

WOODY PLANTS AND FORBS CERTIFICATION STANDARDS

I. APPLICATION OF GENETIC CERTIFICATION STANDARDS

A. The Genetic Certification Standards, pages 1 through 17, are basic.

B. The Genetic Standards are modified as follows:

1. Section IV LIMITATION OF GENERATIONS

Both sexual (seed) and asexual (cuttings, rhizomes, etc.) means of reproduction and establishment are addressed by these standards, with one asexual generation being equivalent to one sexual generation (i.e., Breeder, Foundation, Registered, and Certified).

2. Appendix II (B) LENGTH OF STAND REQUIREMENTS

The life of the stand shall be unlimited as long as 75% of the plants present in the stand are those that were planted originally. Exceptions may be other-wise specified by the originator of the variety or his designee.

II. LAND REQUIREMENTS

A field, to be eligible for the production of certified classes of seed, must not have grown, been seeded to, or had volunteer plants producing seed of the same species (except for plants or seed of the same variety of equal or higher classification) during the previous four (4) years for Foundation, three (3) for Registered, or two (2) years for Certified.

III. FIELD STANDARDS

A. General

1. Field Inspection

Seed field inspection will be made in the year of establishment, and at least once each year that seed is to be harvested. This inspection should be made at the stage of plant development when off-types or other varieties, disease status, weed contamination, etc. can be

- readily detected.
2. Isolation

- a. For seed production, minimum distance from a different variety or PVG (which may have the potential to hybridize), fields of the same variety that do not meet the varietal purity requirements for certification, or wild hybridizing populations, are as follows:

| | Minimum of Isolation - Feet | |
|------------|-----------------------------|-----------------------------|
| | Fields of 5 Acres or Less | Fields of More than 5 Acres |
| Foundation | 900 | 600 |
| Registered | 450 | 300 |
| Certified | 330 | 165 |

- b. For seed production of different classes of the same variety or for asexual reproduction, only a distinct separation (fenceline, roadway, etc.) is necessary.
c. NOTE: Fourwing saltbush (*Atriplex canescens*) will hybridize with many of the perennial *Atriplex* species such as *A. garrettii*, *A. gardneri*, *A. confertiofolia*, *A. Cuneta*, *A. tridentata*, *A. falcata*, and *A. obovata*.

3. Volunteer plants may be a cause for rejection or reclassification of a seed field (see Section I.B.2).

B. Specific

| Factor | Ratio in Field | | |
|--|---------------------|------------------|-----------------|
| | Foundation | Registered | Certified |
| *Other Varieties & Off Types | 0.1% (1/1000) | 0.2% (1/500) | 0.4% (1/250) |
| Other Kinds (inseparable other species) | 0.05% (1/2000) | 0.1% (1/1000) | 0.2% (1/500) |
| **Noxious Weeds (prohibited) | None | None | None |
| ***Restricted or Objectionable Weeds | Varies with Species | | |

*Some species may have a phenotypically variable population; this should be accounted for in the breeder's description such that true off-types will not exceed the stated ratio. Exceptions may be otherwise specified by the breeder or his designee.

**Must be under cultural or chemical control such that mature noxious weed seed will not be harvested with crop seed.

***Restricted weeds and/or objectionable weeds that pose a particular problem for a given species must be limited in the field to the extent that the maximum allowed in the seed standards may be reasonably met.

IV. SEED STANDARDS

A. General

Sampling and testing seeds: For seed of species not covered by the rules for testing seeds of the Association of Official Seed Analysts, the analysis and testing shall be in accordance with the rules of the International Seed Testing Association or appropriate State or Governmental laboratories as determined by the certifying agency.

A representative sample of vegetatively propagated materials must be inspected to insure varietal purity. Quality factors may be established by individual certifying agencies.

B. Specific

1. All propagating material:

| | Maximum Permitted in Each Class | | |
|-----------------------------------|---------------------------------|------------|-----------|
| | Foundation | Registered | Certified |
| Other Varieties | 0.25% | 0.50% | 0.75% |
| Other Kinds | 0.15% | 0.25% | 0.50% |
| Total Other Crops | 0.40% | 0.75% | 1.25% |
| Noxious Weeds (Prohibited) | None | None | None |
| Restricted or Objectionable Weeds | | | |

2. Standards for species that have released varieties

| Name | Scientific | Pure | Inert % | Weed | Viability% |
|--------------------------|----------------------------------|----------------|-----------|----------------|-------------------------------|
| | | Seed% (min) | (max) | Seed% (max) | (min) |
| | | (F, R, C) | (F, R, C) | (C)* | Germ. + Dorm. <u>OR</u> TZ |
| Common | Scientific | | | | |
| Fourwing Saltbush | <i>Atriplex canescens</i> | 85 | 15 | 0.5 | 30 |
| | <i>Atriplex canescens aptera</i> | 85 | 15 | 0.5 | 30 |
| Prostrate Kochia | <i>Bassia prostrata</i> | 65 | 35 | 0.2 | 35 |
| Blue Flax | <i>Linum perenne</i> | 95 | 5 | 0.2 | 70 |
| Utah Sweetvetch | <i>Hedysarum boreale</i> | 95 | 5 | 0.5 | 60 |
| Rocky Mountain Penstemon | <i>Penstemon strictus</i> | 85 | 15 | 0.5 | 60 |
| Palmer Penstemon | <i>Penstemon palmerii</i> | 85 | 15 | 0.5 | 60 |
| Small Burnet | <i>Sanquisorba minor</i> | 95 | 5 | 0.2 | 80 |
| Lousiana Sage | <i>Artemesia ludoviciana</i> | 80 | 20 | 0.5 | 30 |
| Antelope Bitterbrush | <i>Purshia tridentata</i> | 95 | 5 | 0.2 | 75 |
| Mountain Big Sagebrush | <i>Artemesia tridentata</i> | 10 | 90 | 0.5 | 50 |
| Winterfat | <i>Ceratoides lanata</i> | 60 | 40 | 0.5 | 40 |
| Mountain Mahogany | <i>Cercocarpus montanus</i> | 85 | 15 | 0.3 | 60 |

*Foundation and Registered standards for weed seed are one half the Certified tolerance