

# CANOLA CERTIFICATION STANDARDS

## I. APPLICATION AND AMPLIFICATION OF GENERAL CERTIFICATION STANDARDS

The General Seed Certification Standards are basic and together with the following specific standards constitute the standards for certification of rapeseed and canola (industrial and edible types, respectively).

## II. LAND REQUIREMENTS

- A. Canola must be planted on land which has not produced canola, rapeseed or mustard previously during the following time intervals.

<u>Seed Class Produced</u>	<u>Minimum Years Free of Above Crops</u>
Foundation	5 years
Registered	4 years
Certified	3 years

- B. For all certified classes, no manure or other contaminating materials shall be applied during the establishment and productive period of the stand.
- C. Reseeding of a field, due to the failure or partial failure of the first seeding, may be done with the permission of the certifying agency.
- D. All roadways, ditch banks and other areas adjacent to a certified field must be free of volunteer rapeseed, canola and mustard (wild or tame).

## III. FIELD INSPECTIONS

- A. The field inspection will be made when the crop is in the early flowering stage.
- B. **Application for certification must be submitted by June 15 of each year in which seed is produced.**

## IV. FIELD STANDARDS

- A. General

1. Unit of Certification

A portion of a field may be certified if the area to be certified is clearly defined.

2. Isolation

Certified fields shall maintain the following minimum isolation distances from fields of any other variety or fields of the same variety that do not meet the varietal purity requirements for certification as given in the following table.

Class	Fields of Cross-Pollinated Varieties	Fields of Self-Pollinated Varieties	Certified Fields of Same Varieties
Foundation	1,320 feet	660 feet	15 feet
Registered	1,320 feet	660 feet	15 feet
Certified	660 feet	330 feet	15 feet

3. Volunteer Plants

Volunteer plants may be cause for field rejection or down grading to a lower certification class.

4. It is recommended that not more than one variety or crop of canola be produced by a certified producer in any given year.

B. Specific Field Requirements

	Maximum Permitted in Each Class (ratio of plants)		
Factor	FDN	REG	CERT
Other Varieties*	1:2000	1:1000	1:500
Prohibited Noxious Weeds ( <i>Lack of evidence of control will be cause for rejection</i> )			

\* Other varieties shall be considered to include off-type plants and plants that can be differentiated from the variety being inspected.

## V. SEED STANDARDS

Seed Factors	Standards for Each Class		
	Foundation	Registered	Certified
Pure Seed (Min.)	99.00%	99.00%	99.00%
Inert Matter (Max.)	1.00%	1.00%	1.00%
Other Crops (Max.)	1/50 grams	1/50 grams	2/50 grams
Weed Seed (Max.)	10/50 grams	10/50 grams	20/50 grams
Prohibited Noxious Weeds <sup>(2)</sup>	none <sup>(1)</sup>	none <sup>(1)</sup>	none <sup>(1)</sup>
Restricted Noxious Weeds (Max.) <sup>(3)</sup>	1/50 grams	1/50 grams	2/50 grams
Diseases (Sclerotia - <u>Sclerotinia sclerotiorum</u> )	1/lb	1/lb	1/lb
<u>Phoma lingam</u>	.01%	.01%	.01%
Total Germination & Hard Seed (Min.)	85.00%	85.00%	85.00%
Seed Analysis <sup>(4)</sup>			

(1) None tolerance means none during the normal inspection procedures. None is not a guarantee to mean the lot inspected is free of the factor.

(2) None of the Prohibited Noxious Weeds listed in the General Standards.

(3) See Restricted Noxious Weed list in the General Standards. Brassica nigra, Sinapis arvensis, Brassica juncea, and Raphanus raphanistrum shall also be included.

(4) Erucic acid and glucosinolate content must be within tolerance as described by the plant breeder for each variety.

# CLOVER CERTIFICATION STANDARDS

## I. APPLICATION AND AMPLIFICATION OF GENERAL CERTIFICATION STANDARDS

The General Seed Certification Standards are basic and together with the following specific standards constitute the standards for certification of clover seed.

## II. LAND REQUIREMENTS

- A. A crop of the same kind must not have been grown or planted on the land for five (5), three (3), and two (2) years prior to stand establishment for producing the Foundation, Registered, and Certified seed classes, respectively.
- B. The land must be free of volunteer plants during the year immediately prior to establishment; however, reseeding varieties of crimson clover may be allowed to volunteer back year after year on the same ground. Where a new reseeding variety is being planted where another once grew, the field history requirements prevail.
- C. No manure or other contaminating material shall be applied the year previous to seeding or during the establishment and productive life of the stand.
- D. White and red clover must be planted in distinct rows. Ladino clover may be broadcast planted.

