

Order #811 is superseded by Order #8~~1~~2, filed

4/6/61. See File 12, Docket 231.

Later orders 884

SEED DIVISION

Order No. 811

Superseding Orders No. 649, 678, 703, 715, 754, 785

I, Joe Dwyer, Director of Agriculture, State of Washington, after public notice and hearing held at Yakima and Olympia Washington, on March 25 and April 11, 1960, by virtue of authority vested in me by R. C. W. 15.48.160, Washington State Seed Law, do hereby supersede Order Nos. 649, 678, 703, 715, 754 and 785 to read as follows and constitute Rules for Seed Certification.

GENERAL RULES FOR SEED CERTIFICATION

PURPOSE OF CERTIFICATION

- I The purpose of seed certification is to maintain and make available to the public high quality seeds and propagation materials of superior crop-plant varieties, so grown and distributed as to insure genetic purity.
- II The word "SEED" as used in these General Rules shall be understood to include all propagation materials.

CERTIFYING AGENCY

Seed certification in the State of Washington is conducted by the Seed Branch, State Department of Agriculture, Yakima, Washington, in cooperation with the Institute of Agricultural Sciences, State College of Washington, the Division of Horticulture, State Department of Agriculture and the Washington State and International Crop Improvement Associations. The Seed Branch, State Department of Agriculture, is referred to as the "Certifying Agency" in these General Rules. The certification of horticultural plant-crops is conducted by the Division of Horticulture, State Department of Agriculture, Olympia, Washington.

CROPS CERTIFIED

- I The following crops are included in the Washington State certification program:

Alfalfa	Grains*	Raspberry Plants**
Beans	Peas*	Strawberry Plants**
Clover	Sorghum*	Potatoes**
Grasses		
Lotus		

*These crops are certified by the Washington State Crop Improvement Association, P. O. Box 617, Yakima, Washington.

**These crops are certified by the Horticulture Division, Washington State Department of Agriculture, P. O. Box 120, Olympia. Orders for certification of these crops are issued by the Horticulture Division.

- II The species and varieties of the above-named crops which are eligible for certification are listed in the rules for the individual crops.

CLASSES OF CERTIFIED SEED

- I Four classes (generations) of seed shall be recognized in the certification program, namely Breeder's, Foundation, Registered and Certified.
- II Breeder's seed or vegetative propagating material is directly controlled by the originating or the sponsoring plantbreeder or institution and provides the source for the initial and recurring increase of foundation seed.
- III Foundation seed shall be the progeny of breeder's seed or 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.

- IV Registered seed shall be the progeny of foundation seed that is so handled as to maintain satisfactory genetic identity and purity.
- V Certified seed shall be the progeny of foundation, registered or certified seed that is so handled as to maintain satisfactory genetic identity and purity.
- VI Foundation, registered and certified seed must meet the standards set up by the Certifying Agency, but at the discretion of said Agency, a grower may be permitted to continue production of registered or certified seed from lots of seed that were rejected because of factors which did not involve genetic identity and purity of germplasm.

SEED TESTING

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.

TAGS AND SEALS

- I All seed stocks, when sold as certified seed, shall have an official tag properly affixed to each container.
Sealing requirements will depend upon the crop and methods of handling.
- II The certification tag which is attached to the bags serves as evidence of the genetic identity and purity of the seed contained therein.
- III The following colored tags will be used to designate the class and quality of seed:

White for foundation seed
Purple or Lavender for registered seed
Blue for certified first quality

- IV White tag is also used for certified single drop (1-3 ozs.) seed potatoes. Bulk Certificates may be used for cereals, peas and other crops at the discretion of the Certifying Agency. The certificates are in triplicate. All official certification tags, and seals shall be affixed to seed containers under supervision of, or by a representative of the Certifying Agency.

FUNCTIONS OF THE CERTIFYING AGENCY

The Certifying Agency shall:

- I Conduct the certification program.
- II Maintain an adequately equipped and staffed seed laboratory for the testing of seed under the certification program.
- III Employ a staff of technically trained field inspectors.
- IV Inspect for approval all seed cleaning plants that process seed.
- V Promote as much as possible the production and use of certified seed, either direct or by assisting educational agencies.
- VI To reserve the right to refuse certification on any lot of seed if, in the opinion of the certifying office, the color or appearance of the seed might be detrimental to the certification program.

THE SEED GROWER

It is the responsibility of the Seed Grower:

- I To acquaint himself thoroughly with the certification program in general and the rules pertaining to his own crop in particular.
- II To show evidence of conscientious management of his seed crop in the field.
- III To consistently rogue contaminating crops, prohibited and restricted noxious weeds, and in general conduct an adequate weed control program.
- IV In harvesting, to use every precaution against crop and lot mixtures by practicing clean handling methods of the seed.
- V To have his seed cleaned at a plant which has been approved by the Certifying Agency.
- VI To identify his seed with his assigned field number stenciled on each bag or box he delivers to the processor.

THE SEED PROCESSING PLANT

- I It is the responsibility of every Processor of certified seed to register his place of business with the Seed Branch, Department of Agriculture, Yakima, Washington, as soon as his plant is ready to commence operation. An inspection will then be made by a representative of the Certifying Agency to determine if the plant shall be approved for the processing of certified seed. Subsequent inspections will be made periodically.

- II Upon approval of the plant by the Certifying Agency, the name of the establishment will be added to the "List of Approved Plants for Processing Certified Seed", and said list will be made available to growers of certified seed.
- III 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, the name of the establishment will be taken off the list of approved plants and the growers of certified seed notified of same.
- IV Certified seed must be handled in a manner so as to prevent mixture of lots.
- V 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.
- VI Installations must be easily accessible for inspection and cleaning.
- VII All certified seed must be clearly marked with lot number or other identification.
- VIII All certified seed must be bagged in new clean bags.
- IX Approval from Certifying Agency must be obtained for bulk handling of certified seed other than grain.
- X Disposal of screenings must be made in a manner so as to comply with the Washington State Seed Law.

SAMPLING

- I Each lot of seed that is eligible for certification must be sampled by a representative of the Certifying Agency for a laboratory analysis.
- II All of the seed of any given lot must be cleaned and in condition for sale at the time sampling is done.

SEED TREATMENT

If a seed treatment is available which may be applied to the seed in quantity to protect that seed from seed-borne diseases, it is desirable that the seed in question, sown to produce certified seed, be so treated.

SEED-BORNE DISEASES

Every field for which certification is requested shall show evidence that reasonable precaution has been taken to control seed-borne diseases. The field at the 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 samples of the finished seed crop shall be subjected to laboratory examinations for diseases.

COMPLYING WITH FEDERAL AND STATE SEED LAWS

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.

THE PROCESS OF SEED CERTIFICATION

Instructions and General Information to Growers

The following paragraphs are aimed at clarifying to the seed growers the process of seed certification as it is practiced in the State of Washington. If a Grower wishes to obtain more detailed information, he can do so by contacting the office of the Department of Agriculture, Seed Branch, Yakima, Washington.

PLANTING STOCK

The first step is to acquire eligible planting stock. Eligible seed is that, which carries the certification label on sealed bags. Seeds so labeled in states other than the State of Washington are eligible as well as Washington grown seeds, provided the certification standards in the states concerned are acceptable to the Washington Certifying Agency.

SELECTION AND PREPARATION OF FIELD

It is important to select a field which gives the best guarantee that seed grown on it will meet field standards for certification. Isolation and previous history are vital factors about which a grower should consult the rules for certification of a particular crop which he intends to plant before selecting the field. After proper selection is made, the field must be prepared for growing certified seed. This means proper working of the soil and eradication of prohibited weeds so that the seed can be planted in a clean field. Prohibited weeds are listed in the Rules for Certification.

Ditchbanks and roadways are often a source of contamination of farm land and each grower should carry on a clean-up program on these in order to keep his field free from the spread of weeds.

APPLICATION FOR CERTIFICATION

The grower should make application for certification within sixty days after planting. Application blanks are available at the local County Agent's office or at the office of the Department of Agriculture, Seed Branch, Yakima, Washington. Upon acceptance of the application, the field is registered at the office of the Seed Branch under a field number which remains the same for the life of the field. The reason for this early application is that a field inspection can be made to determine if the field will meet the standards for certification. There is no charge for a seedling inspection. (This applies to perennial crops only.) However, a charge will be made in cases where a crop of seed is harvested the first year a field is planted.

All applications for new plantings must be accompanied by certification tags of the seed stock or other evidence of eligibility for certification. In the case of annual crops the application fee must also be included.

A fee of \$10.00 will be charged on seedling applications received sixty days after planting date.

Seedling applications will not be acceptable more than six months after planting date.

YEARLY APPLICATION

For all perennial crops, application has to be made each year seed is harvested. (Time of application is specified in the Rules for Certification.)

