

STATE OF WASHINGTON  
DEPARTMENT OF AGRICULTURE  
Division of Horticulture  
Seed Branch

Order No. 649

STATE OF WASHINGTON  
**FILED**  
MAR 22 1960  
CODE REVISER'S OFFICE  
DOCKET # 38 FILE # 5

SEED CERTIFICATION IN WASHINGTON

Certification is conducted under authority of Chapter 56, Sections 36 and 37, Washington State Seed Law, 1941. The seed certification program is conducted by the Seed Division, State Department of Agriculture, in cooperation with the State Crop Improvement Association, Washington Certified Seed Potato Growers Association, and the Institute of Agricultural Sciences, the State College of Washington.

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 and 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   | Grasses  | Safflower         |
| Clover  | Lotus    | Sorghum           |
| Corn    | Peas     | Strawberry Plants |
|         | Potatoes | Vetch             |

- 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 is seed directly controlled by the originating or the sponsoring plantbreeder of institution. The source for the initial and recurring increase of foundation seed is provided by the originating person or institution.
- 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.  
 RED for certified second quality.  
 WHITE tag is also used for certified single drop (1 - 3 ozs.) seed potatoes.  
 BULK CERTIFICATES for cereals, peas and other crops at the discretion of the Certifying Agency. The certificates are in triplicate. The white or original copy to be sent to the Certifying Agency; the yellow or duplicate copy goes to the purchaser; the pink or triplicate copy is retained by the producer.
- IV The sealed bag is the principal protection to the ultimate consumer and assures him that the seed received under the seal has passed all of the Washington standards for certified seed.
- V All official certification tags and seals will 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 certified seed.
- V Promote as much as possible the production and use of certified seed, either direct or by assisting educational agencies.

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.

#### 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, Dept. of Agriculture, Yakima, Wash., 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", said list being made available to growers of certified seed.
- III Should a subsequent inspection 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 bags of certified seed, upon completion of the cleaning process, must be clearly marked with lot number or other identification.
- VIII All certified seed must be bagged in new, clean bags.
- IX Bulk handling of certified seed other than grain, from field to processing plant, will render the seed ineligible for further certification.
- 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.

#### 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. 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 and provided that it was produced in the northern region of adaptation.
- II VARIETIES ELIGIBLE are: Cossack, Grimm, Hardistan, Ladak, Buffalo, and Ranger. Buffalo and Ranger are certified on a generation-sequence basis. The list of eligible varieties is subject to change upon adequate notice to growers.
- III PLANTING STOCK for varieties certified on a generation-sequence basis must consist of Breeder's, Foundation, or Registered seed in order to produce seed eligible for recertification. 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. Planting stock for varieties not certified on a generation-sequence basis must at least be blue tag quality 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 Applications for new seeding must be accompanied by the certification tags or a "Certificate for the Sale of Small Quantities of Certified Seed" or other evidence of eligibility that was attached to the seed planted. No application fee is required for new seeding the year it is planted.
- III No applications will be accepted after July 31, except for late summer and fall seedings.
- IV A penalty of \$5.00 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 alfalfa is \$10.00 for 10 acres or less and \$0.50 for each acre over 10.
- II The charge for PURITY AND GERMINATION analyses 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.

The schedule of charges for RESAMPLING and RETAGGING certified seed, will be a minimum of \$10.00 or 5¢ per bag plus 0¢ per mile for additional traveling required. The fee will be whichever is the greater.

- V A fee of \$5.00 will be charged for 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.

LAND REQUIREMENTS

- I A field to be planted with BREEDER'S or FOUNDATION seed must not have grown or have been seeded to alfalfa during the preceding four years.
- II A field to be planted with REGISTERED seed must not have grown or have been seeded to alfalfa during the preceding three years.
- III A field to be planted with CERTIFIED seed for recertification of a variety not certified on a generation-sequence basis must not have grown or have been seeded to alfalfa during the three previous years unless it is a replacement of a certified field of the same variety.
- IV 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.
- V DITCHBANKS, ROADWAYS, ETC., adjacent to a certified field must be cleared of volunteer alfalfa and noxious weeds.
- VI VOLUNTEER PLANTS in the field may be cause for rejection or reclassification of a seed field.

FIELD INSPECTIONS

- 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.
- IIII 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.

FIELD STANDARDS

I ISOLATION from OTHER VARIETIES. Alfalfa for certification shall be isolated from all other alfalfa varieties as follows:

| Class Planted | Class produced | Fields less than 5 acres | Fields 5 acres |
|---------------|----------------|--------------------------|----------------|
| Breeders      | Foundation     | 1,900 feet               | 1,900 feet     |
| Foundation    | Registered     | 1,000 feet               | 500 feet       |
| Registered    | Certified      | 500 feet                 | 300 feet       |
| Certified     | Certified      | 500 feet                 | 300 feet       |

II ISOLATION between DIFFERENT CLASSES (generation) of the SAME VARIETY:

Alfalfa of different classes of the same variety shall be isolated as follows:

| Class planted | Class produced | Distance required from nearest field producing:                                  |
|---------------|----------------|--|
| Breeder's     | Foundation     | (Registered.....480 feet<br>(Certified.....900 feet<br>(Uncertified.....900 feet |
| Foundation    | Registered     | (Certified.....mechanical*<br>(Uncertified.....mechanical*                       |

\*A mechanical isolation is a fence row, ditch, or strip of another crop planted between fields.

III In cases where a neighboring farm produces 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, but no seed may be harvested from this strip.

IV In cases where a grower, on his own farm, has more than one variety of alfalfa, or alfalfa of a lower class which requires more than mechanical isolation, he may obtain isolation by continuous pasturing or mowing a strip of the required measurements in the field adjacent to the certified field, provided that no alfalfa gets to the blossoming stage in that strip or he may proceed as under III.

V BEGINNING JANUARY 1955 NO CERTIFICATION WILL BE PERMITTED ON ANY FARM ALSO PLANTED WITH ALFALFA OTHER THAN THAT OF NORTHERN REGION OF ADAPTATION ORIGIN.

VI 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 crops       | 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 the following weeds:

Dodder (Cuscuta spp.), 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 spp.), White Top (Heary Cress), Peppergrass (Lepidium and Cardaria spp. - all perennial species.).

SEED STANDARDS

Following are the seed standards for alfalfa:

| I  | PURITY             | Foundation | Registered | Certified  | Certified red |
|----|--------------------|------------|------------|------------|---------------|
|    |                    | :          | :          | blue tag   | tag           |
|    | Pure seed (min.):  | 98%        | 98%        | 99%        | 97%           |
|    | Other crops(max):  | 0.1%       | 0.1%       | 0.5%       | 0.5%          |
|    | Sw. clover(max.):  | None       | None       | 90 per lb. | 180 per lb.   |
|    | Inert mat.(max.):  | 2%         | 2%         | 1%         | 3%            |
|    | Weed seed(max.):   | 0.1%       | 0.2%       | 0.5%       | 0.5%          |
|    | *Objectionable     |            |            |            |               |
|    | weeds (max. total) | None       | 45 per lb. | 90 per lb. | 180 per lb.   |
| II | GERMINATION        | :          | :          | :          | :             |
|    | Minimum total      | :          | :          | :          | :             |
|    | germination and    | :          | :          | :          | :             |
|    | hard seed          | 80%        | 85%        | 85%        | 80%           |

Alfalfa seed must be free of seeds of the weeds listed under "FIELD TOLERANCES".

\*Objectionable weeds are: Perennial Ragweed (*Ambrosia psilistachya*), Poverty Weed (*Iva axillaris*), Alkali Mallow (*Sida hederacea*), Corn Cockle (*Agrostemma githago*), Docks (*Rumex spp.*), Sheep Sorrel (*Rumex acetocella*), 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 GROWER IS REFERRED TO THE "GENERAL RULES FOR SEED CERTIFICATION" FOR ADDITIONAL INFORMATION AS PERTAINING TO ALL CROPS CERTIFIED.

RULES FOR CERTIFICATION OF BARLEY, OATS, WHEAT, AND RYE

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:

- Barley: Spring Varieties: Atlas, Beldi Giant, Belford, Hannchen, Rufflyn, Velvon  
Winter Varieties: White Winter, Olympia, Gem
- Oats: Spring Varieties: Victory, Markton, Shasta, Cody
- Rye: Rosen, Abruzzi
- Wheat: Spring Varieties: Baart, Idaed, Marfed, Soft Federation, Henry  
Winter Varieties: Triplet, Orfed, Hymar, Golden, Rio, Redit, Elmar, Brevor

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

III PLANTING STOCK must consist of foundation, registered or certified seed in order to be eligible for certification. The seed must be treated to prevent the spread of seed borne diseases.

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 1. Application must be accompanied by the application fee and the certification tags or the bulk certificate that were attached to the seed planted.
- II No applications will be accepted after July 15.
- III A penalty of \$5.00 per application will be charged for applications received between June 1 and July 15.

FEES

- I The application fee for all cereals is \$10.00 for ten acres or less and \$0.30 for each acre over ten.
- II The charge for PURITY and GERMINATION analyses is \$2.00 and \$1.50 respectively.
- III SAMPLING AND TAGGING FEES. Each grower of cereal seed who processes only his own crop, stored on his farm, is permitted to draw his own sample and attach tags and no sampling and tagging fee shall be charge. In all other types of seed handling, the sampling and tagging fees will be 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.
- V A fee of \$5.00 will be charged for RE-INSPECTION OF A FIELD that did not pass at the first inspection.

LAND REQUIREMENTS

A field to be eligible for the production of foundation, registered or certified seed must not have grown or have been planted with the same kind of grain the preceding two years, unless the previous crop was the same variety and passed the field inspection for varietal purity.

FIELD INSPECTIONS

- I A field inspection will be made after the crop is fully headed, when varietal or crop mixtures can be determined.
- II No field will be certified without a field inspection.
- III The unit of certification will be the acreage applied for.

FIELD STANDARDS

- I Fields must be rogued of all other grains and varieties.
- II A field to be eligible for the production of certified WHEAT, BARLEY, or OATS must be separated from other small grain fields by a margin that will prevent mechanical mixing.  
A margin may be obtained by mowing around the field before harvesting, by leaving the boundaries uncropped or by planting a crop other than grain in the boundary area.
- III A field to be eligible for the production of certified RYE seed must be isolated from fields of any other variety of Rye, or a field of the same variety that does not meet the varietal purity for certification by at least 660 feet.



IV SPECIFIC REQUIREMENTS. Field tolerances are as follows:

| Producing:                                  | Foundation        | Registered         | Blue and Red Tag   | Bulk Grade         |
|---|-------------------|--------------------|--------------------|--------------------|
| Other Varieties                             | 5 plants per acre | 10 plants per acre | 30 plants per acre | 30 plants per acre |
| Inseparable Other Crops                     | 5 plants per acre | 10 plants per acre | 20 plants per acre | 20 plants per acre |
| Objectionable Weeds                         | Trace             | Trace              | Trace              | Trace              |
| Chemically controllable Seed borne Diseases | 10 heads per acre | 20 heads per acre  | 40 heads per acre  | 40 heads per acre  |

Barley, oats, wheat, and rye fields for certification must be free of the following weeds: Field Bindweed or Morning Glory (convolvulus arvensis), Quackgrass (Agropyron repens).

