

STATE OF WASHINGTON
 DEPARTMENT OF AGRICULTURE
 Sverre N. Omdahl, Director
 Olympia

SEED DIVISION

Order No. 715

Superseding Order No. 649

I, Sverre N. Omdahl, Director of Agriculture of the State of Washington, by virtue of the authority vested in me by R.C.W. 15.48.160, Washington State Seed Law, do hereby modify and amend Order No. 649 to constitute the 1955 Rules for Seed Certification in the State of Washington.

RULES FOR CERTIFICATION OF BEANS

Eligibility Requirements:

No Change

Application for Certification:

No Change

Fees:

- I-No change.
- II-No change.
- III-Change paragraph III as follows:
 Sampling and tagging fees are based on the number of pounds of seed sampled.
- IV-Add to paragraph IV: The fee for rebagging shall be 5¢ per 100 pounds.
- V-Change paragraph V as follows: A fee of \$10.00 will be charged for reinspection of a field that did not pass the second inspection.

Land Requirements:

No change.

Field Inspection:

No change.

Field Standards:

- I- Change paragraph I as follows: Fields must be rogued of weeds, off type plants, volunteer plants and plants showing symptoms of seed borne diseases.
- II- No change.
- III- No change.
- IV- Change paragraph IV as follows:

SPECIFIC REQUIREMENTS: Field Tolerances are as follows:

Producing	Foundation	Registered	Certified
Other varieties or off type plants	None	.1%	.5%
Other crops	None	.1%	.1%
Total Seed Borne Diseases	None	.5%	1.5%
Bacterial Bean Blights & Wilt	None	.1%	.5%
Anthracoese	None	.1%	.5%
Mosaic (Seed Borne)	None	.5%	.5%

V- No change

VI- Change paragraph VI as follows: The combined results of field inspections, laboratory tests and test plot readings when necessary, will determine final certification.

Seed Handling:

No change

Seed Standards:

- I- Change paragraph I as follows: Certified bean seed must be hand picked.
- II- Change paragraph II as follows:

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PURITY AND GERMINATION

	Foundation	Registered	Certified
Pure Seed (Min)	98%	99%	99%
Inert Matter & Foreign Material		1%	1%
Splits and Cracks		1%	1%
Badly Discolored		1%	1%
Other Crops and Varieties	None	None	2 cwt.
Weed Seeds		None	None
Germination		85%	85%

Total of inert matter, foreign material, splits and cracks, badly discolored, other crops, other varieties, and weed seeds shall not exceed 2% or over 1% of any of these factors alone except for foundation seed.

RULES FOR CERTIFICATION OF ALFALFA

Eligibility Requirements:

- I- No change
- II- Varieties eligible are: Add Narragansett alfalfa. All plantings must be approved by seed certifying agency prior to planting. Only three classes of seed are recognized for Narragansett alfalfa, namely Breeder's, Foundation, and Certified.

Restrictions on Numbers of Varieties Per Farm:

No Change

Application for Certification:

- I- No change
- II- Change paragraph II as follows: 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, the year the field is planted. No fee is required for seedling applications. 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- Change paragraph III as follows: No applications will be accepted after August 31, except for seedling applications.
- IV- Change paragraph IV as follows: A penalty of \$10.00 per application for producing fields will be **charged** for applications received between June 15 and August 31.
- V- No change.

Fees:

- I- No Change
- II- No Change
- III- No Change
- IV- Add to paragraph IV: The fee for rebagging shall be 5¢ per 100 pounds.
- V- Change paragraph V as follows: A fee of \$10.00 will be charged for reinspection of a field that did not pass the first inspection.
- VI- No change.

Land Requirements:

- I- Add to paragraph I: The 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- Add to paragraph II: The 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.
- III- Add to paragraph III: The 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.
- IV- No Change.
- V- No Change.

- VI- No Change
- VII- Add paragraph VII: 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- No Change
- II- No Change
- III- No Change
- IV- No Change
- V- Add to paragraph V: 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- Add paragraph 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.

Field Standards:

- I- Add to paragraph I: Fields planted with foundation seed for production of certified blue tag must have a minimum of 500' isolation for fields of 5 acres or less and 300' for fields over 5 acres.
- II- No Change
- III- No Change
- IV- No Change
- V- No Change
- VI- Field tolerances: Add to weed list: Johnson Grass (*Sorghum halepense*).
- VII- Add paragraph VII: Seed fields outside the region of adaptation of a variety shall be limited to stands not exceeding 6 years of age.