MANAGEMENT OF SEED CROP

The primary requisite of the seed field is that it is kept free from weeds and contaminating crops. Since no seed is certified without a field inspection and the Certifying Agency is not able to pre-arrange for these inspections with individual Growers, the field must be ready for inspection at any time.

Where perennial crops are grown, it is essential to apply especially vigorous weed control the first year of planting. This will make control in subsequent years easier.

The importance of raising weed-free seed lies in the fact that weed seeds hamper the cleaning process, resulting in increased cleaning costs to the Grower with the additional danger that the seed might not meet purity standards. Contaminating crop mixtures such as red or sweet clover in alfalfa or vice versa and white clover mixtures, are as much of a hazard to the purity of seed as are weeds.

FIELD INSPECTION

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. A field inspection will be made each year that a crop of certified seed is produced.

If a field is rejected, the grower may apply for re-inspection after the cause for rejection has been corrected. No more than two re-inspections will be granted each field.

HARVESTING

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 shown on all bags as they are made up in the field in order that they may be identified at the cleaning plant.

SAMPLING AND TAGGING

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 certification seals.

WITHDRAWAL FROM CERTIFICATION

A Grower may of his own accord withdraw a field from certification if he thinks that it will not meet field standards. To do so, he must notify the Certifying

Agency of his intention before a field inspection is made. Upon notification of withdrawal the application fee will be credited to the Growers account or refunded upon request.

Copies of the rules for the different crops have been printed individually and can be obtained from the local County Agent or from the office of the Seed Branch, Department of Agriculture, Yakima.

PROHIBITED NOXIOUS WEEDS

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

Objectionable noxious weed seeds are seeds of weeds which are very objectionable in fields, lawns, or gardens but which can be controlled by good cultural practices including, but subject to additions or subtractions by the Director as herein prescribed, the seeds of:

OBJECTIONABLE WEEDS

English or Common Name	Botanical or Scientific Name
Perennial rag weed . . . . .	.Ambrosia psilostachya
Poverty weed (deathweed) . . . . .	.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
Fanweed. . . . .	.Thlaspi arvense
Yellow star-thistle . . . . .	.Centaurea solstitialis
Perennial nutgrass (nut sedge) . . . . .	.Cyperus rotundus
Puncturevine . . . . .	.Tribulus terrestris
Wild garlic (wild onion) . . . . .	.Allium vineale
St. Johnswort (Klamath-weed) . . . . .	.Hypericum perforatum
Halogetan . . . . .	.Halogetan glomeratus

RULES FOR CERTIFICATION OF ALFALFA SEED

ELIGIBILITY REQUIREMENTS

- I Only those varieties that are approved by the Institute of Agricultural Sciences, State College of Washington, the Washington State Department of Agriculture, and the Washington State Crop Improvement Association will be eligible for certification. Certified seed from states other than the State of Washington may be planted for certification if said states have standards acceptable to the Certifying Agency.
- II VARIETIES ELIGIBLE ARE: Grimm, Hardistan, Ladak, Buffalo, Ranger, Vernal, Narragansett, Du Puits, Lahontan, Alfa, Rambler and Culver. All plantings of Narragansett and Du Puits must be approved by the seed certifying agency prior to planting.
The list of eligible varieties is subject to change upon adequate notice to growers.
- III PLANTING STOCK:
- | | |
|---|---|
| Ranger, Buffalo, Rambler, and Narragansett: | <u>Foundation</u> seed is eligible to produce <u>Registered</u> seed. <u>Registered</u> seed is eligible to produce <u>Certified</u> seed. <u>Certified</u> seed is for forage production <u>only</u> . |
| Vernal, Lahontan, Alfa, Culver: | <u>Foundation</u> seed is eligible to produce <u>Certified</u> seed <u>only</u> . <u>Certified</u> seed is for forage production <u>only</u> . |
| Grimm, Ladak, Hardistan: | <u>Certified</u> seed is eligible to produce <u>Certified</u> seed. |
| Du Puits: | Seed production shall be limited to one generation increase from imported seed stock lots approved by the International Crop Improvement Association. |

RESTRICTIONS ON NUMBER OF VARIETIES PER FARM:

Where foundation, registered or certified seed is being produced, no other variety or strain of the same crop shall be grown for seed production on the same farm without prior approval of the Certifying Agency.

APPLICATION FOR CERTIFICATION:

- I Application for certification must reach the Seed Branch, State Department of Agriculture, Yakima, Washington, not later than June 15, accompanied by the application fee.
- II Application for new seedings must be accompanied by all the tags from the seed planted. Seedling applications must be filed with the Seed Branch, P. O. Box 617, Yakima, within sixty days after planting date. No fee is required for seedling applications, except a penalty of \$10.00 will be charged on seedling applications received more than sixty days after planting date. Seedling applications will not be acceptable more than six months after planting date. It is recommended that all new plantings are applied for when planted regardless of isolation, weed or other problems that may exist. A field will not be eligible for certification unless a seedling inspection has been made.
- III No applications will be accepted after July 31, except for seedling applications which should be applied for when planted.
- IV A penalty of \$10.00 per application for producing fields will be charged for applications received between June 15 and July 31.
- V A new application must be made for each year a field is in production.

FEEES

- I The APPLICATION FEE for alfalfa is \$10.00 for the first 10 acres or less and \$0.50 for each acre over ten.
- II The charge for PURITY AND GERMINATION analysis is \$2.00 and \$1.50 per sample respectively.
- III SAMPLING AND TAGGING FEES are based on the number of pounds of seed

sampled. The fees for sampling and tagging are 10¢ per 100 pounds and 15¢ per 100 pounds respectively.

- IV The schedule of charges for RESAMPLING AND RETAGGING will be a minimum of \$10.00 or 5¢ per bag plus 8¢ per mile for additional traveling required. The fee will be whichever is the greater. The fee for rebagging or blending shall be 5¢ per 100 pounds.
- V A fee of \$10.00 will be charged for each reinspection of a field that did not pass the first inspection.
- VI NO FEE shall be required for seedling applications except when seed is harvested the current season. In that case the grower will be charged \$5.00 per field of five acres to 20 acres and \$10.00 per field of 20 acres or more.

LAND REQUIREMENTS:

- I Land must be free from volunteer plants as determined by field inspection during the season in which the seeding is established. As an additional precaution, no manure or other contaminating amendments shall be applied during the establishment and productive period of the stand.
- II A field to be planted with BREEDER'S SEED OR (FOUNDATION SEED, for production of Registered) must not have grown or have been seeded to alfalfa during the preceding four years.
- III 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 two years.
- IV A field to be planted with Certified Blue Tag seed for certification must not have grown or have been seeded to alfalfa during the two previous years unless it is a replacement of a certified field of the same variety.
- V RESEEDING of a field on account of failure or partial failure of the first seeding may be done only by special arrangement with the Certifying Agency.
- VI DITCHBANKS, ROADWAYS, ETC., adjacent to a certified field must be free of volunteer alfalfa and noxious weeds.
- VII VOLUNTEER PLANTS in the field may be cause for rejection or reclassification of a seed field.
- VIII If a cereal crop is used as a nurse crop, it is recommended that only a certified cereal be used, to prevent introducing weeds or other crops.

FIELD INSPECTION

- I 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.
- II A field inspection will be made each year that a crop of certified seed is produced.
- III Field Inspections will take place while the crop is in blossom.
- IV No field will be certified unless a field inspection has been made.
- V 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.
- VI 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.
- VII 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.

FIELD STANDARDS

I ISOLATION from OTHER VARIETIES. 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's	Foundation	1,900 feet	1,900 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.

II ISOLATION between different classes (generation) of the same variety shall be as follows:

CLASS PLANTED	CLASS PRODUCED	DISTANCE REQUIRED FOR THE NEAREST FIELD PLANTED WITH	
Breeders	Foundation	Foundation	480 feet
		Registered	900 feet
		Certified	1,320 feet
Foundation	Registered	Registered	165 feet
		Certified	165 feet
Foundation	Certified	Certified	165 feet
		Registered	165 feet

III 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.

IV FIELD TOLERANCES. The following table specifies the maximum tolerance of other plants and varieties permissible at the time of field inspection:

	FIELDS PRODUCING		
	FOUNDATION	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 under "PROHIBITED NOXIOUS WEEDS" in the General Rules.

SEED STANDARDS

Following are the seed standards for alfalfa:

I	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 weeds See "General Rules" (max. total)	None	None	18 per lb.
II	GERMINATION			
	Minimum total germination and hard seed	80.00%	85.00%	85.00%
III	Foundation or registered seed that has been rejected in laboratory for primary noxious weed seeds will be reclassified to the certified blue tag class and will not be eligible for seed stock although it is re-cleaned and upon retesting meets certified standards.			
IV	All certified seed should be identified by the field number marked on each bag or container before leaving field. Seed not identified by field number will not be accepted for certification.			
	Alfalfa seed must be free of the PROHIBITED NOXIOUS WEEDS listed in the "General Rules".			