SEED HANDLING AND TAGGING

- I Seed cleaned or treated in a commercial elevator will not be accepted for certification. Only elevators equipped with special, separate facilities to handle certified cereal seed may obtain approval of the Certifying Agency to process such seed.
- II A grower of cereal seed who processes only his own seed, stored on his own farm, is permitted to sample this seed. He must draw a representative sample of not less than 5 pounds and send it to the Seed Branch, State Department of Agriculture, Yakima, Washington for purity and germination analyses.
- III If this sample meets the specifications under "Seed Standards", tags and seals or certificates will be mailed to the grower.
- IV In the case of certified bulk grades, certificates will be furnished which are to be made out in triplicate:  
Original (white) copy to be returned to the Seed Branch, State Department of Agriculture, Yakima, Washington.  
Duplicate (yellow) copy to be furnished to the buyer.  
Triplicate (pink) copy to be retained by the grower.
- V Since the analysis sample may be drawn by the grower, the Certifying Agency reserves the right to resample the lot concerned. If it is found that the sample drawn by the grower is materially different from the official sample, the Certifying Agency will withdraw the lot from certification.
- VI In cases where cereal seed is processed or recleaned at any establishment other than the farm it was grown on, sampling and tagging will be handled by the Certifying Agency.

NOTE: Either certificates or tags may be issued for certified grain in sacks, optional to the owner of the seed.

SEED STANDARDS

I ALL GRAINS EXCEPT RYE

|                               | Foundation Registered | Blue Tag  | Red Tag   | Bulk Grade |
|-------------------------------|-----------------------|-----------|-----------|------------|
| Pure seed (min.).....         | 98.0%                 | 98.0%     | 97.0%     | 95.0%      |
| Varietal purity (min.).....   | 99.9%                 | 99.9%     | 99.8%     | 99.8%      |
| Other crop seed (max.).....   | 0.1%                  | 0.1%      | 0.2%      | 0.2%       |
| Other small grains (max.)...  | 1 per lb.             | 2 per lb. | 5 per lb. | 5 per lb.  |
| Inert matter (max.).....      | 2.0%                  | 2.0%      | 3.0%      | 5.0%       |
| Weed seed (max.).....         | 0.1%                  | 0.1%      | 0.2%      | 0.3%       |
| *Objectionable weeds (max.).. | 3 per lb.             | 5 per lb. | 7 per lb. | 5 per lb.  |
| Smut balls (max.).....        | 0                     | 0         | 0         | 0          |
| Germination (min.).....       | 85%                   | 90%       | 85%       | 80%        |

II RYE

|                               | Foundation Registered | Blue Tag  | Red Tag   | Bulk Grade |
|-------------------------------|-----------------------|-----------|-----------|------------|
| Pure seed (min.).....         | 96.0%                 | 96.0%     | 95.0%     | 90.0%      |
| Varietal purity (min.).....   | 99.9%                 | 99.9%     | 99.8%     | 99.8%      |
| Other crops (max.).....       | 0.1%                  | 0.1%      | 0.2%      | 0.2%       |
| Other small grains (max.)...  | 1 per lb.             | 2 per lb. | 5 per lb. | 5 per lb.  |
| Inert matter (max.).....      | 4.0%                  | 4.0%      | 5.0%      | 6.0%       |
| Weed seed (max.).....         | 0.1%                  | 0.1%      | 0.2%      | 0.3%       |
| *Objectionable weeds (max.).. | 3 per lb.             | 5 per lb. | 7 per lb. | 5 per lb.  |
| Germination (min.).....       | 85%                   | 85%       | 75%       | 70%        |

III All small grain crops except Rye shall be free of Rye, Austrian Peas, and Vetch.

IV Rye shall be free of Austrian Peas and Vetch.

V Small grain seed must be free of the following weed seeds: Dodder (*Cuscuta* spp.), 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.), White Top (Hoary Cress), Peppergrass (*Lepidium* and *cardaria* spp.-all perennial species).

VI \*Objectionable weeds are: Wild Oats (*Avena fatua*), Perennial Ragweed (*Ambrosia psilistachya*), Poverty Weed (*Iva axillaris*), Alkali Mallow (*Sida hederacea*), Corn Cockle (*Agrostemma githago*), Docks (*Rumex* spp.), Sheep Sorrel (*Rumex acetocella*), 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.).

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  
 Pinto: University of Idaho Numbers 111, 78, 72  
 Flat Small White: University of Idaho 1, 2  
 Michelite White Pea Beans  
 Small White California  
 Small Pink

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

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 June 15 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 1.

III A penalty of \$5.00 per application will be charged growers who apply between June 15 and July 1.

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 certified. 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.

V A fee of \$5.00 will be charged for RE-INSPECTION OF A FIELD that did not pass at the second inspection.

LAND REQUIREMENTS

A field to be eligible for the production of certified seed must not have been planted to beans the preceding year unless they were of the same variety and strain.

FIELD INSPECTIONS

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 are 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 all off-type plants, plants showing symptoms of seed borne diseases and weeds.

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%        | .5%       |
| Other crops                        | None       | .1%        | .1%       |
| Total seed borne diseases          | None       | .5%        | 2.0%      |
| Bacterial bean blights and wilt    | None       | .1%        | .5%       |
| Anthracnose                        | None       | .1%        | .5%       |
| Common Mosaic                      | None       | .5%        | 1.0%      |

V The Certifying Agency may conduct test plots representing the fields certified and withhold final certification of a field until a reading has been made to determine the factors of seed borne diseases.

VI The determination of the class of seed produced will be based upon the combined results of field inspections, laboratory tests and in some cases, the test plot readings.

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

I Certified bean seed must be hand picked or mechanically sorted to eliminate trace mixtures and damaged beans.

II PURITY AND GERMINATION

|                                 | Foundation | Registered | Certified    |              |
|---------------------------------|------------|------------|--------------|--------------|
|                                 |            |            | Blue Tag     | Red Tag      |
| Pure seed (min.).....           | 98%        | 99%        | 99%          | 98%          |
| Other crops (max.).....         | none       | none       | 1 per 5 lbs. | 1 per 5 lbs. |
| Inert matter (max.).....        |            | 1%         | 1%           | 1.5%         |
| *Total defects and damage(max.) |            | 2%         | 2%           | 2.5%         |
| Splits and cracks (max.)..      |            | 1%         | 1%           | 1%           |
| Badly discolored (max.)..       |            | 1%         | 1%           | 1.5%         |
| Weed seed (max.).....           |            | none       | none         | none         |
| Germination (min.).....         |            | 85%        | 85%          | 80%          |

\*The total defects and damage, in combination, shall not exceed 2% of inert matter, splits and cracks, badly discolored, or over 1% of any of these factors alone, except foundation and red tag seed.

RULES FOR CERTIFICATION OF HYBRID CORN

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 PLANTING STOCK must consist of approved foundation single cross seed.

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 and the certification tags or other evidence of eligibility that was attached to the seed planted.
- II No applications will be accepted after July 1.
- III A penalty of \$5.00 will be charged for each application received between June 15 and July 1.

FEEES

- I The APPLICATION FEE for corn is \$10.00 for three acres or less and \$2.00 for each acre over two.
- II The charges for PURITY and GERMINATION ANALYSES are \$1.25 and \$1.10 per sample respectively.
- III SAMPLING and TAGGING FEES are based on the number of pounds of seed certified. The fees for sampling and tagging are 5¢ per 100 lbs, and 10¢ per 100 lbs. respectively.
- IV A fee of \$5.00 will be charged for an extra inspection of a field over and above the regular inspections.
- V 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.

DEFINITIONS

- I A COMMERCIAL HYBRID is one to be planted for the production of corn for feed or for any other commercial or farm use except seed. It may be any one of the following:
  - (a) A DOUBLE CROSS — the first generation of a hybrid between two foundation (single cross) hybrids.
  - (b) A THREE-WAY CROSS — the first generation of a gybrid between foundation (single cross) hybrid and an inbred line.
  - (c) A SINGLE CROSS — when the single cross is to be used for commercial production and not as "foundation" hybrid.
- II An INBRED LINE is a relatively true-breeding strain of corn resulting from at least five successive generations of controlled self-fertilization with selection. If the inbred line is produced by selfing a hybrid, successive back-crosses to one inbred-line parent of the hybrid may be substituted for the first one, two, or three self-fertilizations.
- III A single cross is the first generation hybrid between two inbred lines.

FIELD REQUIREMENTS

- I A specific commercial hybrid to be inspected for certification must be so located that the "female" or ear parent is at least 40 rods from all other corn except the "male". This distance may be modified to a minimum of 10 rods depending on the acreage of the crossing field and the planting of additional outside border rows of the pollen or "male" parent. The following table indicates the relationship between (1) the number of acres in the crossing field, (2) distance of the ear-parent from other corn and (3) the minimum number of outside "male" rows required.

(1) Number of acres in the crossing field is:

| 9 or Less | 10 - 14 | 15 - 19 | 20 - 24 | 25 - 29 | 30 - 34 | 35 - 39 | 40 or Over | Number of border rows required |
|-----------|---------|---------|---------|---------|---------|---------|------------|--------------------------------|
|           |         |         |         |         |         |         |            | 1                              |
|           |         |         |         |         |         |         |            | 2                              |
|           |         |         |         |         |         |         |            | 3                              |
|           |         |         |         |         |         |         |            | 4                              |
|           |         |         |         |         |         |         |            | 5                              |
|           |         |         |         |         |         |         |            | 6                              |
|           |         |         |         |         |         |         |            | 7                              |
|           |         |         |         |         |         |         |            | 8                              |
|           |         |         |         |         |         |         |            | 9                              |
|           |         |         |         |         |         |         |            | 10                             |
|           |         |         |         |         |         |         |            | 11                             |
|           |         |         |         |         |         |         |            | 12                             |
|           |         |         |         |         |         |         |            | 13                             |

(2) Distance of the ear parent from other corn:

| Rods | Rods | Rods | Rods | Rods | Rods | Rods | Rods |
|------|------|------|------|------|------|------|------|
| 40   | 39   | 38   | 37   | 36   | 35   | 34   | 33   |
| 37.5 | 36.5 | 35.5 | 34.5 | 33.5 | 32.5 | 31.5 | 30.5 |
| 35   | 34   | 33   | 32   | 31   | 30   | 29   | 28   |
| 32.5 | 31.5 | 30.5 | 29.5 | 28.5 | 27.5 | 26.5 | 25.5 |
| 30   | 29   | 28   | 27   | 26   | 25   | 24   | 23   |
| 27.5 | 26.5 | 25.5 | 24.5 | 23.5 | 22.5 | 21.5 | 20.5 |
| 25   | 24   | 23   | 22   | 21   | 20   | 19   | 18   |
| 22.5 | 21.5 | 20.5 | 19.5 | 18.5 | 17.5 | 16.5 | 15.5 |
| 20   | 19   | 18   | 17   | 16   | 15   | 14   | 13   |
| 17.5 | 16.5 | 15.5 | 14.5 | 13.5 | 12.5 | 11.5 | 10.5 |
| 15   | 14   | 13   | 12   | 11   | 10   | 9    | 8    |
| 12.5 | 11.5 | 10.5 | 9.5  | 8.5  | 7.5  | 6.5  | 5.5  |
| 10   | 9    | 8    | 7    | 6    | 5    | 4    | 3    |

- II Corn must be isolated by one-half mile from a different type of corn. (Example: Field corn one-half mile from sweet corn.)
- III The requirements for border rows of "male" indicated in the above table apply to all sides of the crossing plot exposed to contamination from other corn, except that a requirement for only 2 "male" rows may be disregarded where it would necessitate planting across the tow ends of the crossing field.
- IV All border rows of "male" must be adjacent to and not separate from the "female" rows.
- V Sufficient seed of the "male" should be obtained to plant the maximum number of border rows that would be required by any possible re-arrangement of plans by neighbors or by the grower himself in planting nearby corn fields.