Seed Standards:

- I- Delete red tag standards.
- II- Delete red tag standards.
- III- Add paragraph III: Foundation or registered seed that has been rejected in the 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 recleaned and upon retesting meets certified standards.
- IV- Add paragraph IV: All certified seed should be identified by field number marked on each bag or container before leaving the field. Seed not identified by field number will not be accepted for certification.

RULES FOR CERTIFICATION OF LOTUS

Eligibility Requirements:

- I- No change.
- II- No Change
- III- Planting Stock: Add to paragraph III: 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.

Application for Certification:

- I- No change.
- II- Change paragraph II as follows: Application for new seedlings 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, the year the field was planted. No fee is required for seedling applications. It is recommended that all new plantings are applied for when planted regardless of isolation, weeds or other problems that may exist.
- III- No Change
- IV- No Change
- V- No Change

Fees:

- I- No change
- II- No Change
- III- Change paragraph III as follows: 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- No Change
- V- No Change

Land Requirements:

- I- Change paragraph I as follows: Breeder's seed for the production of Foundation seed shall be planted on land on which no Lotus was

grown or planted during the seven years prior to the one in which the present stand was planted. During one of the intervening years, the land shall be free from 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 established and productive life of the stand.

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 six years prior to the one in which the present stand was planted.

During one of the intervening years, the land shall have been in a cultivated crop and the land shall be free from 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 established and productive life of the stand.

- II- Change paragraph II as follows: A field to be planted with registered seed must not have grown or have been seeded to Lotus the preceding five years, during one of the intervening years, the land shall have been in a cultivated crop and the land must be free from 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 established and productive life of the stand.

III- No change

IV- No change

V- No change

VI- No change

VII- No change

Field Inspection:

No change

Field Standards:

I- No change

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

Class Planted	Class Produced	Distance Required From Nearest Field Producing
Breeder's	Foundation	Registered - - - - 300 ft.
		Certified - - - - 660 ft.
		Uncertified- - - - 660 ft.
Foundation	Registered	Certified- - - - 165 ft.
		Uncertified- - - - 165 ft.
Foundation or Registered	Certified	Uncertified- - - - 165 ft.

- III- Add to weed list: Horsenettle (*Solanum carolinense*) Fan weed (*Thlaspi arvense*)

Seed Standards:

- I- Add to paragraph I

	Foundation	Registered	Certified
Sweet Clover (Max.)	None	9 per lb.	90 per lb.

Add to Objectionable Weeds: Wild Carrot (*Daucus carota*)

RULES FOR CERTIFICATION OF RED CLOVER

Eligibility Requirements:

- I- No Change
- II- Add to paragraph II: Varieties eligible: Dollard
- III- Add to paragraph III: Kenland and Dollard red clover will be restricted to two generations, foundation and certified.

Foundation Kenland red clover seed may be planted until August 1, 1955 for the production of registered seed. After that date for the production of certified seed only.

Registered Kenland red clover seed may be planted for the production of certified seed until August 1, 1958 and after that date the registered class shall be discontinued.

Applications for Certification:

- I- No Change
- II- Change paragraph II as follows: Application for new seedlings must be accompanied by all the tags from the seed planted. Seedling applications must be filed in Seed Branch office, the year the field is planted. No fee is required for seedling applications. It is recommended that all new plantings are applied for when planted regardless of isolation, weed or other problems that may exist.
- III- Change paragraph III as follows: No application will be accepted after July 31 except for application of new seedlings which should be applied for when planted.
- IV- Change paragraph IV as follows: A penalty of \$10.00 per application for producing fields will be charged for applications received between June 15 and July 31.

Fees:

- I- No change
- II- No change
- III- Change paragraph III as follows: 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- Add to paragraph IV: The schedule of charges for rebagging is 5¢ per 100 pounds.
- V- Change paragraph V as follows:
A fee of \$10.00 will be charged for reinspection of a field that did not pass the previous inspection.
- VI- No change

Land Requirements:

- I- Change paragraph I as follows:
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 six years during three of which the land must be cultivated.
- II- Change paragraph II as follows:
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- Change paragraph III as follows:
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- No Change
- V- No Change
- VI- No Change
- VII- No Change
- VIII- Add paragraph VIII:

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.

