

**AOSA RULE CHANGES FOR 1997
AOSA/SCST ANNUAL MEETING BOISE, IDAHO**

Effective October 1, 1998

RULE PROPOSAL NO. 1

Approved by the AOSA Executive Board as a tentative rule.

AOSA RULES FOR TESTING SEEDS, section 3.7, page 18
Seed count test for soybean (*Glycine max*)--The following method shall be employed when using a mechanical seed counter to determine the number of seeds contained in a sample.

- a. *Samples*--Samples for testing shall be of at least 500 grams and received in moisture proof containers. Samples shall be retained in moisture proof containers until they are prepared for the seed count test.
- b. *Seed counter calibration*--The seed counter shall be calibrated daily prior to use.
 - (1) Prepare a calibration sample by counting 10 sets of 100 soybean seeds. Visually examine each set to insure that it contains whole seeds. Combine the 10 sets of seeds to make a 1,000 seed calibration sample. The seeds of the calibration sample should be approximately the same size as the seeds in a sample being tested. If the seeds in a sample being tested are noticeably different in size from those in the calibration sample, prepare another calibration sample with seeds of the appropriate size. Periodically re-examine the calibration samples to insure that no seeds have been lost or added.
 - (2) Carefully pour the 1,000 seed calibration sample into the seed counter. Start the counter and run it until all the seeds have been counted. The seeds should not touch as they run through the counter. Record the number of seeds as displayed on the counter read out. The seed count should not vary more than + or - 2 seeds from 1,000. If the count is not within this tolerance, clean the mirrors, adjust the feed rate and/or reading sensitivity. Rerun the calibration sample until it is within the + or - 2 seed tolerance. If the seed counter continues to fail the calibration procedure and the calibration sample has been checked to ensure that it contains 1,000 seeds, do not use the counter until it has been repaired.
- c. *Sample preparation*--A purity test shall be conducted on the sample, according to AOSA Rules, prior to the seed count test. The pure seed from the purity test shall

- be divided into 2 portions of approximately 250 grams each using a seed divider. Record the exact weight of each portion. Each portion shall be tested separately.
- d. *Conducting the test*--After the seed counter has been calibrated, test both 250 gram subsamples and record the number of seeds in each subsample.
 - e. *Calculation of results*--Calculate the number of seeds per pound to the nearest whole number for each subsample using the following formula:

$$\text{Number of seeds per pound} = \frac{453.6 \text{ g}}{\text{pound}} \times \frac{\text{Number of seeds}}{\text{Weight tested in grams}} \times \% \text{ pure seed}$$

If the difference between the results of the subsamples is less than 1.2 percent, the final test result is the average seed count of the 2 subsamples. To determine this, calculate the average of the 2 results (number of seeds per pound) and multiply by 1.2 percent. If the difference of the 2 subsamples exceeds 1.2 percent, test an additional 250 gram sample(s) of pure seed and use the average of the 2 test results with a difference of less than 1.2 percent.

- f. *Tolerance for results from different laboratories*--Consider the results of tests from 2 laboratories in tolerance if they differ by less than 2.0 percent.

RULE PROPOSAL NO. 2

AOSA RULES FOR TESTING SEEDS, sections 2.6, 2.7, and 2.10, pages 6 and 8

2.6 Seed unit. - The seed unit is the structure usually regarded as a seed in planting practices and in commercial channels. The seed unit may consist of one or more of the following structures:

- b. Seed units in the grass family (for descriptions and illustrations of grass seed units, see AOSA Newsletter 70(1):49-59, 1996) including the following:
 - (9) For *Lolium multiflorum*, *L. perenne* and *Festuca arundinacea* refer to section 2.10 a.(4).

2.7 Kind or cultivar considered pure seed.

- g. Seed units of the grass family listed in sections 2.6 b(1) through (5) and (9) provided a caryopsis with some degree of endosperm development can be detected in the unit either by slight pressure or by examination over light. Refer to sections 2.7 g(1) and (2) for species in which determination of endosperm development is not necessary. Refer to sections 2.7 h and 2.10 a(8) when nematode galls, fungus bodies, etc. have replaced the caryopsis in seed units.