RULES FOR CERTIFICATION OF BEAN SEED

ELIGIBILITY REQUIREMENTS

- I Only those varieties that are approved by the Institute of Agricultural Sciences, State College of Washington, the Washington State Department of Agriculture and the Washington State Crop Improvement Association will be eligible for certification.
- Eligible seed from states other than the State of Washington may be planted for certification if those states have standards acceptable to the Certifying Agency.
- II ELIGIBLE VARIETIES:
 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, and Columbia
 Flat Small White: University of Idaho Numbers 1, 2
- As the list of eligible varieties is subject to change, other varieties may be eligible upon approval of the Certifying agency.
- III PLANTING STOCK must consist of Foundation, Registered or Certified blue tag quality seed.

APPLICATION FOR CERTIFICATION

- I Application for certification must reach the Seed Branch, State Department of Agriculture, Yakima, Washington, not later than July 1st accompanied by the application fee and the certification tags or other evidence of eligibility that was attached to the seed planted.
- II No applications will be accepted after July 15.
- III A penalty of \$10.00 per application will be charged growers who apply between July 1 and July 15.

FEEES

- I The APPLICATION FEE for Bean Seed is \$10.00 for ten acres or less and \$0.50 for each acre over ten.
- II The charge for PURITY and GERMINATION analyses is \$1.25 and \$1.40 per sample respectively.
- III SAMPLING and TAGGING FEES are based on the number of pounds of seed sampled. The fees for sampling and tagging are 5¢ per 100 pounds and 10¢ per 100 pounds respectively.
- IV The schedule of charges for Resampling and Retagging certified seed will be a minimum of \$10.00 or 5¢ per bag plus 8¢ per mile for additional traveling required. The fee will be whichever is the greater. The fee for rebagging shall be 5¢ per 100 pounds.
- V A fee of \$10.00 will be charged for reinspection of a field that did not pass the second inspection.

LAND REQUIREMENTS

- I 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.
- II A field will not be eligible for production of Certified seed for more than two consecutive years.

FIELD INSPECTION

- I 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.
- II No field will be certified without a field inspection.
- III The unit of certification will be the entire field standing at the time of inspection.

FIELD STANDARDS

- I Fields must be rogued of weeds, off-type plants, volunteer plants and plants showing symptoms of seed-borne diseases.
- II A field to be certified must have clean cultivated boundaries of at least ten feet wide.
- III 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.
- IV **SPECIFIC REQUIREMENTS:** Field Tolerances are as follows:

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%
Anthraxnose	None	.1%	.5%
Mosaic (Seed Borne)	None	.5%	.5%

- V A greenhouse test will 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, P. O. Box 617, Yakima, Washington, before December 31, of the current crop year.

The maximum test plot tolerances for seed-borne mosaic are:

	Foundation	Registered	Certified
	0%	0.50%	1.00%

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

SEED HANDLING

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.

SEED STANDARDS

PURITY AND GERMINATION

(Purity)	Foundation	Registered	Certified Blue Tag
Pure seed (Min.)	98.00%	99.00%	99.00%
Other Crops and Varieties	None	None	2 per 100#
Badly discolored (Max.)		1.00%	1.00%
Inert Matter (Max.)		1.00%	1.00%
Splits and cracks (Max.)		1.00%	1.00%
Weed seed (Max.)		None	None
Germination (Min.)		85.00%	85.00%

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.

RULES FOR CERTIFICATION OF GRASS SEED

ELIGIBILITY REQUIREMENTS

- I Only those species, sub-species, varieties, and strains that are approved by the Institute of Agricultural Sciences, State College of Washington, the Washington State Department of Agriculture, and the Washington State Crop Improvement Association will be eligible for certification.

II Eligible Grasses are:

Bentgrass: Astoria, Colonial, Highland, Seaside, Penncross**

Bluegrass: Sherman Big, Delta*, Merion*, Park*, Newport*.

Bromegrass: Manchar*, Lincoln*, Saratoga*, Lyon*, Bromar*.

Fescue: Alta*, Hard*, Chewings, Creeping Red, Varieties of Creeping Red: Olds, Illahee, Rainier, Pennlawn*,

Meadow Foxtail: Creeping*

Orchardgrass: Brage, S-143*, Akaroa, Potomac*, Latar*, Masshardy*, Pennlate*.

Ryegrass: Perennial.

Tall Meadow Oatgrass: Tualatin.

Timothy: Climax*, Drummond*

Wheatgrass: Greenar Intermediate*, Amur Intermediate, Topar Pubescent*, Sodar Streambank*, Whitmar Beardless, Primar Slender*, Standard Crested, Nordan Crested*, Fairway Crested*, Siberian*, Alkar Tall*.

The list of eligible varieties is subject to change upon adequate notice to growers.

* These varieties of grass will be certified on generation basis only. Planting stock for these varieties must consist of Breeders, Foundation, or Registered seed to produce seed eligible for certification. Certified class (Blue Tag) of these varieties is not eligible for certification.

** See specific rules for certification of Penncross Bentgrass.

III PLANTING STOCK

Breeder's seed produces foundation seed.

Foundation seed produces registered seed. Except for Pennlawn Creeping Red, Potomac Orchardgrass, Pennlate Orchardgrass, and Saratoga Smooth Bromegrass, in which case foundation seed will produce certified seed.

Registered seed produces certified seed.

Certified seed of grasses on generation sequence is for forage production only. Planting seed stock for varieties not certified on a generation-sequence must be at least of Blue Tag Class.

IV VEGETATIVE PLANTING STOCK:

Vegetative planting stock of grasses certified on a generation-sequence must originate in fields which have been planted with Breeder, Foundation or Registered seed and which have met certification field standards for these classes.

- (1) 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.
- (2) 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.
- (3) 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.
- (4) Fields shall be eligible to produce vegetative propagating material until:
 - (a) The field is two years old (or)
 - (b) Seed heads appear.

RE-CLASSIFICATION

Fields producing Foundation or Registered vegetative propagating materials may be re-classified to the next lower class based on age of stand or appearance of seed heads at the discretion of the Certifying Agency. All vegetative plantings must have approval of the Certifying Agency. (See supplemental grass rules for Penncross Bentgrass.)

RESTRICTION OF NUMBER OF GRASSES PER FARM

When Foundation, Registered, or Certified seed is being produced, no other grass closely related to the crop produced, shall be grown for seed production on the same farm without prior approval of the Certifying Agency.

APPLICATION FOR CERTIFICATION

- I Application for certification must reach the Seed Branch, State Department of Agriculture, Yakima, Washington, not later than May 15 for all grasses except Bentgrass, and June 15 for Bentgrass, accompanied by the application fee.
- II A penalty of \$10.00 per application for producing fields will be charged for applications received between May 15 and July 15 for all grasses except Bentgrass, and June 15 to July 15, for Bentgrass.
- III No application will be accepted after July 15 except for late summer and fall seedings.
- IV Application for new seedings must be accompanied by all the tags from the seed planted. Seedling applications must be filed with the Seed Branch, P. O. Box 617, Yakima, Washington, within 60 days after planting date. No fee is required for seedling applications except a penalty of \$10.00 will be charged on seedling applications received more than 60 days after planting date. Seedling applications will not be acceptable more than six months after planting date. It is recommended that all new plantings are applied for when planted regardless of isolation, weeds or other problems that may exist. A field may not be eligible for certification if a seedling inspection has not been made.
- V Application must be made each year if certification is desired.

LAND REQUIREMENTS

- I A field to be planted with Breeders seed must not have grown or have been seeded to the same species, sub-species, variety, or strain of grass during the preceding five years. The field must be planted in rows of at least 30-inch spacing and cultivated to maintain the rows.

- II A field to be planted with Foundation seed must not have grown or have been seeded to the same species, sub-species, variety, or strain of grass during the preceding three years.
- III A field to be planted with Registered or Certified seed must not have grown or have been seeded to the same species, sub-species, variety, or strain of grass during the preceding two years.
- IV A field to be planted with certified seed of a grass not certified on a generation-sequence may replace a certified field of the same species, variety and strain.
- V Vegetative plantings are subject to the same standards as seedings.
- VI Reseeding of a field on account of failure or partial failure at the first seeding may be done only by special arrangement with the Certifying Agency.
- VII Row-planting is recommended for all grass seed production.
- VIII 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.
- IX Growers will be permitted to plow out Merion 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.

