the standards for certification of Penncross Creeping Bentgrass.

Section 2. To be eligible for certification, a field must be planted as specified in the following rules with eligible vegetative propagating materials of Penncross Bentgrass strains 10 (37) 4 (Pennlu), 9 (38) 5 and 11 (38) 4.

Section 3. An application for certification must be filed with the State Foundation Seed Representative and the Seed Branch, State Department of Agriculture, prior to planting of propagating materials.

1. Application fees shall be \$20.00 for one (1) acre or less plus \$5.00 for each additional acre for fields producing vegetative propagating material. The year root stocks are not produced, the inspection fee shall be \$10.00. Application fees for fields producing seed shall be \$20.00 for 10 acres or less and \$1.00 for each acre over 10.
2. No application will be accepted if the stock has been planted prior to approval of the Seed Branch.

Section 4. The classes (generations) of vegetative propagating material shall be as follows:

1. Breeder propagating material shall be the materials directly controlled by the plant breeder, or institution developing that material, and which provides the source for initial or recurring increases of Foundation propagating material.
2. Foundation propagating material shall be that material grown from Breeder stock.
3. Certified propagating material shall be material grown from Foundation stock which is so handled as to maintain satisfactory identity and purity. Certified propagating material shall not be used to reproduce Certified propagating material, but may be used for establishing seed fields.
4. Certified Seed is first generation seed produced by random hybridization of vegetatively planted parent strains of Creeping Bentgrass specified under Section 2 above, and is produced from fields planted systematically with Breeder, Foundation, or Certified propagating material of those strains of Creeping Bentgrass specified above.

Section 5. Land requirements shall be as follows:

1. A field to be eligible for the production of Foundation vegetative propagating material must not have grown or have been seeded to the same species, sub-species, or variety of grass during the preceding 5 years.
2. A field to be eligible for the production of Certified vegetative propagating material must not have grown or been seeded to the same species, sub-species, or variety of grass during the preceding 3 years.
3. A field to be eligible for the production of Certified Seed of Penncross Creeping Bentgrass must not have grown or been seeded to the same species, sub-species, or variety of Bentgrass during the preceding 3 years.

Section 6. Isolation requirements shall be as follows:

1. A field to be eligible for the production of Certified Seed must be isolated from all other Bentgrasses by a distance of at least 500 feet.

RULES FOR SEED CERTIFICATION

Section 6 (Continued)

- 2. Fields producing vegetative planting stocks must be planted with Breeder or Foundation planting stocks of the approved strains. Each block of the three eligible strains shall be at least 20 feet from any other block or from any other Bentgrass and this isolation shall be maintained by clean cultivation. Planting must be supervised by the Seed Branch.

Section 7. Field standards shall be as follows:

- 1. Only seed grown on fields vegetatively planted systematically with Breeder, Foundation, or Certified planting stocks in accordance with a planting plan furnished by the Seed Branch shall be eligible for certification.
- 2. The production of Certified Seed shall be limited to fields having:
 - (a) Stands not more than 4 years of age.
 - (b) Not more than 5% of accumulated volunteer and/or off-type plants.
 - (c) Not less than 70% of the original stand of each parent row.

- 3. To be eligible for production of vegetative propagation material, flowering and seed production must be controlled.
- 4. Maximum identifiable volunteer and/or other varieties permitted in fields producing, the following stock shall be as follows:

Foundation Vegetative Material	Certified Vegetative Material	Certified Seed
0	10 plants per acre	25 plants per acre

- 5. Fields producing vegetative propagating material shall be inspected at least three times a year. An application and inspection is required each year regardless if propagation material is harvested or not.
- 6. Harvesting vegetative planting materials must be supervised by the Seed Branch. A representative of the Seed Branch shall be present during all the harvesting procedure to insure that no mixture of propagating material occurs and to inspect, sample, label, and seal each container. Only new containers shall be used. Labels shall show strain of propagating material, grower's name, date, and inspector's signature.
- 7. Production of Foundation propagating materials shall be limited to fields having stands not more than 2 years of age.
- 8. Production of Certified vegetative propagating material shall be limited to fields having stands not more than 4 years of age.
- 9. Excessive weeds, poor stands, lack of vigor, appearance of volunteer plants, disease, or any other condition which is apt to affect the quality of propagation material and/or make inspection inaccurate may be cause for rejection of the field for the production of vegetative propagating materials.
- 10. Fields may be reclassified or rejected for one or more of the following reasons:
 - (a) Accumulates excessive volunteer plants.
 - (b) Loss of more than 30% of the original stand.
 - (c) Failure to maintain proper isolation distance.
 - (d) Not meeting minimum certification standards as established for Grass seed certification.