Field Inspections:

- I- Add to paragraph I:
Fields planted with foundation seed for the production of certified blue tag must have a minimum of 500' isolation for a field of five acres or less and 300' isolation for a field over five acres.
- II- No change
- III- No change
- IV- No change
- V- Add to paragraph V:
A field or 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.

Field Standards:

- I- Add to paragraph I:
A field planted with foundation seed and producing certified seed must have a minimum of 650' isolation for a field of five acres or less and 350' for isolation for a field over five acres.
- II- No change
- III- No change
- IV- No change
- V- Add to weed list:
Horsenettle (*Solanum carolinense*) Fan Weed (*Thlaspi arvense*)

Seed Standards:

I- PURITY	Foundation	Registered	Certified Blue tag
Pure Seed (Min.)	99.00%	99.00%	99.00%
Other Crop (Max.)	18 per lb.	.10%	.25%
Sweet Clover (Max.)	9 per lb.	45 per lb.	90 per lb.
Inert Matter (Max.)	1.00%	1.00%	1.00%
Weed Seed (Max.)	.15%	.15%	.25%
*Objectionable weeds (Max. Total)	None	45 per lb.	90 per lb.

II- GERMINATION

Minimum total germination and hard seeds (Delete Red Tag seed Standards)	85.00%	85.00%	85.00%
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- *Objectionable Weeds: Add to weed list:
Giant Foxtail (*Setaria faberi*)
Wild Carrot (*Daucus carota*)

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 re-certification
Breeder's seed is the seed released by the Plant Breeder to Experiment Stations; it 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 Applications for new seedings must be accompanied by all the tags from the seed planted. Seedling applications must be made with the certifying agency the year the field was planted. 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 fee 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.

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 re-tagging 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 Breeder's seed must not have grown or have been seeded to White Clover at any previous time.
- 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 another strain or variety have grown within the preceding four years, at least two of which shall have been in a cultivated crop or clean fallow. 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 re-classified 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 cleared 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 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.

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	1 Mile	1 Mile
Foundation	Certified	650 feet	450 feet

- II- Isolation between different class (generations) of the same variety (strain): White clover of different class of the same variety or strain shall be isolated as follows:

Class Planted	Class Produced	Distance Required From Nearest Field Producing
Breeder's	Foundation	Certified- - - - - 660 feet
		Uncertified- - - - - 660 feet
Foundation	Certified	Uncertified- - - - - 165 feet

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	
	Foundation	Certified
Other White Clover	None	10 plants per acre
Other Crops	None	20 plants per acre

White clover fields must be free of the following weeds: Field Bindweed or Morning Glory (*Convolvulus arvensis*), Quackgrass (*Agropyron repens*), Perennial Sowthistle (*Sonchus arvensis*), Canada Thistle (*Cirsium arvense*), Russian Knapweed (*Centaurea repens*), Leafy Spurge (*Euphorbia esula*), Blue Lettuce (*Lactuca pulchella*), Yellow Toadflax (*Linaria vulgaris*), Dogbane (*Apocynum spp.*), Dodder (*Cuscuta sp.*), Horsenettle (*Solanum carolinense*), Fanweed (*Thlaspi arvense*), Wild Carrot (*Daucus carota*), Bladder campion (*Silene cucubalus*), White Top (Hoary Cress), Peppergrass (*Lepidium and Cardaria spp.* - all perennial species.)

Seed Standards:

Following are the seed standards for White Clover:

I- PURITY:	Foundation	Certified Blue tag
Pure seed (Min.)	98.00%	99.00%
Other Crops (Max.)	.01%	.03%
Inert matter (Max.)	2.00%	1.00%
Weed seed (Max.)	.01%	.03%
*Objectionable weeds (Max.)	10 per lb.	90 per lb.
Sweet clover	None	90 per lb.

II- GERMINATION:

