

TRANSMITTAL OF RULES ADOPTED

FROM: AGRICULTURE
(Name of Agency)

TO: CODE REVISER
LEGISLATIVE BLDG (Southwest Corner, Ground Floor)
Olympia 98501

The enclosed Permanent rules, being order No. 1148, 1149, 1150,
 Emergency rules, & 1151.
relating to (Name of rules or description of subject matter)

Seed Certification, Noxious Weeds, & Lab Testing Fees.

(ALTERNATIVE A. Use only for adoption of permanent rules)

pursuant to Notice No. 2581 ^① filed with the code reviser
on 3/9/70 ^② were regularly adopted as permanent rules of this
(date)
agency at Olympia, Washington on 4/16/70 and are herewith
(place) (date)
filed in the office of the code reviser pursuant to chapter 34.04
RCW. The effective date of such rules shall be 5/16/70 ^③

(ALTERNATIVE B. Use only for adoption of emergency rules)

pursuant to its finding that the immediate adoption of
these rules is necessary for the preservation of the public
health, safety, or general welfare and that observance of the
requirements of notice and opportunity to present views on
the proposed action would be contrary to the public interest,
were regularly adopted as emergency rules of this agency at
_____ on _____ and are herewith filed in
(place) (date)
the office of the code reviser pursuant to chapter 34.04 RCW.

Dated this 16th day of April 1970.

STATE OF WASHINGTON
FILED
APR 16 1970
CODE REVISER'S OFFICE
KET 7837 FILE # 22

AGRICULTURE
(AGENCY)
Donald W. Moos
BY DONALD W. MOOS
DIRECTOR
Title

① NOTICE NUMBER AS APPEARS ON THE COPY OF NOTICE RETURNED TO YOU BY RE-
VISER'S OFFICE (IF PROCEEDINGS WERE CONTINUED, USE NO. OF LAST NOTICE)
② STAMPED DATE AS APPEARS ON THE COPY OF NOTICE RETURNED TO YOU BY REVIS-
ER'S OFFICE (IF PROCEEDINGS WERE CONTINUED, USE DATE OF LAST NOTICE)
③ UNLESS A LATER DATE IS SPECIFIED IN THIS ORDER OR IS PRESCRIBED
IN ANOTHER STATUTE, RULES ARE EFFECTIVE 30 DAYS AFTER FILING:
RCW 34.04.040. LEAVE THIS SPACE BLANK EXCEPT IN SUCH SPECIAL CASES.

Chapter 16-300

NOXIOUS WEED SEEDS

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE
Order No. 1149
(Amending Order 946)
Effective May 16, 1970

NEW WAC 16-300-002 PROMULGATION. (This promulgation relates only to Order 946 and WAC 16-300-010 and WAC 16-300-001).

I, Donald W. Moos, director of agriculture of the state of Washington, by virtue of the authority vested in me under chapter 15.49 RCW, after due notice as provided under chapters 42.32 and 34.04 RCW, and a public hearing held in Yakima, Washington on April 1, 1970, do hereby amend Order 946 and WAC 16-300-010 and 020 and WAC 16-300-001.

AMD WAC 16-300-010 PROHIBITED NOXIOUS WEED SEEDS.

<u>English or Common Name</u>	<u>Botanical or Scientific Name</u>
Austrian fieldcress	Rorippa austriaca (Crantz) Bess.
Field bindweed	Convolvulus arvensis L.
Hedge bindweed	Convolvulus sepium L.
Camelthorn	Alhagi camelorum Fisch.
Canada thistle	Cirsium arvense (L.) Scop.
Hairy whitetop	Cardaria pubescens (C.A. Mey.)
Hoary cress	Cardaria draba (L.) Desv.
Leafy spurge	Euphorbia esula L.
Perennial pepperweed	Lepidium latifolium L.
Perennial sowthistle	Sonchus arvensis L.
Quackgrass	Agropyron repens (L.) Beauv.
Russian knapweed	Centaurea repens L.
Silverleaf nightshade	Solanum elaeagnifolium Cav.
Sorghum perennial such as, but not limited to, johnsongrass, sorghum alnum, and perennial sweet sudangrass	Sorghum spp.
Tansy ragwort	Senecio jacobaea L.
Yellow-flowering skeleton weed	Chondrilla juncea L.

AMD WAC 16-300-020 RESTRICTED NOXIOUS WEED SEEDS.

<u>English or Common Name</u>	<u>Botanical or Scientific Name</u>
Bermudagrass	Cynodon dactylon (L.) Pers.
Blue lettuce	Lactuca pulchella (Pursh.) DC.
Docks and Sorrel	Rumex spp.
Dodder	Cuscuta spp.
Field pennycress (fanweed)	Thlaspi arvense
Field sandbur	Cenchrus pauciflorus Benth.
Halogeton	Halogeton glomeratus (M.Bieb.) C.A. Mey.
Diffuse knapweed	Centaurea diffusa Lam.
Spotted knapweed	Centaurea maculosa Lam.
Medusahead	Elymus caput-medusae L. or Taeniatherum asperum (Sim.) Nevski
Pacific meadow-foxtail	Alopecurus myosuroides Huds. Fl. Angl.
Plantains	Plantago spp.
Poverty weed	Iva axillaris Pursh.

Puncturevine
St. Johnswort
Dalmation toadflax
Yellow toadflax
Western ragweed
Wild mustard

Wild oat
Yellow starthistle

Tribulus terrestris L.
Hypericum perforatum L.
Linaria dalmatica (L.) Mill.
Linaria vulgaris Hill.
Ambrosia psilostachya DC.
Brassica kaber (DC.) L.C.
 Wheeler Var.
Avena fatua L.
Centaurea solstitialis L.

I hereby certify that the foregoing is a true and correct copy of the regulations promulgated.



DONALD W. MOOS
Director of Agriculture
State of Washington

Signed at Olympia, Washington

Date: April 16, 1970

Chapter 16-316

SEED CERTIFICATION

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE
Order No.1148
Amending Orders 1111 and 1112
Effective May 16, 1970

NEW

WAC 16-316-0086 PROMULGATION. (This promulgation relates to WAC 16-316-010, 020, 025, 030, 045, 060, 080, 085, and 090 and WAC 16-316-0085, 009, and 0090).

I, Donald W. Moos, director of agriculture of the state of Washington, by virtue of the authority vested in me under chapter 15.49 RCW, after due notice as provided under chapters 42.32 and 34.04 RCW, and a public hearing held in Yakima, Washington on April 1, 1970, do hereby amend Order 1111 and WAC 16-318-010, 020, 025, 030, 045, 060, and 085 and do hereby amend Order 1112 and WAC 16-316-080 and do hereby repeal Order 1113 and WAC 16-316-090.

WAC 16-316-010 GENERAL SEED CERTIFICATION STANDARDS.

(1) Purpose of certification. The purpose of seed certification is to maintain and make available sources of high quality seeds and propagating materials of plant varieties so grown and distributed as to insure genetic identity and genetic purity. The word seed or seeds as used in these standards shall be understood to include all propagating materials.

(2) By whom certified. Seed certification in the state of Washington is conducted by the Washington State Department of Agriculture in cooperation with the Washington State Crop Improvement Association, Inc., Institute of Agricultural Sciences, Washington State University, and Association of Official Seed Certifying Agencies.

(a) Designation of the Washington State Crop Improvement Association, Inc. to assist in the certification of certain agricultural seeds was initiated in 1953. A revised memorandum of agreement between the Washington State Department of Agriculture and the Washington State Crop Improvement Association, Inc. was signed April 16, 1969, which designates the Washington Crop Improvement Association, Inc., to act as the director's duly-authorized agent for the purpose of certifying field peas, lentils, small grain, sorghum, and forest trees.

(b) Certification of seeds other than field peas, small grain, and sorghum shall be conducted by the Seed Branch, State Department of Agriculture, Yakima, Washington.

(c) The certification of horticultural plants or plant products shall be conducted by the Division of Plant Industry, State Department of Agriculture, Olympia, Washington.

(3) Varieties eligible. Only those varieties that are accepted by the certifying agency as meriting certification, in accordance with the criteria listed below shall be eligible for certification. For those crops where variety review boards do exist, it is recommended that varieties be submitted for review to determine their merit for certification.

(a) Acceptance of a variety for certification shall be based on the following:

(i) A statement and supporting evidence by the originator, developer or owner requesting certification that the variety has been adequately tested to determine its value and probable area of adaptation, and that it merits certification, and that it is distinguishable from other varieties, as set forth in Article 5, International Code of Nomenclature for Cultivated Plants, which reads as follows:

"The term cultivar (variety) denotes an assemblage of cultivated individuals which are distinguished by any characters (morphological, physiological, cytological, chemical or others) significant for the purposes of agriculture, forestry, or horticulture, and which, when reproduced (sexually or asexually) retain their distinguishing features."

(ii) A statement on origin and breeding procedure.

(iii) A description of the morphological characteristics, (such as color, height, uniformity, leaf, head or flower characteristics, etc.) physiological characteristics, disease and insect reactions, and any other identifying characteristics of value to field inspectors and such other pertinent factors as the breeder or sponsor considers relevant.