FEEES

- I The APPLICATION FEE for all grasses is \$10.00 for ten acres or less and \$0.50 for each acre over ten.
- II Charges for Purity and Germination analyses are as follows:

<u>Crop</u>	<u>Purity Per Sample</u>	<u>Germ. Per Sample</u>
Bentgrass	\$6.00	\$2.00
Bluegrass	6.00	2.50
Bromegrass	3.50	1.50
Fescue: Chewings, Red, Hard .	3.00	1.75
Fescue: Alta	2.80	1.50
Meadow Foxtail	3.50	2.00
Orchardgrass	3.50	2.00
Tall Meadow Oatgrass	3.50	2.00
Ryegrass: English	2.50	2.00
Wheatgrass	3.50	1.50
Timothy	2.50	1.50

- III Sampling and tagging fees are based on number of pounds of seed sampled. The fees for sampling and tagging are 10¢ per 100 pounds and 15¢ per 100 pounds respectively.
- IV The schedule of charges for Resampling, Retagging, and Rebagging certified seed will be a minimum of \$10.00, or 5¢ per bag plus 8¢ per mile for additional traveling required. The fee will be whichever is the greater.
- V A fee of \$10.00 will be charged for each Re-inspection of a field that did not pass at the first inspection.
- VI NO FEE shall be required for seedling applications except when seed is harvested the current season. In that case the grower will be charged \$5.00 per field of five acres to 20 acres and \$10.00 per field of 20 acres or more.

FIELD INSPECTIONS

- I A seedling inspection will be made the first year a field has been planted.
- II A field inspection will be made at the time the grass is fully headed each year that a crop of certified seed is produced.

- III No field will be certified unless a field inspection has been made.
- IV The unit of certification is the entire field standing at the time of inspection.
- V If a field is rejected, the grower may apply for re-inspection after the cause for rejection has been corrected. No more than two re-inspections will be granted each field.

FIELD STANDARDS

I A seed field to be eligible for 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-fertil 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 each grass species.

II 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
Breeders	Foundation	Registered - - - 165 ft. Certified - - - 500 ft.
FOUNDATION	Registered	Certified - - - 165 ft.

III Specific Requirements:

Maximum other varieties permitted for all grasses except Bentgrass in fields producing:

Foundation 0% Registered 0.5% Certified 1%

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.

Grass fields must be free of the PROHIBITED NOXIOUS WEEDS listed in the "General Rules".

IV Specific Requirements for Vegetative Propagating Material:

A 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.

B Planting Stock Standards:

Pure living sprigs (Min. by count) - 95.0%

Other living plants (Max. by count) - 2.0%

Total Objectionable Weeds and Prohibited Noxious Weeds listed in "General Rules" - None

SEED STANDARDS FOR GRASSES

Crop and its type of Reproduction	Min % Germ Fndt. Reg.	Cert.	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.	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	10/50grams
wt. Brome	(S)	85	90	95	95	5	5	.1	.3(4)	.1	.5	1/50 grams	10/50grams
Alta Fescue	(C)	80	85	95	97	5	3	.1	.3	.1	.5	2/50 grams	10/50grams
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	10/50grams
Tall Oatgrass	(C)	75	75	90	95	10	5	.1	.3	.1	.5	1/50 grams	10/50grams
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
Mdw. foxtail	(C)	80	80	80	85	20	15	.1	.3	.1	.5	5/50 grams	15/50grams
Timothy	(C)	80	85	97	97	3	3	.1	.3	.1	.5	1/50 grams	5/50 grams

- (1) Not to exceed twenty-five hundredths of one per cent (.25%) other grass species for certified seed, except Bentgrass.
- (2) 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%.
- (3) 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.
- (4) 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%.
- (5) A tolerance of 3.00% common or other Kentucky-type bluegrass will be allowed in certified Merion Bluegrass.
- (6) 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%.
- (7) 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.

I Application and Inspection Fees:

1. Eligibility: To be eligible for certification a field must be planted as specified in the following rules with vegetative propagating materials of 10 (37) 4 (Pennlu), 9 (38) 5, and 11 (38) 4, strains of Creeping Bentgrass approved by the State Foundation Seed Representative and the certifying agency of the State of Washington, and must comply with State and Federal quarantine regulations.
2. Application fee: \$20 for one (1) acre or less; \$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 for ten acres or less and \$1.00 for each acre over ten.
3. Application: Application for certification must reach the Seed Branch, State Dept. of Agriculture, Yakima, Washington, prior to planting of the vegetative propagating materials accompanied by information as to the source of the planting stock.
4. Acceptance: No application will be accepted if the stock has been planted prior to approval of the certifying agency.

II Definitions:

1. Vegetative propagating material classes:
 - a. Breeders propagating material shall be the vegetative propagating materials directly controlled by the plant breeder and institution developing that material, and which provides the source for initial or recurring increases of foundation propagating material.
 - b. Foundation propagating material shall be that obtained from the Foundation seed Stocks of the originating station and shall come directly from Breeder propagating material.
 - c. 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.
 - d. Certified Seed is first generation seed produced by random hybridization of vegetatively planted parent strains of Creeping Bentgrass specified under Eligibility above, and is produced from fields planted systematically with breeder, foundation or certified propagating material of those strains of Creeping Bentgrass specified above.

III Requirements:

1. Land Requirements:
 - a. A field to be eligible for 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.
 - b. A field to be eligible for 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.
 - c. A field to be eligible for 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.
2. Isolation Requirements:
 - a. 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.
 - b. Fields producing vegetative planting stocks must be planted with Breeders 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 certifying agency.

c. Only seed grown on fields vegetatively planted systematically with Breeders, Foundation, or certified planting stocks in accordance with a planting plan furnished by the certifying agency shall be eligible for certification. The production of certified seed shall be limited to fields having:

1. Stands not more than 4 years of age.
2. Not more than 5% of accumulated volunteer and/or off-type plants.
3. Not less than 70% of the original stand of each parent row.

3. Specific Requirements:

- a. Flowering and seed production must be controlled on fields used for the production of vegetative propagation material.
- b. Maximum identifiable volunteer and/or other varieties permitted in fields producing:

<u>Foundation Vegetative Material</u>	<u>Certified Vegetative Material</u>	<u>Certified Seed</u>
0	10 plants per acre	25 plants per acre

4. Fields producing vegetative propagating material shall be inspected at least three times a year. Application and inspection are required each year regardless if propagation material is harvested or not.

IV Harvesting vegetative planting materials must be supervised by the certifying agency. A representative of the certifying agency 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.

V Number of Harvest years for vegetative propagating materials:

1. Production of foundation propagating materials shall be limited to fields having stands not more than two years of age.
2. Production of certified vegetative propagating material shall be limited to fields having stands not more than four years of age. Excessive weeds, poor stands, lack of vigor, appearance of volunteer plants, disease, or any other condition which is apt to effect 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.

VI Fields must be free of weeds listed under field standards of general grass seed certification standards.

VII Fields may be reclassified or rejected for one or more of the following reasons:

1. Accumulates excessive volunteer plants
2. Loss of more than 30 per cent of the original stand.
3. Failure to maintain proper isolation distance.
4. Not meeting minimum certification standards as established for grass seed certification.

VIII Planting stock standards:

Pure, Live Stolens excluding leaves Minimum	Total Inert Including Leaves	Other Living Plants	Noxious Weed Plants
Percent by Weight (green) 70	30	2	0

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

X Seed Standards:

Penncross Bentgrass seed shall meet minimum seed standards for Bentgrass as established by "Rules for Grass Seed Certification".

STANDARDS FOR BLENDING CERTIFIED GRASSES:

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.
4. Individual seed lots to be eligible for certified blending must not:
 - a. Inert - exceed two times the amount allowed in certification standards
 - b. Crop - exceed four times the amount allowed in certification standards
 - c. Weeds - exceed two times the amount allowed in certification standards
5. Germinations or tetrazolium on any one lot to be blended not to be less than 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 two percent 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 180 objectionable weeds per pound will not be allowed in the blend.
9. The fee for blending or re-bagging will be five cents per 100 pounds, payable by the firm or persons requesting said blend.

RULES FOR CERTIFICATION OF RED CLOVER SEED

ELIGIBILITY REQUIREMENTS

- I Only those varieties that are approved by the Institute of Agricultural Sciences, State College of Washington, the Washington State Department of Agriculture and the Washington State Crop Improvement Association will be eligible for certification. Eligible seed from states other than the State of Washington may be planted for certification, if those states have standards acceptable to the Certifying Agency.
- II VARIETIES ELIGIBLE ARE: Dollard, Kenland, Montgomery, Pennscott and Lakeland.
The list of eligible varieties is subject to change upon adequate notice to growers.
- III Planting Stock: Planting stock must consist of Breeders, Foundation or Registered seed in order to produce seed eligible for re-certification.

Breeders seed is eligible to produce Foundation seed.
Foundation seed is eligible to produce Certified seed.
(except for Montgomery, where Foundation seed produces Registered seed and registered seed produces Certified seed.)

RESTRICTIONS ON NUMBER OF VARIETIES PER FARM

Where foundation, registered or certified seed is being produced, no other variety or strain of the same crop shall be grown for seed production on the same farm, without prior approval of the Certifying Agency.

APPLICATION FOR CERTIFICATION

- I Application for certification must reach the Seed Branch, State Department of Agriculture, Yakima, Washington, not later than June 15, accompanied by the application fee.
- II Application for new seedings must be accompanied by all the tags from the seed planted. Seedling applications must be filed in the Seed Branch, P. O. Box 647, Yakima, within 60 days after planting date. No fee is required for seedling applications except a fee of \$10.00 will be charged on seedling applications received more than 60 days after planting date.