RULES FOR SEED CERTIFICATION

Section 7 (Continued)

- 11. Fields must be free of weeds listed in Regulation 2, Section 8.

Section 8. Planting stock standards shall be as follows:

Pure, Live Stolens excluding leaves (min.)	Total Inert including leaves	Other Living plants	Noxious weed plants
Percent by Weight (green) 70	30	2	0

Vegetative propagating material must be inspected for nematodes before certification can be approved.

Section 9. Fennercross Bentgrass seed must be free of the seeds of the weeds listed in Regulation 2, Section 8.

Regulation 7. Ladino Clover Seed Certification Standards.

Section 1. The general seed certification standards, (Regulations 1 and 2), are basic and together with the following specific standards constitute the standards for certification of Ladino Clover seed.

Section 2. The variety eligible and the certification scheme is as follows:

Pilgrim:

Foundation seed is eligible to produce Certified seed.
Certified seed is for forage production only.

Section 3. An application for certification of a field producing seed must be made each year a grower plans to produce certified seed. This application must be filed with the Seed Branch, State Department of Agriculture by June 15 accompanied by required fees.

1. No applications will be accepted after July 31, except seedling applications which should be submitted within 60 days after planting.
2. A penalty of \$10.00 per application for producing fields will be charged for applications received after June 15, and for seedling applications received 60 days after planting.
3. See Regulation 2 for additional information on applications and fees.

Section 4. Land requirements shall be as follows:

1. A field to be planted with Breeder seed for the production of Foundation seed shall be planted only on land on which no Ladino Clover plants of any type have ever grown insofar as possible to determine.
2. A field to be planted with Foundation seed for the production of Certified seed shall be planted on land on which no Ladino Clover plants of any type have grown for at least the preceding 4 years, during 2 of which shall have been in a cultivated crop or clean fallow.
3. Foundation or Certified producing fields shall be eligible for certification for only 2 harvest years following the year of seeding, provided that seed production the first year is prevented. Foundation fields may be reclassified to the next lower class after being harvested for seed for 2 years.

RULES FOR SEED CERTIFICATION

Section 4 (Continued)

4. Reseeding of a field on account of failure or partial failure of the first seeding may be done only with permission of the Seed Branch.
5. Ditchbanks, roadways, etc. adjacent to a Certified field must be free of volunteer Ladino Clover and noxious weeds.
6. Volunteer plants in the field may be cause for rejection or reclassification of a seed field.
7. No manure or other contaminating materials shall be applied during the establishment and productive period of the stand.

Section 5. Isolation requirements shall be as follows:¹

1. Ladino Clover for certification shall be isolated from all other species or varieties and strains of Ladino Clover as follows:

CLASS PLANTED	CLASS PRODUCED	ISOLATION REQUIREMENTS	
		FIELDS LESS THAN 5 ACRES	FIELDS 5 ACRES OR MORE
Breeder	Foundation	1,320 feet	1,320 feet
Foundation	Certified	650 feet	450 feet

2. A field producing Foundation seed must be isolated 660 feet from a field of the same variety or strain producing Certified seed.
3. In cases where an adjoining field is planted with a different variety of White Clover, or Ladino Clover of a lower class which requires more than mechanical isolation, isolation may be obtained by measuring off the required strip in the Certified field. The isolation strip must be mowed and not allowed to reach bloom stage.

Section 6. Field tolerances shall be as follows:

	FIELDS PRODUCING	
	FOUNDATION	CERTIFIED
Other Varieties (max.)	None	10 plants per acre
Other Clover (max.)	None	20 plants per acre

Ladino Clover fields must be free of weeds listed in Regulation 2, Section 8.

Section 7. Seed standards shall be as follows:

PURITY	CERTIFIED	
	FOUNDATION	Blue Tag
Pure seed (min.)	98.00%	99.00%
Other crops (max.)	.10%	.30%
Inert mat. (max.)	2.00%	1.00%
Weed seed (max.)	.10%	.30%
Objectionable weed seeds - See Regulation 2, Section 9. (max. total)	10 per lb.	90 per lb.
GERMINATION		
(min. total germination and hard seeds)	85.00%	85.00%

Ladino Clover must be free of the seeds of the weeds listed in Regulation 2, Section 8.