(iv) Evidence of performance, including data on yield,

insect or disease resistance and other factors supporting the value of the variety. These performance tests may be conducted by private seed firms or Agricultural Experiment Stations, and shall include appropriate check varieties which are used extensively in the area of intended usage.

(v) A statement giving suggested region of probable adaptation and purposes for which the variety will be used. This shall include where the breeder of the variety has tested it and anticipates recommending and merchandising.

(vi) Procedure for maintenance of stock seed classes shall be described. At the time a variety is accepted for certification, a sample lot of breeder seed shall be presented to the certifying agency. This to be retained as a control varietal sample against which all future seed stock released for certified seed production may be tested to establish continued trueness of variety.

(4) Limitation of generations. Except as provided elsewhere in this section, the number of generations through which a variety may be multiplied shall be limited to that specified by the originating breeder or owner of a variety, but shall not exceed two generations beyond foundation seed.

(a) The following exceptions to the above limitations of generations are permitted:

(i) Unlimited recertification of the certified class may be permitted for older crop varieties where foundation seed is not being maintained.

(ii) The production of an additional generation of the certified class may be permitted on a one-year basis when: An emergency is declared prior to the planting season by the certifying agency stating that foundation and registered seed supplies in the United States are not adequate to plant the needed acreage of the variety.

Permission of the originating breeder and/or owner of the variety is obtained (if applicable).

The additional generation of certified seed produced to meet the emergency need is declared to be ineligible for certification.

(5) Seed classes. Four classes of seed shall be recognized in seed certification, namely; breeder, foundation, registered, and certified.

(a) Breeder seed is seed or vegetative propagating material directly controlled by the originating, or in certain cases, the sponsoring plant breeder, institution, or firm. Breeder seed supplies the source for the initial and recurring increase of foundation seed.

(b) Foundation seed (identified by white tags) shall be first-generation seed increased from breeders seed or its equivalent. Production must be carefully supervised and approved by the certifying agency and/or the agricultural experiment station.

(c) Registered seed (identified by purple tags) shall be the progeny of foundation seed that is so handled as to maintain satisfactory genetic identity and purity and that has been approved and certified by the certifying agency.

(d) Certified seed (identified by blue tags) shall be the progeny of foundation or registered seed that is so handled as to maintain satisfactory genetic identity and

purity and that has been approved and certified by the certifying agency.

(6) Labels and sealing requirements. Certification tags, labels, and seals must be obtained from the certifying agency and must be attached to seed containers under the supervision of or by a representative of the certifying agency.

(a) Certification tags or labels shall be attached to the container in a manner that prevents easy removal and reattachment.

(b) Methods of sealing will depend upon the type of containers used and method of handling.

(c) Certified seed bulk sale certificates may be used in lieu of tags with the approval of the certifying agency.

(7) Agency deviation from certification standards. Seed that fails to meet certification requirements because of genetic purity is not eligible for tagging. At the discretion of the certifying agency, seed that fails to meet certification requirements on factors other than genetic purity may be designated substandard. The certification tag or labels attached to such seed shall clearly show the respects in which the seed is substandard.

(8) Agency power to reject. The certifying agency shall have authority to reject from certification any lot of seed not meeting these regulations.

(9) Rejection for color or appearance. The certifying agency reserves the right to refuse certification on any lot of seed if, in the opinion of the certifying agency, the color, appearance, or condition of the seed might be detrimental to the certification program.

(10) Agency power to refuse certification. The certifying agency shall have the authority to refuse certification if the labeling of containers is misleading or may tend to be confusing as to its contents.

(11) Specific crop regulations. Crops approved for certification for which rules are not in effect may be certified under the latest Minimum Rules for Seed Certification published by the Association of Official Seed Certifying Agencies. Fees for such certification shall be the most applicable fees in effect.

(12) Penalty. Person or company found guilty of violation or misuse or abuse of these regulations shall be subject to prosecution under the Washington State Seed Law.

(a) Proof of violation may result in removal of privileges of certifying, dealing in or handling certified seeds for at least one year.

(13) Prohibited noxious weeds. The following weeds shall be considered prohibited noxious weeds for the purpose of seed certification:

English or Common Name

Botanical or Scientific Name

Austrian fieldcress
Field bindweed
Hedge bindweed
Camelthorn
Canada thistle
Dodder
Hairy whitetop
Hoary cress

Rorippa austriaca (Crantz) Bess.
Convolvulus arvensis L.
Convolvulus sepium L.
Alhagi camelorum Fisch.
Cirsium arvense (L.) Scop.
Cuscuta spp.
Cardaria pubescens (C.A. Mey.)
Cardaria draba (L.) Desv.

English or Common Name

Botanical or Scientific Name

Leafy spurge
Pacific meadow-foxtail

Perennial pepperweed
Perennial sowthistle
Quackgrass
Russian knapweed
Silverleaf nightshade
Sorghum perennial such as,
but not limited to,
johnsongrass, sorghum
almum, and perennial
sweet sudangrass
Tansy ragwort
Yellow-flowering skeleton
weed

Euphorbia esula L.
Alopecurus myosuroides Huds.
Fl. Angl.
Lepidium latifolium L.
Sonchus arvensis L.
Agropyron repens (L.) Beauv.
Centaurea repens L.
Solanum elaeagnifolium Cav.

Sorghum spp.
Senecio jacobaea L.

Chondrilla juncea L.

(14) Objectionable weeds. The following weeds shall be considered objectionable weeds for the purpose of seed certification:

English or Common Name

Botanical or Scientific Name

Bermudagrass
Blue lettuce

Docks and Sorrel
Field pennycress
(fanweed)
Field sandbur

Halogeton

Diffuse knapweed
Spotted knapweed
Medusahead

Plantains
Poverty weed
Puncturevine
St. Johnswort
Dalmation toadflax
Yellow toadflax
Western ragweed
Wild mustard

Wild oat
Yellow starthistle

Cynodon dactylon (L.) Pers.
Lactuca pulchella
(Pursh.) DC.
Rumex spp.

Thlaspi arvense
Cenchrus pauciflorus
Benth.
Halogeton glomeratus
(M. Bieb.) C.W. Mey.
Centaurea diffusa Lam.
Centaurea maculosa Lam.
Elymus caput-medusae L. or
Taeniatherum asperum
(Sim.) Nevski
Plantago spp.
Iva axillaris Pursh.
Tribulus terrestris L.
Hypericum perforatum L.
Linaria dalmatica (L.) Mill.
Linaria vulgaris Hill.
Ambrosia psilostachya DC.
Brassica kaber (DC.) L.C.
Wheeler Var.
Avena fatua L.
Centaurea solstitialis L.

(15) Procedure to follow for certification. Persons who wish to participate in this program must submit applications for seed certification in accordance with the requirements of these regulations and specific rules for each crop. The responsibility for payment of all fees rests with the applicant. (Applications are available from certified seed processors, county agents, or the Seed Branch office in Yakima.)

(a) Seedling applications (applications for new planting of alfalfa, clover and grasses) are to be submitted as follows:

(i) Separate applications must be submitted for each crop.

(ii) Applications are due with a \$10.00 application fee within sixty days after planting. Applications may be accepted up to six months after planting, however, late applications (those received more than sixty days after planting) are assessed a \$10.00 late application fee.

(iii) Attach official tags from seed stock planted or other verification of seed stock used.

(iv) Additional fees are not required when it is necessary for a grower to reseed due to failure to get a stand. The grower shall advise the certifying agency the date of reseeding, and submit proof of seed stock used to reseed. Reseeding must be done within one year of original planting date.

(b) Annual crops (beans, peas, grain): A producing application must be submitted each year a grower plans to produce seed for certification.

(i) A separate application is required for each crop.

(ii) Attach official tags from seed stock planted or other verification of seed stock used.

(c) Perennial crops, (alfalfa, clover, grass): After a stand is established, a renewal application shall be submitted each year that a grower plans to produce seed for certification.

(d) Refer to certification regulations for the specific crop you plan to certify.

(16) All growers in the certification program shall: (a) Show that reasonable precaution has been taken to control contaminating crops and varieties, noxious weeds, and seed-borne diseases.

(b) Exercise precaution to prevent crop and lot mixture when harvesting.

(c) Identify his crop with the assigned field number on each bag or box he delivers to the processor.

(d) Have his seed cleaned at a processing plant which has been approved by the Seed Branch, Department of Agriculture.

(e) Obtain approval of the certifying agency to raise more than one variety of the same crop.

(f) Obtain approval of the certifying agency to ship seed eligible for certification out-of-state for processing. (Report forms available from Seed Branch, Box 617, Yakima).

(i) Advise certifying agency of destination, shipping weight, lot number, field number, expected date of shipment and other information concerning shipment that may be deemed necessary.

(ii) Advise certifying agency date of arrival, receiving weight and lot number.

(iii) Upon completion of processing, advise certifying agency of clean weight, lot number, screenings weight, bag count and have a sample drawn by a representative of the certifying agency in that state and submit sample to Seed Branch, Box 617, Yakima for testing.

(iv) Washington certification tags and seals will be mailed to nearest representative of the certifying agency if interstate tags are not used.

(v) Applicant is responsible for fees incurred under Washington's certification program and additional fees that may be assessed by any out-of-state cooperating agency.