Seedling applications will not be acceptable more than six months after planting date. It is recommended that all new plantings are applied for when planted regardless of isolation, weed or other problems that may exist. A field will not be eligible for certification unless a seedling inspection has been made.

- III No application will be accepted after July 31 except application for new seedings, which should be applied for when planted.
- IV A penalty of \$10.00 per application for producing fields will be charged for applications received after June 15.
- V A new application must be made for each year a field is in production.

FEES

- I The application fee for Red Clover is \$10.00 for ten acres or less and \$0.50 for each acre over ten.
- II The charge for Purity and Germination analyses is \$2.50 and \$1.50 per sample respectively.
- III Sampling and tagging fees are based on the number of pounds of seed sampled. The fees for sampling and tagging are 10¢ per 100 pounds and 15¢ per 100 pounds respectively.
- IV The schedule of charges for Resampling and Retagging will be a minimum of \$10.00 or 5¢ per bag plus 8¢ per mile for additional traveling required. The fee will be whichever is the greater. The fee for rebagging or blending shall be 5¢ per 100 pounds.
- V A fee of \$10.00 will be charged for reinspection of a field that did not pass the previous inspection.
- VI No FEE shall be required for SEEDLING APPLICATIONS except when seed is harvested the current season. In that case the grower will be charged \$5.00 per field of one to twenty acres and \$10.00 per field of twenty acres or more.

LAND REQUIREMENTS

- I Breeders 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 years during three of which the land must be cultivated.
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 years during two of which the land must be cultivated.
- II Foundation or registered seed for the production of certified seed shall be planted only on land on which no Red Clover had been seeded or grown for at least the preceding three years except that the time interval may be shortened one year if one cultivated crop or clean fallow has intervened, and if the planting is of the same variety.
- III 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.
- IV Volunteer Plants. Volunteer plants may be cause for rejection or reclassification of a seed field.
- V Reseeding of a field on account of failure or partial failure of the first seeding may be done only by special arrangement with the Certifying Agency.
- VI Ditchbanks, roadways, etc., adjacent to a certified field, must be cleared of volunteer Red Clover and noxious weeds.
- VII No manure or contaminating material shall be applied one year preceding or during the establishment and productive period of the stand. Any grazing of livestock that permits the distribution of contaminating seed should not be permitted.
- VIII A stand of Red Clover over three years old is not eligible for certification.

FIELD INSPECTION

- I A seedling inspection will be made the first year a field has been planted. The inspection will be repeated in case the field produces seed during the same season.
- II A field inspection will be made each year that a crop of certified seed is produced.
- III The field inspection will take place while the crop is in blossom.
- IV No field will be certified unless a field inspection has been made.
- V The unit of certification will be the entire field standing at the time of inspection. A field or 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.
- VI If a field is rejected, the grower may apply for re-inspection after the cause for rejection has been corrected. No more than two re-inspections will be granted each field.

FIELD STANDARDS

- I Isolation from Other Varieties. Red Clover for certification shall be isolated from all other varieties of Red Clover as follows:

CLASS PLANTED	CLASS PRODUCED	Fields Less than 5 Acres	Fields 5 acres or more
Breeder's	Foundation	1,300 feet	1,300 feet
Foundation	Registered	900 feet	650 feet
Foundation	Certified	650 feet	350 feet
Registered	Certified	650 feet	350 feet

- II Isolation between Different Classes (generations) of the same variety. Red Clover of different classes of the same variety shall be isolated as follows:

CLASS PLANTED	CLASS PRODUCED	Distance Required From Nearest Field Planted with
Breeder's	Foundation	Foundation - - - - 330 feet
		Registered - - - - 660 feet
		Certified - - - - 660 feet
Foundation	Registered	Registered - - - - 165 feet
		Certified - - - - 165 feet

- III In cases where a neighboring farm produces a different variety of Red Clover, or Red Clover of a lower class which requires more than mechanical isolation, this isolation may be obtained by measuring off the required strip in the certified field, but no seed may be harvested from this strip.

- IV Field Tolerances. The following table specifies the maximum tolerances of other plants and varieties permissible at the time of field inspection:

	FIELD PRODUCING		
	Foundation	Registered	Certified
Other Crops and Varieties	0.00%	0.20%	0.50%
Alfalfa	None	5 plants per acre	10 plants per acre
Sweet Clover	None	5 plants per acre	20 plants per acre

Red Clover fields must be free of the "Prohibited Noxious Weeds" listed in the General Rules

SEED STANDARDS

Following are the seed standards for Red Clover:

I PURITY	Foundation	Registered	Certified Blue Tag
Pure seed (Minimum)	99.00%	99.00%	99.00%
Other Crops (Max.)	18 per lb.	0.10%	0.25%
Inert Matter (Max.)	1.00%	1.00%	1.00%
Sweet Clover (Max.)	9 per lb.	45 per lb.	90 per lb.
Weed Seed (Maximum)	0.15%	0.15%	0.25%
Objectionable Weeds* (Maximum Total)	None	45 per lb.	90 per lb.

II GERMINATION

Minimum total germination and hard seeds	85.00%	85.00%	85.00%
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Red Clover seed must be free of seeds of the PROHIBITED NOXIOUS WEEDS.

*Objectionable Weeds are listed in the "General Rules".

RULES FOR CERTIFICATION OF WHITE CLOVER SEED

ELIGIBILITY REQUIREMENTS

- I Only those varieties that are approved by the Institute of Agricultural Sciences, State College of Washington, the Washington State Department of Agriculture, and the Washington State Crop Improvement Association will be eligible for certification. Eligible seed from states other than the State of Washington may be planted for certification, if those states have standards acceptable to the Certifying Agency.
- II VARIETIES ELIGIBLE ARE: Pilgrim White Clover. The list of eligible varieties is subject to change upon adequate notice to growers.
- III PLANTING STOCK must consist of Breeders or Foundation seed in order to produce seed eligible for certification.
Breeders seed produces foundation seed.
Foundation seed produces certified seed.
Certified seed is for forage production only.

RESTRICTIONS ON NUMBER OF VARIETIES PER FARM

Where foundation or certified seed is being produced, no other variety or strain of the same crop shall be grown for seed production on the same farm, without prior approval of the Certifying Agency.

APPLICATION FOR CERTIFICATION

- I Application for certification must reach the Seed Branch, State Department of Agriculture, Yakima, Washington, not later than June 15, accompanied by the application fee.
- II A penalty fee of \$10.00 per application for producing fields will be charged for applications received between June 15 and July 31. No applications will be accepted after July 31 except for late summer and fall seedings.
- III Applications for new seedings must be accompanied by all the tags from the seed planted. Seedling applications must be made with the Certifying Agency within 60 days after planting date. A penalty of \$10.00 will be charged on seedling applications received more than 60 days after planting date. Seedling applications will not be acceptable more than six months after planting date.
- IV It is recommended that all new plantings are applied for when planted, regardless of isolation, weeds or other problems that may exist.
- V A new application must be made for each year a field is in production.

FEES

- I The application fee for White Clover is \$10.00 for ten acres or less and \$0.50 for each acre over ten.
- II The charge for Purity and Germination analysis is \$2.50 and \$1.50 per sample respectively.
- III Sampling and tagging fees are based on the number of pounds of seed sampled. The fees for sampling and tagging are 10¢ per 100 pounds and 15¢ per 100 pounds respectively.
- IV The schedule of charges for resampling, rebagging, and retagging certified seed will be a minimum of \$10.00 or 5¢ per bag plus 8¢ per mile for additional traveling required. The fee will be whichever is the greater.
- V A fee of \$10.00 will be charged for reinspection of a field that did not pass at the first inspection.
- VI No fee shall be required for seedling applications except when seed is harvested the current season. In that case the grower will be charged \$5.00 per field of one to twenty acres and \$10.00 per field of twenty acres or more.

LAND REQUIREMENTS

- I A field to be planted with Breeders seed for the production of foundation seed shall be planted only on land on which no White Clover plants of any type have ever grown insofar as possible to determine.
- II A field to be planted with Foundation 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 years, during two of which shall have been in a cultivated crop of clean fallow. On land seeded to a crop for the first time, cultivation requirement listed may be waived. No manure or contaminating material shall be applied during the year prior to seeding and establishment nor as long as the field is eligible for certification.
- III Length of Stand: Foundation or certified producing fields shall be eligible for certification for only two 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 two years.
- IV Volunteer Plants: Volunteer plants may be cause for rejection or reclassification of a seed field.
- V Reseeding of a field on account of failure or partial failure of the first seeding may be done only by special arrangement with the Certifying Agency.
- VI Ditchbanks, roadways, etc., adjacent to a certified field must be free of White Clover and noxious weeds.