2.10 Inert matter. -

a. Seeds and seed like structures from crop plants.

- (4) For *Lolium multiflorum*, *L. perenne* and *Festuca arundinacea*, empty florets extending to the tip of the fertile floret (excluding the awn) or beyond and glumes shall be removed and classed as inert matter. For all other species of grasses, glumes and empty florets shall be classed as inert matter except as stated under pure seed in sections 2.7 g and h.

RULE PROPOSAL NO. 3

AOSA RULES FOR TESTING SEEDS, sections 2.6 and 2.7, page 6

2.6 Seed Unit - The seed unit is the structure usually regarded as a seed in planting practices and in commercial channels. The seed unit may consist of one or more of the following structures:

- c. Dry indehiscent fruits in the following plant families: Aceraceae, Asteraceae, Betulaceae, Brassicaceae, Casuarinaceae, Chenopodiaceae, Fabaceae, Fagaceae, Geraniaceae, Juglandaceae, Magnoliaceae, Nyssaceae, Oleaceae, Platanaceae, Polygonaceae, Rosaceae, Simaroubaceae, Ulmaceae and Valerianaceae;

2.7 Kind or cultivar considered pure seed. - The pure seed shall include all seeds of each kind and/or cultivar under consideration which are present in excess of 5%... The following shall be included with the pure seed:

- f. Intact fruits, whether or not they contain a seed, of species belonging to families other than Poaceae, in which the seed unit is a dry, indehiscent fruit (refer to section 2.6 c., d, e and f). Refer to section 2.10 a(9) for the classification of visibly empty fruits and to section 2.10 a(11) for classification of the pericarp (fruit wall) in antelope bitterbrush (*Purshia tridentata*).

RULE PROPOSAL NO. 4

AOSA RULES FOR TESTING SEEDS, section 2.10, page 8

2.10 a. Inert matter. - Inert matter shall include seeds and seedlike structures from both crop and weed plants and other material not seed as follows:

- (5) Broken and unattached wings of tree and shrub seeds or fruits.
(6) Attached wings of tree and shrub seeds or fruits as follows:
(c) for *Acer*, *Ailanthus*, *Betula*, *Casuarina*, *Catalpa*, *Chamaecyparis*, *Cupressus*, *Fraxinus*, *Grevillea*, *Liquidambar*, *Liriodendron*, *Platanus*, *Platyclusus*, *Sequoia*, *Sequoiadendron*, *Thuja*, and *Ulmus* the wing shall not be removed as inert matter.

RULE PROPOSAL NO. 5

AOSA RULES FOR TESTING SEEDS, NEW RULE, section 2.7 k, page 7

2.7 Kind or cultivar considered pure seed.

- k. Refer to section 2.10 a(6) for classification of tree and shrub seed and fruit wings.

RULE PROPOSAL NO. 6

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing

Remove the 'NOX' column from the main body of Handbook 25.

RULE PROPOSAL NO. 7

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing

Remove the symbol 'W' from the 'spp. class' column of Handbook for species which have other symbols listed. The 'W' symbol would remain in the 'spp. class' column exclusively for those species which are only considered weeds.

RULE PROPOSAL NO. 8

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 3

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Achillea millefolium --yarrow, common	(Asteraceae)	F	W	C	W	C	W	W	W

RULE PROPOSAL NO. 9

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 7

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Allium schoenoprasum --chives	(Liliaceae)	H,V	W	C	C	W	W	W	C

RULE PROPOSAL NO. 10

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 7

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u> <u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Allium cernuum --onion, nodding	(Liliaceae)	F, V	W	C	W	W	W	W	C

RULE PROPOSAL NO. 11

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 12

<u>Scientific / Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u> <u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Apium graveolens var. dulce --celery	(Apiaceae)	V, H	C	W	C	W	W	W	C

RULE PROPOSAL NO. 12

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 16

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u> <u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Aster glaucodes --aster, blueleaf	(Asteraceae)	F	W	C	W	C	W	W	W

RULE PROPOSAL NO. 13

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 19

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u> <u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Baileya multiradiata --marigold, desert --marigold, wooly	(Asteraceae)	F	W	C	W	C	W	W	W