(17) Field inspections. Field inspections shall be made as follows:

(a) A seedling field shall be inspected at the most

appropriate time after receipt of seedling application. The inspection will be repeated prior to harvest in case the field produces seed the same season.

(b) Field inspections shall be made each year that a crop of certified seed is to be produced while the crop is in blossom or when factors affecting certification are most evident.

(c) A field will not be eligible for certification unless a field inspection has been made.

(d) 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.

(e) A field producing foundation or registered seed that warrants a rejection because of noxious weeds may be reclassified to certified blue tag class if upon reinspection these fields meet certified blue tag standards.

(f) If a field is rejected, the grower may apply for reinspection after the cause for rejection has been corrected. No more than two reinspections will be granted each field. (See specific crop rules for reinspection fee).

(18) The seed processor shall: (a) Notify the Seed Branch, State Department of Agriculture, of their intent to process seed for certification.

(b) Request the Seed Branch to inspect their plant to determine if they can be approved to process seed for certification. Upon approval their name shall be added to the list of approved processing plants.

(c) Handle all seed for certification in a manner so as to prevent mixture of lots, clearly identifying each lot with a lot number.

(d) Show evidence of clean maintenance. Installations shall be easily accessible for cleaning and inspection and all equipment must be thoroughly cleaned between lots.

(e) Obtain approval from the certifying agency for handling seed for certification in bulk.

(f) Dispose of screenings in compliance with the Washington State Seed Law.

(g) Obtain approval from the certifying agency to ship seed for certification out-of-state for processing.

(h) Have his permit to process seed for certification rescinded should a subsequent inspection reveal that the processing of seed for certification is not being handled in the manner prescribed when the approval was granted and the operator fails to take corrective measures. The name of the establishment will then be removed from the list of approved processors, and the growers of seed for certification notified of the same.

(19) Containers and lot numbers. (a) When harvesting, use clean equipment and take all precautions to prevent mixture. The field number must be put on all containers to insure identity when delivered to the cleaning plant.

(b) All seed for certification shall be packaged in clean, new containers of uniform weight and identified with a lot number when tagged and sealed.

(c) The required lot number shall identify the producer and year of production for each lot of seed. This requirement may be satisfied by use of a processor's code.

(20) Sampling. A representative sample of each lot of seed for certification shall be obtained by the certifying agency for laboratory analysis. The entire lot must be

cleaned and in condition for sale at the time of sampling.

(21) Analysis and definitions. (a) Analysis of seed samples 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.

(b) Upon completion of the cleaning process at the cleaning plant, a representative of the certifying agency will obtain a sample of the seed for the purpose of making a purity and germination analysis at the seed laboratory.

(22) Withdrawal from certification. The applicant may withdraw a field from certification by notifying the certifying agency before the field is inspected. The acreage fee only is refundable.

(23) Official certification seal. When the purity and germination tests are completed and the seed is found to meet the required standards, certification tags shall be sealed to each bag with the official certification seal.

(24) Organization for Economic Cooperation and Development Certification Scheme. (a) O.E.C.D. certification is an international certification scheme limited to Federal Government membership. O.E.C.D. certification is implemented in the United States in cooperation with participating states through memorandum of agreement with Agricultural Research Service, U.S.D.A.

(b) Only those crop varieties listed in O.E.C.D. publication "List of Cultivars Eligible for Certification Under O.E.C.D. Scheme" will be considered for O.E.C.D. certification in Washington.

(c) Seed stock of foreign origin must be officially sealed and carry the white "Basic Seed" tag to be eligible for O.E.C.D. certification. Seed stock of the United States varieties must be foundation class to be eligible for O.E.C.D. certification.

(d) All lots of "Basic Seed" to be used for planting stock must be sampled by the Washington State Department of Agriculture before seals are broken. If this procedure is not followed, the seed will lose its O.E.C.D. eligibility.

(e) Certification requirements as listed in Washington certification standards for each specific crop will be followed on all varieties: except, seed produced for foreign varieties grown under the O.E.C.D. scheme will be O.E.C.D. certified as to genetic purity only in regard to seed standards. Seed will not be required to meet Washington minimum purity or germination seed standards, however, all seed must be officially sampled and tested prior to tagging.

(f) O.E.C.D. tags will be printed and issued according to O.E.C.D. requirements.

(g) A fee of \$10.00 for each O.E.C.D. Certificate shall be payable by the person requesting the O.E.C.D. Certificate.

AMD WAC 16-316-020 ALFALFA SEED CERTIFICATION STANDARDS.

(1) The general rules for seed certification are basic and together with the following specific regulations constitute the rules for alfalfa seed certification.

(2) Varieties eligible. Following are the varieties

eligible and the certification scheme for each:

Alfa*P	Glacier*P	Scout*P
A-24**P	Ladak**	Team*
Apex*P	Ladak 65*P	Tempo*P
Arnim*P	Lahontan*	Titan*P
Atra-55*P	Narragansett**	Vernal*
Cayuga*	Norseman*P	Washoe*
Culver*	Ranger**	WL-210*P
Dawson*	Saranac*	WL-215*P
DuPuits*P		520*P
		525*P

*These varieties are certified on a limited generation basis where:
 Foundation seed is eligible to produce certified seed;
 Certified seed is not eligible for re-certification.

**These varieties are certified on the generation basis where:
 Foundation seed is eligible to produce registered seed;
 Registered seed is eligible to produce certified seed;
 Certified seed is not eligible for re-certification.

P - Proprietary varieties.

(3) Certification fees.

- (a) Seedling applications: (Due within sixty days after planting, however, acceptable up to six months after planting with late penalty fee.)
- (i) Seedling application fee.....\$10.00
 - (ii) Late penalty fee.....\$10.00
 (This additional fee shall be charged for each seedling application received more than sixty days after planting.)
 - (iii) Acreage fee.....\$.50 per acre
 (Applies only to seedling fields harvested for certified seed the year of planting.)
 (Refundable if acreage is withdrawn before inspection.)
 The certifying agency must be notified by July 31 of seedling fields that will be harvested for certification.
- (b) Renewal applications: (Due June 15)
 (Accepted until July 31 with late penalty fee)
- (i) Renewal application fee.....\$10.00
 - (ii) Acreage fee.....\$.50 per acre
 (Refundable if acreage is withdrawn before inspection.)
 - (iii) Late penalty fee.....\$10.00
 (This additional fee shall be charged for each renewal application received after June 15.)
- (c) Reinspection.....\$10.00 each.
 If a field is rejected for certification, the grower may apply for reinspection after the cause for rejection has been corrected. Only two reinspections are permitted for each field each year.
- (d) Sampling.....\$.15 per 100 lbs.
 - (e) Tagging.....\$.15 per 100 lbs.

The tagging fee is billed at completion of germination test and payable in advance of tagging. If a lot of seed is eligible for tagging and none of the seed is tagged, 10 cents of the 15 cents cwt. charged is refundable upon request. Request for this refund must be submitted by August 1 of the year following harvest.

(f) Purity & germination test.....Fees as established by the director of agriculture.

(g) Fees for resampling, retagging, or services not listed in this order, shall be the most applicable fee established by the director of agriculture.

(4) Land requirements.

(a) A field to be planted with breeder seed for the production of foundation seed, or with foundation seed for the production of registered seed, must not have grown or have been seeded to alfalfa during the preceding four years.

(b) 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.

(c) Reseeding of a field due to failure or partial failure of the first seeding may be done with permission of the certifying agency.

(d) Ditchbanks, roadways, etc. adjacent to a certified field must be free of volunteer alfalfa and prohibited noxious weeds.

(e) Volunteer alfalfa plants in the field may be cause for rejection or reclassification of a seed field.

(f) No manure or other contaminating materials shall be applied during the establishment and production period of the stand.

(5) Isolation requirements.

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

Class Being Produced	Fields less than five acres	Fields five acres or more
Foundation	900 feet	600 feet
Registered	450 feet	300 feet
Certified	150 feet	150 feet

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

Class Being Produced	Distance required from field planted with:	
Foundation	Foundation)	150 feet
	Registered or)	
Registered	Registered.)	50 feet
	Certified or)	
Certified	Certified	50 feet

(c) In cases where an adjoining field is planted with a different variety of alfalfa, or alfalfa of a lower class, isolation may be obtained by measuring off the required strip in the certified field. This isolation strip may be mowed for hay or it may be harvested for uncertified seed under the following conditions:

(i) The grower must apply for certification of the entire field and clearly stake off the isolation strip. The entire field must pass all certification requirements, except for isolation at time of inspection. The field report will show rejection due to lack of isolation.

(ii) The grower may harvest either the certified portion of the field, or the uncertified isolation strip first and deliver this portion to the processing plant. After this seed is weighed and lotted in, the grower will request a reinspection of the uncut portion. After reinspection, if everything is in order, the field will be passed and the remainder of the field can then be harvested.

(6) Field tolerances shall be as follows:

	Field Producing *		
	Foundation	Registered	Certified
Other varieties	0.20%	0.5%	1.0%
Sweet clover	none	5 plants per acre	20 plants per acre
Red clover	none	5 plants per acre	20 plants per acre

* Alfalfa fields must be free of prohibited noxious weeds.