RULES FOR SEED CERTIFICATION

Regulation 8. Red Clover Seed Certification Standards.

Section 1. The general seed certification standards, (Regulations 1 and 2), are basic and together with the following specific standards constitute the standards for certification of Red Clover seed.

Section 2. The varieties eligible and the certification scheme for each are as follows:

Dollard, Kenland, Pennacott,
Lakeland, & Chesapeake:

Foundation seed is eligible to produce
Certified seed.
Certified seed is for forage production
only.

Section 3. An application for certification of a field producing seed must be made each year a grower plans to produce certified seed. This application must be filed with the Seed Branch, State Department of Agriculture by June 15 accompanied by required fees.

1. No applications will be accepted after July 31, except seedling applications which should be submitted within 60 days after planting.
2. A penalty of \$10.00 per application for producing fields will be charged for applications received after June 15, and for seedling applications received 60 days after planting.
3. See Regulation 2 for additional information on applications and fees.

Section 4. Land requirements shall be as follows:

1. A field to be planted with Breeder seed for the production of Foundation seed must not have grown or have been seeded to Red Clover during the preceding 6 years, 3 years of which the land must have been cultivated.
2. A field to be planted with Foundation seed for the production of Certified seed must not have grown or have been seeded to Red Clover during the preceding 3 years.
3. A stand of Red Clover will not be eligible to produce any class of Certified seed after two seed crops. These crops may be produced either in the same or consecutive years.
4. Reseeding of a field on account of failure or partial failure of the first seeding may be done only with permission of the Seed Branch.
5. Ditchbanks, roadways, etc. adjacent to a Certified field must be free of volunteer Red Clover and noxious weeds.
6. Volunteer plants in the field may be cause for rejection or reclassification of a seed field.
7. No manure or contaminating material shall be applied 1 year preceding, or during the establishment and productive period of the stand.
8. A stand of Red Clover over 3 years old is not eligible for certification.

Section 5. Isolation requirements shall be as follows:

1. Red Clover for certification shall be isolated from all other Red Clover varieties or fields of the same variety not meeting varietal purity requirements for certification as follows:

RULES FOR SEED CERTIFICATION

Section 5 (Continued)

CLASS PLANTED	CLASS PRODUCED	FIELDS LESS THAN 5 ACRES	FIELDS 5 ACRES OR MORE
Breeder	Foundation	1,320 feet	1,320 feet
Foundation	Registered	900 feet	650 feet
Foundation	Certified	650 feet	390 feet
Registered	Certified	650 feet	350 feet

2. Isolation between different classes (generations) of the same variety shall be as follows:

CLASS PLANTED	CLASS PRODUCED	DISTANCE REQUIRED FROM THE NEAREST FIELD PLANTED WITH	
Breeder	Foundation	Foundation	330 feet
		Registered	660 feet
		Certified	660 feet
Foundation	Registered	Registered	165 feet
		Certified	165 feet

3. In cases where an adjoining field is planted with a different variety of Red Clover, or Red Clover of a lower class which requires more than mechanical isolation, isolation may be obtained by measuring off the required strip in the Certified field. The isolation strip must be mowed and not allowed to reach bloom stage.

Section 6. Field tolerances shall be as follows:

	FIELD PRODUCING		
	FOUNDATION	REGISTERED	CERTIFIED
Other Varieties (max.)	0.00%	0.20%	0.50%
Alfalfa (max.)	None	5 plants per acre	10 plants per acre
Sweet Clover (max.)	None	5 plants per acre	20 plants per acre

Red Clover fields must be free of weeds listed in Regulation 2, Section 8.

Section 7. Seed standards shall be as follows:

PURITY	FOUNDATION	REGISTERED	CERTIFIED Blue Tag
Pure seed (min.)	99.00%	99.00%	99.00%
Other crops (max.)	18 per lb.	0.10%	0.25%
Inert mat. (max.)	1.00%	1.00%	1.00%
Sweet Clover (max.)	9 per lb.	45 per lb.	90 per lb.
Wood seed (max.)	0.15%	0.15%	0.25%
Objectionable weed seeds - See Regulation 2, Section 9			
(max. total)	None	45 per lb.	90 per lb.