FIELD INSPECTIONS

- I A seedling inspection will be made the first year a field has been planted. The inspection will be repeated in case the field produces seed during the same season.
- II A field inspection will be made at blossom time each year that a crop of certified seed is produced.
- III No field will be certified unless a field inspection is made.
- IV The unit of certification will be the entire field standing at the time of inspection. A field or a portion of a field may be certified if the area to be certified is clearly defined.
- V Portions of a field not meeting requirements for certification must not be allowed to reach the seed stage.
- VI If a field is rejected, the grower may apply for re-inspection after the cause for rejection has been corrected. No more than two re-inspections will be granted each field.

FIELD STANDARDS

- I Isolation from other White Clover: White Clover for certification shall be isolated from all other species or varieties and strains of White Clover as follows:

Class Planted	Class Produced	Fields Less than 5 acres	Fields 5 Acres or more
Breeder's	Foundation	1320 feet	1320 feet
Foundation	Certified	650 feet	450 feet

- II A field producing foundation seed must be isolated 660 feet from a field of the same variety or strain producing certified seed.
- III A field containing White Clover which cannot be guaranteed to be of the same variety or strain as the field planted for certification shall be considered to be of a different variety and treated as such in figuring isolation distances.
- IV Field Tolerances: The following field tolerances shall apply:

	FIELDS PRODUCING	
	<u>Foundation</u>	<u>Certified</u>
Other White Clover	None	10 plants per acre
Other Crops	None	20 plants per acre

SEED STANDARDS

Following are the seed standards for White Clover:

I	PURITY	Foundation	Certified
			Blue tag
	Pure seed (Minimum)	98.00%	99.00%
	Other Crops (Maximum)	.10%	.30%
	Inert matter (Maximum)	2.00%	1.00%
	Weed Seed (Maximum)	.10%	.30%
	Objectionable Weeds * (Max.)	10 per pound	90 per pound
	Sweet Clover	None	90 per pound
II	GERMINATION		
	Minimum total germination and hard seeds	85.00%	85.00%

White Clover fields and White Clover seed must be free of the "Prohibited Noxious Weeds".

*Objectionable Weeds are listed in the "General Rules".

SUPPLEMENT TO GENERAL RULES FOR SEED CERTIFICATION
AS APPLICABLE TO FIELD PEA, SMALL GRAIN, AND SORGHUM SEEDCROPS

I APPLICATION AND FEES

- A THE APPLICATION FOR SEED CERTIFICATION MUST BE COMPLETED AND SUBMITTED TO WASHINGTON STATE CROP IMPROVEMENT ASSOCIATION BY DATES AS FOLLOWS:
FIELD PEAS AND SMALL GRAINS - JUNE 1; SORGHUM - JULY 15
- 1 THE APPLICATION MUST BE ACCOMPANIED BY THE APPLICATION FEE AND THE OFFICIAL CERTIFICATION TAGS OR THE CERTIFICATE FOR SALE OF CERTIFIED SEED WHICH WERE ATTACHED TO THE SEED PLANTED.
 2. LATE APPLICATIONS ARE ACCEPTABLE PER DATES AS FOLLOWS ONLY WHEN ACCOMPANIED BY THE LATE PENALTY FEE:
FIELD PEAS AND SMALL GRAINS -- JUNE 2-JULY 15; SORGHUM -- JULY 16-AUGUST 15

B FEES

- 1 THE APPLICATION FEE FOR EACH VARIETY IS \$10 FOR TEN OR FEWER ACRES, PLUS 50¢ FOR EACH ADDITIONAL ACRE.
 - A THE LATE PENALTY FEE IS \$5 FOR EACH KIND OF CROP.
 - B HARVESTING BEFORE FIELD INSPECTION FORFEITS 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 IS MADE. IN SUCH CASE THE APPLICATION FEE MAY BE REFUNDED UPON REQUEST.
- 2 THE REINSPECTION FEE IS \$5 FOR EACH FIELD WHICH DID NOT PASS THE FIRST FIELD INSPECTION. (SORGHUM - SECOND FIELD INSPECTION)
- 3 THE FINAL CERTIFICATION FEE IS AT THE RATE OF 7¢ PER HUNDREDWEIGHT OF THE CLEANED SEED SAMPLED.
- 4 THE RESPONSIBILITY FOR PAYMENT OF ALL FEES RESTS WITH THE APPLICANT.

II SEED HANDLING -- SEED IS NOT CERTIFIED UNTIL IT HAS PASSED FIELD INSPECTION, HAS BEEN LABORATORY TESTED AND MEETS SEED STANDARDS, AND HAS BEEN TAGGED AND SEALED.

- A HARVESTING AND STORING WITH CLEANED EQUIPMENT AND FACILITIES IS REQUIRED.
- B PROCESSING, OR CLEANING, OF THE SEED BY A CLEANING PLANT WHICH HOLDS A PERMIT TO CLEAN CERTIFIED SEED ISSUED BY THE CERTIFYING AGENCY IS REQUIRED. CLEANED SEED MUST BE BAGGED IN NEW BAGS MARKED WITH ITS LOT NUMBER.
- C A REPRESENTATIVE SAMPLE OF THE CLEANED SEED WILL BE DRAWN BY THE CERTIFYING AGENCY OR ITS REPRESENTATIVE AND SUBMITTED TO ONE OF THE FOLLOWING OFFICIAL SEED LABORATORIES:

WASHINGTON STATE SEED LABORATORY	SEED LABORATORY
Post Office Box 617	WASHINGTON STATE UNIVERSITY
YAKIMA, WASHINGTON	PULLMAN, WASHINGTON
- D TESTING OF THE SAMPLE BY AN OFFICIAL SEED LABORATORY TO DETERMINE WHETHER A LOT OF SEED MEETS SEED STANDARDS IS REQUIRED. (SEED LABORATORY CHARGES FOR PURITY AND GERMINATION ANALYSES ARE BILLED BY THE LABORATORY.)
- E TAGGING AND SEALING OF SEED MEETING SEED STANDARDS WITH OFFICIAL CERTIFICATION TAGS AND OFFICIAL SEALS WILL BE DONE BY THE CERTIFYING AGENCY OR ITS REPRESENTATIVE. (LABELING FOR PURITY AND GERMINATION ANALYSIS IS THE SELLER'S RESPONSIBILITY.)
- F CLEANING, SAMPLING, AND 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 FIVE 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 FOR CERTIFICATION IF A SIGNIFICANT DISCREPANCY OF THE SAMPLE ANALYSES IS EVIDENT.

WASHINGTON FIELD PEA SEED CERTIFICATION STANDARDS

I APPLICATION AND AMPLIFICATION OF GENERAL CERTIFICATION

THE GENERAL RULES FOR SEED CERTIFICATION, AS ADOPTED BY THE WASHINGTON STATE CROP IMPROVEMENT ASSOCIATION AND PUBLISHED BY THE SEED BRANCH, (STATE) DEPARTMENT OF AGRICULTURE, ARE BASIC AND TOGETHER WITH THE SUPPLEMENT THERETO AND THE FOLLOWING SPECIFIC STANDARDS CONSTITUTE THE STANDARDS FOR CERTIFICATION OF FIELD PEA SEED.

II ELIGIBILITY REQUIREMENTS

- A VARIETIES ELIGIBLE: ALASKA, DELWICHE EARLY SCOTCH, FIRST AND BEST.
- B PLANTING STOCK MUST CONSIST OF BREEDER, FOUNDATION, REGISTERED OR CERTIFIED SEED FROM WASHINGTON OR FROM OTHER STATES WITH CERTIFICATION STANDARDS ACCEPTABLE TO THE CERTIFYING AGENCY.
- C LAND MUST NOT HAVE GROWN FIELD PEA CROPS THE PRECEDING TWO YEARS UNLESS THE PREVIOUS CROPS WERE GROWN FROM CERTIFIED SEED OF THE SAME VARIETY.

III FIELD STANDARDS

A GENERAL REQUIREMENTS

- 1 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.
- 2 ROGUEING TO REMOVE OTHER VARIETIES AND SPECIES OF PEAS IS REQUIRED.
- 3 THE FIELD INSPECTION WILL BE MADE WHEN THE SEEDCROP IS IN FULL BLOOM.
- 4 PEA FIELDS FOR CERTIFICATION MUST BE ISOLATED FROM PEA FIELDS PLANTED WITH OTHER VARIETIES BY A 40-FOOT MARGIN ON WHICH NO PEAS ARE PLANTED.
- 5 ANY CONDITION SUCH AS EXCESS WEEDS OR LACK OF PEST CONTROL MAY BE CAUSE FOR REJECTION OF A FIELD.