(7) Seed standards shall be as follows:

Purity		Blue Tag		
		Foundation	Registered	Certified
Pure Seed	(Min.)	99.00%	99.00%	99.00%
Other crops	(Max.)	.10%	.10%	.25%
Sweet clover	(Max.)	none	none	90 per lb.
Inert matter	(Max.)	1.00%	1.00%	1.00%
Weed seed	(Max.)	.10%	.20%	.25%
Objectionable weed seeds:				
Max. Total		none	none	18 per lb.

<u>Germination</u>				
(Min. total germination and hard seed.)		80.00%	85.00%	85.00%

(a) Alfalfa seed must be free of prohibited noxious weed seeds.

(b) Foundation or registered seed that has been rejected in the laboratory for prohibited noxious weed seeds may be reclassified to the certified blue tag class but shall not be eligible for seed stock even though it is recleaned and meets certification standards.

WAC 16-316-025 BEAN SEED CERTIFICATION STANDARDS.

(1) The general rules for seed certification are basic and together with the following specific regulations constitute the regulations for certification of bean seed.

(2) Varieties eligible.

Great Northern: U of I numbers 31 and 123
 Red Mexican: U of I numbers 34, 36, and Bigbend
 Pinto: U of I numbers 111 and 114
 Pink: Sutter
 Small White: #53
 Kidney: Royal Red
 Snap Bean: Yakima and Apollo

(a) As the list of eligible varieties is subject to change, other varieties may be eligible upon approval of the certifying agency.

(b) Planting stock for Bigbend Red Mexican, Royal Red Kidney Beans, and Yakima Snap Beans shall be foundation or registered class. Planting stock for other varieties may be foundation, registered, or certified blue tag class.

(3) Certification fees.

(a) Application for certification: (Due July 1st, however, acceptable until July 15 with late penalty fee.)

- (i) Application fee.....\$10.00
- (ii) Acreage fee.....\$ 1.00 per acre.
 (Refundable if acreage is withdrawn before inspection. \$.50 of the \$1.00 acreage fee is refundable if the third inspection was not made.)
- (iii) Late penalty fee.....\$10.00
 (This additional fee shall be charged for each application received after July 1.)

(b) Reinspection fee.....\$10.00
 If a field is rejected from certification, for reasons other than bacterial diseases by the first or second inspection, the grower may apply for reinspection after the cause for rejection has been corrected.

(c) Sampling fee.....\$.02 per 100 lbs.
 (minimum fee \$4.00)

(d) Tagging fee.....\$.10 per 100 lbs.

(e) Purity & germination test.....Fees as established by the director of agriculture.

(f) Fees for resampling, retagging, or services not listed in this order shall be the most applicable fee established by the director of agriculture.

(4) Land requirements.

(a) A field to be eligible for the production of certified seed must not have been planted to beans of the same variety and strain the preceding three years, unless the previous crops were under certification and free of bacterial blight.

(b) A field will not be eligible for production of certified seed for more than two consecutive years.

(5) Field tolerances shall be as follows:

	Field Producing		
	Foundation	Registered	Certified
Other varieties or off-type plants	none	0.1%	0.2%
Other crops	none	0.1%	0.1%
Total seed-borne diseases	none	0.5%	1.5%
Bacterial bean blights and wilt	none	0.0%	0.0%
Anthraxnose	none	none	none
Mosaic seed-borne	none	0.5%	0.5%

(a) Beans grown under sprinkler irrigation will not be eligible for certification.

(b) Fields must be rogued of weeds, off-type plants, volunteer plants, and plants showing symptoms of seed-borne diseases.

(c) A field to be eligible for certification must have clean, cultivated boundaries at least ten feet wide.

(d) 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.

(6) Inspection requirements shall be as follows:

(a) At least three field inspections will be made.

(i) When the plants are at the third-leaf stage.

(ii) When the plants are grown.

(iii) When the crop is in the windrow.

(b) A greenhouse test may be required if the certifying agency deems it necessary.

(c) The combined results of field inspection, laboratory test, and greenhouse test, when required, will determine final certification.

(7) Seed standards shall be as follows:

Purity		Foundation	Registered	Blue Tag Certified
Pure Seed	(Min.)	98%	98%	98%
Other Crops & Varieties	(Max.)	none	none	2/100 lbs.
Badly damaged	(Max.)		2%	2%
Inert Matter	(Max.)		2%	2%
Splits & Cracks	(Max.)		2%	2%
Weed Seed	(Max.)		none	none

<u>Germination</u>				
(minimum)			85%	85%

(a) Total inert matter, splits and cracks, and badly damaged shall not exceed 2% except for foundation seed.

(b) Test reports will show percent of discolored beans for information only.

(c) 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.

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WAC 16-316-030 GRASS SEED CERTIFICATION STANDARDS.

(1) The general rules for seed certification are basic and together with the following specific regulations constitute the rules for grass seed certification.

(2) Varieties eligible. Following are the varieties eligible and the certification scheme for each:

Big Bluegrass:	Sherman**
Kentucky Bluegrass:	Baron*, Delft*, Delta*, FS200**, Fylking (patented)**, Kenblue*, Merion**, Newport**, Nugget*, Park**, Sodco*, Sydsport*, Windsor (patented)*
Meadow Bromegrass:	Regar**
Smooth Bromegrass:	Baylor*, Carlton*, Manchar**, Sac*, Saratoga*
Fescue:	Chewings***, Barfalla Chewings*, Highlight Chewings*, Durar Hard**, Boreal Red*, Olds Red***, Pennlawn Red*, Alta Tall**, Fawn Tall*
Tall Oatgrass:	Tualatin**
Orchardgrass:	Latar**, Pennlate*, Potomac*
Perennial Ryegrass:	NK-100*, Norlea*, Pelo*
Timothy:	Clair**, Climax*, Essex*, Verdant*
Wheatgrass:	Whitmar Beardless**, Nordan Crested**, Amur Intermediate***, Greenar Intermediate**, Oahe Intermediate*, Tegmar Intermediate*, Greenleaf Pubescent*, Luna Pubescent**, Topar Pubescent**, Primar Slender**, Sodar Streambank**, Alkar Tall**, Siberian**

*These varieties are certified on a limited generation basis where:

Foundation seed is eligible to produce certified seed;
Certified seed is not eligible for recertification.

**These varieties are certified on the generation basis where:

Foundation seed is eligible to produce registered seed;
Registered seed is eligible to produce certified seed;
Certified seed is not eligible for recertification.

***These varieties are not certified on generation basis:
Certified seed is eligible to produce certified seed.

(3) Certification fees.

(a) Seedling applications: (Due within sixty days after planting, however, acceptable up to six months after planting with late penalty fee.)

(i) Seedling application fee.....\$10.00

(ii) Late penalty fee.....\$10.00

(This additional fee shall be charged for each seedling application received more than sixty days after planting.)

(b) Renewal application: (Due May 15.)

(Accepted until July 15 with late penalty fee)

(i) Renewal application fee.....\$10.00

(ii) Late penalty fee.....\$10.00

(This additional fee shall be charged for each renewal application received after May 15.)

(c) Reinspection.....\$10.00 each.

If a field is rejected for certification, the grower may apply for reinspection after the cause for rejection has been corrected. Only two reinspections are permitted for each field each year.

(d) Sampling.....\$.15 per 100 lbs.

(e) Tagging and production fee.....\$.35 per 100 lbs.

(f) Purity & germination test.....Fees as established by the director of agriculture.

(g) Fees for resampling, retagging, or services not listed in this order, shall be the most applicable fee established by the director of agriculture.

(4) Land requirements.

(a) A field to be planted with breeder seed for the production of foundation seed must not have grown or have been seeded to the same species, sub-species, variety, or strain of grass during the preceding five years. The field must be planted in spaced rows and cultivated to maintain the rows.

(b) A field to be planted with foundation seed for the production of registered seed must not have grown or have been seeded to the same species, sub-species, variety, or strain of grass during the preceding three years.

(c) A field to be planted with foundation, registered, or certified seed for the production of certified seed must not have grown or have been seeded to the same species, sub-species, variety or strain of grass during the preceding year unless the previous planting was of the same species, sub-species, variety, or strain and eligible to produce foundation, registered or certified seed.

(d) Reseeding of a field because of failure or partial failure of the first seeding may be done with permission of the seed branch.

(e) Grasses growing in fence rows and other areas adjacent to the field must be controlled by methods that prevent blooming.

(f) Pennlate Orchardgrass shall not be eligible to produce certified seed after six years of vegetative growth excluding the seedling year. A breeder planting shall be eligible for foundation production for the first three years. Such plantings shall be reclassified to certified production for the last three years.

(5) Isolation requirements.

(a) A seed field to be eligible for the production of foundation, registered or certified seed must be isolated from any other variety or strain of the same species in accordance with the requirements in the following table:

Symbol for Type of Reproduction	Minimum Isolation Distance Required for Fields Producing:		
	Foundation	Registered	Certified
Strains at least 80% Apomictic - - - - A	165 feet	165 feet	16.5 feet clean fallow
Highly Self-Fertile Species - - - - - S	165 feet	165 feet	16.5 feet clean fallow
All Cross Pollinated Species - - - - - C	900 feet	300 feet	150 feet

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

Class Seed Planted	Class Seed Produced	Distance Required From Nearest Field Producing
Breeder	Foundation	Registered - - - 110 feet
"	"	Certified - - - 225 feet
Foundation	Registered	Certified - - - 110 feet

(c) Border removal for grass isolation: If it is not possible to provide minimum isolation distances for fields exceeding 5 acres in area, border removal is permitted. Border removal requires removal of the portion of the field being certified that is adjacent to the contaminating source. Minimum distances required for border removal are as follows:

<u>Border to be removed from the field being certified</u>	<u>Minimum Isolation Distance Required for Fields Producing:</u>		
	<u>Foundation</u>	<u>Registered</u>	<u>Certified</u>
0 ft.	900 ft.	300 ft.	150 ft.
15 ft.	450 ft.	150 ft.	75 ft.