GERMINATION

(min. total germination and hard seeds)	85.00%	85.00%	85.00%
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Red Clover seed must be free of the seeds of the weeds listed in Regulation 2, Section 8.

Regulation 9. Sorghum Seed Certification Standards.

Section 1. The general seed certification standards, (Regulations 1 and 2), are basic and together with the following specific standards constitute the standards for certification of Sorghum seed.

RULES FOR SEED CERTIFICATION

Section 2. The varieties eligible and the certification scheme for each are as follows:

Double Dwarf White Sooner,	Foundation seed is eligible to produce
Double Dwarf Yellow Sooner, &	Registered seed.
Early Hogari:	Registered seed is eligible to produce
	Certified seed.
	Certified seed is eligible to produce
	Certified seed.

Section 3. The application for seed certification must be filed with Washington State Crop Improvement Association, Inc. by July 15.

1. The application must be accompanied by the application fee and the official certification tags, or the Certified Seed Bulk Sale Certificate, which were attached to the seed planted.
2. Late applications are acceptable from July 16 to August 15, only when accompanied by the late penalty fee.
3. The application fee for each variety is \$10.00 for 10 or fewer acres plus 50¢ for each additional acre.
 - (a) The late penalty fee is \$5.00 for each variety.
 - (b) Harvesting before field inspection causes forfeit of both the application fee and completion of certification.
 - (c) All or part of a field may be withdrawn from certification only upon written request by the applicant before field inspection. In such case, the application fee may be refunded upon request.
4. The reinspection fee is \$5.00 for each field which did not pass the second field inspection.
5. The final certification fee is at the rate of 7¢ per cwt. of the cleaned seed sampled.
6. The responsibility for payment of all fees rests with the applicant.

Section 4. Land must not have grown a Sorghum crop the preceding year, unless the previous crop was grown from an equal or higher certified seed class of the same variety.

Section 5. Sorghum fields for certification must be isolated by 1,000 feet from Sorghum fields of other varieties or of the same variety which do not meet the varietal purity requirement for certification.

Section 6. Field tolerances shall be as follows:

1. FACTOR	MAXIMUM PERMITTED IN EACH CLASS		
	FOUNDATION	REGISTERED	CERTIFIED
Other Varieties	None	1 head/50,000	1 head/20,000
Weeds: Bindweed, Johnson-grass	None	None	None
Head smut	None	None	1 head/10,000
Kernal smut	None	None	1 head/2,500

- (a) A portion of a field may be accepted for certification.
- (b) Requeing to remove crop and varietal mixture and to remove or prevent flowering of noxious weeds is required.
- (c) One field inspection will be made when the crop is in full bloom and one field inspection will be made when the seed begins to show mature color; certification will not be completed without at least one field inspection.

RULES FOR SEED CERTIFICATION

Section 7. Seed standards shall be as follows:

FACTOR	FOUNDATION	REGISTERED	CERTIFIED
Pure seed (min.)	97.00%	97.00%	97.00%
Other varieties (max.)	None	None	0.01% or 2 seeds/lb.
Inert mat. (max.)*	3.00%	3.00%	3.00%
Other crops (max.)	0.00	0.03%	0.07% or 10 seeds/lb.
Seed coat (max.)	0.10%	0.10%	0.10%
Prohibited noxious - Dodder & Dogbane	None	None	None
GERMINATION (min.)	80.00%	80.00%	80.00%

*Where 2.00% or more is cracked.

Regulation 10. Field Pea Seed Certification Standards.

Section 1. The general seed certification standards, (Regulation 1 and 2), are basic and together with the following specific standards constitute the standards for certification of Field Pea seed.

Section 2. The varieties eligible are as follows:

Alaska, Delwich Early Scotch, First and Best. Planting stock must consist of Breeder, Foundation, Registered, or Certified seed.

Section 3. The application for seed certification must be filed with Washington State Crop Improvement Association, Inc. by June 1.

1. The application must be accompanied by the application fee and the official certification tags, or the Certified Seed Bulk Sale Certificate, which were attached to the seed planted.
2. Late applications are acceptable from June 2 to July 15, only when accompanied by the late penalty fee.
3. The application fee for each variety is \$10.00 for 10 or fewer acres plus 50¢ for each additional acre.
 - (a) The late penalty fee is \$5.00 for each variety.
 - (b) Harvesting before field inspection causes forfeit of both the application fee and completion of certification.
 - (c) All or part of a field may be withdrawn from certification only upon written request by the applicant before field inspection. In such case, the application fee may be refunded upon request.
4. The reinspection fee is \$5.00 for each field which did not pass field inspection.
5. The final certification fee is at the rate of 7¢ per cwt. of the cleaned seed sampled.
6. The responsibility for payment of all fees rests with the applicant.

