PRESENT RULE

2.7 Kind or cultivar considered pure seed.

g. Seed units of the grass family listed in section 2.6b(1) through (5) 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 2.7g(1) and (2) for species in which determination of endosperm development is not necessary. Refer to sections 2.7h and 2.10a(8) when nematode galls, fungus bodies, etc. have replaced the caryopsis in seed units.

(4) For methods of determining pure seed percentages of annual and perennial ryegrass, refer to sections 3.5 and 4.8I.

PROPOSED RULE

2.7 Kind or cultivar considered pure seed.

g. Seed units of the grass family listed in section 2.6b(1) through (5) 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 2.7g(1) and (2) for species in which determination of endosperm development is not necessary. Refer to section 2.7g(5) for *Festuca* spp. not covered in section 2.7g(3) and *Lolium* spp.. Refer to sections 2.7h and 2.10a(8) when nematode galls, fungus bodies, etc. have replaced the caryopsis in seed units.

(4) For methods of determining pure seed percentages of annual and perennial ryegrass, refer to sections 2.7g(5), 3.5 and 4.8I.

(5) Regarding florets of the crop genera *Festuca* not covered in section 2.7g(3) and *Lolium*. Only those florets in which the caryopsis is at least one-third the palea length, as measured from the rachilla base, shall be considered pure seed.

SUPPORTING EVIDENCE (2.7 Kind or cultivar considered pure seed, continued)

The adoption of a more specific criterion for endosperm development is needed because:

- The current "some degree of endosperm development" is ambiguous.
- The current ambiguity of "some degree of endosperm development" can cause specific problems in quality assessment of *Festuca* and *Lolium* seed lots (e.g. Percent by weight of pure seed might be inconsequentially altered, regardless of analyst interpretation of endosperm development. However, germination percentage, potentially, might be greatly altered depending on how an analyst interprets pure seed according to "some degree of endosperm development" since at some point, caryopsis with "some degree of endosperm development" would fail to germinate. NOTE: There exists no data to support or refute the example given above.)
- Both ISTA and the Canadian Rules, PSD# 33 and section 3.2.2.c.iii, respectively, require pure seed of *Festuca* and *Lolium* to have a caryopsis at least one-third the length of the palea as measured from the base of the rachilla.

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DATE OF PROPOSAL

October 15, 1995

PRESENT RULE

NEW RULE

PROPOSED RULE

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

b. Seeds and seedlike structures from weed plants, which by visual examination (including the use of light or dissection), can be definitely demonstrated as falling within the following categories:

(2) Grass florets and caryopses classed as inert:

(f) immature florets of *Festuca* and *Lolium* in which the caryopsis is less than one-third the palea length, as measured from the rachilla base.

SUPPORTING EVIDENCE

The addition of this NEW RULE, 2.10.b.2.f, is necessary only if the Rule Change Proposal for pure seed classification of *Festuca* and *Lolium* spp. (2.7g(5)) is adopted as stated. This Proposed Rule also provides a criterion for determination of inert matter for weedy classifications of *Festuca* and *Lolium* consistant with Rule Change Proposal 2.7g(5) for determination of pure seed for crop classifications of same. NOTE: No data exists to support or refute this new rule as proposed.

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