RULE PROPOSAL NO. 14

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 19

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Balsamorhiza sagittata --balsamroot, arrowleaved	(Asteraceae)	F	W	C	W	C	W	W	W

RULE PROPOSAL NO. 15

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 24

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Bromus hordeaceus --chess, soft --brome, blando	(Poaceae)	R	W	W	W	C	W	W	W

RULE PROPOSAL NO. 16

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 23

<u>Scientific / Common Name</u>	<u>Family</u>
Bromus catharticus --rescuegrass --brome, prairie	(Poaceae)

RULE PROPOSAL NO. 17

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 28

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Carthamus tinctorius --safflower	(Asteraceae)	A, F	C	C	C	W	W	W	W

RULE PROPOSAL NO. 18, AS AMENDED

UNIFORM CLASSIFICATION OF WEED AND CROP SEED

Contribution No. 25 to the Handbook on Seed Testing, page 28

<u>Scientific / Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u> <u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Cichorium intybus --chicory	(Asteraceae)	V, F	W	W	W	W	W	W	W

RULE PROPOSAL NO. 19

UNIFORM CLASSIFICATION OF WEED AND CROP SEED

Contribution No. 25 to the Handbook on Seed Testing, page 40

<u>Scientific / Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u> <u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Cuminum cyminum --cumin	(Apiaceae)	H	W	W	C	W	W	W	W

RULE PROPOSAL NO. 20, AS AMENDED

UNIFORM CLASSIFICATION OF WEED AND CROP SEED

Contribution No. 25 to the Handbook on Seed Testing, page 47

<u>Scientific / Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u> <u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Echinacea angustifolia --coneflower, purple-headed	(Asteraceae)	F, H	W	C	C	C	W	W	W

RULE PROPOSAL NO. 21, AS AMENDED

UNIFORM CLASSIFICATION OF WEED AND CROP SEED

Contribution No. 25 to the Handbook on Seed Testing, page 47

<u>Scientific / Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u> <u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Echinacea purpurea --coneflower, purple	(Asteraceae)	F, H	W	C	C	C	W	W	W

RULE PROPOSAL NO. 22

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
 Contribution No. 25 to the Handbook on Seed Testing, page 48

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Elymus elymoides --bottlebrush-squirreltail --squirreltail	(Poaceae)	R	W	W	W	C	W	W	W

RULE PROPOSAL NO. 23

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
 Contribution No. 25 to the Handbook on Seed Testing, page 52

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Eschscholzia caespitosa --poppy, dwarf California	(Papaveraceae)	F	W	C	W	C	W	W	W
Eschscholzia californica subsp. californica --poppy, California	(Papaveraceae)	F	W	C	W	C	W	W	W
Eschscholzia californica subsp. mexicana --poppy, Mexican gold	(Papaveraceae)	F	W	C	W	C	W	W	W

RULE PROPOSAL NO. 24

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
 Contribution No. 25 to the Handbook on Seed Testing, page 61

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Helianthus annuus --sunflower, wild --sunflower, common	(Asteraceae)	A, F	C	C	W	W	W	W	W

RULE PROPOSAL NO. 25

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 70

Lathyrus hirsutus (Fabaceae)
--rough-pea

RULE PROPOSAL NO. 26

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 70

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Lavandula angustifolia --lavender	(Lamiaceae)	H, F	W	C	C	W	W	W	W

RULE PROPOSAL NO. 27

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 74

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Linum lewisii --flax, Lewis --flax, prairie	(Linaceae)	F	W	C	W	C	W	W	W

RULE PROPOSAL NO. 28

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 76

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Lotus scoparius --deerweed	(Fabaceae)	R	W	W	W	C	W	W	W

RULE PROPOSAL NO. 29

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 88

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Osmorhiza occidentalis --aniseroor, sweet	(Apiaceae)	F	W	C	W	C	W	W	W

RULE PROPOSAL NO. 30

UNIFORM CLASSIFICATION OF WEED AND CROP SEED, NEW RULE
Contribution No. 25 to the Handbook on Seed Testing, page 90