DETASSELING

- I A commercial hybrid will be disqualified for certification if more than 1 per cent of the ear parent "female" stalks have shed pollen at any time during the pollination period. If an inbred line is used as the "female" parent this is reduced to 1/2%. The total for three inspections on different dates shall not exceed 2%. Daily detasseling is usually required to keep within this limit.
- II Sucker tassels, portion of tassels, or tassels on main plants will be counted as shedding pollen when 2 inches or more of the central stem, the side branches, or a combination of the two have the anthers extended from the glumes.

FIELD INSPECTION

During the pollination period, crossing fields shall be inspected by an authorized inspector of the Certifying Agency at least four times.

SEED STANDARDS

|                             | Blue Tag |
|-----------------------------|----------|
| Pure seed (min.).....       | 98%      |
| Inert matter (max.).....    | 2.0%     |
| Weed seed (max.).....       | none     |
| Other varieties (max.)..... | 0.5%     |
| Germination (min.).....     | 90%      |
| Moisture (max.).....        | 14.0%    |

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

RULES FOR CERTIFICATION OF GRASS SEED

ELIGIBILITY REQUIREMENTS

- I Only those species, sub-species and 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 said states have standards acceptable to the Certifying Agency.
- II ELIGIBLE GRASSES ARE:  
 Bent grass: Colonial (Astoria), Seaside (Creeping), Highland.  
 Blue grass: Sherman Big Blue, Delta, Merion.  
 Brome grass: Manchar Smooth, Bromar Mountain.  
 Fescue: Alta, Chewings, Sheep, Hard, Creeping Red; varieties of Creeping Red: Olds, Illahee, Rainier.  
 Orchard grass: Brage, SL43, Akaroa.  
 Tall Meadow Outgrass: Tualatin.

Ryegrass: Perennial (English).

Wheatgrass: Intermediate, Primar Slender, Standard Crested, Whitmar Beardless.

Meadow Foxtail: Creeping.

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

- III PLANTING STOCK for grasses certified on a generation-sequence basis 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 in this case is for forage production only.

Planting seed stock for varieties not certified on a generation-sequence basis must at least be blue tag quality certified seed.

VEGETATIVE PLANTING STOCK must originate in a field which has met the field standards for certification and shall be recognized as stock of the same class as that field.

RESTRICTION ON NUMBER OF GRASSES PER FARM

Where 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 SEEDING must be accompanied by the certification tags, or a "Certificate for the Sale of Small Quantities of Certified Seed", or any other evidence of eligibility that was attached to the seed planted. No application fee is required for new seeding the year it is planted.
- III No application will be accepted after July 15 for any of the grasses, except for late summer and fall seedings.
- IV A penalty of \$5.00 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 A new application must be made for each year a field is in production.

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, or variety 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 or variety 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 or variety of grass during the preceding two years, unless it replaces a certified field of the same grass.
- IV A field to be planted with Certified seed of a grass not certified on a generation-sequence basis may replace a certified field of the same species, sub-species or variety the next planting.



- V Vegetative plantings are subject to the same rules as seedings, as pertaining to the class planted.
- 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 cross-pollination from wild grasses growing in fence rows and other uncultivated areas adjacent to the field must be prevented.

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:

| Crop                                  | Purity per sample | Germination per sample |
|---------------------------------------|-------------------|------------------------|
| Bentgrasses                           | \$6.00            | \$2.00                 |
| Bluegrasses                           | \$3.50            | \$2.00                 |
| Brome grasses                         | \$3.50            | \$1.50                 |
| Fescue: Chewings, Red,<br>Hard, Sheep | \$3.00            | \$1.75                 |
| Fescue: Alta                          | \$2.80            | \$1.50                 |
| Meadow Foxtail                        | \$3.50            | \$2.00                 |
| Orchard grass                         | \$3.50            | \$2.00                 |
| Tall Meadow Oatgrass                  | \$3.50            | \$2.00                 |
| Ryegrass: English                     | \$2.50            | \$2.00                 |
| Wheatgrasses                          | \$2.00            | \$1.50                 |

- III SAMPLING and TAGGING FEES are based on the number of pounds of seed certified. The fees for sampling and tagging are 10¢ per 100 lbs. and 15¢ per 100 lbs. 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 \$5.00 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 ISOLATION is required between sub-species or varieties of closely related grasses as follows:

| Class planted | Class produced | Distance required from related variety |
|---------------|----------------|--|
| Breeder's     | Foundation     | 1,000 feet                             |
| Foundation    | Registered     | 650 feet                               |
| Registered    | Certified      | 300 feet                               |
| Certified     | Certified      | 300 feet                               |

II

SPECIFIC REQUIREMENTS:

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

Foundation - 0%                      Registered - 0.5%                      Certified - 1%

The potential grade of seed produced in Bentgrass fields shall be determined at the time of field inspection and the following tolerances shall prevail:

Maximum other fine leaved Bentgrasses permitted in Bentgrass fields:

Blue tag - 1%                      Red tag - 4%

Maximum Red Top permitted in Bentgrass fields:

Blue tag - trace                      Red tag - 1%

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 (*Cirsium arvense*), Russian Knapweed (*Centaurea repens*), Leafy Spurge (*Euphorbia esula*), Blue Lettuce (*Lactuca pulchella*), Yellow Toadflax (*Linaria vulgaris*), Dogbane (*Apocynum* sp.), White Top (Hoary Grass), Peppergrass (*Lepidium* and *Cardaria* spp. - all perennial species).

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

(See following page)

STATE OF WASHINGTON  
DEPARTMENT OF AGRICULTURE  
Division of Horticulture  
Seed Branch

Order No. 651

FEEES FOR SEED SAMPLING AND INSPECTION SERVICES

Pursuant to the authority vested in the Director of Agriculture by Chapter 56 of the Laws of 1941, the following schedule of inspection and certification fees are hereby established:

Section 1. FLOOR STOCK SAMPLING - The fee for sampling floor stock shall be  $1\frac{1}{2}\text{¢}$  per hundredweight with a minimum fee of \$5.00. If several lots are sampled at the same time, the charge will be made at the rate of  $1\frac{1}{2}\text{¢}$  per hundredweight with a minimum charge of \$5.00.

Section 2. CAR SAMPLING - The fee for car sampling shall be  $1\frac{1}{2}\text{¢}$  per hundredweight with a minimum charge of \$6.00 if services are completed within a three hour period. If more than three hours are required to sample a car lot, an additional charge of \$3.00 per hour may be made, plus mileage @ 8¢ per mile.

Section 3. CHECKLOADING - A charge of \$6.00 per car or truck lot will be made for checkloading if completed within a two hour period. An additional charge of \$3.00 per hour will be made if a longer time is required.

Section 4. CHECKWEIGHING - The fee for checkweighing will be \$3.00 per hour, plus mileage @ 8¢ per mile.

Section 5. MISCELLANEOUS CHARGES

(a) If it becomes necessary to make an extra trip because of failure of applicant to have a lot available at a designated time, the additional time required will be charged at the rate of \$3.00 per hour and the additional mileage @ 8¢ per mile.

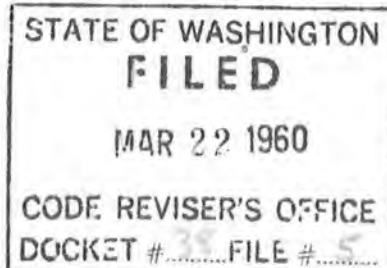
(b) A minimum charge of \$24.00 per 8-hour day will be charged when a sampler is requested for continuous sampling provided this period is not less than 6 continuous days.

Section 6. Any addition to a lot after the sample is taken and submitted to the laboratory will be handled as a separate lot.

This order will become effective April 10, 1953.

*Sherren Andahl*  
Director of Agriculture

Signed at Olympia, Washington, this 6th day of April, 1953.