- (i) The grower must apply for certification of the entire field and before inspection clearly stake off the border removal portion.
- (ii) A reinspection will be required after harvest of the certified portion of the field.
- (iii) The border removal portion of the field may be harvested for uncertified seed under the following conditions:
- (A) The entire field must pass all certification requirements except for isolation at time of inspection. The field report will show rejection due to lack of isolation.
- (B) The grower will harvest the certified portion of the field first and deliver this seed to the processing plant. After seed is weighed and lotted in, the grower will request a reinspection of the uncut border strip. After reinspection, if everything is in order, the field will be passed and the border strip can then be harvested as uncertified seed.
- (6) Field tolerances shall be as follows:
- (a) Maximum other varieties permitted in fields producing:
Foundation: 0% Registered: 0.5% Certified: 1%
- (b) Grass fields must be free of weeds listed as prohibited noxious in the current general rules for seed certification.
- (7) Seed standards for Grasses shall be as follows:

(See chart - next page)

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Crop & its type of Reproduction	Symbol *	Min. % Germ Fndt.		Min. % Pure Fndt.		Max. % Inert Fndt.		Max. % Weeds (b)		Max. % Other Crop Fndt. (a)		Max. No. seeds of other grass spp.	
		Reg.	Cert.	Reg.	Cert.	Reg.	Cert.	Reg.	Cert.	Reg.	Cert.	Fndt.	Reg.
Bluegrass													
Sherman	(A)	70	70	90	90	10	10	.05	.3	.03	.5	1/10 grams	1/1 grams
Ky. Type	(A)	80	80	97	97(d)	3	3	.05	.3	.03	.5	1/10 grams	1/1 grams
Merion	(A)	90	80	92	92(d)	8	8	.05	.3	.03	.5(d)	1/10 grams	2/1 grams
Smooth Brome	(C)	80	85	95	95	5	5	.05	.3(c)	.1	.5	1/50 grams	10/50 grams
Meadow Brome	(C)	80	85	95	95	5	5	.05	.3(c)	.1	.5	1/50 grams	10/50 grams
Fescue													
Alta	(C)	80	85	95	97	5	3	.03	.3	.1	.5	2/50 grams	10/50 grams
Hard Fescue	(C)	80	90	95	95	5	5	.03	.3	.1	.5	1/50 grams	5/50 grams
Other Fescue	(C)	80	90	98	98	2	2	.03	.3	.1	.5	1/50 grams	5/50 grams
Orchardgrass	(C)	80	85	85	90	15	10	.03	.3	.1	.5	3/50 grams	10/50 grams
				80 for Pennlate & Latat									
Tall Outgrass	(C)	75	75	90	95	10	5	.1	.3	.1	.5	1/50 grams	10/50 grams
Ryegrass	(C)	85	90	96	98	4	2	.1	.3	.1	.5	1/50 grams	5/50 grams
Wheatgrass													
Beardless	(C)	80	85	90	90	10	10	.1	.3	.1(e)	.5	1/50 grams	5/50 grams
Intermediate	(C)	80	85	95	95	5	5	.1	.3	.1(e)	.5	1/50 grams	5/50 grams
Pubescent	(C)	80	85	95	95	5	5	.1	.3	.1(e)	.5	1/50 grams	5/50 grams
Streambank	(C)	80	85	90	90	10	10	.1	.3	.1(e)	.5	1/50 grams	5/50 grams
Crested	(C)	80	85	90	95	10	5	.1	.3	.1(e)	.5	1/50 grams	5/50 grams
Slender	(S)	80	85	90	95	10	5	.1	.3	.1(e)	.5	1/50 grams	5/50 grams
Tall	(C)	80	85	95	95	5	5	.1	.3	.1(e)	.5	1/50 grams	5/50 grams
Timothy	(C)	80	85	97	97	3	3	.1	.3	.1	.5	1/50 grams	5/50 grams

(a) Not to exceed twenty-five hundredths of one percent (.25%) other grass species for certified seed.

(b) 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 current general rules.) Grass seed must be free of the seeds of prohibited noxious weeds.

(c) A tolerance of .5% will be allowed for samples containing weedy bromus spp., provided the total of all other weed seeds does not exceed .3%.

(d) A tolerance of 3% common or other Kentucky-type bluegrass will be allowed in certified Merion bluegrass. 3% Merion will be allowed in certified common or other Kentucky-type bluegrasses containing a minimum of 97% Kentucky bluegrass.

(e) A tolerance of .8% will be allowed in registered and certified wheatgrass containing small grain seed providing the total of all other crop seed does not exceed .1% for registered class and .5% for certified class.

* Symbols are defined in chart under (5) Isolation Requirements.

WAC 16-316-045 RED CLOVER SEED CERTIFICATION STANDARDS.

(1) The general rules for seed certification are basic and together with the following specific regulations constitute the rules for red clover seed certification.

(2) Varieties eligible. Following are the varieties eligible and the certification scheme for each:

Chesapeake
Kenland
Lakeland

Ottowa
Pennscott

These varieties are certified on a limited generation basis where:

Foundation seed is eligible to produce certified seed; Certified seed is not eligible for re-certification.

- (3) Certification fees.
 - (a) Seedling applications: (Due within sixty days after planting, however, acceptable up to six months after planting with late penalty fee.)
 - (i) Seedling application fee.....\$10.00
 - (ii) Late penalty fee.....\$10.00
(This additional fee shall be charged for each seedling application received more than sixty days after planting.)
 - (iii) Acreage fee.....\$.50 per acre
(Applies only to seedling fields harvested for certified seed the year of planting.)
(Refundable if acreage is withdrawn before inspection.)
- The certifying agency must be notified by July 31 of seedling fields that will be harvested for certification.
- (b) Renewal applications: (Due June 15)
(Accepted until July 31 with late penalty fee)
 - (i) Renewal application fee.....\$10.00
 - (ii) Acreage fee.....\$.50 per acre
(Refundable if acreage is withdrawn before inspection.)
 - (iii) Late penalty fee.....\$10.00
(This additional fee shall be charged for each renewal application received after June 15.)
 - (c) Reinspection.....\$10.00 each.
If a field is rejected for certification, the grower

may apply for reinspection after the cause for rejection has been corrected. Only two reinspections are permitted for each field each year.

- (d) Sampling.....\$.15 per 100 lbs.
- (e) Tagging.....\$.15 per 100 lbs.

The tagging fee is billed at completion of germination test and payable in advance of tagging. If a lot of seed is eligible for tagging and none of the seed is tagged, ten cents of the fifteen cents cwt. charged is refundable upon request. Request for this refund must be submitted by August 1 of the year following harvest.

- (f) Purity & germination test.....Fees as established by the director of agriculture.

(g) Fees for resampling, retagging, or services not listed in this order, shall be the most applicable fee established by the director of agriculture.

(4) Land requirements.

(a) A field to be planted with breeder seed for the production of foundation seed must not have grown or have been seeded to red clover during the preceding six years, three years of which the land must have been cultivated.

(b) A field to be planted with foundation seed for the production of certified seed must not have grown or have been seeded to red clover during the preceding three years. The time interval may be shortened one year if one cultivated crop or clean fallow has intervened.

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

(d) Reseeding of a field, because of failure or partial failure of the first seeding, may be done with permission of the certifying agency.

(e) Ditchbanks, roadways, etc. adjacent to a certified field must be free of volunteer red clover and prohibited noxious weeds.

(f) Volunteer plants in the field may be cause for rejection or reclassification of the seed field.

(g) No manure or contaminating material shall be applied one year preceding, or during the establishment and productive period of the stand.

(h) A stand of red clover over three years old is not eligible for certification.

(5) Isolation requirements.

(a) Red Clover for certification shall be isolated from all other red clover varieties or fields of the same variety not meeting varietal purity requirements for certification as follows:

Class Being Produced	Fields less than five acres	Fields five acres or more
Foundation	900 Feet	600 Feet
Certified	150 Feet	150 Feet

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

Class Being Produced	Distance required from field planted with:	
Foundation	Foundation	150 feet
	Certified	
Certified	Certified	50 feet

(c) In cases where an adjoining field is planted with a different variety of red clover, or red clover of a lower class, isolation may be obtained by measuring off the required strip in the certified field. This isolation strip may be mowed for hay or it may be harvested for uncertified seed under the following conditions:

(i) The grower must apply for certification of the entire field and clearly stake off the isolation strip. The entire field must pass all certification requirements, except for isolation at time of inspection. The field report will show rejection due to lack of isolation.