Minimum total germination and hard seed	85.00%	85.00%
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White Clover must be free of seeds of the weeds listed under Field Tolerances."
 *Objectionable weeds are: Perennial Ragweed (*Ambrosia psilostachya*), Poverty Weed (*Iva axillaris*), Alkali Mallow (*Sida hederacea*), Corn Cockle (*Agrostemma githago*), Docks (*Rumex sp.*), Sheep Sorrel (*Rumex acetosella*), Charlock or Wild Mustard (*Brassica kaber*), Plantains (*Plantago spp.*), Perennial Groundcherry (*Physalis subglabrata*), Fanweed (*Thlaspi arvense*), Yellow starthistle (*Centaurea solstitialis*), Perennial Nutgrass (*Cyperus rotundus*), Puncture Vine (*Tribulus terrestris*), Wild Garlic or Wild Onion (*Allium spp.*), Catchfly (*Silene spp.*). The following "common" weeds produce seeds which are difficult to separate from White Clover seed: Pigweed (*Amaranthus spp.*), Lambsquarters (*Chenopodium spp.*), Tumbling Mustard (*Sisymbrium altissimum*), Witch Grass (*Panicum capilare*), Sow Thistles (*Sonchus spp.*), Lettuce (*Lactuca spp.*)

RULES FOR CERTIFICATION OF GRASS SEED

Eligibility Requirement:

I- Only these 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. Eligible 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- Eligible Grasses Are:

Bentgrass: Colonial, Highland, Seaside, Penncross**.
Bluegrass: Sherman Big, Delta*, Merion*
Bromegrass: Manchar Smooth*, Lincoln Smooth*, Bromar Mountain*
Fescue: Alta*, Hard*, Chewings, Creeping Red, Varieties of Creeping Red: Olds, Illahee, Rainier, Pennlawn*.
Meadow Foxtail: Creeping*
Orchardgrass: Brage, S-143*, Akaroa, Potomac*.
Ryegrass: Perennial
Tall Meadow Oatgrass: Tualatin
Timothy: Climax*, Drummond*.
Wheatgrass: Intermediate*, Topar Pubescent*, Streambank*, Whitmar Beardless*, Primar Slender*, Standard Crested, Nordan Crested*.

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

* Effective August 1, 1955, these varieties of grass will be certified on generation sequence basis only. Planting stock for these varieties must consist of Breeders, Foundation, or Registered seed in order to produce seed eligible for re-certification. Certified class (Blue Tag) of these varieties can no longer be used for planting for further certification.

** Only the certified class (Blue Tag) will be recognized for Penncross Bentgrass seed. All plantings of Penncross Bentgrass are governed by supplemental grass rules (Rules for Certification of Penncross Bentgrass).

III- Planting Stock:

Breeder's seed is the seed released by the Plant Breeder to the Experiment Stations. Breeder's seed produces foundation seed.

Foundation seed produces registered seed and this in turn 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 for 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 until:
 - (a) The field is two years old (or)
 - (b) Seed heads appearFoundation 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 until:
 - (a) The field is two years old (or)
 - (b) Seed heads appearRegistered 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 until:
- (a) The field is two years old (or)
 - (b) Seed heads appear
- Certified vegetative propagating material will be eligible to produce certified seed.

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 on 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- Application for new seedlings 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, the year the field is planted. No fee is required for seedling applications. 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.
- III- No application will be accepted after July 15 except for late summer and fall seedlings.
- IV- 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 and July 15 for bentgrass.
- V- Application must be made each year if certification is desired.

Land Requirements:

- I- A field to be planted with Breeder's 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 method of planting must be in clean cultivated rows of at least 30 inch spacing.
- 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 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 seedlings.

- 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.

FEES

- 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, Sheep	\$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 Re-inspection of a field that did not pass at the first inspection.
- VI- No fee shall be required when applying for certification on new seeding the year the seed is planted.

Field Inspections:

- I- A seedling inspection will be made the first year a field has been planted.
- II- A field inspection will be made each year that a crop of certified seed is produced.
- III- The field inspection will take place at the time the grass is fully headed.
- IV- No field will be certified unless a field inspection has been made.
- V- The unit of certification is the entire field standing at the time of inspection.

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	5 rods
Strains entirely apomictic- - - - A		10 rods	10 rods	5 rods
Highly self-fertile species - - - S		10 rods	10 rods	5 rods
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
Breeder's - - - - -	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 following weeds: Dodder (Cuscuta sp.), Field Bindweed or Morning Glory (Convolvulus arvensis), Quackgrass (Agropyron repens), Perennial Sowthistle (Sonchus arvensis), Canada thistle(Circium arvense), Russian Knapweed (Centaurea repens), Leafy Spurge (Euphorbia esula), Blue Lettuce (Lactuca pulchella), Yellow Toadflax (Linaria vulgaris), Dogbane (Apocynum sp.), White Top (Hoary Cress), Peppergrass (Lepidium and Cardaria spp.--all perennial species).