## III. FIELD INSPECTION

- A. A seedling inspection will be made by an inspector during the first season of planting.
- B. Seed fields shall be inspected at least once prior to harvest, preferably at flowering time when varietal purity can best be determined. Harvest operations, including swathing, desiccation, and combining, prior to field inspection or reinspection are cause for rejection of the field.
- C. **Application for certification must be submitted by May 15 of each year in which seed is produced (Late summer or fall plantings are due within 60 days after planting).**

## IV. FIELD STANDARDS

### A. General

#### 1. Unit of Certification

A field or a portion of a field may be certified if the area to be certified is clearly defined. Portions of a field not meeting requirements for certification must not be allowed to reach seed stage.

2. Isolation

A field producing Foundation, Registered, or Certified seed must have the minimum isolation distance from fields of any other variety or fields of the same variety that do not meet the varietal or generation requirements for certification, as is given in the following table:

Seed Classes	Fields of less than 5 acres	Fields of more than 5 acres
	(Isolation in feet*)	
Foundation	1,320 feet	1,320 feet
Registered	660 feet	330 feet
Certified	330 feet	165 feet

\* Where different classes of seed of the same variety are being grown, the isolation requirements may be reduced to 25% of that shown in the above table.

3. Length of Stand

A field of red clover shall not be eligible to produce seed of any class of certified seed beyond the two seed crops following planting.

A field of white clover eligible to produce Foundation and/or Registered seed may produce only two successive seed crops following seeding, except that each may be reclassified to the next lower class after being harvested for two years. A Certified field on which a stand of perennial plants is maintained may produce a maximum of four successive seed crops following seeding.

4. Volunteer Plants

Volunteer plants may be cause for rejection or reclassification of a seed field.

B. Specific Field Requirements

Red Clover and Ladino Clover

Factor	Maximum Permitted in Each Class (ratio of plants)		
	FDN	REG	CERT
Other varieties*	1:2000	1:1000	1:200
Sweetclover plants	none <sup>(1)</sup>	5 per acre	10 per acre

Prohibited Noxious Weeds (Lack of evidence of control will be cause for rejection)

## White Clover

Factor	Maximum Permitted in Each Class (ratio of plants)		
	FDN	REG	CERT
Other varieties*	none <sup>(1)</sup>	1:500	1:100
Sweetclover plants	none <sup>(1)</sup>	5 per acre	10 per acre

Prohibited Noxious Weeds (*Lack of evidence of control will be cause for rejection*)

\* Other varieties shall be considered to include plants that can be differentiated from the variety that is being inspected.

(1) None tolerance means none found during the normal inspection procedures. None is not a guarantee to mean the field inspected is free of the factor.

## V. SEED STANDARDS

	Standards for Each Class					
	Landino Clover		Red Clover		White Clover	
	F, R	C	F, R	C	F, R	C
Pure Seed (min.)	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
Other Crop (max.)*	9/lb, 0.20%	0.25%	9/lb, 0.20%	0.25%	0.20%,0.50%	1.00%
Sweetclover (max.)	none <sup>(1)</sup> ,45/lb.	90/lb.	none <sup>(1)</sup> ,45/lb.	90/lb.	9/lb., 90/lb.	180/lb.
Inert Matter (max.)	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Weed Seed (max.)	0.15	0.25	0.15	0.25	0.15%,0.25%	0.50%
Prohibited Noxious Weeds <sup>(2)</sup>	none <sup>(1)</sup>	none <sup>(1)</sup>	none <sup>(1)</sup>	none <sup>(1)</sup>	none <sup>(1)</sup>	none <sup>(1)</sup>
Restricted Noxious Weeds <sup>(3)</sup>	none <sup>(1)</sup>	18/lb.	none <sup>(1)</sup>	18/lb.	none <sup>(1)</sup>	18/lb.
Total Germination & Hard Seed	85%	85%	85%	85%	85%	85%

\* Black medic shall be considered a crop seed. No black medic is permitted in the Foundation or Registered class.

(1) None tolerance means none found in the sample submitted. None is not a guarantee to mean the lot inspected is free of the factor.

(2) None of the Prohibited Noxious Weeds listed in the General Standards, nor any dodder or horse nettle, allowed in any class of seed.

(3) See Restricted Noxious Weed list in the General Standards. Docks (*Rumex* spp.), plantain (*Plantago* spp.) and giant foxtail shall also be included.

**The following weeds have a negative impact on seed production of this crop. Weeds marked with an asterisk can impact certification of this crop. The other weeds listed are difficult to separate, and can result in increased seed loss during cleaning. Control of these weeds is recommended.**

**Canada thistle\*, Russian knapweed\*, dodder\*, sweetclover\*, wild-proso millet\*, pigweed, foxtails, lambsquarter, and plantains.**