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Paspalum nicorae --brunswickgrass	(Poaceae)	R	W	W	W	C	W	W	W

RULE PROPOSAL NO. 31

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 92

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Penstemon cyananthus (Scrophulariaceae) --penstemon, Wasatch		F	W	C	W	C	W	W	W

RULE PROPOSAL NO. 32

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 92

<u>Scientific / Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Petroselinum crispum --parsley	(Apiaceae)	V, H	W	W	C	W	W	W	C

RULE PROPOSAL NO. 33

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 101

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u> <u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Poa secunda	(Poaceae)	R	W	W	W	C	W	W	W
--bluegrass, alkali									
--bluegrass, big									
--bluegrass, Canby									
--bluegrass, Nevada									
--bluegrass, pine									
--bluegrass, Sandberg									

RULE PROPOSAL NO. 34, AS AMENDED

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
Contribution No. 25 to the Handbook on Seed Testing, page 110

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u> <u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Rosmarinus officinalis	(Lamiaceae)	H, S	W	W	C	W	C	W	W
--rosemary									

RULE PROPOSAL NO. 35

UNIFORM CLASSIFICATION OF WEED AND CROP SEED, NEW RULE
Contribution No. 25 to the Handbook on Seed Testing, page 120

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u> <u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Solanum viarum	(Solanaceae)	W	W	W	W	W	W	W	W
--tropical soda apple									

RULE PROPOSAL NO. 36

UNIFORM CLASSIFICATION OF WEED AND CROP SEED

Contribution No. 25 to the Handbook on Seed Testing, page 121

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Sphaeralcea munroana --globemallow, munro	(Malvaceae)	F	W	C	W	C	W	W	W

RULE PROPOSAL NO. 37, AS AMENDED

UNIFORM CLASSIFICATION OF WEED AND CROP SEED

Contribution No. 25 to the Handbook on Seed Testing, page 124

<u>Scientific /Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Tanacetum parthenium --matricaria --feverfew, common	(Asteraceae)	F	W	C	C	W	W	W	W

RULE PROPOSAL NO. 38, AS AMENDED

UNIFORM CLASSIFICATION OF WEED AND CROP SEED

Contribution No. 25 to the Handbook on Seed Testing, page 125

<u>Scientific / Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>contaminating</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Thymus vulgaris --thyme, common	(Lamiaceae)	F, H	W	C	C	W	W	W	W

RULE PROPOSAL NO. 39

UNIFORM CLASSIFICATION OF WEED AND CROP SEED
 Contribution No. 25 to the Handbook on Seed Testing, page 125

<u>Scientific / Common Name</u>	<u>Family</u>	<u>Spp.</u> <u>Class</u>	<u>Classification</u>						
			<u>A</u>	<u>F</u>	<u>H</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>V</u>
Thymus serpyllum --mother-of-thyme --thyme, lemon --thyme, creeping	(Lamiaceae)	F, H	W	C	C	W	W	W	W

RULE PROPOSAL NO. 40

AOSA RULES FOR TESTING SEEDS, Table 1, page 46

Table 1. Weights for working sample of agricultural, vegetable and herb, flowers, and tree and shrub seeds.

Kind of seed	Minimum weight for purity analysis (grams)	Minimum weight for noxious weed seed or bulk examination (grams)	Approximate number of seeds per gram	Approximate number of seeds per ounce
<i>Linaria maroccana</i> Hook f. linaria	0.2	2	14,040	398,015

RULE PROPOSAL NO. 41

AOSA RULES FOR TESTING SEEDS, Table 1, page 37

Table 1. Weights for working sample of agricultural, vegetable and herb, flowers, and tree and shrub seeds.

Kind of seed	Minimum weight for purity analysis (grams)	Minimum weight for noxious weed seed or bulk examination (grams)	Approximate number of seeds per gram	Approximate number of seeds per ounce
<i>Anagallis arvensis</i> L. anagallis	2	20	1,200	34,035

RULE PROPOSAL NO. 42

AOSA RULES FOR TESTING SEEDS, NEW RULE, Table 1, page 45

Table 1. Weights for working sample of agricultural, vegetable and herb, flowers, and tree and shrub seeds.