16-300

SEED STANDARDS FOR GRASSES

|   | PER CENT PURE SEED<br>(Min.) |       | PER CENT OTHER CROPS<br>(Max.) (1) |       | PER CENT INERT<br>MATTER (Max.) |       | PER CENT WEED<br>SEED (Max.) (3) |       | PER CENT GERMINATION<br>(Min.) |       |    |    |    |    |    |    |    |
|---|------------------------------|-------|------------------------------------|-------|---------------------------------|-------|----------------------------------|-------|--------------------------------|-------|----|----|----|----|----|----|----|
|   | Found                        | Cert. | Found                              | Cert. | Found                           | Cert. | Found                            | Cert. | Found                          | Cert. |    |    |    |    |    |    |    |
|   | Reg.                         | Blue  | Reg.                               | Blue  | Reg.                            | Blue  | Reg.                             | Blue  | Reg.                           | Blue  |    |    |    |    |    |    |    |
| Bromegrass, Bromar (Mt. Brome).....                           | 90                           | 95    | 90                                 | 90    | .25                             | .5    | 1.0                              | 10.0  | 5.0                            | 10.0  | .3 | .3 | .5 | .5 | 85 | 90 | 85 |
| Bromegrass, Manchar (Sm. Brome).....                          | 85                           | 90    | 85                                 | 85    | .25                             | .5    | 1.0                              | 15.0  | 10.0                           | 15.0  | .3 | .3 | .5 | .5 | 80 | 85 | 80 |
| Alta Fescue.....  | 95                           | 97    | 95                                 | 95    | .25                             | .5    | 4.0                              | 5.0   | 3.0                            | 5.0   | .3 | .3 | .5 | .5 | 80 | 85 | 80 |
| Orchard Grass.....  | 85                           | 90    | 85                                 | 85    | .25                             | .5    | 1.0                              | 15.0  | 10.0                           | 15.0  | .3 | .3 | .5 | .5 | 80 | 85 | 80 |
| Chewings Fescue.....  | 95                           | 97    | 95                                 | 95    | .25                             | .5    | 1.0                              | 5.0   | 3.0                            | 5.0   | .3 | .3 | .5 | .5 | 80 | 90 | 85 |
| Creeping Red fescue.....                                      | 95                           | 98    | 95                                 | 95    | .25                             | .5    | 1.0                              | 5.0   | 3.0                            | 5.0   | .3 | .3 | .5 | .5 | 80 | 90 | 85 |
| Sheep Fescue.....   | 95                           | 95    | 90                                 | 90    | .25                             | .5    | 1.0                              | 5.0   | 5.0                            | 10.0  | .3 | .3 | .5 | .5 | 80 | 90 | 85 |
| Hard Fescue.....  | 95                           | 95    | 90                                 | 90    | .25                             | .5    | 1.0                              | 5.0   | 5.0                            | 10.0  | .3 | .3 | .5 | .5 | 80 | 90 | 85 |
| Big Blue Grass.....   | 80                           | 85    | 80                                 | 80    | .25                             | .5    | 1.0                              | 20.0  | 15.0                           | 20.0  | .3 | .3 | .5 | .5 | 70 | 70 | 70 |
| Bentgrass (2).....  | 96                           | 98    | 96                                 | 96    | .25                             | .5    | 1.0                              | 4.0   | 2.0                            | 4.0   | .3 | .3 | .5 | .5 | 80 | 85 | 85 |
| Tall Meadow Oatgrass.....                                     | 85                           | 90    | 85                                 | 85    | .25                             | .5    | 1.0                              | 15.0  | 10.0                           | 15.0  | .3 | .3 | .5 | .5 | 80 | 85 | 80 |
| Meadow Foxtail.....   | 80                           | 85    | 80                                 | 80    | .25                             | .5    | 1.0                              | 20.0  | 15.0                           | 20.0  | .3 | .3 | .5 | .5 | 80 | 80 | 80 |
| Ryegrass, Perennial (English).....                            | 96                           | 98    | 96                                 | 96    | .25                             | .5    | 4.0                              | 4.0   | 2.0                            | 4.0   | .3 | .3 | .5 | .5 | 85 | 90 | 85 |
| Beardless Wheatgrass.....                                     | 85                           | 90    | 85                                 | 85    | .25                             | .5    | 1.0                              | 15.0  | 10.0                           | 15.0  | .3 | .3 | .5 | .5 | 80 | 85 | 80 |
| Wheatgrass, Intermediate, Primar<br>(Slender Wheatgrass)..... | 90                           | 95    | 90                                 | 90    | .25                             | .5    | 1.0                              | 10.0  | 5.0                            | 10.0  | .3 | .3 | .5 | .5 | 80 | 85 | 80 |
| Crested Wheatgrass, Standard.....                             | 90                           | 95    | 90                                 | 90    | .25                             | .5    | 1.0                              | 10.0  | 5.0                            | 10.0  | .3 | .3 | .5 | .5 | 80 | 85 | 80 |
| Lerion Bluegrass.....   | 90                           | 90    | 85                                 | 85    | .25                             | .5    | 1.0                              | 10.0  | 10.0                           | 15.0  | .3 | .3 | .5 | .5 | 75 | 75 | 75 |

Delta Bluegrass..... 90 : 90 : 85 : .25 : .5 : 1.0 : 10.0 : 10.0 : 15.0 : .3 : .3 : .5 : 75 : 75 : 75

(1) Not to exceed one-tenth of one per cent (.10) other grasses for foundation and registered 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:

|                                   | <u>Blue Tag</u> | <u>Red Tag</u> |
|-----------------------------------|-----------------|----------------|
| Colonial (Astoria) Bentgrass..... | 900 per lb.     | 1350 per lb.   |
| Seaside Bentgrass.....            | 360 per lb.     | 540 per lb.    |
| Highland Bentgrass.....           | 540 per lb.     | 900 per lb.    |

(3) Grass seed must not contain more than 45 per pound for registered seed, 90 per pound for Blue Tag seed, and 180 per pound for Red Tag seed, singly or collectively, of objectionable weeds#.

Grass seed must be free of seeds of the weeds listed under "Field Standards".

#Objectionable weeds are:

- Perennial Ragweed (*Ambrosia psilostachya*), Poverty Weed (*Ira exillaris*), Alkali Wallow (*Sida hederacea*), Docks (*Rumex spp.*),
- Sheep Sorrel (*Rumex acetocella*), Charlock or Wild Mustard (*Brassica kaber*), Plantains (*Plantago spp.*), Fanweed (*Thlaspi arvense*),
- Yellow Star Thistle (*Gentaura 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*).

RULES FOR CERTIFICATION OF LADINO 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: Ladino 23608  
The list of eligible varieties is subject to change upon adequate notice to growers.  
NOTE: Fields planted with Ladino Clover other than the variety 23608 before January 1954 will be eligible to produce certified seed for the life of the stand, providing they meet certification requirements.
- 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.

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 the certification tags, of a "Certificate for the Sale of Small Quantities of Certified Seed", or any other evidence of eligibility that was attached to the seed planted. No application fee is required for new seeding the year it is planted.
- III No applications will be accepted after August 31, except for late summer and fall seedings.
- IV A penalty of \$5.00 per application for producing fields will be charged for applications received between June 15 and August 31.
- V A new application must be made for each year a field is in production.

FEES

- I The APPLICATION FEE for Ladino 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 certified. The fees for sampling and tagging are 10¢ per 100 lbs. and 15¢ per 100 lbs. 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 \$5.00 will be charged for 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 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 must not have grown or have been seeded to White Clover during the preceding five years.
- III A field to be planted with REGISTERED seed must not have grown or have been seeded to another variety or strain of White Clover during the preceding four years, two years of which it must have been in cultivated crops or summer fallowed.
- IV LENGTH OF STAND. A field of Ladino Clover shall not be eligible to produce seed of the same class (generation) of certified seed after three years of vegetative growth, the seedling year to be counted as one of the three years, regardless of planting date.
- V VOLUNTEER PLANTS. Volunteer plants may be cause for rejection or re-classification of a seed field.
- VI 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.
- VII 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 that 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.

FIELD STANDARDS

- I ISOLATION from OTHER WHITE CLOVER. Ladino 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    | Registered     | 1,000 feet               | 1,000 feet             |
| Registered    | Certified      | 650 feet                 | 400 feet               |

- II ISOLATION between DIFFERENT CLASSES (generations) of the SAME VARIETY (Strain). Ladino Clover of different classes of the same variety or strain shall be isolated as follows:

| Class Planted | Class Produced | Distance required from nearest field producing                                   |
|---------------|----------------|--|
| Breeder's     | Foundation     | (Registered.....330 feet<br>(Certified.....660 feet<br>(Uncertified.....660 feet |
| Foundation    | Registered     | (Certified....mechanical*<br>(Uncertified..mechanical*                           |

\*A mechanical isolation is a fence row, ditch or strip of another crop planted between fields.

III A field containing Ladino 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 | Registered        | Certified          |
|--------------------|------------|-------------------|--------------------|
| Other White Clover | none       | 5 plants per acre | 10 plants per acre |

Ladino Clover 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 (*Cirsium arvense*), Russian Knapweed (*Centaurea repens*), Leafy Spurge (*Euphorbia esula*), Blue Lettuce (*Lactuca pulchella*), Yellow Toadflax (*Linaria vulgaris*), Dogbane (*Apocynum* spp.), White Top (Hoary Cress), Pepperglass (*Lepidium* and *Cardaria* spp. - all perennial species).

SEED STANDARDS

Following are the seed standards for Ladino Clover:

| I PURITY:                               | Foundation | Registered | Certified blue tag | Certified red tag |
|---|------------|------------|--------------------|-------------------|
| Pure seed (min)                         | 97%        | 97%        | 99%                | 97%               |
| Other crops (max)                       | .1%        | .1%        | .3%                | .6%               |
| Inert matter (max)                      | 3%         | 3%         | 1%                 | 3%                |
| Weed seed (max)                         | .1%        | .15%       | .3%                | .5%               |
| Objectionable weeds (max)               | 10 per lb. | 45 per lb. | 90 per lb.         | 180 per lb.       |
| II GERMINATION                          |            |            |                    |                   |
| Minimum total germination and hard seed | 85%        | 85%        | 85%                | 85%               |

Ladino Clover seed must be free of seeds of the weeds listed under "FIELD TOLERANCES".

\*Objectionable weeds are: Perennial Ragweed (*Ambrosia psilistachya*), Poverty Weed (*Iva axillaris*), Alkali Mallow (*Sida hederacea*), Corn Cockle (*Agrostemma githago*), Docks (*Rumex* sp.), Sheep Sorrel (*Rumex acetocella*), 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 Ladino Clover seed:

Pigweed (*Ammannthus* spp.), Lambsquarters (*Chenopodium* spp.), Tumbling Mustard (*Sisymbrium altissemum*), Withh Grass (*Panicum capilare*) Sow Thistles (*Sonchus* spp.), Lettuce (*Lactuca* spp.).

THE GROWER IS REFERRED TO THE "GENERAL RULES FOR SEED CERTIFICATION" FOR ADDITIONAL INFORMATION AS 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.

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 the certification tags, or "Certificate for the Sale of Small Quantities of Certified Seed", or any other evidence of eligibility that was attached to the seed planted. No application fee is required for new seeding the year it is planted.
- III No applications will be accepted after August 31, except for late summer and fall seedings.
- IV A penalty of \$5.00 per application for producing fields will be charged for applications received between June 15 and August 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 certified. 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 \$5.00 will be charged for RE-INSPECTION OF A FIELD that did not pass at the first inspection.

LAND REQUIREMENTS

- I A field to be planted with BREEDER'S or FOUNDATION seed must not have

been planted to Lotus the preceding six years, during two of which the land must have produced cultivated crops.

- II A field to be planted with REGISTERED seed must not have grown or have been seeded to another variety of Lotus the preceding five years, during two of which the land must have produced cultivated crops.
- III LENGTH OF STAND. A field of Lotus shall not be eligible to produce seed of the same class (generation) of certified seed after five years of vegetative growth, not including the year it was planted.
- 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 shall be cause for rejection.
- VII Areas immediately adjacent to the field must be cleared 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 each year that a crop of certified seed is produced.
- III The field inspection will take place when the crop is in bloom.
- 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.

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 more than 5 acres |
|----------------|----------------|--------------------------|--------------------------|
| Breeder's      | Foundation     | 1,600 feet               | 1,600 feet               |
| Foundation     | Registered     | 900 feet                 | 650 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 producing |
|---------------|----------------|--|
| Breeder's     | Foundation     | (Registered.....330 feet                       |
|               |                | (Certified.....660 feet                        |
|               |                | (Uncertified.....660 feet                      |
| Foundation    | Registered     | (Certified.....mechanical*                     |
|               |                | (Uncertified.....mechanical*                   |

\*A mechanical isolation is a fence, row, ditch or strip of another crop planted between fields.

III

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

| 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  |

Lotus fields must be free of the following weeds:

Dodder (*Cuscuta* spp.), 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.), White Top (Hoary Grass), Peppergrass (*Lepidium* and *Cardaria* spp. - all perennial species).