(ii) The grower may harvest either the certified portion of the field or the uncertified isolation strip first and deliver that portion to the processing plant. After this seed is weighed and lotted in, the grower will then request a reinspection of the uncut portion. After reinspection, if everything is in order, the field will be passed and the remainder of the field can then be harvested.

(6) Field tolerances shall be as follows:

		Field Foundation	Producing* Certified
Other Varieties	(Max.)	0.00%	0.50%
Alfalfa	(Max.)	None	10 plants per acre
Sweet Clover	(Max.)	None	20 plants per acre

* Red Clover fields must be free of prohibited noxious weeds.

(7) Seed standards shall be as follows:

Purity	Blue Tag	
	Foundation*	Certified*
Pure Seed (Min.)	99.00%	99.00%
Other Crops (Max.)	18 per lb.	0.25%
Inert Matter (Max.)	1.00%	1.00%
Sweet Clover (Max.)	9 per lb.	90 per lb.
Weed Seed (Max.)	0.15%	0.25%
Objectionable Weed Seeds (Maximum Total)	None	90 per lb.
<hr/>		
Germination (Minimum total germination and hard seeds)	85.00%	85.00%

* Red Clover seed must be free of prohibited noxious weed seeds.

AMD

WAC 16-316-060 SMALL GRAIN SEED CERTIFICATION STANDARDS.

(1) The general rules for seed certification are basic and together with the following specific rules constitute the rules for small grain seed certification.

(2) The varieties and stock seed eligible are as follows:

- (a) Barley Belford, Gem, Heines Hanna, Hudson, Larker, Luther, Piroline, Primus II, Steveland, Traill, Unitan, Vale, Vale 70, White Winter.
- (b) Oats Cayuse, Harmon, Markton, Park.
- (c) Rye Tetra Petkus.
- (d) Wheat Baart, Brevor, Burt, Federation, Gaines, Henry, Idaed, Idaed 59, Marfed, McCall, Moro, Nugaines, Wanser.

Foundation seed is eligible to produce registered seed.

Registered seed is eligible to produce certified seed.

Certified seed is not eligible for recertification. *

* For those varieties of which the amount of foundation and registered seed is not adequate, certified seed may be accepted for planting to produce certified seed.

(3) An application for seed certification for each field, accompanied by the application fee and the official certification labels or the certified seed bulk sale certificate which were attached to the stock seed planted, must be filed with Washington State Crop Improvement Association, Inc. by June 1 for winter varieties and by July 1 for spring varieties. Late applications are acceptable from June 2 through July 15 for winter varieties and from July 2 through July 15 for spring varieties and must be accompanied by the late application fee.

(a) The application fee for each variety is \$10.00 for ten or fewer acres plus \$.50 for each additional acre. The late application fee is \$5.00 for each application.

(b) A field may be withdrawn from certification only upon written request by the applicant before field inspection. In such case, the application fee shall be refunded upon request.

(c) Harvest before field inspection causes forfeiture of both the application fee and completion of certification.

(d) The reinspection fee is \$10.00 for each field which did not pass field inspection.

(e) The final certification fee is \$.07 per cwt. of cleaned seed sampled.

(4) A seedcrop of small grains will be eligible for certification if planted on land on which the same kind of crop was not grown the previous year unless from certified seed of the same variety.

(5) Isolation requirements shall be as follows:

(a) Small grain seedfields for certification must be isolated by a three-foot margin from other small grain fields.

(b) Rye fields for certification must be isolated by six hundred sixty feet from rye fields grown from other than certified seed of the same variety.

(6) Field tolerances shall be as follows:

Factor	Foundation	Registered	Certified
Other varieties (Max.)	None	10 plants/acre	30 plants/acre
Other small grains (Max.)	None	10 plants/acre	30 plants/acre
Rye in barley, oats, or wheat	None	None	None
Vetch	None	None	None

(a) Roguing to remove varietal and crop mixtures is required.

(b) Prohibited noxious weeds must be prevented from flowering. Roguing to remove objectionable weeds is recommended.

(c) The field inspection will be made when the seedcrop is fully headed and of mature color, when varietal and crop mixtures can be determined.

(d) Excess weeds or any other condition which causes inaccurate field inspection shall be cause for rejection.

(7) Seed standards shall be as follows:

Factor		(White Tag) Foundation	(Purple Tag) Registered	(Blue Tag) Certified
Pure seed	(Min.)	98.00%	98.00%	98.00%
Other distinguishable varieties	(Max.)	None	1/lb	4/lb
Inert matter	(Max.)	2.00%	2.00%	2.00%
Other crop seed	(Max.)	None	0.05%	0.10%
Other small grains	(Max.)	None	1/lb	2/lb
Rye in barley, oats, or wheat		None	None	None
Vetch		None	None	None
Weed seed	(Max.)	None	0.05%	0.05%
Prohibited noxious		None	None	None
Objectionable and gromwell	(Max.)	None	1/lb	3/lb
Wild oats	(Max.)	None	None	1/lb
				3/lb oats, barley,
Germination	(Min.)	85.00%	85.00%	85.00%

(8) If chemically controllable seed-borne diseases are noted, treatment of seed is required.

(9) A certified seed bulk sale certificate completed by the grower or dealer may be substituted for certification labels in special situations where bagging and/or labeling and sealing is impracticable.

(10) Cleaning, labeling, and sealing of certified seed is permitted by a grower who has his own cleaning equipment and processes only his own seed.

AMD WAC 16-316-080 SOD QUALITY CERTIFIED SEED STANDARDS.

(1) The general rules for seed certification and grass seed certification standards are basic and together with the following specific rules constitute the rules for sod quality grass seed certification.

(2) The varieties eligible and certification scheme of each; the certification fees; the land requirements; the isolation requirements; and field tolerances shall be as listed in grass seed certification standards.

(3) Seed standards for sod quality grass seed are as follows:

Variety	Minimum Purity	Minimum Germination	Maximum * Other Crop	Maximum *** Weed
Merion Kentucky Bluegrass **	95%	80%	0.1% **	0.03%
Other varieties of Kentucky Bluegrasses	97%	80%	0.1%	0.03%
Red Fescue	98%	85%	0.1%	0.03%
Chewings Fescue	98%	85%	0.1%	0.03%

(4) A sod seed analysis certificate will be the basis of determining seed standards.

(5) Tags used for seed meeting sod quality certified seed standards will clearly state, "Sod Quality Seed."

(6) Service fee for sod quality seed tags and tagging shall be \$0.25 per cwt.

* Must be free of ryegrass, orchardgrass, timothy, bentgrass, big bluegrass, Canada bluegrass, Poa trivialis, smooth brome grass, reed canary grass, tall fescue, and clover.

** Kentucky bluegrass in Merion - Maximum 2%.
Canada bluegrass in Merion - Maximum 0.1%.

*** Must be free of dock, chickweed, crabgrass, plantain, black medic, annual bluegrass, velvetgrass, and prohibited noxious weed seeds.

AMD WAC 16-316-085 CROWN VETCH, WHITE CLOVER, AND TREFOIL SEED CERTIFICATION STANDARDS.

(1) The general rules for seed certification are basic and together with the following specific regulations constitute the rules for crownvetch, white clover, and trefoil seed certification.

(2) Varieties eligible: Following are the varieties eligible and the certification scheme for each:

Ladino Clover
Merit Ladino Clover*
Pilgrim Ladino Clover*
Tillman White Clover*
Louisiana S-1 White Clover*

Penngift Crownvetch*
Emerald Crownvetch**

Cascade Birdsfoot Trefoil**
Viking Birdsfoot Trefoil**

Cascade Birdsfoot Trefoil**
 Viking Birdsfoot Trefoil**

*Certified on a limited generation basis where:
 Foundation seed is eligible to produce certified seed;
 Certified seed is not eligible for re-certification.

**Certified on the generation basis where:
 Foundation seed is eligible to produce registered
 seed;
 Registered seed is eligible to produce certified seed;
 Certified seed is not eligible for re-certification.

(3) Certification fees.

(a) Seedling applications: (Due within sixty days after
 planting, however, acceptable up to six months after planting
 with late penalty fee.)

(i) Seedling application fee.....\$10.00

(ii) Late penalty fee.....\$10.00

(This additional fee shall be charged for each
 seedling application received more than sixty days
 after planting.)

(iii) Acreage fee.....\$.50 per acre

(Applies only to seedling fields harvested for certi-
 fied seed the year of planting.)

(Refundable if acreage is withdrawn before inspec-
 tion.)

The certifying agency must be notified by July 31 of
 seedling fields that will be harvested for certifi-
 cation.

(b) Renewal applications: (Due June 15)

(Accepted until July 31 with late penalty fee)

(i) Renewal application fee.....\$10.00

(ii) Acreage fee.....\$.50 per acre
 (Refundable if acreage is withdrawn before inspec-
 tion.)

(iii) Late penalty fee.....\$10.00

(This additional fee shall be charged for each
 renewal application received after June 15.)

(c) Reinspection.....\$10.00 each.

If a field is rejected for certification, the grower
 may apply for reinspection after the cause for rejection has
 been corrected. Only two reinspections are permitted for each
 field each year.

(d) Sampling.....\$.15 per 100 lbs.

(e) Tagging.....\$.15 per 100 lbs.