B SPECIFIC REQUIREMENTS FOR FIELD TOLERANCES

FACTOR	MAXIMUM PERMITTED IN EACH CLASS	
	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

IV SEED STANDARDS

A TABLE OF SPECIFIC STANDARDS

FACTOR	CERTIFIED
PURE SEED, MINIMUM	99.00%
OTHER VARIETIES, MAXIMUM	1 SEED/LB
WEEVIL DAMAGE, MAXIMUM	1.00%
INERT MATTER, MAXIMUM	1.00%
OTHER CROP SEED, MAXIMUM	3 SEEDS/LB
AUSTRIAN PEAS, RYE AND VETCH	NONE
WEED SEED, MAXIMUM	0.25%
PRIMARY NOXIOUS, DODDER AND DOGBANE	NONE
SECONDARY NOXIOUS (BESIDES DODDER), CATCHFLY, NIGHTSHADE, WILD OATS	2 SEEDS/LB
GERMINATION, MINIMUM	90.00%

- B EITHER CERTIFICATES FOR SALE OF CERTIFIED SEED 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.

WASHINGTON SMALL GRAIN SEED CERTIFICATION STANDARDS

I APPLICATION AND AMPLIFICATION OF GENERAL CERTIFICATION STANDARDS

THE GENERAL RULES FOR SEED CERTIFICATION, AS ADOPTED BY THE WASHINGTON STATE CROP IMPROVEMENT ASSOCIATION AND PUBLISHED BY THE SEED BRANCH, (STATE) DEPARTMENT OF AGRICULTURE, ARE BASIC AND TOGETHER WITH THE SUPPLEMENT THERETO AND THE FOLLOWING SPECIFIC STANDARDS CONSTITUTE THE STANDARDS FOR CERTIFICATION OF SEED OF THE FOLLOWING SMALL GRAIN CROPS: BARLEY, OATS, RYE, AND WHEAT.

II ELIGIBILITY REQUIREMENTS

A VARIETIES OF CROPS ELIGIBLE:

- KIND OF CROP -- BARLEY: ATLAS, BELFORD, GEN, HANNCHEN, HEINES HANNA, OLYMPIA, RUFFLYN, VELVON, WHITE WINTER.
- KIND OF CROP -- OATS: CODY, EAGLE, MARKTON, OVERLAND, SHASTA, VICTORY.
- KIND OF CROP -- RYE: ABRUZZI, PROLIFIC, ROSEN, WHITE SOVIET.
- KIND OF CROP -- WHEAT: BAART, BREVOR, BURT, COLUMBIA, FEDERATION, GOLDEN, HENRY, IDAED, ITANA, MARFED, OMAR, SUN.

- B PLANTING STOCK MUST CONSIST OF BREEDER, FOUNDATION, REGISTERED OR CERTIFIED SEED FROM WASHINGTON OR FROM OTHER STATES WITH CERTIFICATION STANDARDS ACCEPTABLE TO THE CERTIFYING AGENCY.

CLASSES OF CERTIFIED SMALL GRAIN SEED

PLANTED	ELIGIBLE TO PRODUCE
BREEDER	(WHITE TAG) FOUNDATION
(WHITE TAG) FOUNDATION	(PURPLE TAG) REGISTERED
(PURPLE TAG) REGISTERED	(BLUE TAG) CERTIFIED
(BLUE TAG) CERTIFIED	(BLUE TAG) CERTIFIED
BULK GRADE CERTIFIED	(BLUE TAG) CERTIFIED

COMMENCING WITH 1961 CROP, REGISTERED SEED MUST BE PLANTED FOR THE PRODUCTION OF CERTIFIED SEED. FOR THOSE VARIETIES OF WHICH THE AMOUNT OF REGISTERED SEED IS LIMITING, CERTIFIED SEED MAY BE PLANTED FOR THE PRODUCTION OF CERTIFIED SEED.

- C 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.

III FIELD STANDARDS

A GENERAL REQUIREMENTS

- 1 ROGUEING TO REMOVE CROP AND VARIETAL MIXTURE AND TO REMOVE OR PREVENT FLOWERING OF NOXIOUS WEEDS IS REQUIRED.
- 2 THE FIELD INSPECTION WILL BE MADE WHEN THE SEEDCROP IS FULLY HEADED AND OF MATURE COLOR, WHEN VARIETAL AND CROP MIXTURES CAN BE DETERMINED.
- 3 ISOLATION
 - A 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.
 - B 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.

B SPECIFIC REQUIREMENTS FOR FIELD TOLERANCES

FACTOR	MAXIMUM PERMITTED IN EACH CLASS		
	FOUNDATION	REGISTERED	CERTIFIED
OTHER VARIETIES	NONE	10 PLANTS/A	30 PLANTS/A
OTHER INSEPARABLE CROPS	NONE	10 PLANTS/A	20 PLANTS/A
RYE IN BARLEY, OATS, OR WHEAT	NONE	NONE	NONE
WEEDS: BINDWEED, QUACKGRASS	NONE	NONE	NONE
ALL OTHER PRIMARY AND SECONDARY NOXIOUS CATCHFLY, DOGBANE, WILD OATS	TRACE	TRACE	TRACE
CHEMICALLY CONTROLLABLE SEEDBORNE DISEASES	10 HEADS/A	20 HEADS/A	40 HEADS/A

IV SEED STANDARDS

A TABLE OF SPECIFIC STANDARDS

FACTOR	STANDARDS FOR EACH CLASS			
	(WHITE TAG) FOUNDATION	(PURPLE TAG) REGISTERED	(BLUE TAG) CERTIFIED	BULK GRADE CERTIFIED
PURE SEED, MINIMUM ¹	98.00%	98.00%	98.00%	96.00% 98.00% (OATS)
OTHER DISTINGUISHABLE VARIETIES, MAXIMUM	NONE	1 SEED/LB	8 SEEDS/LB	8 SEEDS/LB
INERT MATTER, MAXIMUM ²	2.00%	2.00%	2.00%	4.00% 2.00% (OATS)
SMUT BALLS, MAXIMUM ³	NONE	NONE	NONE	NONE
OTHER CROP SEED, MAXIMUM ³	NONE	0.05%	0.10%	0.10%
OTHER SMALL GRAIN SEEDS, MAX.	NONE	1/LB	2/LB	5/LB
WEED SEED, MAXIMUM	NONE	0.05%	0.05%	0.10%
PRIMARY NOXIOUS AND DODDER SEEDS, MAXIMUM	NONE	NONE	NONE	NONE
SECONDARY NOXIOUS (BESIDES DODDER) CATCHFLY, DOGBANE AND GROMWELL SEEDS, MAXIMUM	3/LB	3/LB	5/LB	5/LB
WILD OAT SEEDS MAXIMUM	NONE	NONE	3/LB	5/LB
GERMINATION, MINIMUM	85.00%	85.00%	90.00% 85.00 (RYE)	85.00% 70.00 (RYE)

B 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.

- 1 A SET OF CERTIFICATE FOR SALE OF CERTIFIED SEED FORMS COMPLETED BY THE GROWER OR DEALER MUST ACCOMPANY EACH SALE OF BULK GRADE CLASS CERTIFIED SEED AND MUST BE DISTRIBUTED PER THE LEGENT ON THE CERTIFICATE.
- 2 CERTIFICATE FOR SALE OF CERTIFIED SEED FORMS AS EXECUTED IN PARAGRAPH IV, B, 1, ABOVE, MAY BE SUBSTITUTED FOR CERTIFICATION TAGS IN SPECIAL SITUATIONS WHERE GAGGING, TAGGING, AND SEALING IS IMPRACTICABLE.

THE GROWER IS REFERRED TO THE "GENERAL RULES FOR SEED CERTIFICATION" FOR ADDITIONAL INFORMATION PERTAINING TO ALL CROPS CERTIFIED.

- 1 MINIMUM PURE SEED STANDARD FOR FOUNDATION, REGISTERED, AND CERTIFIED RYE IS 96.00%
- 2 MAXIMUM INERT MATTER STANDARD FOR FOUNDATION, REGISTERED, AND CERTIFIED RYE IS 4.00%.
- 3 NO RYE, AUSTRIAN PEAS, OR VETCH ALLOWED IN BARLEY, OATS OR WHEAT. NO AUSTRIAN PEAS OR VETCH ALLOWED IN RYE.

WASHINGTON SORGHUM SEED CERTIFICATION STANDARDS

I APPLICATION AND AMPLIFICATION OF GENERAL CERTIFICATION STANDARDS

THE GENERAL RULES FOR SEED CERTIFICATION, AS ADOPTED BY THE WASHINGTON STATE CROP IMPROVEMENT ASSOCIATION AND PUBLISHED BY THE SEED BRANCH, (STATE) DEPARTMENT OF AGRICULTURE, ARE BASIC AND TOGETHER WITH THE SUPPLEMENT THERETO AND THE FOLLOWING SPECIFIC STANDARDS CONSTITUTE THE STANDARDS FOR CERTIFICATION OF SORGHUM SEED.