SEED STANDARDS

Following are the seed standards for Lotus:

| I  | PURITY:                                 | Foundation | Registered | Certified  | Certified   |
|----|---|------------|------------|------------|-------------|
|    |   |            |            | blue tag   | red tag     |
|    | Pure seed (min)                         | 98%        | 98%        | 99%        | 98%         |
|    | Other crops (max)                       | 0.1%       | 0.2%       | 0.5%       | 1%          |
|    | Inert matter (max)                      | 2%         | 2%         | 1%         | 2%          |
|    | Weed seed (max)                         | 0.2%       | 0.5%       | 0.3%       | 0.5%        |
|    | *Objectionable weeds (max)              | none       | 45 per lb. | 90 per lb. | 180 per lb. |
| II | GERMINATION:                            |            |            |            |             |
|    | Minimum total germination and hard seed | 85%        | 85%        | 85%        | 85%         |

Lotus seed must be free of seeds of the weeds listed under "Field Tolerances".

\*Objectionable weeds are: Perennial Ragweed (*Ambrosia psilistachya*), Poverty Weed (*Iva axillaris*), Alkali Mallow (*Sida hederacea*), Corn Cockle (*Agrostemma githago*), Docks (*Rumex* spp.), Sheep Sorrel (*Rumex acetocella*), 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 (*Allium* spp.), Catchfly (*Silene* spp.)

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: Konland, Cumberland, Midland, Penscott (the latter for out of State shipment only)  
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.

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 the certification tags, or a "Certificate for the Sale of Small Quantities of Certified Seed", or any other evidence of eligibility that was attached to the seed planted. No application fee is required for new seeding the year it is planted.
- III No applications will be accepted after August 31, except for late summer and fall seedings.
- IV A penalty of \$5.00 per application for producing fields will be charged for applications received between June 15 and August 31.
- 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 certified. The fees for sampling and tagging are 10¢ per 100 lbs. and 15¢ per 100 lbs. 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 \$5.00 will be charged for 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 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 or FOUNDATION seed must not have grown or have been seeded to Red Clover during the preceding six years.
- II A field to be planted with REGISTERED seed must not have grown or have been seeded to another variety of Red Clover during the preceding three years, during two of which it must have been planted to a cultivated crop.
- III LENGTH OF STAND. A field of Red Clover shall not be eligible to produce seed of the same class (generation) of certified seed after three years of vegetative growth, the seedling year to be counted as one of the three years regardless of planting date.
- 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 of the first seeding may be done only by special arrangement with the Certifying Agency.
- VI MIDLAND and CUMBERLAND Red Clover will not be certified in the new irrigation districts of the Columbia Basin.  
KENLAND and PENSICOTT Red Clover will be certified wherever it is properly isolated.
- VII DITCHBANKS, ROADWAYS, ETC., adjacent to a certified field, must be cleared of volunteer Red 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 that 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.

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               |
| 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 producing:                                  |
|---------------|----------------|--|
| Breeder's     | Foundation     | (Registered.....330 feet<br>(Certified.....660 feet<br>(Uncertified.....660 feet |
| Foundation    | Registered     | (Certified.....Mechanical*<br>(Uncertified.....Mechanical*                       |

\* A mechanical isolation is a fencerow, ditch or strip of another crop planted between fields.

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 In cases where a grower, ON HIS OWN FARM, has more than one variety of Red Clover, or Red Clover of a lower class which requires more than mechanical isolation, he may obtain isolation by continuous pasturing or mowing a strip of the required measurements in the field adjacent to the certified field, provided that no Red Clover gets to the blossoming stage in that strip; or he may proceed as under III.

V **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 Crops       | 0.00%      | 0.2%              | 0.5%               |
| 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 following weeds:

Dodder (*Cuscuta* sp.), 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.), White Top (Hoary Cress), Peppergrass (*Lepidium* and *Cardaria* spp. - all perennial species).

SEED STANDARDS

Following are the seed standards for Red Clover:

| I                                 | PURITY:   | Foundation      | Registered | Certified Blue Tag | Certified Red Tag |
|-----------------------------------|---|-----------------|------------|--------------------|-------------------|
|                                   |   | Pure seed (min) | 98%        | 98%                | 99%               |
| Other crops (Max.)                | 18 per lb.  | 0.10%           | 0.25%      | 0.50%              |                   |
| Sweet Clov. (Max.)                | 9 per lb.   | 45 per lb.      | 90 per lb. | 180 per lb.        |                   |
| Inert matter (Max.)               | 2%  | 2%              | 1%         | 2%                 |                   |
| Weed seed (Max.)                  | 0.15%   | 0.15%           | 0.3%       | 0.5%               |                   |
| *Objectionable Weeds (Max. total) | None  | 45 per lb.      | 90 per lb. | 180 per lb.        |                   |
| II                                | <b>GERMINATION:</b><br>Minimum total germination and hard seeds | 85%             | 85%        | 85%                | 85%               |

Red Clover seed must be free of seeds of the weeds listed under "FIELD TOLERANCES".

\*Objectionable weeds are: Perennial Ragweed (*Ambrosia psilistachya*), 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 GROWER IS REFERRED TO THE "GENERAL RULES FOR SEED CERTIFICATION" FOR ADDITIONAL INFORMATION AS PERTAINING TO ALL CROPS CERTIFIED.

#### RULES FOR CERTIFICATION OF SAFFLOWER 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 of those states have standards acceptable to the Certifying Agency.
- II VARIETIES ELIGIBLE are: N-852  
  
The list of eligible varieties is subject to change upon adequate notice to growers.
- III PLANTING STOCK. To be eligible for certification, the planting stock must consist of breeder's, foundation, registered or 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 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 \$5.00 will be charged for each application received between June 15 and July 15.

##### FEEES

- I The APPLICATION FEE for Safflower is \$10.00 for ten acres or less and \$0.30 for each acre over ten.
- II The charges for PURITY and GERMINATION ANALYSES are \$2.00 and \$1.50 respectively.
- III SAMPLING and TAGGING FEES are based on the number of pounds of seed certified. The fees for sampling and tagging are 10¢ per 100 lbs. and 15¢ per 100 lbs. 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 \$5.00 will be charged for RE-INSPECTION OF A FIELD that did not pass at the first inspection.

LAND REQUIREMENTS

A field to be planted for certification must not have grown safflower the preceding year, unless it was of the same variety.

FIELD INSPECTION

- I A field inspection will be made when the crop is in bloom.
- 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 ISOLATION. A safflower field for certification must be isolated by at least 600 feet from other varieties or strains.
- II TOLERANCES. The maximum tolerance for grains in a safflower field is 3 plants per acre, and for off type plants 0.1%.
- III Safflower fields must be free of Field Bindweed or Morning Glory (*Convolvulus arvensis*), and Quackgrass (*Agropyron repens*).

SEED STANDARDS

| I                                     | Blue Tag  | Certified<br>Red Tag |
|---------------------------------------|-----------|----------------------|
| Pure seed (min.) . . . . .            | 98.0%     | 97.0%                |
| Other crop seed (Max.) . . . . .      | 0.1%      | 0.2%                 |
| Inert Matter (Max.) . . . . .         | 2.0%      | 3.0%                 |
| Weed Seed (Max.) . . . . .            | 0.1%      | 0.2%                 |
| *Objectionable weeds (Max.) . . . . . | 5 per lb. | 7 per lb.            |
| Germination (Min.) . . . . .          | 90.0%     | 85.0%                |

- II Safflower seed must be free of the following seed seeds:  
 Dodder (*Cuscuta* spp.), 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 Hoopoadflax (*Linaria vulgaris*), Dogbane (*Apocynum* spp.), White Top (Hoary Cress), Peppergrass (*Lepidium* and *Cardaria* spp. - all perennial species.).

\*Objectionable weeds are: Wild Oats (*Avena fatua*), Perennial Ragweed (*Ambrosia psilistachya*), Poverty Weed (*Iva axillaris*), Alkali Mallow (*Sida Hederacea*), Corn Cockle (*Agrostemma githago*), Docks (*Rumex* spp.), Sheep Sorrel (*Rumex acetocella*), 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 GROWER IS REFERRED TO THE "GENERAL RULES FOR SEED CERTIFICATION" FOR ADDITIONAL INFORMATION AS PERTAINING TO ALL CROPS CERTIFIED.

RULES FOR CERTIFICATION OF SMOOTH PEA 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 of those states have standards acceptable to the Certifying Agency.



II VARIETIES ELIGIBLE are: First and Best, Alaska, Delwiche Early Scotch.

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

III PLANTING STOCK. To be eligible for certification, the planting stock must consist of breeder's, foundation, registered or certified seed. 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.

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 May 15, accompanied by the application fee and the certification tags or certificate that was attached to the seed planted.
- II No applications will be accepted after June 30.
- III A penalty of \$5.00 will be charged for each application received between May 15 and June 30.

FEEES

- I The APPLICATION FEE for smooth pea is \$10.00 for ten acres or less and \$0.30 for each acre over ten.
- II The charges for PURITY and GERMINATION ANALYSES are \$1.25 and \$1.10 per sample respectively.
- III Since processors of pea seed are allowed to draw their own samples, no SAMPLING FEE will be charged. A TAGGING FEE of 5¢ per bag will be charged whenever the Certifying Agency is required to attach the tags.
- IV A fee of \$5.00 will be charged for RE-INSPECTION OF A FIELD that did not pass at the first inspection.

LAND REQUIREMENTS

- I. A field to be eligible for the production of foundation, registered or certified seed must not have been planted to peas the preceding two years, unless the previous crop was grown for certified seed of the same variety and passed field inspection for varietal purity.
- II 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.

FIELD INSPECTION

- I A field inspection will be made when the crop is in full bloom.
- II No field shall be certified without a field inspection.
- III The unit of certification will be the entire acreage applied for, standing at the time of inspection.

FIELD STANDARDS

- I. Fields must be rogued of all other species and varieties of peas.
- II Pea fields for certification must be separated from fields planted with another variety by a 40 foot margin on which no peas are planted.

III Where the acreage intended for certification is a portion of a larger field, the boundaries of this acreage must be clearly defined.

IV FIELD TOLERANCES. Following are the maximum field tolerances:

| Fields producing:         | <u>Registered</u>  | <u>Certified</u>   |
|---------------------------|--------------------|--------------------|
| Other varieties           | 10 plants per acre | 20 plants per acre |
| Other inseparable crops   | 5 plants per acre  | 10 plants per acre |
| Vetch, Rye, Austrian peas | None               | Trace              |

Peafields must be free of Field Bindweed or Morning Glory (*Convolvulus Arvensis.*)

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

SEED STANDARDS

|                             | <u>Blue Tag</u> | <u>Red Tag</u> |
|-----------------------------|-----------------|----------------|
| Pure seed (min.)            | 99%             | 99%            |
| Other varieties (Max.)      | 1 per pound     | 1 per pound    |
| Other crop seed (max.)      | 3 per pound     | 5 per pound    |
| Inert matter (Max)          | 1%              | 1%             |
| Weevil damage (max.)        | 1%              | 3%             |
| Weed Seed (Max.)            | 0.05%           | 0.1%           |
| *Objectionable weeds (Max.) | 2 per pound     | 3 per pound    |
| Germination (Min.)          | 90%             | 85%            |

Pea seed must be free of Vetch, Rye and Austrian peas.