The tagging fee is billed at completion of germina-
 tion test and payable in advance of tagging. If a lot of seed
 is eligible for tagging and none of the seed is tagged, 10 cents
 of the 15 cents cwt. charged is refundable upon request.
 Request for this refund must be submitted by August 1 of the
 year following harvest.

(f) Purity & germination test.....Fees as established
 by the director of
 agriculture.

(g) Fees for resampling, retagging, or services not listed
 in this order, shall be the most applicable fee established by
 the director of agriculture.

(4) Land requirements.

(a) Breeder seed for the production of foundation seed
 shall not be planted on land on which the same kind has been
 previously planted. During the year immediately prior to seed-
 ing, the land shall have been in a cultivated crop or fallow and
 the land shall be free from volunteer plants as determined by
 field inspection during the season in which the seedling is
 established.

(b) Foundation seed for the production of registered or certified seed shall be planted on land on which no other variety or strain of the same kind has been grown or planted during the five years prior to the present planting.

(c) Foundation or registered trefoil seed for the production of certified seed shall be planted on land on which no other variety or strain of trefoil has been grown or planted during the three years prior to the present planting.

(d) Reseeding of a field due to failure or partial failure of the first seeding may be done with permission of the certifying agency.

(e) Certification of trefoil shall be limited to stands not exceeding five years of age, except for a variety grown outside its region of adaptation, in which case certification shall be limited to stands not exceeding three years of age.

(f) Foundation or certified producing white clover 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.

(g) Certification of crownvetch fields outside the region of adaptation of a variety shall be limited to stands not exceeding six years of age.

(h) Ditchbanks, roadways, etc. adjacent to a certified field must be free of volunteer plants of the same kind and prohibited noxious weeds.

(i) Volunteer plants in the field may be cause for rejection or reclassification of the seed field.

(j) No manure or other contaminating materials shall be applied during the establishment and production period of the stand.

(5) Isolation requirements.

(a) Fields for certification shall be isolated from all other fields of the same variety not meeting varietal purity requirements for certification as follows:

Class Being Produced	Fields less than five acres	Fields five acres or more
Foundation	900 feet	600 feet
Registered	450 feet	300 feet
Certified	150 feet	150 feet

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

Class Being Produced	Distance required from field planted with:	
Foundation	Foundation or	150 feet
	Registered	
Registered	Registered or	50 feet
	Certified	
Certified	Certified	50 feet

(c) In cases where an adjoining field is planted with a different variety, or of a lower class, isolation may be obtained by measuring off the required strip in the certified field. This isolation strip may be mowed for hay or it may be harvested for uncertified seed under the following conditions:

(i) The grower must apply for certification of the entire field and clearly stake off the isolation strip. The entire field must pass all certification requirements,

except for isolation at time of inspection. The field report will show rejection due to lack of isolation.

- (ii) The grower may harvest either the certified portion of the field, or the uncertified isolation strip first and deliver this portion to the processing plant. After this seed is weighed and lotted in, the grower will request a reinspection of the uncut portion. After reinspection, if everything is in order, the field will be passed and the remainder of the field can then be harvested.
- (6) Field tolerances shall be as follows:

Factor	Maximum permitted (Ratio of Plant)		
	Foundation	Registered	Certified
Other Variety	1:1000	1:400	1:100
Sweet Clover	1:1000	1:400	1:100
Other inseparable Crops	1:1000	1:400	1:100

* Fields must be free of prohibited noxious weeds.

- (7) Seed standards shall be as follows:

	CROWN VETCH		WHITE CLOVER		TREFOIL		
	Found	Cert.	Found	Cert.	Found	Req.	Cert.
Pure Seed (Min)	95 %	95 %	98 %	99 %	98 %	98 %	99 %
Other Crop (Max)	0.1%	1 %	0.1%	0.3%	0.1%	0.2%	0.5%
Inert (Max)	5 %	5 %	2 %	2 %	2 %	2 %	1 %
Weed Seed (Max)	0.1%	0.5%	0.1%	0.3%	0.2%	0.25%	0.3%
Sweet Clover (Max)	None	90/lb.	---	---	None	9/lb.	90/lb.
Objectionable							
Weed Seeds (Max)	27/lb.	90/lb.	10/lb.	90/lb.	None	45/lb.	90/lb.
Germination (Min)	65 %	65 %	85 %	85 %	85 %	85 %	85 %
(Germination + Hard Seed)							


- (a) Seed must be free of prohibited noxious weed seeds.

(b) Foundation or registered seed that has been rejected in the laboratory for prohibited noxious weed seeds may be reclassified to the certified blue tag class but shall not be eligible for seed stock even though it is recleaned and meets certification standards.

REP

Order No. 1113 and WAC 16-316-090 and WAC 16-316-009 are hereby repealed.

I hereby certify that the foregoing is a true and correct copy of the regulations promulgated.


 DONALD W. MOOS
 Director of Agriculture
 State of Washington

Signed at Olympia, Washington

Date: April 16, 1970

Chapter 16-318

TREATED SEED LABELING REQUIREMENTS


STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE
Order No. 1150
(Amending Order No. 1124)
Effective May 16, 1970

NEW WAC 16-318-003 PROMULGATION. (This promulgation relates only to Order 1124 and WAC 16-318-070 and WAC 16-318-002).

I, Donald W. Moos, director of agriculture of the state of Washington, by virtue of the authority vested in me under chapter 15.49 RCW, after due notice as provided under chapters 42.32 and 34.04 RCW, and a public hearing held in Yakima, Washington on April 1, 1970, do hereby amend Order 1124 and WAC 16-318-070 and WAC 16-318-002.

AMD WAC 16-318-070 TREATED SEED COLOR REQUIREMENT. Seeds of small grains and other products such as peas and beans normally used for feed or for human consumption shall, when treated with a pesticide, be colored so as to be readily discernible as having been so treated.

I hereby certify that the foregoing is a true and correct copy of the regulations promulgated.



DONALD W. MOOS
Director of Agriculture
State of Washington

Signed at Olympia, Washington

DATE: April 16, 1970

Chapter 16-319

FOREST TREE SEED CERTIFICATION

STATE OF WASHINGTON
DEPARTMENT OF AGRICULTURE
Order No. 1151
(Amending Order 1089)
Effective May 16, 1970

NEW

WAC 16-319-003 PROMULGATION. (This promulgation relates to Order 1089 and WAC 16-319-020, 040, 050, 060, 070, 080, 090, 100, 110, 120, 130, and 140 and WAC 16-319-002.)

I, Donald W. Moos, director of agriculture, by virtue of the authority vested in me under chapter 15.49 RCW, after due notice as provided under chapters 34.04 and 42.32 RCW, and a public hearing held in Yakima, Washington on April 1, 1970 do amend the following regulation relating to the designation of a forest tree seed certifying agency.

AMD

WAC 16-319-020 FOREST TREE SEED CERTIFICATION STANDARDS.1/

(1) Purpose. The purpose of forest tree seed certification is to make available seed properly identified by species or species and cultivar, and by source or source and origin.

(2) Definitions.

(a) Origin means the location of the indigenous parents.

(b) Source means the location of the immediate parents, which may be indigenous or non-indigenous.

(c) Location means description by seed zone or portion thereof and elevation.

(d) Seed Zone means a geographic area delineated on Western Forest Tree Seed Council's Tree Seed Zone Map published in 1966.

(e) Elevation means altitude above sea level, and is expressed in code in 500-foot increments as follows:

0 - 500 feet -- Code 05	2501 - 3000 feet -- Code 30
501 - 1000 feet -- Code 10	3001 - 3500 feet -- Code 35
1001 - 1500 feet -- Code 15	3501 - 4000 feet -- Code 40
1501 - 2000 feet -- Code 20	4001 - 4500 feet -- Code 45
2001 - 2500 feet -- Code 25	4501 - 5000 feet -- Code 50

and so forth.

(f) Certifying Agency means the duly designated state agent: In Washington State, the Washington State Crop Improvement Association, Inc., Post Office Box 617, Yakima, Washington 98901 (in Oregon State, the Oregon Seed Certification Service, Cooperative Extension Service, 102 Farm Crops Building, Oregon State University, Corvallis, Oregon 97331).

(g) Applicant means person or organization who submits application for seed certification to certifying agency, and who assumes responsibility for compliance with these standards.

(h) Certification of Seed means execution by certifying agency of field inspection, plant/warehouse inspection and/or audit to accomplish the purpose described in paragraph 1.

(i) Field Inspection means observation by certifying agency of all activities and records involved in collection, buying, and transportation of cones to assure compliance with field standards.

(j) Plant/Warehouse Inspection means observation by certifying agency of all activities and records involved in receiving, processing, storage and labeling of cones and seed to assure compliance with cone and seed processing standards.

1/

Underscoring in the text indicates a direct reference to specific terms which are defined or described herein.

(k) Audit means periodic examination and check by certifying agency of any part or all of the records only specified in field standards and cone and seed processing standards, and of additional records pertinent to inventory and distribution of seed including verification of corresponding physical inventory to assure that no significant errors or omissions exist.

(l) Lot means a homogeneous quantity of cones or seed of a single species collected during one crop season from within stated seed zone(s) and from within stated 500-foot elevation increments(s). Lots shall be identified distinctively by number and/or code.

