

# SMALL GRAIN SEED CERTIFICATION REQUIREMENTS AND STANDARDS

## I. BASIC RULES

The UCIA General Seed Certification Requirements and Standards are basic and with the following constitute the Requirements and Standards for small grains (wheat, triticale, barley, and oats) certification.

## II. SEED PRODUCTION

### A. APPLICATIONS

Dates and fees for applications are as listed in the General Requirements and Standards.

### B. LAND REQUIREMENTS

1. Dryland suitable for the production of Certified grain seed must be either (a) summer fallowed two years or longer and kept free from weeds and volunteer grain, or (b) virgin land free from volunteer grain, or (c) newly plowed land that has been growing perennial legumes or grasses for three years or longer and on which volunteer grain has not been permitted to seed, or (d) land on which a certified grain of the same variety was produced the preceding crop.
2. Irrigated land suitable for the production of certified grain seed must be either (a) land that has grown other crops the preceding year and is free from volunteer grain, or (b) land on which a certified grain of the same variety was produced the preceding crop, or (c) virgin land free from volunteer grain.
3. Isolation:
  - a. Fields of a different small grains crop or other inseparable crop kind (e.g. safflower) shall be separated by a fence line, mowed strip, or other definable border such that mechanical mixtures during harvest are prevented.
  - b. A field producing any class of certified seed of a specific small grains crop kind shall be separated from fields producing other varieties of the same kind by a minimum distance of 10 feet.
  - c. To reduce incidence of hybridization between jointed goatgrass and wheat or triticale, wheat or triticale fields shall have the following isolation zone from jointed goatgrass plants on fence lines or borders or in adjacent fields or non-crop areas:

Foundation class – 75 ft.  
Registered class – 50 ft.  
Certified class – 25 ft.

The isolation zone may be maintained outside of the field entered for certification, or the appropriate border may be left within the field adjacent to the jointed goatgrass infestation by harvesting the approved areas of the field first or by removing the isolation zone area before harvesting equipment cleanup.

NOTE: Current field standards state that tolerance for jointed goatgrass plants within a small grains field entered for certification is zero; tolerance for jointed goatgrass X wheat or triticale hybrids will also be zero for Foundation and Registered class fields and one per acre for Certified class fields.

#### D. FIELD INSPECTION

1. A field inspection will be made after the crop is fully headed when varietal or crop mixtures and other factors can be determined.
2. UCIA representatives are available to give a preliminary inspection of fields and recommend roguing of weeds (especially wild oats), off types, other varieties or crops, etc. Such roguing must be accomplished before the official pre-harvest inspection (see General Requirements and Standards, Section V. F.).

E. FIELD STANDARDS

1. Tolerance in the field for other varieties and crops, weeds, and diseases:

Factor	Maximum (plants per acre) Permitted in each Class		
	Foundation	Registered	Certified
Other varieties, off types, *a	.001%	.002%	.01%
Other small grains and inseparable other kinds *b	(1/100,000)	(1/50,000)	(1/10,000)
Rye	None *f	None	None
Seed-Borne Diseases *c	—	—	—
Noxious Weeds Prohibited	None	None	None
Restricted *d Objectionable *e	None	None	None
	None	None	One (1)

- \*a See definition of Offtypes, General Requirements and Standards.
- \*b Includes crop plants for which the seed cannot be removed by the usual method of cleaning (e.g. ., safflower in barley).
- \*c If seed-borne diseases (loose smut, common smut, dwarf bunt, ergot, etc.) are noted upon field inspection, notation will be made on the report and the lot will be monitored closely during conditioning and seed testing (see Seed Standards).
- \*d Wild oats, jointed goatgrass and others listed in General Requirements and Standards.
- \*e Jointed goatgrass X wheat hybrids, flanders poppy, and bur ragweed
- \*f See General Requirements and Standards. (II. E.) for working definition of "none". Noxious weeds must be rogued or under chemical or mechanical control such that no seeds are produced that would not be separated out in the normal conditioning process.

F. HARVEST

Harvesting equipment and storage bins must be carefully cleaned and will be inspected at the discretion of the UCIA.

### III. CONDITIONING, SAMPLING, AND LABELING

#### A. SEED STANDARDS

Factor	Standards for Each Class		
	Foundation	Registered	Certified
Pure Seed (min.)	99.0%	98.0%	98.0%
Inert Matter (max.) *a	1.0%	2.0%	2.0%
Other Varieties and other small grains (except Rye)	1 per 3 lbs	1 per 1 lb	2 per lb
Rye (max.)	None *e	None	None
Other Kinds	0.01%	0.02%	0.02%
Weed Seeds, Noxious Prohibited Restricted *b Objectionable *c	None None None	None None None	None None None
Weed Seeds, non-regulated weeds (max)	None	0.02%	0.02%
Seed-borne Diseases Loose Smut (max) *d Smut balls (max) Ergot (max)	None 3 per lb 0.05%	None 3 per lb 0.05%	0.2% 3 per lb 0.05%
Germination	85%	85%	85%

\*a Inert matter includes broken kernels; inert matter other than broken kernels shall not exceed 0.5%

\*b Wild oats, jointed goatgrass, and others listed in General Requirements and Standards.

\*c Flanders poppy and bur ragweed.

\*d Embryo test required for susceptible varieties; treatment with full rate of carboxin required if stated tolerances are exceeded.

\*e See General Requirements and Standards (II E.) for working definition of "none".

## B. SEED SAMPLING

1. A representative sample of 3 lbs of each seed lot shall be drawn by or under the supervision of a UCIA representative after the seed has been conditioned by an approved cleaning facility.
2. A representative sample may be drawn before conditioning to check germination, presence of loose smut, etc., and may serve as the official sample if seed standards including purity are met and conditioning is not desired (as in the case of a farmer planting back his own seed or selling Certified class seed in bulk).
3. Foundation class seed samples must be 6 lbs.

## C. TAGGING OR BULK CERTIFICATES

Small grains certified seed must be packed in new bags or sold in bulk. Seed is not certified unless the proper tags or Bulk Certificate accompanies the seed. Fees are as listed in the General Requirements and Standards.

## IV. ADDITIONAL REQUIREMENTS AND STANDARDS

Under an agreement with Utah State University, the following requirements and standards will be required as a prerequisite for final certification of Clearfield tolerant wheat released under license with BASF corporation:

- A. Production and Processing Standards for Clearfield tolerant wheat will be in accordance with (1) The Production Protocol (W-80, Clearfield Wheat Production Guidelines), (2) BASF Clearfield Care Protocol (ensuring the lack of Adventitious Presence), and (3) the Quality Control Procedure (Clearfield Confirm Test for Tolerance Purity).
- B. Specific requirements and standards include a) an affidavit stating compliance with herbicide application rates and timing (see (1) above); b) 30 meter isolation from non-CL wheats (see (2) above); and c) Passing the seed confirm test of 92% or above (see (3) above).
- C. Additional inspection fees of \$1.00 per acre will be assessed on all Clearfield tolerant wheat fields to cover the additional compliance verification costs.