II ELIGIBILITY REQUIREMENTS

- A VARIETIES ELIGIBLE: DOUBLE DWARF SOONER, DOUBLE DWARF YELLOW SOONER, EARLY HEGARI
- B PLANTING STOCK MUST CONSIST OF BREEDER, FOUNDATION, REGISTERED OR CERTIFIED SEED FROM WASHINGTON OR FROM OTHER STATES WITH CERTIFICATION STANDARDS ACCEPTABLE TO THE CERTIFYING AGENCY.
- C 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.

III FIELD STANDARDS

A GENERAL REQUIREMENTS

- 1 A PORTION OF A FIELD MAY BE ACCEPTED FOR CERTIFICATION.
- 2 ROGUEING TO REMOVE CROP AND VARIETAL MIXTURE AND TO REMOVE OR PREVENT FLOWERING OF NOXIOUS WEEDS IS REQUIRED.
- 3 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.
- 4 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.

B SPECIFIC REQUIREMENTS FOR FIELD TOLERANCES

FACTOR	MAXIMUM PERMITTED IN EACH CLASS		
	FOUNDATION	REGISTERED	CERTIFIED
OTHER VARIETIES	NONE	1 HEAD/50,000	1 HEAD/20,000
WEEDS: BINDWEED, JOHNSONGRASS	NONE	NONE	NONE
HEAD SMUT	NONE	NONE	1 HEAD/10,000
KERNEL SMUT	NONE	NONE	1 HEAD/2,500

IV SEED STANDARDS

FACTOR	STANDARDS FOR EACH CLASS		
	FOUNDATION	REGISTERED	CERTIFIED
PURE SEED, MINIMUM	97.00%	97.00%	97.00%
OTHER VARIETIES, MAXIMUM	NONE	NONE	0.01% OR 2 SEEDS/LB
INERT MATTER, MAXIMUM	3.00% ¹	3.00%	3.00% ¹
OTHER CROP SEED, MAXIMUM	0.00%	0.03%	0.07% OR 10 SEEDS/LB
WEED SEED, MAXIMUM	0.10%	0.10%	0.10%
PRIMARY NOXIOUS, DODDER & DOGBANE	NONE	NONE	NONE
GERMINATION, MINIMUM	80.00%	80.00%	80.00%

¹ WHERE 2.00% OR MORE IS CRACKED.

THE GROWER IS REFERRED TO "GENERAL RULES FOR SEED CERTIFICATION" FOR ADDITIONAL INFORMATION PERTAINING TO ALL CROPS CERTIFIED.

RULES FOR CERTIFICATION OF LOTUS SEED

ELIGIBILITY REQUIREMENTS

- I Only those varieties that are approved by the Institute of Agricultural Sciences, State College of Washington, The Washington State Department of Agriculture and the Washington State Crop Improvement Association will be eligible for certification. Eligible seed from states other than the State of Washington may be planted for certification, if those states have standards acceptable to the Certifying Agency.
- II VARIETIES ELIGIBLE ARE: Lotus corniculatus--Cascade, Lotus major--Columbia.
The list of eligible varieties is subject to change upon adequate notice to growers.
- III PLANTING STOCK must consist of Breeder's, Foundation or Registered seed in order to produce seed eligible for re-certification. Breeder's seed is the seed released by the Plant Breeder to the Experiment Stations; it produces foundation seed. Foundation seed produces registered seed and this in turn produces certified seed. Certified seed is for forage production only.
When a variety is grown outside the designated region of adaptation certification shall be limited to one generation from foundation or registered seed. The seed produced shall be the certified class.

RESTRICTIONS ON NUMBER OF VARIETIES PER FARM

Where foundation, registered or certified seed is being produced, no other variety or strain of the same crop shall be grown for seed production on the same farm without prior approval of the Certifying Agency.

APPLICATION FOR CERTIFICATION

- I Application for certification must reach the Seed Branch, State Department of Agriculture, Yakima, Washington, not later than June 15, accompanied by the application fee.
- II Application for new seedings must be accompanied by all the tags from the seed planted. Seedling applications must be made with the Seed Branch, P. O. Box 617, Yakima, within 60 days after planting date. No fee is required for seedling applications except a penalty of \$10.00 will be charged on seedling applications received more than 60 days after planting date. Seedling applications will not be acceptable more than six months after planting date. It is recommended that all new plantings are applied for when planted regardless of isolation, weeds, or other problems that may exist.
- III No applications will be accepted after July 31, except for late summer and fall seedings.
- IV A penalty of \$10.00 per application for producing fields will be charged for applications received between June 15 and July 31.
- V A new application must be made for each year a field is in production.

FEEES

- I The APPLICATION FEE for Lotus is \$10.00 for ten acres or less and \$0.50 for each acre over ten.
- II The charge for PURITY and GERMINATION analyses is \$2.50 and \$1.50 per sample respectively.
- III SAMPLING and TAGGING fees are based on the number of pounds of seed sampled. The fees for sampling and tagging are 10¢ per 100 pounds and 15¢ per 100 pounds respectively.
- IV The schedule of charges for Resampling and Retagging certified seed will be a minimum of \$10.00, or 5¢ per bag plus 8¢ per mile for additional traveling required. The fee will be whichever is the greater.
- V A fee of \$10.00 will be charged for Re-inspection of a field that did not pass at the first inspection.

LAND REQUIREMENTS

- I Breeder's seed for the production of foundation seed shall be planted on land on which no Lotus was grown or planted during the five years prior to the one in which the present stand was planted.

Foundation Seed for the production of registered or certified seed shall be planted on land on which no Lotus was grown or planted during the 4 years prior to the one in which the present stand was planted.
A field to be planted with registered seed must not have grown or have been seeded to Lotus the preceding three years.
- II During the year immediately prior to seeding the land shall have been in a cultivated crop and the land shall be free of volunteer plants as determined by field inspection during the season in which the seeding is established. No manure or other contaminating amendments shall be applied during the established and productive life of the stand.
- III **LENGTH OF STAND:** Certification shall be limited to stands not exceeding five years of age except for a variety grown outside its region of adaptation, in which case certification shall be limited to stands not exceeding three years of age.
- IV **VOLUNTEER PLANTS:** Volunteer plants may be cause for rejection or re-classification of a seed field.
- V **RESEEDING** of a field on account of failure or partial failure at the first seeding may be done only by special arrangement with the Certifying Agency.
- VI Excessive weeds, lack of vigor or uniformity of stand, or poor management of the seed field may be cause for rejection.
- VII Areas immediately adjacent to the field must be free of volunteer Lotus and noxious weeds.

FIELD INSPECTIONS

- I A seedling inspection will be made the first year a field has been planted.
- II A field inspection will be made at blossom time each year that a crop of certified seed is produced.
- III No field will be certified unless a field inspection has been made.
- IV The unit of certification will be the entire field standing at the time of inspection.
- V If a field is rejected, the grower may apply for re-inspection after the cause for rejection has been corrected. No more than two re-inspections will be granted each field.

FIELD STANDARDS

- I **ISOLATION.** Lotus for certification shall be isolated from all other species and varieties of Lotus as follows:

CLASS PLANTED	CLASS PRODUCED	Fields less than 5 acres	Fields 5 Acres or more
Breeder's	Foundation	1,600 feet	1,600 feet
Foundation	Registered	900 feet	650 feet
Foundation	Certified	650 feet	350 feet
Registered	Certified	650 feet	350 feet

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

Class Planted	Class Produced	Distance Required from Nearest Field Planted with
Breeder's	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

III FIELD TOLERANCES. The following table specifies the maximum tolerances of other plants and varieties permissible at the time of field inspection.

Fields Producing	Foundation	Registered	Certified
Other varieties or off-type plants	None	5 plants per acre	20 plants per acre
White Clover	None	5 plants per acre	10 plants per acre
Red Clover	None	3 plants per acre	7 plants per acre
Sweet Clover	None	None	20 plants per acre

Lotus fields must be free of weeds listed under PROHIBITED NOXIOUS WEEDS in the "General Rules".


SEED STANDARDS

Following are the seed standards for Lotus:

I PURITY	Foundation	Registered	Certified Blue tag
Pure seed (minimum)	98.00%	98.00%	99.00%
Other Crops (maximum)	0.1 %	0.2 %	0.5 %
Inert Matter (Maximum)	2.00%	2.00%	1.00%
Weed Seed (Maximum)	0.2%	0.25%	0.3%
Sweet Clover (Maximum)	None	9 per pound	90 per pound
Objectionable Weeds* (Max)	None	45 per pound	90 per pound
II GERMINATION:			
Minimum total germination and hard seed	85.00%	85.00%	90.00%

Lotus seed must be free of seeds of the weeds listed under PROHIBITED NOXIOUS WEEDS in the "General Rules".

THE GROWER IS REFERRED TO THE "GENERAL RULES FOR SEED CERTIFICATION" FOR ADDITIONAL INFORMATION AS PERTAINING TO ALL CROPS CERTIFIED.


 Joe Dwyer, Director
 Department of Agriculture

Signed at Olympia, Washington, this 15 day of April, 1960.