Kind of seed	Minimum weight for purity analysis (grams)	Minimum weight for noxious weed seed or bulk examination (grams)	Approximate number of seeds per gram	Approximate number of seeds per ounce
<i>Hesperis matronalis</i> L. dame's rocket sweet rocket	5	50	515	14,665

RULE PROPOSAL NO. 43

AOSA RULES FOR TESTING SEEDS, NEW RULE, Table 1, page 45

Table 1. Weights for working sample of agricultural, vegetable and herb, flowers, and tree and shrub seeds.

Kind of seed	Minimum weight for purity analysis (grams)	Minimum weight for noxious weed seed or bulk examination (grams)	Approximate number of seeds per gram	Approximate number of seeds per ounce
<i>Iberis umbellata</i> L. candytuft, annual	6	60	455	12,860

RULE PROPOSAL NO. 44

AOSA RULES FOR TESTING SEEDS, NEW RULE, Table 1, page 41

Table 1. Weights for working sample of agricultural, vegetable and herb, flowers, and tree and shrub seeds.

Kind of seed	Minimum weight for purity analysis (grams)	Minimum weight for noxious weed seed or bulk examination (grams)	Approximate number of seeds per gram	Approximate number of seeds per ounce
<i>Cosmos bipinnatus</i> Cavanilles cosmos: sensation mammoth or crested types	16	160	160	4,495

RULE PROPOSAL NO. 45

AOSA RULES FOR TESTING SEEDS, NEW RULE, Table 1, page 45

Table 1. Weights for working sample of agricultural, vegetable and herb, flowers, and tree and shrub seeds.

Kind of seed	Minimum weight for purity analysis (grams)	Minimum weight for noxious weed seed or bulk examination (grams)	Approximate number of seeds per gram	Approximate number of seeds per ounce
<i>Gazania rigens</i> (L.) Gaertner pied gazania	11	110	235	6,705
'Rubbed' seed	6	60	425	12,000

RULE PROPOSAL NO. 46, AS AMENDED

AOSA RULES FOR TESTING SEEDS, Table 3, page 88 and section 4.8 o, page 23

Table 3. Methods of testing for laboratory germination

Kind of seed	Substrata	Temperature °C	First count days	Final count days	Additional directions
<i>Securigera varia</i> Crownvetch	B,T. TB,S.	20	7	14	Excessive moisture needed. Hard seeds: see sec. 4.2 d and 4.9k(6). Swollen seeds: see sec. 4.8o.

4.8 o. Special procedures and alternate methods for germination in Crownvetch (*Securigera varia*) - Swollen seeds: At the conclusion of the 14 day test period place seeds on new substrate and pierce the seedcoat with a sharp instrument, continue the test for 5 additional days. Alternate method: When a high percentage of swollen seeds remain at the end of the standard test, retest in a sealed polyethylene envelope.

RULE PROPOSAL NO. 47

AOSA RULES FOR TESTING SEEDS, Table 3, page 77

4.10, Table 3. Methods of testing for laboratory germination.

Kind of seed	Substrata	Temperature ° C	First count days	Final count days	Additional Directions
<i>Lupinus</i> spp. lupine, all annual types and cultivars	B, T	20-30; 20	5 ^a	18 ^b	Hard seed: see sec. 4.2 d and 4.9 k(6).

RULE PROPOSAL NO. 48

AOSA RULES FOR TESTING SEEDS, Table 3, page 73

4.10, Table 3. Methods of testing for laboratory germination.

Kind of seed	Substrata	Temperature ° C	First count days	Final count days	Additional Directions
<i>Gysophila elegans</i> M. Bieberstein baby's breath, long-petalled	TB	20; 15	none ^a	8 ^b	Light and KNO ₃ . Some cultivars may be sensitive to temperatures above 18°C.
<i>Gysophila pani-</i> <i>culata</i> L. baby's breath, perennial	TB	20	none ^a	7 ^b	Light and KNO ₃ .
<i>Gysophila repens</i> L., <i>G. pacifica</i> Komarov baby's breath	TB	15	none ^a	8 ^b	Sensitive to temperatures above 18°C.

