

CROWN VETCH SEED 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 crownvetch 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 crownvetch during the year immediately prior to establishment and no manure or other contaminating material shall be applied the year previous to seeding or during the establishment and productive life of the stand.

III. FIELD INSPECTION

- A. A seedling inspection shall be made during the seeding year to check for volunteer plants, isolation requirements and potential weed problems.
- 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. Isolation

Minimum distance from a different variety or a non-certified crop of the same kind shall be:

| 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 |

* The isolation distance between classes of the same variety may be reduced to 10 feet, regardless of class or size of field.

2. Volunteer Plants

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

B. Specific Field Requirements

| Factor | Maximum Permitted in Each Class (ratio of plants) | | |
|--------------------|------------------------------------------------------|------------|-------------|
| | Foundation | Registered | Certified |
| Other varieties* | 1:2000 | 1:1000 | 1:200 |
| Sweetclover plants | none ⁽¹⁾ | 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

| Seed Factors | FDN | REG | CERT |
|-----------------------------------------|---------------------|---------------------|---------------------|
| Pure Seed (Min.) | 95.00% | 95.00% | 95.00% |
| Inert Matter (Max.) | 5.00% | 5.00% | 5.00% |
| Weed Seed (Max.) | 0.10% | 0.20% | 0.50% |
| Prohibited Noxious Weeds ⁽²⁾ | none ⁽¹⁾ | none ⁽¹⁾ | none ⁽¹⁾ |
| Restricted Noxious Weeds ⁽³⁾ | none ⁽¹⁾ | none ⁽¹⁾ | 18/lb |
| Other Crop Seed (Max.) | 0.20% | 0.35% | 0.50% |
| Sweetclover | none ⁽¹⁾ | 18/lb | 45/lb |
| Germination (Min.) | 20.00% | 20.00% | 20.00% |
| Germination & Hard Seed (Min.) | 50.00% | 50.00% | 50.00% |

⁽¹⁾ None tolerance means none found 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, nor any bedstraw, dodder, dogbane, horsenettle or field pennycress allowed in any class of seed.

⁽³⁾ See Restricted Weed list in the General Standards. Docks (*Rumex* spp.), bracted plantain and wild carrot shall also be included.

SWEETVETCH SEED 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 sweetvetch 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 sweetvetch during the year immediately prior to establishment and no manure or other contaminating material shall be applied the year previous to seeding or during the establishment and productive life of the stand.

III. FIELD INSPECTION

- A. A seedling inspection shall be made during the seeding year to check for volunteer plants, isolation requirements and potential weed problems.
- 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. Isolation

Minimum distance from a different variety or a non-certified crop of the same kind shall be:

| 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 |

* The isolation distance between classes of the same variety may be reduced to 10 feet, regardless of class or size of field.

2. Volunteer Plants

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

B. Specific Field Requirements

| Factor | Maximum Permitted in Each Class (ratio of plants) | | |
|--------------------|------------------------------------------------------|------------|-------------|
| | Foundation | Registered | Certified |
| Other varieties* | 1:2000 | 1:1000 | 1:200 |
| Sweetclover plants | none ⁽¹⁾ | 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

| Seed Factors | FDN | REG | CERT |
|-----------------------------------------|---------------------|---------------------|---------------------|
| Pure Seed (Min.) | 95.00% | 95.00% | 95.00% |
| Inert Matter (Max.) | 5.00% | 5.00% | 5.00% |
| Weed Seed (Max.) | 0.10% | 0.20% | 0.50% |
| Prohibited Noxious Weeds ⁽²⁾ | none ⁽¹⁾ | none ⁽¹⁾ | none ⁽¹⁾ |
| Restricted Noxious Weeds ⁽³⁾ | none ⁽¹⁾ | none ⁽¹⁾ | 18/lb |
| Other Crop Seed (Max.) | 0.20% | 0.35% | 0.50% |
| Sweetclover | none ⁽¹⁾ | 18/lb | 45/lb |
| Germination (Min.) | 20.00% | 20.00% | 20.00% |
| Germination & Hard Seed (Min.) | 60.00% | 60.00% | 60.00% |

⁽¹⁾ None tolerance means none found 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, nor any bedstraw, dodder, dogbane, horsenettle or field pennycress allowed in any class of seed.

⁽³⁾ See Restricted Weed list in the General Standards. Docks (*Rumex* spp.), bracted plantain and wild carrot shall also be included.

CICER MILKVETCH SEED 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 cicer milkvetch seed.

II. LAND REQUIREMENTS

- A. A crop of the same kind or any other forage legume 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.

III. FIELD INSPECTIONS

- 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. During the year immediately prior to seeding of any class of seed, the land shall be free of volunteer plants of that crop. No manure or other contaminating amendment shall be applied during the established and productive life of the stand.

B. Isolation

1. All fields 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 purity 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 |

* The isolation distance between classes of the same variety may be reduced to 25% of that indicated above.

C. Length of Stand

Production of each representative class may continue as long as genetic purity is maintained.

D. Volunteer Plants

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

E. Specific Requirements for Field Inspection

| Factor | Maximum Permitted in Each Class (ratio of plants) | | |
|--------------------|------------------------------------------------------|------------|-----------|
| | Foundation | Registered | Certified |
| Other varieties* | 1:2000 | 1:1000 | 1:200 |
| Sweetclover plants | none ⁽¹⁾ | 5/acre | 10/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 varieties 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

| Seed Factors | Standards for Each Class | | |
|-----------------------------------------|--------------------------|---------------------|---------------------|
| | FDN | REG | CERT |
| Pure Seed (Min.) | 99.00% | 99.00% | 99.00% |
| Inert Matter (Max.)* | 1.00% | 1.00% | 1.00% |
| Weed Seed (Max.) | 0.10% | 0.10% | 0.20% |
| Prohibited Noxious Weeds ⁽²⁾ | none ⁽¹⁾ | none ⁽¹⁾ | none ⁽¹⁾ |
| Restricted Noxious Weeds ⁽³⁾ | none ⁽¹⁾ | none ⁽¹⁾ | 18/lb |
| Other Crop Seed (Max.) | 0.10% | 0.10% | 0.50% |
| Alfalfa or Sweetclover | 9/lb | 18/lb | 45/lb |
| Germination & Hard Seed (Min.) | 75.00% | 80.00% | 80.00% |

* To include no more than 0.10% root, crown or stem rot sclerotia (either whole or broken).

⁽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 curly dock or buckhorn plantain allowed in any class of seed.

⁽³⁾ See Restricted Weed list in the General Standards.