Pea seed must be free of the following weed seeds:

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 Lettude (*Lactuca pulchella*), Yellow Toadflax (*Linaria vulgaris*), Dogbane (*Apocynum spp.*), White Top (Hoary Cress), Peppergrass (*Lepidium* and *Cardaria spp.*-all perennial spp.)

\*Objectionable weeds are:

Perennial Ragweed (*Ambrosia psilistachya*), Poverty Weed (*Iva axillaris*), Alkali Mallow (*Sida hederacea*), Corn Cockle (*Agrostemma githago*), Docks (*Rumex spp.*), Sheep Sorrel (*Rumex acetocella*), Charlock or Wild Mustard (*Brassica kaber*), Plantains (*Plantago spp.*), Perennial Groundcherry (*Physalis subglabrata*), Fanweed (*Thlaspi arvense*), Yellow Starthistle (*Centaurea solstitialis*), Puncture Vine (*Tribulus terrestris*), Wild Garlic or Wild Onion (*Allium spp.*), Catchfly (*Silene spp.*), Nightshade (*Solanum spp.*).

NOTE: Either bulk certificates or tags may be issued for certified pea seed, optional to the owner of the seed, except in cases where the seed is moved into commercial channels. In the latter case, tags must be attached to the bags.

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

RULES FOR CERTIFICATION OF SORGHUM 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 said states have standards acceptable to the Certifying agency.

II Eligible varieties are:

- Early Hegari
- Double Dwarf White Sooner
- Double Dwarf Yellow Sooner

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

- III PLANTING STOCK must consist of Breeder's, Foundation, Registered or Certified seed.

RESTRICTIONS ON NUMBER OF VARIETIES PER FARM

Where foundation, registered or certified seed is being produced, no other variety shall be grown 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 July 15, accompanied by the certification fee and certification tags or other evidence of eligibility that was attached to the seed planted.
- II No applications will be accepted after August 15.
- III A penalty of \$5.00 per application will be charged for applications received between July 15 and August 15.

LAND REQUIREMENTS

- I A field to be eligible for the production of foundation, registered or certified seed must not have grown sorghum the preceding year, unless it was of the same variety and passed field inspection for certification.
- II A grower may designate part of a field for certification if he does not desire to certify the entire field.
- III 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.

FEEES

- I The application fee for sorghum is \$10.00 for ten a cres or less and \$0.50 for each acre over ten.
- II Charges for PURITY and GERMINATION analyses are \$2.50 and \$2.00 per sample respectively.
- III SAMPLING and TAGGING fees are based on the number of pounds of seed certified. The fees for sampling and tagging are 10¢ per 100 lbs. and 15¢ per 100 lbs. 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 \$5.00 will be charged for RE-INSPECTION of a field that did not pass at the second inspection.

FIELD INSPECTIONS

- I There will betwo field inspections; one when the crop is in full bloom and one when the seed begins to show mature color.
- II No field will be certified without at least one field inspection.
- III The unit of certification is the entire acreage applied for.

FIELD STANDARDS

- I ISOLATION is required between different varieties of sorghum. Isolation distance for all classes produced shall be 1,000 feet.

II SPECIFIC REQUIREMENTS. Field tolerances are as follows:

|                 | Maximum permitted in each class |                  |                  |
|-----------------|---------------------------------|------------------|------------------|
|                 | Foundation                      | Registered       | Certified        |
| Other varieties | None                            | 1 head in 50,000 | 1 head in 20,000 |
| Head smut       | None                            | None             | 1 head in 1,000  |
| Kernel smut     | None                            | None             | 1 head in 2,500  |

Sorghum fields must be free of Field Bindweed or Morning Glory (*Convolvulus arvensis*) and Johnson Grass (*Sorghum halepense*).

SEED STANDARDS

|                        | Standards for each class |            |                              |
|------------------------|--------------------------|------------|------------------------------|
|                        | Foundation               | Registered | Certified                    |
| Pure seed (Min.)       | 97%                      | 97%        | 97%                          |
| Other varieties (Max.) | None                     | None       | 0.04% or<br>9 seeds per lb.  |
| Other crops (Max.)     | 0.01%                    | 0.03%      | 0.07% or<br>10 seeds per lb. |
| Inert matter (Max.)    | 3%                       | 3%         | 3%                           |
| Weed seed (Max.)       | 0.1%                     | 0.1%       | 0.1%                         |
| Germination (Min.)     | 80%                      | 80%        | 80%                          |

Sorghum seed must be free of the following weeds:

Dodder (*Cuscuta* spp.), Field Bindweed or Morning Glory (*Convolvulus arvensis*), Quackgrass (*Agropyron repens*), Perennial Sowthistle (*Sonchus arvensis*), Canada Thistle (*Cirsium arcense*), Russian Knapweed (*Centaurea repens*), Leafy Spurge (*Euphorbia esula*), Blue Lettuce (*Lactuca Pulchella*), Yellow Toadflax (*Linaria vulgaris*), Dogbane (*Apocynum* spp.), White Top, (Hoary Cress), Peppergrass (*Lepidium* and *Cardaria* spp. - all perennial species).

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

RULES FOR CERTIFICATION OF  
SUBTERRANEAN CLOVER SEED

ELIGIBILITY REQUIREMENTS

- I Only those varieties that are approved by the Institute of Agricultural Science of Washington State College, 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 PLANTING STOCK to be eligible for certification, fields must be planted with foundation, registered or certified seed.

RESTRICTIONS ON NUMBER OF VARIETIES PER FARM

Where foundation, registered or certified seed is being grown, 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 and the certification tags or certificate for the sale of small quantities of certified seed or any other evidence of eligibility which was attached to the seed planted.
- II No applications will be accepted after July 31.
- III A penalty of \$5.00 per application will be charged for applications received between June 15 and July 31.

FEEES

- I The APPLICATION FEE for subterranean clover is \$10.00 per ten acres or less and \$0.50 for each acre over ten.
- II The charges for PURITY and GERMINATION analyses are \$2.50 and \$1.50 per sample respectively.
- III SAMPLING and TAGGING FEES are based on the number of pounds of seed certified. The fees for sampling and tagging are 10¢ per 100 pounds and 15¢ per 100 pounds respectively.
- IV The schedule of charges for RESAMPLING or 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 \$5.00 will be charged for RE-INSPECTION OF A FIELD that did not pass at the first inspection.

LAND REQUIREMENTS

- I A field to be eligible for the production of registered or certified seed must not have grown or have been seeded to subterranean clover before the present crop, or to any species or variety of white clover the preceding three years, two of which shall have been in cultivated crop or fallow.
- II 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.

FIELD INSPECTION

- I A field inspection will be made at the time the plants are mature and the first seed begins to set.
- 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 entered for certification must have the following isolation from other varieties of subterranean clover:

Fields producing registered seed: 1000 feet  
 Fields producing certified seed: 600 feet

- II FIELD TOLERANCES: Following are the maximum tolerances of other plants and varieties permissible at the time of field inspection:

|   | <u>Registered</u>  | <u>Certified</u>   |
|---|--------------------|--------------------|
| Other varieties   | None               | None               |
| Other crops, the seed of which is difficult to separate | 40 plants per acre | 80 plants per acre |

Subterranean clover 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 (*Cirsium 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), Austrian Field Cress (*Roripa austriaco*).

SEED STANDARDS. Following are the seed standards for subterranean clover:

|  | Registered | Certified  |             |
|--|------------|------------|-------------|
|  |            | Blue Tag   | Red Tag     |
| Pure seed (Min.)                       | 98%        | 99%        | 98%         |
| Other crops (Max.)                     | 0.25%      | 0.25%      | 0.5%        |
| Inert Matter (Max.)                    | 0.2%       | 0.25%      | 0.25%       |
| *Objectionable weeds (Max.)            | 30 per lb. | 40 per lb. | 120 per lb. |
| Total germination and hard seed (Min.) | 85%        | 90%        | 80%         |

Subterranean clover seed must be free of seeds of the weeds listed under "FIELD TOLERANCES".

\*Objectionable weeds are: Perennial Ragweed (*Ambrosia psilistachya*), Poverty Weed (*Iva axillaris*), Alkali Mallow (*Sida hederacea*), Corn Cockle (*Agrostemma githago*), Docks (*Rumex* sp.), Sheep Sorrel (*Rumex acetocella*), Charlock or Wild Mustard (*Brassica kaber*), Plantains (*Plantago* sp.), 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* sp.), Catchfly (*Silene* sp.).

RULES FOR CERTIFICATION OF SWEET 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: Madrid and Spanish  
The list of eligible varieties is subject to change upon adequate notice to growers.
- III PLANTING STOCK must consist of Breeder's, Foundation, Registered or Certified seed.  
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.

RESTRICTIONS ON NUMBER OF VARIETIES PER FARM

Where foundation, registered or certified seed is being grown, 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 and the certification tags or "Certificate for the sale of small quantities of certified seed" or any other evidence of eligibility that was attached to the seed planted.
- II No applications will be accepted after July 31.
- III A penalty of \$5.00 per application will be charged for applications received between June 15 and July 31st.

FEEES

- I The APPLICATION FEE for sweet clover is \$10.00 for ten acres or less and \$0.50 for each acre over ten.
- II The charges for PURITY AND GERMINATION analyses are \$2.50 and \$1.50 per sample respectively.
- III SAMPLING AND TAGGING FEES are based on the number of pounds of seed certified. 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 \$5.00 will be charged for RE-INSPECTION of a FIELD that did not pass at the second inspection.

LAND REQUIREMENTS

- I Sweet clover planted for the production of FOUNDATION seed shall be planted only on land which has not grown sweet clover for a period of at least ten years.
- II Sweet clover planted for the production of REGISTERED or CERTIFIED seed shall be planted only on land where sweet clover has not been grown for a period of at least six years, unless the crop was of the same variety and passed field inspection for varietal purity.
- III 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.

FIELD INSPECTIONS

- I Two field inspections will be made: One when the first blossoms appear and one when the plants are mature and begin to set seed.
- II No field shall 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 ISOLATION FROM OTHER VARIETIES. Sweet clover for certification shall be isolated from all other varieties of sweet clover as follows:

| Class Planted | Class Produced | Fields less than 5 acres | Fields more than 5 acres |
|---------------|----------------|--------------------------|--------------------------|
| Breeder's     | Foundation     | 1 mile                   | 1 mile                   |
| Foundation    | Registered     | 990 feet                 | 660 feet                 |
| Registered    | Certified      | 350 feet                 | 350 feet                 |

The isolation distance from fields of the same variety but of unknown history shall be the same as above.

The isolation distance from fields of the same variety that are identified with the certification program shall be any margin of sufficient width to prevent mixture of lots.

- II In addition to the isolation requirements, all ditchbanks, fence rows, roadways and other places within the isolation distance, harboring sweet clover plants, must be kept mowed to prevent blooming.