RULE PROPOSAL NO. 49

AOSA RULES FOR TESTING SEEDS, Table 3, page 63

Table 3. Methods of testing for laboratory germination

Kind of seed	Substrata	Temperature	First Count	Final Count	Additional Directions
<i>Brassica napus</i> Annual rape and winter rape	B, T	20 - 30; 15 - 25	3	7	

RULE PROPOSAL NO. 50, AS AMENDED

AOSA RULES FOR TESTING SEEDS, Table 3, page 66

Table 3. Methods of testing for laboratory germination

Kind of seed	Substrata	Temperature	First Count	Final Count	Additional Directions
<i>Cicer arietinum</i> Chickpea	T, S	20 - 30; 20	3	7	0.3 - 0.6% Ca(NO ₃) ₂

RULE PROPOSAL NO. 51, AS AMENDED

AOSA RULES FOR TESTING SEEDS, Table 3, page 81, section 4.7 d, page 21, and section 4.8 p, page 23

4.10, Table 3. Methods of testing for laboratory germination.

Kind of seed	Substrata	Temperature ° C	First count days	Final count days	Additional Directions
<i>Penstemon eatonii</i> A. Gray firecracker penstemon					
Method 1	P	15; 10-20	7	14	see sec. 4.8p
Method 2	P	15; 10-20	14	28	see sec. 4.8p

4.7-d (See Rule Proposal No. 52)

4.8-p (See Rule Proposal No. 52)

RULE PROPOSAL NO. 52, AS AMENDED

AOSA RULES FOR TESTING SEEDS, NEW RULE, Table 3, page 81, section 4.7 d, page 21, and section 4.8 p, page 23

4.10, Table 3. Methods of testing for laboratory germination.

Kind of seed	Substrata	Temperature ° C	First count days	Final count days	Additional Directions
<i>Penstemon</i> spp. penstemon or beardtongue, all species not named in other rules					
Method 1	P	15; 10-20	7	14	see sec. 4.8p
Method 2	P	15; 10-20	14	28	see sec. 4.8p

4.7-d.

For *Nasella viridula*, *Penstemon penlandii*, *Penstemon eatonii*, and *Penstemon* spp., report results of Method 2 (see Table 3 and sections 4.8k, 4.8m, and 4.8p), as percentage germination. If the number in Method 2 is less than in Method 1, subtract results of Method 2 from Method 1 and report the difference as dormant seed percentage.

4.8-p.

Firecracker penstemon (*Penstemon eatonii*) and other species of penstemon or beardtongue (*Penstemon* spp.) not named in other rules. -- Two test methods as prescribed in Table 3 shall be used on each sample. For Method 1, place 400 seeds on blotters moistened with 0.055% (500 ppm) GA₃, prechill for 60 days (2-5° C), and germinate for 14 days (15 or 10/20° C). Post-test viability determination of ungerminated seeds is required (sec. 4.9k). As an alternative to Method 1, conduct a TZ test on 400 seeds. For Method 2, plant 400 seeds on water-moistened blotters and germinate with light for 28 days; count normal seedlings. Refer to 4.7d for calculation and reporting of results.

RULE PROPOSAL NO. 53

This proposal was withdrawn by the author.

RULE PROPOSAL NO. 54

AOSA RULES FOR TESTING SEEDS, NEW RULE, Table 1, page 36 and Table 3, page 58

2.4, Table 1. Weights for working sample of agricultural, vegetable and herb, flower, and tree and shrub seeds

Kind of seed	Minimum weight for purity analysis	weight for noxious-weed seed or bulk examination	Approximate number of seeds per gram	Approximate number of seeds per ounce
	Grams	Grams	Number	Number
<i>Achnatherum thurberianum</i> (Piper) Barkworth Thurber needlegrass	8	80	300	8,500

4.10, Table 3. Methods of testing for laboratory germination.

Kind of seed	Substrata	Temperature ° C	First count days	Final count days	Additional Directions
<i>Achnatherum thurberianum</i> (Piper) Barkworth Thurber needlegrass	P	10-20; 15-25	10	21	Dark. Ungerminated seeds: see sec. 4.2e and 4.9k.

