

## **S M A L L   G R A I N S**

Wheat, Barley, Oats and Rye

### **I. Classes of Seed Eligible for Certification**

- A. **Foundation Seed** shall be the progeny of breeder or foundation seed.
- B. **Registered Seed** shall be the progeny of breeder or foundation seed.
- C. **Certified Seed** shall be the progeny of breeder, foundation or registered seed.  
Production from certified seed is not eligible to be re-certified.

For varieties eligible for certification, see page 3 of the General Certification Standards.

II. **Land History Requirements** – A small grain crop shall be planted on land on which the 1st crop grown was of another kind or was planted with a class of certified seed of the same variety. A crop will not be eligible for certification if planted on land on which the same kind of crop (example: wheat following wheat) was grown the previous year, unless the previous crop was grown from a class of certified seed of the same variety.

NOTE: Double-cropping seed production fields (example: wheat/soybeans/wheat) does not change the above land history requirements.

### **III. Field Standards**

#### **A. Field Inspection**

1. Seed crop field inspections shall be after the crop is fully headed, so that varietal or crop mixtures can be determined.
2. If a field is harvested before field inspection, then it automatically becomes ineligible for certification.

**B. Isolation**

1. Wheat, Barley, Oats – A field producing foundation class seed which is planted in rows shall be separated from fields of any small grain by an unplanted or mowed strip of at least 10 feet in width to prevent mechanical mixtures or the occurrence of out-crossing. A field producing registered or certified seed which is planted in rows shall be separated from fields of any small grain by an unplanted or mowed strip at least 10 feet in width to prevent mechanical mixtures. If the inspected field or bordering fields are broadcast planted, then the isolation distance must be at least 30 feet.

2. Rye – A field producing any class of certified seed must be isolated by at least 660 feet from rye fields of any other variety or fields of the same variety that do not meet the varietal purity requirements of the same chromosome number. Isolation between diploid and tetraploid rye shall be at least 15 feet if planted in rows and 30 feet if broadcast.

**C. Specific Requirements**

<u>Factor</u>	<u>Maximum Permitted</u>		
	<u>Foundation</u>	<u>Registered</u>	<u>Certified</u>
Other Varieties and Off-types	0.02% (1/5000)	0.03% (1/3333)	0.05% (1/2000)
Other Kinds of Small Grain	0.01% (1/10,000)	0.01% (1/10,000)	0.05% (1/2000)
Rye in Other Small Grain	None	None	None
Hairy Vetch	None	None	5 plants/Acre
Loose Smut*			
Inspected Field	-----	0.02% (1/5000)	0.10% (1/1000)
Bordering Fields (up to 660 feet from inspected field)	-----	0.10% (1/1000)	0.20% (1/500)

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\* If the above limits for loose smut are exceeded in the inspected field or bordering fields of small grain, seed harvested from the inspected field must either:

1. Be treated with a recommended systemic fungicide seed treatment that is labeled for the control of loose smut before certification tags could be issued, or

2. Be subjected to an embryo loose smut test. Seed standards for maximum loose smut content must be met before certification tags could be issued.

All foundation seed of wheat, barley and oats must be treated with a recommended systemic fungicide seed treatment that is labeled for the control of loose smut.

#### IV. Seed Standards

<u>Factor</u>	<u>Class of Seed</u>		
	<u>Foundation</u>	<u>Registered</u>	<u>Certified</u>
Pure Seed (minimum)	98.00%	98.00%	98.00%
Inert Matter (maximum)	2.00%	2.00%	2.00%
Total Other Crop Seed (maximum)			
for Wheat, Barley, Rye	0.02%	0.05%	0.10%
for Oats	0.04%	0.10%	0.20%
Other Varieties (maximum)			
for Wheat, Barley, Rye	0.02%	0.05%	0.10%
for Oats	0.04%	0.10%	0.20%
Other Small Grain (maximum)*	0.01%	0.01%	0.05%
Rye and Hairy Vetch (maximum)	1/lb	1/lb	2/lb
Total Weed Seed (maximum) **	0.02%	0.02%	0.03%
Noxious Weed Seed (maximum)	None	None	None
Germination (minimum)			
for Wheat, Barely, Oats	85.00%	85.00%	85.00%
for Rye	75.00%	75.00%	75.00%
Loose Smut (maximum) ***	--	0.50%	1.00%

\* Total other small grain allowed: foundation 2 per lb; registered 3 per lb; certified 5 per lb.

\*\* Total weed seed content shall not exceed 10 seeds per lb.

\*\*\* Embryo loose smut test is required if field standards for loose smut are exceeded and seed is not treated with appropriate seed treatment.