Section 4. Land must not have grown Field Pea crops the preceding 2 years, unless the previous crops were grown from certified seed of the same variety.

Section 5. Field Peas for certification must be isolated from pea fields planted with other varieties by a 40 foot margin.

RULES FOR SEED CERTIFICATION

Section 6. Field tolerances shall be as follows:

1. FACTOR	REGISTERED	CERTIFIED
Other varieties	10 plants/acre	20 plants/acre
Other inseparable crops	5 plants/acre	10 plants/acre
Austrian Peas, Rye, Vetch	None	Trace
Weeds: Bindweed	None	None

2. Where the acreage intended for certification is a portion of a larger field, this acreage must be separated by a 10 foot margin free of Field Pea plants. Regueing to remove other varieties and species of peas is required. The field inspection will be made when the seed crop is in full bloom.

3. Any condition such as excess weeds or lack of pest control may be cause for rejection of a field.

Section 7. Seed standards shall be as follows:

1. FACTOR	CERTIFIED
Pure seed (min.)	99.00%
Other varieties (max.)	1 seed/lb.
Weevil damage (max.)	1.00%
Inert mat. (max.)	1.00%
Other crops (max.)	3 seeds/lb.
Austrian Peas, Rye, Vetch	None
Wood seed (max.)	0.25%
Prohibited noxious & Dogbane	None
Objectionable noxious, Catchfly, & Nightshade (max.)	2 seeds/lb.
GERMINATION	
(min.)	90.00%

2. Either Certified Seed Bulk Sale Certificates, or official certification tags may be issued for Certified Field Pea seed, except that official certification tags must be sealed to bags of seed moved in commercial channels.

Regulation 11. Small Grain Seed Certification Standards.

Section 1. The general seed certification standards, (Regulations 1 and 2), are basic and together with the following specific standards constitute the standards for certification of Small Grain seed.

Section 2. The varieties eligible are as follows:

Barley:	Atlas, Belford, Gen, Hamchen, Heines Hanna, Olympia, Rufflyn, Valvon, White Winter
Oats:	Cody, Eagle, Markton, Overland, Shasta, Victory
Rye:	Abruzzi, Prolific, Rosen, White Soviet
Wheat:	Beart, Brewor, Hart, Columbia, Federation, Golden, Henry, Idead, Itama, Marfed, Ouar, Pilcrow, Sun

Foundation seed is eligible to produce Registered seed.
 Registered seed is eligible to produce Certified seed.
 Certified seed is eligible to produce Certified seed.
 Bulk Grade Certified seed is eligible to produce Certified seed.

Commencing with the 1961 crop, Registered seed must be planted for the production of Certified seed. For those varieties of which the amount of Registered seed is limited, Certified seed may be planted for the production of Certified seed.

Section 3. The application for seed certification must be filed with Washington State Crop Improvement Association, Inc. by June 1.

RULES FOR SEED CERTIFICATION

Section 3 (Continued)

1. The application must be accompanied by the application fee and the official certification tags, or the Certified Seed Bulk Sale Certificate, which were attached to the seed planted.
2. Late applications are acceptable from June 2 to July 15, only when accompanied by the late penalty fee.
3. The application fee for each variety is \$10.00 for 10 or fewer acres plus 50¢ for each additional acre.
 - (a) The late penalty fee is \$5.00 for each variety.
 - (b) Harvesting before field inspection causes forfeit of both the application fee and completion of certification.
 - (c) All or part of a field may be withdrawn from certification only upon written request by the applicant before field inspection. In such case, the application fee may be refunded upon request.
4. The reinspection fee is \$5.00 for each field which did not pass field inspection.
5. The final certification fee is at the rate of 7¢ per cwt. of the cleaned seed sampled.
6. The responsibility for payment of all fees rests with the applicant.

Section 4. Land must not have grown the same kind of Grain crop the preceding year, unless the previous Grain crop was grown from certified seed of the same variety.