FIELD TOLERANCES. Specific requirements: Maximum tolerances:

| Fields producing: | Foundation | Registered      | Certified        |
|-------------------|------------|-----------------|------------------|
| Other varieties   | None       | 1 plant per A.  | 20 plants per A. |
| Alfalfa           | None       | 5 plants per A. | 20 plants per A. |

Sweet clover fields must be free of the following weeds:

Dodder (*Cuscuta* spp.), 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 Madflax (*Linaria vulgaris*), Dogbane (*apocynum* spp.), White Top (Hoary Cress), Peppergrass (*Lepidium* and *Cardaria* spp. - all perennial species).

SEED STANDARDS Following are the seed standards for sweet clover:

|  | Registered | Certified  |             |
|--|------------|------------|-------------|
|  |            | Blue Tag   | Red Tag     |
| Pure Seed (Min.)                       | 98%        | 98%        | 97%         |
| Other crops (Max.)                     | None       | .5%        | .5%         |
| Inert matter (Max.)                    | 2%         | 2%         | 3%          |
| Weed Seed (Max)                        | .25%       | .4%        | .5%         |
| * Objectionable Weeds (Max.)           | 45 per Lb. | 90 per Lb. | 180 per Lb. |
| Germination (Min.)                     | 50%        | 70%        | 50%         |
| Total Germination and hard seed (Min.) | 85%        | 90%        | 85%         |

Sweet clover seed must be free of seeds of the weeds listed under "FIELD TOLERANCES".

\* Objectionable weeds are: Perennial Ragweed (*Ambrosia psilistachya*), Poverty Weed (*Iva axillaris*), Alkali Mallow (*Sida hederacea*), Docks (*Rumex* spp.), Corn Cockle (*Agrostemma githago*), Sheep Sorrel (*Rumex acetocella*), 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 GROWER IS REFERRED TO THE "GENERAL RULES FOR SEED CERTIFICATION" for ADDITIONAL INFORMATION AS PERTAINING TO ALL CROPS CERTIFIED.

RULES FOR CERTIFICATION OF VETCH 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: Willamette

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

III PLANTING STOCK. To be eligible for certification, the planting stock must consist of breeder's, foundation, registered, or certified stock.

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 Seed Branch, State Department of Agriculture.

APPLICATION FOR CERTIFICATION

- I Application for certification must reach the Seed Branch, State Department of Agriculture, Yakima, Washington not later than June 1, accompanied by the application fee and the certification tags, or "Certificate for the sale of small quantities of Certified Seed", or any other evidence of eligibility that was attached to the seed planted.
- II No applications will be accepted after June 30.
- III A penalty of \$5.00 will be charged for each application received between June 1 and June 30.

FEEES

- I The APPLICATION FEE FOR Vetch is \$10.00 for ten acres or less and \$0.50 for each acre over ten.
- II The charges for PURITY and GERMINATION ANALYSES are \$2.50 and \$1.50 per sample respectively.
- III SAMPLING and TAGGING FEES are based on the number of pounds of seed certified. 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 \$5.00 will be charged for RE-INSPECTION OF A FIELD THAT did not pass at the first inspection.

LAND REQUIREMENTS

A field to be planted for certification must not have grown or have been planted to vetch during the preceding three years.

FIELD INSPECTION

- I A field inspection will be made when the crop is in full bloom.
- 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 The maximum tolerance of other vetches is ten plants per acre.
- II Vetch fields must be free of the following weeds:  
 Dodder (*Cuscuta* spp.), Field Bindweed or Morning Glory (*Convolvulus arvensis*), Quackgrass (*Agropyron repens*), Russian Knapweed (*Centaurea repens*), White Top (Hoary Cress), Peppergrass (*Lededium* and *Cardaria* spp. - all perennial species).

SEED STANDARDS

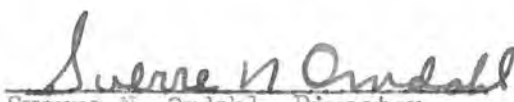
|                                 | Blue Tag   | Red Tag    |
|---------------------------------|------------|------------|
| Pure Seed (Min.)                | 98%        | 97%        |
| Other varieties (Max.)          | 0.5%       | 0.5%       |
| Other crop (Max.)               | 0.5%       | 1 %        |
| Inert Matter (Max.)             | 2%         | 3 %        |
| Weeds (Max.)                    | 0.2%       | 0.3%       |
| *Objectionable weeds (Max.)     | 20 per lb. | 45 per lb. |
| Total Germination and Hard Seed | 90%        | 85%        |

Certified vetch seed must be free of the following weed seeds:

Dodder (*Cuscuta* spp.), Field Bindweed or Morning Glory (*Convolvulus arvensis*), Quackgrass (*Agropyron repens*), Perennial Sowthistle (*Onchus arvensis*), Canada Thistle (*Cirsium arvense*), Russian Knapweed (*Centaurea repens*), Leafy Spurge (*Euphorbia esula*), Blue Lettuce (*Lactuca pulchella*), Yellow Toadflax (*Linaria vulgaris*), Dogbane (*Apocynum* spp.), White Top (Hoary Cress), Peppergrass (*Lepidium* and *Cardaria* spp. - all perennial species).

\*Objectionable weeds are: Wild Oats (*Avena* spp.), Perennial Ragweed (*Ambrosia psilistachya*), Poverty Weed (*Iva axillaris*), Alkali Mallow (*Sida hederacea*), Corn Cockle (*Agrostemma githago*), Docks (*Rumex* spp.), Sheep Sorrel (*Rumex acetocella*), 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 GROWER IS REFERRED TO THE "GENERAL RULES FOR SEED CERTIFICATION" FOR ADDITIONAL INFORMATION AS PERTAINING TO ALL CROPS CERTIFIED.

  
Sverre N. Omdahl, Director  
of Agriculture

Signed at Olympia, Washington, this 20th day of April, 1953.

STATE OF WASHINGTON  
DEPARTMENT OF AGRICULTURE  
Olympia

SEED DIVISION

ORDER NO. 703

CHANGES IN RULES FOR SEED CERTIFICATION FOR 1954

Order No. 649 Rules for Seed Certification with the following amendments, additions and deletions will constitute the 1954 Rules for Seed Certification of Red Clover Seed.

LAND REQUIREMENTS:

- I - Add to paragraph 1, "during three of which the land must be cultivated."
- II - Delete paragraph under II - Insert - "Foundation or registered seed for the production of certified seed shall be planted only on land on which no red clover has been seeded or grown for at least the preceding three years except that the time interval may be shortened one year if one cultivated crop or clean fallow has intervened."
- III - Length of Stand: Delete paragraph under III - Insert - "A stand of red clover will not be eligible to produce any class of certified seed after two seed crops. These seed crops may be produced either in the same on consecutive years."

FIELD STANDARDS:

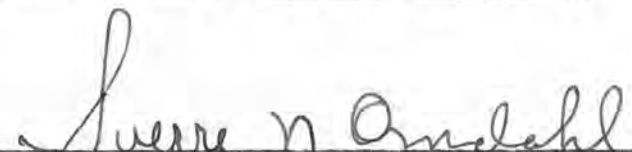
- V - Field Tolerances - Red Clover fields must be free of the following weeds: Insert - Horsenettle (Solanum carolinense), Fanweed - (Thlaspi arvense).


SEED STANDARDS:

| I PURITY                         | Foundation      |            | Registered |            | Certified Blue tag | Certified Red tag |
|----------------------------------|-----------------|------------|------------|------------|--------------------|-------------------|
|                                  | Pure seed (Min) | Delete 98% | Insert 99% | Delete 98% | Insert 99%         | Delete .3%        |
| Inert (Max)                      | Delete 2%       | Insert 1%  | Delete 2%  | Insert 1%  | Delete .25%        | Insert .25%       |
| Weed Seeds (Max)                 |                 |            |            |            | Delete .3%         | Delete .5%        |
|                                  |                 |            |            |            | Insert .25%        | Insert .25%       |
| *Objectionable weeds (Max total) |                 |            |            |            | Delete 180 per lb. |                   |
|                                  |                 |            |            |            | Insert 90 per lb.  |                   |

\*Objectionable weeds are: Insert - "giant foxtail (Setaria faberii), wild carrot (Daucus carota)

STATE OF WASHINGTON  
**FILED**  
MAR 22 1960  
CODE REVISER'S OFFICE  
DOCKET # 38 FILE # 5

  
Sverre N. Omdahl, Director of  
Agriculture

  
William H. Shaw, Supervisor of  
Horticulture

Signed at Olympia, Washington, this 2nd day of August, 1954.

16-316

Superseded by order #811 which  
becomes effective 30 days after  
its filing on May 3rd, 1960

# 754

STATE OF WASHINGTON  
DEPARTMENT OF AGRICULTURE

**RULES** *for*  
**SEED CERTIFICATION**



STATE OF WASHINGTON  
**FILED**  
MAR 22 1960  
CODE REVISER'S OFFICE  
DOCKET # 38 FILE # 5

CERTIFYING AGENCY

*Agricultural Seeds*

SEED BRANCH

STATE DEPT. OF AGRICULTURE  
Yakima, Washington

*Potatoes and other  
Horticultural Crops*

DIVISION OF AGRICULTURE  
AND MARKETING

STATE DEPT. OF AGRICULTURE  
Olympia, Washington

16-316

Order No. 754

## **SEED CERTIFICATION IN WASHINGTON**

Certification is conducted under authority of Chapter 233, Washington State Seed Law, 1955. The seed certification program is conducted by the Seed Branch, State Department of Agriculture, in cooperation with the State Crop Improvement Association, Washington Certified Seed Potato Growers Association, and the Institute of Agricultural Sciences, the State College of Washington.

F O R E W O R D

The State Department of Agriculture, in cooperation with the State College of Washington and the Crop Improvement Association, is trying to bring about more uniform standards and rules and regulations as they pertain to the certification of agricultural and horticultural seeds and crops.

Herein are the 1959 Rules for Seed Certification. For further information contact the Horticultural Office or Seed Branch Office in your vicinity. Your County Agent is also ready to assist you with any problems.

JOE DWYER  
Director of Agriculture

\* \* \* \* \*

WILLIAM H. SHAW, Supervisor  
Horticulture Division, Olympia

ALLEN BAKER, Supervisor  
Grain & Chemical Division

ROBERT ESCHBACH, Chief  
Seed Branch, Yakima

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**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   | Grasses  | Safflower         |
| Clover  | Lotus    | Sorghum *         |
| Corn    | Peas *   | Strawberry Plants |
|         | Potatoes | Vetch             |

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

- 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.
- 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.
- IV 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.

#### 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," said list being 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 bags of certified seed, upon completion of the cleaning process, 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.

## 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 the same year the field is planted. 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.

## Yearly Application

For all perennial crops, application has to be made each year for as many years as seed is harvested from the field. (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.