IV- Specific Requirements for Vegetative Propagating Material:

A- Field Standards:

The maximum of other recognizable grass species, varieties or strains 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 - .0 %

* 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 weeds listed in paragraph III above - None

SEED STANDARDS FOR GRASSES

	Symbol for Type of Repro- duction	% Pure Seed (Min.) Foundation		% Inert Matter (Max.) Foundation		% Germ (Min.) Found.		
		Reg.	Cert.	Reg.	Cert.	Reg.	Cert.	
BENTGRASS (2)								
Colonial	C	96%	98%	4 %	2 %	80%	85%	
Highland	C	96%	98%	4 %	2 %	80%	85%	
Seaside	C	96%	98%	4 %	2 %	80%	85%	
Penncross	C	96%	98%	4 %	2 %	80%	85%	
BLUEGRASS								
Sherman Big	a	90%	90%	10%	10%	70%	70%	
Delta	a	90%	90%	10%	10%	75%	75%	
Merion	a	90%	90%	10%	10%	75%	75%	
BROMEGRASS								
Manchar Smooth	C	90%	90%	10%	10%	80%	85%	
Lincoln Smooth	C	90%	90%	10%	10%	80%	85%	
Bromar Mountain	S	95%	95%	5 %	5 %	85%	90%	
FESCUE								
Alta	C	95%	97%	5 %	3 %	80%	85%	
Hard	C	95%	95%	5 %	5 %	80%	90%	
Chewings	C	95%	98%	5 %	2 %	80%	90%	
Creeping Red	C	95%	98%	5 %	2 %	80%	90%	
Strains Cr. Red								
Olds	C	95%	98%	5 %	2 %	80%	90%	
Illahee	C	95%	98%	5 %	2 %	80%	90%	
Rainier	C	95%	98%	5 %	2 %	80%	90%	
Pennlawn	C	95%	98%	5 %	2 %	80%	90%	
ORCHARDGRASS								
Brage	C	85%	90%	15%	10%	80%	85%	
S-143	C	85%	90%	15%	10%	80%	85%	
Akaroa	C	85%	90%	15%	10%	80%	85%	
Potomac	C	85%	90%	15%	10%	80%	85%	
TALL MEADOW OATGRASS								
Tualatin	C	90%	95%	10%	5 %	75%	75%	
RYEGRASS								
Perennial	C	96%	98%	4 %	2 %	85%	90%	
WHEATGRASS								
Intermediate	C	95%	95%	5 %	5 %	80%	85%	
Topar Pubescent	C	95%	95%	5 %	5 %	80%	85%	
Streambank	C	90%	90%	10%	10%	80%	85%	
Primar Slender	S	90%	95%	10%	5 %	80%	85%	
Standard Crested	C	90%	95%	10%	5 %	80%	85%	
Nordan Crested	C	90%	95%	10%	5 %	80%	85%	
Whitmar Beardless	C	90%	90%	10%	10%	80%	85%	
MEADOW FOXTAIL								
Creeping	C	80%	85%	20%	15%	80%	80%	
TIMOTHY								
Drummond	C	97%	97%	3 %	3 %	80%	90%	
Climax	C	97%	97%	3 %	3 %	80%	90%	

OTHER CROP

OTHER GRASS SPECIES

Weed Seeds (Max)
(3)

MAXIMUM
Found. Cert. (1)
Reg.

Foundation

Registered

Found. Cert.
Reg.

BENTGRASS (2) .10 .5 1 seed per 10 grams 1 seed per 1 gram .1 .4

BLUEGRASS Sherman Big .10 .5 1 seed per 10 grams 1 seed per 1 gram .1 .3

Delta .10 .5 1 seed per 10 grams 1 seed per 1 gram .1 .3

Merlon (5) .10 .5 1 seed per 10 grams 2 seed per 1 gram .1 .3

BROMEGRASSES Manchar .10 .5 1 seed per 50 grams 10 seed per 50 grams .1 .3 (4)

Lincaln .10 .5 1 seed per 50 grams 10 seed per 50 grams .1 .3 (4)

Bromar .10 .5 1 seed per 50 grams 10 seed per 50 grams .1 .3 (4)