Section 5. Isolation requirements shall be as follows:

1. Each Small Grain field for certification must be separated from other Small Grain fields by a margin to determine field boundaries and prevent mechanical mixture - A margin such as a fence, road, ditch, mowed swath, cultivated or uncropped strip, or crop other than Small Grain.
2. Rye fields for certification must be isolated by 40 rods (660 feet) from Rye fields of other varieties or of the same variety which do not meet the varietal purity requirement for certification.

Section 6. Field tolerances shall be as follows:

1. FACTOR	MAXIMUM PERMITTED IN EACH CLASS		
	FOUNDATION	REGISTERED	CERTIFIED
Other varieties	None	10 plants/acre	30 plants/acre
Other inseparable crops	None	10 plants/acre	20 plants/acre
Rye in Barley, Oats, or Wheat	None	None	None
Weeds: Bindweed, Quackgrass	None	None	None
All other Prohibited Noxious, Objectionable Noxious, Catch-Ely & Bogbane	Trace	Trace	Trace
Chemically controllable seed borne diseases	10 heads/A	20 heads/acre	40 heads/acre

2. Roguing to remove crop and varietal mixture and to remove or prevent flowering of noxious weeds is required.
3. The field inspection will be made when the seed crop is fully headed and of mature color, when varietal and crop mixtures can be determined.

RULES FOR SEED CERTIFICATION

Section 7. Seed standards shall be as follows:

1. FACTOR	(White Tag) FOUNDATION	(Purple Tag) REGISTERED	(Blue Tag) CERTIFIED	BULK GRADE CERTIFIED
Pure seed (min.)*	98.00%	98.00%	98.00%	96.00% 98.00% (Oats)
Other distinguishable varieties (max.)	None	1 seed/lb.	8 seeds/lb.	8 seeds/lb.
Inert mat. (max.)**	2.00%	2.00%	2.00%	4.00% 2.00% (Oats)
Stunt balls, (max.)	None	None	None	None
Other crops (max.)***	None	0.05%	0.10%	0.10%
Other Small Grain seeds (max.)	None	1/lb.	2/lb.	5/lb.
Prohibited Noxious Objectionable Noxious, Catchfly, Dogbane & Groundell	None	None	None	None
Wild Oats seeds (max.)	None	3/lb.	5/lb.	5/lb.
GERMINATION (min.)	85.00%	85.00%	90.00% 85.00% (Rye)	85.00% 70.00% (Rye)

*Minimum pure seed standard for Foundation, Registered, and Certified Rye is 96.00%.

**Minimum inert matter standard for Foundation, Registered, and Certified Rye is 4.00%.

***No Rye, Austrian Peas, or Vetch allowed in Barley, Oats, or Wheat. No Austrian Peas or Vetch allowed in Rye.

2. Bulk Grade class Certified seed is a subclass of Certified class which has less stringent seed standards, is ineligible for certification tags, but is eligible to plant for the production of Certified seed.
3. A set of Certified Seed Bulk Sale Certificate forms completed by the grower or dealer must accompany each sale of Bulk Grade class Certified seed and must be distributed per the legend on the certificate.
4. Certified Seed Bulk Sale Certificate forms, as executed in Section 7, Paragraph 3, may be substituted for certification tags in special situations where bagging, tagging, and sealing is impracticable.

Section 8. Cleaning, sampling, tagging, and sealing of certified seed by a grower who has his own cleaning equipment, and processes only his own seed which is stored on his own farm, is permitted.

1. The grower must draw a representative sample of not less than 5 pounds of the cleaned seed and submit it to an official seed laboratory, for purity and germination analyses.
2. If this sample meets seed standards, official certification tags and official seals will be delivered to the grower and must be attached to each bag of seed by the grower.
3. The Certifying Agency reserves the right to resample a lot sampled by a grower and to withdraw a lot from certification, if a significant discrepancy of the sample analyses is evident.

Regulation 12. Lotus Seed Certification Standards.

Section 1. The general seed certification standards, (Regulations 1 and 2), are basic and together with the following specific standards constitute the standards for certification of Lotus seed.

RULES FOR SEED CERTIFICATION

Section 2. The variety eligible and the certification scheme is as follows:

Cascade,
& Columbia:

Foundation seed is eligible to produce Registered seed.
Registered seed is eligible to produce Certified seed.
Certified seed is for forage production only.

Section 3. An application for certification of a field producing seed must be made each year a grower plans to produce certified seed. This application must be filed with the Seed Branch, State Department of Agriculture by June 15 accompanied by required fees.