(m) Batch means all or a part of a lot of cones or seed of a single species collected during one crop season from within a single seed zone and from within a single 500-foot elevation increment and collected or processed at one time, which may be combined subsequently with other batches into a lot. Batches shall be identified distinctively as they are processed by number and/or code.

(n) Cone Collector means person who picks or gathers cones or seed at their source.

(o) Cone Buyer means person who first receives cones or seed from cone collector.

(p) Unit of cones means a consistent volume measure of cones.

(q) Certificate of origin means a document issued by certifying agency which states source of seed.

NEW
WAC 16-319-030 CLASSES OF SEED. (1) Certified Seed means seed from within a seed zone or portion thereof and from within a 500-foot elevation increment, and further from trees of proven genetic superiority which were either in a seed orchard or were plus trees with controlled pollination, and which is produced and processed in a manner assuring genetic identity. Said seed shall be labeled with a blue label stating "certified seed". Certifying agency shall examine orchard or trees and records pertaining thereto prior to collection of cones, and shall exercise field inspection, plant/warehouse inspection and audit.

(2) Selected Seed means seed from within a seed zone or portion thereof and from within a 500-foot elevation increment, and further from rogued stands or from individual trees that have promise but not proof of genetic superiority. Said seed shall be labeled with a green label stating "selected seed". Certifying agency shall examine stands or trees and records pertaining thereto prior to collection of cones, and shall exercise field inspection, plant/warehouse inspection and audit.

(3) Source Identified Seed means seed from within a seed zone or portion thereof and from within a 500-foot elevation increment. The trees from which said seed is collected shall be assumed to be indigenous. Two subclasses are recognized:

Subclass A: personally supervised collections.

Subclass B: procedurally supervised collections.

Both subclasses of said seed shall be labeled with a yellow label stating "source-identified seed" and the subclass. Certifying agency shall exercise field inspection, plant/warehouse inspection and audit.

(a) Subclass A Source Identified Seed means that applicant and certifying agency personally know beyond a reasonable doubt the seed zone or portion thereof and 500-foot elevation increment within which cones and/or seed were collected. Certifying agency knows location from applicant's prior written plan of his cone collecting activities.

(b) Subclass B Source Identified Seed means seed identified as collected from within a seed zone or portion thereof and from within a 500-foot elevation increment.

(4) Audit Certificate Seed means that the applicant's records of procurement, processing, storage, and distribution state that the seed was collected from within stated seed zones or described portions thereof and from within 500-foot elevation increments. For areas not delineated on Western Forest Tree Seed Council's Tree Seed Zone Map published in 1966, certifying agency may accept seed zones on similarly authoritative map of seed zones as approved by certifying agency. Containers of said seed shall carry a serially numbered brown and white label stating "audit certificate seed". All records of the applicant for this class of seed are subject to audit.

NEW WAC 16-319-041 APPLICATION FOR SEED CERTIFICATION. (1)
The conditions of applicant's submittal and of certifying agency's acceptance of application are:

(a) All seed acquired or distributed by applicant is subject to audit.

(b) Applicant is and shall be responsible for payment of fees for certification of seed services.

(c) Applicant shall furnish and use labels and records satisfactory to certifying agency.

(d) Certifying agency reserves the right to refuse certification of seed service to applicant.

(e) Application for audit certificate seed shall be filed with certifying agency of state in which warehouse is located.

(2) The application with fees for current year's crop shall be received by certifying agency from applicant by September 1 or in any event not later than three days prior to initiation of cone collection.

(3) Schedule of fees Fees may be adjusted if certifying agency determines that costs are significantly more or less than anticipated, provided that increases shall not exceed 25 percent of following schedules.

(a) In the event certification of seed service for certified and selected seed is requested, said service when provided shall be on cost basis.

(b) The fee for source identified seed is \$.40 per bushel of cones collected, of which 60 percent shall be paid with application, and of which 40 percent shall be paid when processing is complete.

(c) The fee for audit certificate seed is:

(i) Cost of initial audit for current year's crop at the rate of \$12.50 per hour job time.

(ii) Plus \$.05 per pound for all seed from 1968 and subsequent crops sold or entering commerce, which shall be paid periodically.

(d) The fee for audit of seed not entered for certification of seed service is at the rate of \$12.50 per hour limited only to job time required by and satisfactory to certifying agency to exercise said audit simultaneously with audit of seed for

which applicant has requested certification of seed service.

(e) Services other than field inspection, plant/warehouse inspection, and audit may be provided on cost basis.

NEW
WAC 16-319-051 FIELD STANDARDS. (1) Certified seed and selected seed: Certifying Agency shall examine pertinent records of trees or stands offered for these classes and approve same prior to collection of cones. Additionally, field standards prescribed below for source identified seed are required.

(2) Source identified seed: Applicant shall develop and make correct use of cone collector labels, and cone collector registration, cone buyer, and transportation logs.

(a) Subclass A.

(i) Control of cone collectors shall be such that applicant and certifying agency personally know beyond a reasonable doubt the seed zone or portion thereof and 500-foot elevation increment within which cones and/or seed were collected.

(ii) Applicant shall provide certifying agency a written cone collection plan prior to collection.

(iii) Further, all following requirements of Subclass B shall be met.

(b) Subclass B.

(i) All cone collectors shall be supervised sufficiently so that either cone buyers know where cones were collected, or cone buyers shall purchase all cones that cone collectors present for sale with no differential of acceptance, stated or implied, as to source, location, seed zone, or elevation.

(ii) Cone buyer shall require cone collector to sign cone collector's registration log prior to collection of cones. He shall also issue cone collector's labels, and direct cone collector to complete them and place them in or attach them to each container of cones before it is transported from point of collection.

(iii) Cone buyer shall maintain, on a serially numbered form, a cone buyer log for all cones received, listing species, seed zone, elevation increment, units of cones, date of purchase, cone collector's name, and cone buyer.

(iv) Cone buyer shall maintain transportation log showing species, seed zone, elevation increment, units of cones, and date shipped.

(v) The certifying agency shall advise the applicant of problems about conditions that affect competent execution of these standards by the certifying agency and applicant.

(3) Audit certificate seed:

(a) Cone buyer shall require cone collectors to sign cone collector's registration log and to complete cone collector's labels prior to purchase of cones.

(b) Cone buyer shall maintain, on a serially numbered form, cone buyer log for all cones received, listing species, seed zone, elevation increment, units of cones, date of purchase, cone collector's name, and cone buyer.

(c) Cone buyer or other shipper of cones shall maintain transportation log showing species, seed zone, elevation increment, units of cones and date shipped.

NEW

WAC 16-319-061 CONE AND SEED PROCESSING STANDARDS. (1) The applicant shall maintain a continuous record for each lot and batch of cones and seed at each plant or warehouse, showing lot and batch number, species, seed zone, elevation increment, date received, units of cones and weight of cleaned seed.

(2) The labels shall remain on containers of cones until processing, at which time they will be grouped by lot or batch number and retained for examination by certifying agency, and for subsequent certifying agency approval for disposal.

(3) All cones and seed shall be handled in a manner to prevent lot mixture and maintain lot identity. All machinery is to be thoroughly cleaned before processing another lot or batch.

(4) Specific requirements: Certifying agency may refuse to certify seed failing to meet the following standards:

Other species or cultivars (Maximum by weight) .5%

(5) Lots of seed eligible for certified, selected or source identified seed shall be labeled and sealed accordingly by the certifying agency. Lots of seed eligible for audit certificate seed shall be labeled accordingly by applicant with label on container of seed. Further, a certificate of origin shall be executed for each distribution of certified, selected, source identified and audit certificate seed sold or entering commerce. Certifying agency may authorize utilization of said certificate of origin for portions of seed from labeled and sealed containers in lieu of labels and seals when relabeling and resealing is impracticable. Seed shall not be considered certified unless all requirements of certification are met and it is properly labeled and sealed.

(6) If a lot is found to contain seed from more than one seed zone or elevation increment, the certification label shall show the amount of contamination by percent of cones if in excess of seven percent if of contiguous seed zone(s) or elevation increment(s), or if in excess of two percent of other than contiguous seed zone(s) or elevation increment(s).

(7) Cones or seed of two or more seed zones or elevation increments may be intentionally blended. Procedures for said blending must be used to obtain a homogeneous mixture, and the resulting blend must be truthfully labeled for its content.

(8) Any lot may be rejected if certifying agency determines that said lot fails to meet these standards. The privilege of certification may be withdrawn by certifying agency for a definite period of time in case of flagrant violations of these standards. If applicant believes an erroneous decision has been rendered, he may make written appeal to certifying agency, and its governing body shall review the written appeal.

NEW

WAC 16-319-071 AUDIT STANDARDS. Certifying agency shall exercise audit to verify that proper procedures have been followed for keeping records specified in field standards and cone and seed processing standards.

NEW

WAC 16-319-081 Affixing of label or label and seal to a container of seed or to certificate of origin by certifying agency affirms that to the best of its knowledge the seed meets these Forest Tree Seed Certification Standards.

REP

WAC 16-319-040, 050, 060, 070, 080, 090, 100, 110, 120, 130, and 140 are hereby repealed.

I hereby certify that the foregoing is a true and correct copy of the regulations promulgated.



DONALD W. MOOS
Director of Agriculture
State of Washington

Signed at Olympia, Washington

Date: April 16, 1970