FESCUE Alta .10 .5 2 seed per 50 grams 10 seed per 50 grams .1 .3

Hard .10 .5 1 seed per 50 grams 5 seed per 50 grams .1 .3

Chewings .10 .5 1 seed per 50 grams 5 seed per 50 grams .1 .3

Creeping Red .10 .5 1 seed per 50 grams 5 seed per 50 grams .1 .3

Strains Cr. Red .10 .5 1 seed per 50 grams 5 seed per 50 grams .1 .3

Illakee .10 .5 1 seed per 50 grams 5 seed per 50 grams .1 .3

Olds .10 .5 1 seed per 50 grams 5 seed per 50 grams .1 .3

Rainier .10 .5 1 seed per 50 grams 5 seed per 50 grams .1 .3

Pennlawn .10 .5 1 seed per 50 grams 5 seed per 50 grams .1 .3

ORCHARDGRASS Brage .10 .5 3 seed per 50 grams 10 seed per 50 grams .1 .3

S-143 .10 .5 3 seed per 50 grams 10 seed per 50 grams .1 .3

Akaroa .10 .5 3 seed per 50 grams 10 seed per 50 grams .1 .3

Potomac .10 .5 3 seed per 50 grams 10 seed per 50 grams .1 .3

TAIL OATGRASS Tualatin .10 .5 1 seed per 50 grams 10 seed per 50 grams .1 .3

RYEGRASS Perennial .10 .5 2 seed per 50 grams 10 seed per 50 grams .1 .3

WHEATGRASS Intermedate .10 .5 1 seed per 50 grams 5 seed per 50 grams .1 .3

Topar Pubescent .10 .5 1 seed per 50 grams 5 seed per 50 grams .1 .3

Streambank .10 .5 1 seed per 50 grams 5 seed per 50 grams .1 .3

Standard Crested .10 .5 1 seed per 50 grams 5 seed per 50 grams .1 .3

Nordan Crested .10 .5 1 seed per 50 grams 5 seed per 50 grams .1 .3

		OTHER CROP		OTHER GRASS SPECIES		% Weed Seeds (Max)	
		Found.	Cert. (1)	Foundation	Registered	Found.	Cert.
		Reg.				Reg.	
WHEATGRASS							
Whitmar	.10	.5	1 seed per 50 grams	5 seed per 50 grams	5 seed per 50 grams	.1	.3
Primar	.10	.5	1 seed per 50 grams	5 seed per 50 grams	5 seed per 50 grams	.1	.3
MEADOW FOXTAIL							
	.10	.5	5 seed per 50 grams	15 seed per 50 grams		.1	.3
TIMOTHY							
Drummond	.10	.5	1 seed per 50 grams	5 seed per 50 grams	5 seed per 50 grams	.1	.3
Climax	.10	.5	1 seed per 50 grams	5 seed per 50 grams	5 seed per 50 grams	.1	.3

(1) Not to exceed twenty-five hundredths of one per cent (.25) other grass species for certified seed.

(2) Specific requirements for Bentgrass:

Tolerances for the seeds of Plantain spp., Big Mouse-ear Chickweed, Yarrow, Spotted Catsear and Dandelion, singly or collectively, in Bentgrass seed are as follows:

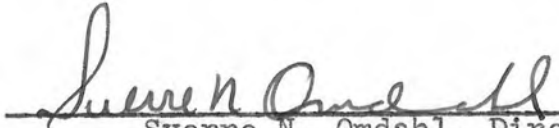
Colonial Bentgrass	900 per lb.
Seaside Bentgrass	360 per lb.
Highland Bentgrass	540 per lb.
Penncross Bentgrass	360 per lb.

(3) Grass seed must not contain more than 45 per pound for registered seed, 90 per pound for blue tag seed, singly or collectively, of objectionable weeds.*

* Objectionable weeds are: Perennial Ragweed (Ambrosia psilostachya), Poverty Weed (Ira axillaris), Alkali Mallow (Sida hederacea), Docks (Rumex spp.), Sheep Sorrel (Rumex acetocella), Charlock or Wild Mustard (Brassica kaber), Plantains (Plantago spp.), Fanweed (Thlaspi arvense), Yellow Star Thistle (Centauria solstitialis), Perennial Nutgrass (Cyperus rotundus), Wild Garlic or Wild Onion (Allium spp.), Catchfly (Silene spp.), Yarrow (Achillea millefolium), Wild Carrot (Daucus carota), Oxeye Daisy (Chrysanthemum leucanthemum).

(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 permitted in certified Merion Bluegrass.


Sverre N. Omdahl, Director
Department of Agriculture
State of Washington

Signed at Olympia, Washington, this day of April, 1955.