1. No applications will be accepted after July 31, except seedling applications which should be submitted within 60 days after planting.
2. A penalty of \$10.00 per application for producing fields will be charged for applications received after June 15, and for seedling applications received 60 days after planting.
3. See Regulation 2 for additional information on applications and fees.

Section 4. Land requirements shall be as follows:

1. A field to be planted with Breeder seed for the production of Foundation seed must not have grown or have been seeded to Lotus during the preceding 5 years.
2. A field to be planted with Foundation seed for the production of Registered seed must not have grown or have been seeded to Lotus during the preceding 4 years.
3. A field to be planted with Foundation or Registered seed for the production of Certified seed must not have grown or have been seeded to Lotus during the preceding 3 years.
4. Reseeding of a field on account of failure or partial failure of the first seeding may be done only with permission of the Seed Branch.
5. Ditchbanks, roadways, etc. adjacent to a Certified field must be free of volunteer Lotus and noxious weeds.
6. Volunteer plants in the field may be cause for rejection or reclassification of a seed field.
7. No manure or other contaminating materials shall be applied 1 year preceding and during the establishment and productive period of the stand.
8. Certification shall be limited to stands not exceeding 5 years of age, except for a variety grown outside its region of adaptation, in which case certification shall be limited to stands not exceeding 3 years of age.

Section 5. Isolation requirements shall be as follows:

1. Lotus for certification shall be isolated from all other Lotus varieties or fields of the same variety not meeting varietal purity requirements for certification as follows:

RULES FOR SEED CERTIFICATION

Section 5 (Continued)

CLASS PLANTED	CLASS PRODUCED	FIELDS LESS THAN 5 ACRES	FIELDS 5 ACRES OR MORE
Breeder	Foundation	1,320 feet	1,320 feet
Foundation	Registered	900 feet	650 feet
Foundation	Certified	650 feet	350 feet
Registered	Certified	650 feet	350 feet

2. Isolation between different classes (generations) of the same variety shall be as follows:

CLASS PLANTED	CLASS PRODUCED	DISTANCE REQUIRED FROM THE NEAREST FIELD PLANTED WITH	
Breeder	Foundation	Foundation	300 feet
		Registered	660 feet
		Certified	660 feet
Foundation	Registered	Registered	165 feet
		Certified	165 feet
Foundation or Registered	Certified	Certified	165 feet

3. In cases where an adjoining field is planted with a different variety of Lotus, or Lotus of a lower class which requires more than mechanical isolation, isolation may be obtained by measuring off the required strip in the Certified field. The isolation strip must be mowed and not allowed to reach bloom stage.

Section 6. Field tolerances shall be as follows:

	FIELDS PRODUCING		
	FOUNDATION	REGISTERED	CERTIFIED
Other varieties (max.)	None	5 plants per acre	20 plants per acre
White Clover (max.)	None	5 plants per acre	10 plants per acre
Red Clover (max.)	None	3 plants per acre	7 plants per acre
Sweet Clover (max.)	None	None	20 plants per acre

Lotus fields must be free of weeds listed in Regulation 2, Section 8.

Section 7. Seed standards shall be as follows:

PURITY	FOUNDATION	REGISTERED	CERTIFIED Blue Tag
Pure seed (min.)	98.00%	98.00%	99.00%
Other crops (max.)	0.1%	0.2%	0.5%
Inert mat. (max.)	2.00%	2.00%	1.00%
Weed seed (max.)	0.2%	0.25%	0.3%
Sweet Clover (max.)	None	9 per lb.	90 per lb.
Objectionable weed seeds - See Regulation 2, Section 9 (max. total)	None	45 per lb.	90 per lb.
GERMINATION			
(min. total germination and hard seeds)	85.00%	85.00%	90.00%


Lotus seed must be free of the seeds of the weeds listed in Regulation 2, Section 8.

Joe Dwyer
 Joe Dwyer, Director
 Department of Agriculture

Signed at Olympia, Washington, this 5th day of April, 1961.

The adoption of Order No. 842 pertaining to the certification of Washington grown seed is necessary for the immediate preservation of the general welfare; to provide the required services and the financing for the required services including the services of field inspections, laboratory inspections, isolation requirements, the weed seed limitation requirements and other requirements necessary for the proper certification of Washington grown seed in order to preserve the reputation of Washington grown seed in the international markets.

Dated this 5th day of April, 1961.



Joe Dwyer, Director.