RULE PROPOSAL NO. 55

AOSA RULES FOR TESTING SEEDS, NEW RULE, Table 1, page 38 and Table 3, page 62

2.4, Table 1. Weights for working samples

Kind of seed	Minimum weight for purity analysis	weight for noxious-weed seed or bulk examination	Approximate number of seeds per gram	Approximate number of seeds per ounce
	Grams	Grams	Number	Number
<i>Balsamorhiza sagittata</i> (Pursh) Nutt. arrowleaf balsamroot	25	250	100	2,800

4.10, Table 3. Methods of testing for laboratory germination.

Kind of seed	Substrata	Temperature ° C	First count days	Final count days	Additional Directions
<i>Balsamorhiza sagittata</i> (Pursh) Nutt. arrowleaf balsamroot	B	5-15	7	14	Prechill 70 days at 2°C. TZ may also be used: see sec. 4.9 k(2).

RULE PROPOSAL NO. 56

AOSA RULES FOR TESTING SEEDS, Table 3, page 75

4.10, Table 3. Methods of testing for laboratory germination.

Kind of seed	Substrata	Temperature ° C	First count days	Final count days	Additional Directions
<i>Kochia prostrata</i> forage kochia	P	20	4	7	Prechill 14 days. Ungerminated seeds: see sec. 4.2e and 4.9k

RULE PROPOSAL NO. 57, AS AMENDED

AOSA RULES FOR TESTING SEEDS, section 3.5, page 16

3.5 Fluorescence test of ryegrass. -- A fluorescence test shall be made on all samples of ryegrass for which the percentage of perennial ryegrass (*Lolium perenne*) and /or Italian ryegrass (*L. multiflorum*) is to be reported. The seedlings shall be grown on filter paper and the number of fluorescent seedlings determined under ultraviolet light at the end of the germination period.^a

^aFor description of method and apparatus for determining fluorescence in ryegrass see the article in the *AOSA Newsletter* 37 (3): 20-27, 1963 or the *Cultivar Purity Testing Handbook, Contribution no. 33 to the Handbook on Seed Testing, AOSA, 1991, Fluorescent Test, C. Annual (Lolium multiflorum) and Perennial (Lolium perenne) Ryegrass*. The formula appearing above is to be used instead of the one given in the article cited.

RULE PROPOSAL NO. 58

AOSA RULES FOR TESTING SEEDS, section 2.6, page 6

2.6 Seed unit.

- b. Seed units in the grass family (for descriptions and illustrations of grass seed units, see AOSA Newsletter 70(1):49-59, 1996) include the following:
- (1) Caryopses and single florets;
 - (2) Single floret spikelets in *Agrostis*, *Alopecurus*, and *Zoysia*; and multiple florets or spikelets in *Anthoxanthum*, *Arrhenatherum*, *Avena*, *Axonopus*, *Bouteloua*, *Brachiaria*, *Chloris*, *Echinochloa*, *Ehrharta*, *Holcus*, *Hordeum*, *Melinis*, *Oryza*, *Panicum*, *Paspalum*, *Phalaris*, *Poa*, *Setaria* and *Zea*;
 - (3) Spikelets which may have attached rachis segments, pedicels and sterile spikelets in *Andropogon*, *Bothriochloa ischaemum*, *Schizachyrium scoparium*, *Sorghastrum* and *Sorghum*;
 - (4) Spikelet groups that disarticulate as a unit in *Hilaria jamesii*; spikelet groups that disarticulate as units with attached rachis and internodes in *Andropogon* spp., *Bothriochloa ischaemum*, *Schizachyrium scoparium*, *Elymus elymoides*, *Bouteloua curtipendula*, *Sorghastrum nutans* and *Triticum spelta*;
 - (5) Fascicles of *Cenchrus ciliaris* and *Pennisetum*, consisting of bristles and spikelets;
 - (6) Burs of *Buchloe dactyloides*;
 - (7) Bulblets of *Poa bulbosa*;

RULE PROPOSAL NO. 59

This proposal was withdrawn by the author.