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

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<br>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                            |

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, Narrangansett, Du Puits, and Lahontan. 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 and Buffalo: Foundation seed is eligible to produce Registered seed.  
Registered seed is eligible to produce Certified seed.  
Certified seed is for forage production only.
- Vernal, Lahontan and Narragansett: Foundation seed is eligible to produce Certified seed only.  
Certified seed is for forage production only.
- Grimm, Ladak, Hardistan: Certified seed is eligible to produce Certified seed.
- Du Puits: Seed production shall be limited to one generation increase from imported seed stock lots approved by the International Crop Improvement Assoc.

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 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, 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 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.

### FEES

- I The APPLICATION FEE for alfalfa is \$10.00 for the first 10 acres or less and \$0.50 for each acre over 10.
- 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.

## FIELD STANDARDS

- I ISOLATION from OTHER VARIETIES. Alfalfa for certification shall be isolated from all other alfalfa varieties 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               |

- 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 crops      | 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<br>BLUE TAG |
|-----|---|------------|------------|-----------------------|
|     | Pure seed (min)   | 98.00%     | 98.00%     | 99.00%                |
|     | Other crops (max)   | 0.1%       | 0.1%       | .25%                  |
|     | Sweet clover (max)  | None       | None       | 90 per lb.            |
|     | Inert mat. (max)  | 2.00%      | 2.00%      | 1.00%                 |
|     | Weed seed (max)   | 0.1%       | 0.2%       | .25%                  |
|     | Objectionable weeds<br>See "General Rules"<br>(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 recleaned 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".

## 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  
Pinto: University of Idaho Numbers 111, 78, 72, and Columbia  
Glat Small White: University of Idaho Numbers 1, 2  
Michelite White Pea Beans  
Small White  
Small Pink

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

- 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 June 15 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 1.
- III A penalty of \$10.00 per application will be charged growers who apply between June 15 and July 1.

## 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

A field to be eligible for the production of certified seed must not have been planted to Beans the preceding year unless they were of the same variety and strain.

## 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<br>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%  |
| Anthracnose                           | None                            | .1% | .5%  |
| Mosaic (Seed Borne)                   | None                            | .5% | .5%  |

- V The Certifying Agency may conduct test plots representing the fields certified and withhold final certification of a field until a reading has been made to determine the factors of seed borne diseases. The tolerance of seed borne diseases will be designated by the Certifying Agency.
- VI The combined results of field inspections, laboratory tests and test plot readings when necessary, 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<br>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              |            | 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.

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## 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\*.

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\*.

Ryegrass: Perennial.

Tall Meadow Oatgrass: Tualatin.

Timothy: Climax\*, Drummond\*.

Wheatgrass: Greenar Intermediate\*, Topar Pubescent\*, Sodar

Streambank\*, Whitmar Beardless, Primar Slender\*, Standard

Crested, Nordan Crested\*, Fairway Crested\*.

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 and Potomac Orchardgrass 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 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 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 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.
- 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 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 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.

## 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 | \$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 Re-bagging 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.

#### 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:

|  | *<br>Symbol for<br>Type of<br>Reproduction | Minimum Isolation Distance<br>Required for Fields Producing: |            |                       |
|--|--|--|------------|-----------------------|
|  |  | Foundation   | Registered | Certified             |
| Strains at least<br>80% apomictic----  | a  | 10 rods  | 10 rods    | 1 rod-Clean<br>fallow |
| Strains entirely<br>apomictic-----     | A  | 10 rods  | 10 rods    | 1 rod-Clean<br>fallow |
| Highly self-fertil<br>species-----     | S  | 10 rods  | 10 rods    | 1 rod-Clean<br>fallow |
| All cross pollina-<br>ted 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.<br>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. |       | Min. % Pure Fndt. |       | Max % Inert Fndt. |       | Max % Weeds (3) Fndt. |       | Max % Other Crop Fndt. (1) |       | Max % seeds of other grass spp. |           |
|-----------------------------------|------------------|-------|-------------------|-------|-------------------|-------|-----------------------|-------|----------------------------|-------|---------------------------------|-----------|
|                                   | Reg.             | Cert. | Reg.              | Cert. | Reg.              | Cert. | Reg.                  | Cert. | Reg.                       | Cert. | Fndt.                           | Reg.      |
| Bentgrass (C)                     | 80               | 85    | 96                | 98    | 4                 | 2     | .1                    | .4(2) | .1                         | .5    | 1/10grms                        | 1/1 grms  |
| Bluegrass Sherman (a)             | 70               | 70    | 90                | 90    | 10                | 10    | .1                    | .3    | .1                         | .5    | 1/10grms                        | 1/1 grms  |
| Delta (a)                         | 75               | 75    | 90                | 90    | 10                | 10    | .1                    | .3    | .1                         | .5    | 1/10grms                        | 1/1 grms  |
| Merion (a)                        | 75               | 75    | 90                | 90    | 10                | 10    | .1                    | .3    | .1                         | .5(5) | 1/10grms                        | 2/1 grms  |
| Smooth Brome (C)                  | 80               | 85    | 90                | 90    | 10                | 10    | .1                    | .3(4) | .1                         | .5    | 1/50grms                        | 10/50grms |
| Mt. Brome (S)                     | 85               | 90    | 95                | 95    | 5                 | 5     | .1                    | .3(4) | .1                         | .5    | 1/50grms                        | 10/50grms |
| Alta Fescue (C)                   | 80               | 85    | 95                | 97    | 5                 | 3     | .1                    | .3    | .1                         | .5    | 2/50grms                        | 10/50grms |
| Hard Fescue (C)                   | 80               | 90    | 95                | 95    | 5                 | 5     | .1                    | .3    | .1                         | .5    | 1/50grms                        | 5/50grms  |
| Other Fescue (C)                  | 80               | 90    | 95                | 98    | 5                 | 2     | .1                    | .3    | .1                         | .5    | 1/50grms                        | 5/50grms  |
| Orchard Grass(C)                  | 80               | 85    | 85                | 90    | 15                | 10    | .1                    | .3    | .1                         | .5    | 3/50grms                        | 10/50grms |
| Tall Outgrass(C)                  | 75               | 75    | 90                | 95    | 10                | 5     | .1                    | .3    | .1                         | .5    | 1/50grms                        | 10/50grms |
| Ryegrass (C)                      | 85               | 90    | 96                | 98    | 4                 | 2     | .1                    | .3    | .1                         | .5    | 1/50grms                        | 5/50grms  |
| Wheatgrass Beardless (C)          | 80               | 85    | 90                | 90    | 10                | 10    | .1                    | .3    | .1                         | .5    | 1/50grms                        | 5/50grms  |
| Intermediate (C)                  | 80               | 85    | 95                | 95    | 5                 | 5     | .1                    | .3    | .1                         | .5    | 1/50grms                        | 5/50grms  |
| Pubescent (C)                     | 80               | 85    | 95                | 95    | 5                 | 5     | .1                    | .3    | .1                         | .5    | 1/50grms                        | 5/50grms  |
| Streambank (C)                    | 80               | 85    | 90                | 90    | 10                | 10    | .1                    | .3    | .1                         | .5    | 1/50grms                        | 5/50grms  |
| Crested (C)                       | 80               | 85    | 90                | 95    | 10                | 5     | .1                    | .3    | .1                         | .5    | 1/50grms                        | 5/50grms  |
| Slender (S)                       | 80               | 85    | 90                | 95    | 10                | 5     | .1                    | .3    | .1                         | .5    | 1/50grms                        | 5/50grms  |
| Mdw. foxtail (C)                  | 80               | 80    | 80                | 85    | 20                | 15    | .1                    | .3    | .1                         | .5    | 5/50grms                        | 15/50grms |
| Timothy (C)                       | 80               | 90    | 97                | 97    | 3                 | 3     | .1                    | .3    | .1                         | .5    | 1/50grms                        | 5/50grms  |

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

(2) Specific Tolerances for Bentgrass:

Tolerances for the seeds of Plantain spp., Big Mouse-ear Chickweed, Yarrow, Spotted Catsear and Dandelion, singly or collectively are as follows:  
 Colonial and Astoria .....900 per lb. Highland.....540 per lb.  
 Seaside and Penncross.....360 per lb.

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 seeds of weeds 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.

## 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, and Pennscott.  
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 registered seed (except for Pennscott, Kenland and Dollard where foundation seed produces certified seed).  
Registered seed produces certified seed.

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

Registered Pennscott seed may be planted for the production of Certified seed until August 1, 1959, and after that date the Registered class shall be discontinued.

## 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 seedlings must be accompanied by all the tags from the seed planted. Seedling applications must be filed in 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 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.

#### FEEES

- 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 re-classification 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.

## 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.

## 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:

| Fields Producing        | Foundation | Registered           | Certified             |
|-------------------------|------------|----------------------|-----------------------|
| Other Crops & Varieties | 0.00%      | 0.20%                | 0.50%                 |
| Alfalfa                 | None       | 5 plants per<br>acre | 10 plants per<br>acre |
| Sweet Clover            | None       | 5 plants per<br>acre | 20 plants per<br>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<br>Blue Tag |
|--|--------------|--------------|-----------------------|
| Pure seed (Min.)                         | 99.00%       | 99.00%       | 99.00%                |
| Other Crops (Max.)                       | 18 per pound | 0.10%        | 0.25%                 |
| Inert Matter (Max.)                      | 1.00%        | 1.00%        | 1.00%                 |
| Sweet Clover (Max.)                      | 9 per pound  | 45 per pound | 90 per lb.            |
| Weed Seed (Max.)                         | 0.15%        | 0.15%        | 0.25%                 |
| *Objectionable weeds<br>(Max. Total)     | None         | 45 per pound | 90 per lb.            |
| II GERMINATION                           |              |              |                       |
| Minimum total germination and hard seeds | 85.00%       | 85.00%       | 85.00%                |

Red Clover seed must be free of seeds of the PROHIBITED NOXIOUS WEEDS. \*Objectionable Woods are listed in the "General Rules".



RULES FOR CERTIFICATION OF WHITE CLOVER SEED  
1957

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 the year the field was planted.
- 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.

## 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:

|                    | Foundation | FIELDS PRODUCING Certified |
|--------------------|------------|----------------------------|
| 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                    | FIELDS PRODUCING |                    |
|-----------------------------|------------------|--------------------|
|                             | Foundation       | Certified Blue tag |
| Pure seed (Min.)            | 98.00%           | 99.00%             |
| Other Crops (Max.)          | .10%             | .30%               |
| Inert matter (Max.)         | 2.00%            | 1.00%              |
| Weed Seed (Max.)            | .10%             | .30%               |
| *Objectionable Weeds (Max.) | 10 per pound     | 90 per pound       |
| Sweet Clover                | None             | 90 per pound       |

## II GERMINATION:

Minimum total germination and hard seed

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".

## RULES FOR CERTIFICATION OF PENNCROSS CREEPING 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 (Penllu), 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. Fees: Application fee: \$40 for one (1) acre or less; \$5 for each additional acre for fields producing vegetative propagating material and \$20 for ten acres or less and \$1 for each acre over ten for fields producing seed.
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<br/>Material</u> | <u>Certified Vegetative<br/>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, growers name, date, and inspectors 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.