

Ag 20.03 Germination. Germination of seed containing hard seed shall be recorded on the label by one of the following methods:

- (1) Germination . . . % including . . . % Hard Seeds
 or
- (2) Germination including Hard Seeds ----- . . . %
 Hard Seeds ----- . . . %
 or
- (3) Germination ----- . . . %
 Hard Seeds ----- . . . %
 Germination and Hard Seeds ----- . . . %

Ag. 20.04 Certifying agency. The department approves the Wisconsin Crop Improvement Association, Inc. as an agency satisfactory for the performance of seed certification in Wisconsin. In other states and in Canada, the department approves that agency officially recognized by the department of agriculture of that state or province as satisfactory for the performance of seed certification.

History: 1-2-56; am. Register, April, 1957, No. 16, eff. 5-1-57.

Ag 20.05 Permits. Applications for permits shall be made on forms prescribed by the department. No person issued a permit under authority of section 94.42, Wis. Stats., shall use or refer to it in any manner that would imply that the department recommends or approves the seeds sold, offered or exposed for sale.

Ag 20.06 Methods. The methods and procedures used in making purity analyses and germination tests shall be those adopted by the U. S. department of agriculture in the administration of the federal seed act.

Ag 20.07 Sampling. (1) METHOD. (a) In order to secure a representative sample, equal portions shall be taken from evenly distributed parts of the quantity of seed or screenings to be sampled.

(b) For free-flowing seed in bags or bulk, a probe or trier shall be used. For small free-flowing seed in bags a probe or trier long enough to sample all portions of the bag shall be used.

(c) Non-free flowing seed, such as a certain grass seed, uncleaned seed, or screenings, difficult to sample with a probe or trier, shall be sampled by thrusting the hand into the bulk and withdrawing representative portions.

(d) The portions shall be combined into a composite sample or samples.

(e) As the seed is sampled each portion shall be examined and, whenever there appears to be lack of uniformity, additional samples shall be taken to show such lack of uniformity as may exist.

(2) **BULK.** Bulk seeds shall be sampled by inserting a long probe or thrusting the hand into the bulk as circumstances require in at least 7 uniformly distributed parts of the quantity being sampled.

(3) **BAGS. (a)** In quantities of 5 bags or less, each bag shall be sampled.

(b) In quantities of more than 5 bags, at least every fifth bag but not less than 5 bags shall be sampled.

(4) **PACKETS.** In sampling seed in packets, entire unopened packets shall be taken.

Register, April, 1957, No. 16.

Ag 20.08 Size of sample. The following are minimum weights of samples of seed to be submitted for analysis, test or examination:

- (1) Two ounces of the seed specified in section 94.39 (1) (i) 1, Wis. Stats.
- (2) Four ounces of the seed specified in section 94.39 (1) (i) 2, Wis. Stats.
- (3) Eight ounces of the seed specified in section 94.39 (1) (i) 3 and 4, Wis. Stats.
- (4) Two pounds of the seed specified in section 94.39 (1) (i) 5, Wis. Stats.

Ag 20.09 Tolerances. The following tolerances shall be recognized between the percentages of rates of occurrence found by analysis, test or examination and percentages of rates of occurrence required or stated.

(1) **PURITY PERCENTAGES.** In the determination of the tolerance for the percentage of the distinguishable kind, type or variety (pure seed), weed seeds, other crop seeds, and inert matter, the sample shall be first considered as made up of 2 parts: (a) The percentage of the component (pure seed, weed seed, crop seed, or inert matter as the case may be) being considered, and (b) the difference between that percentage and 100. The number represented by (a) is then multiplied by the number represented by (b) and the product is divided by 100. The resulting number is then multiplied by .02 and the resulting product added to 0.2 or 0.6 as indicated in the following formulae:

$$\text{Pure seed tolerance equals } 0.6 \text{ plus } \left(0.2 \times \frac{a \times b}{100} \right)$$

Weed seeds, other crop seeds and inert matter tolerance equals 0.2 plus $\left(0.2 \times \frac{a \times b}{100} \right)$

(2) **GERMINATION.** The following tolerances are applicable to the percentage of germination.

Found by test:	Tolerance
96 or over -----	5
90 or over but less than 96 -----	6
80 or over but less than 90 -----	7
70 or over but less than 80 -----	8
60 or over but less than 70 -----	9
Less than 60 -----	10

(3) **TOLERANCES FOR NOXIOUS WEED SEEDS.** The determination of the number of noxious weed seeds present per unit weight shall be made on no less than the quantity of the seeds specified in section 94.39 (1) (i) 1 to 5, Wis. Stats. The following tolerances shall be recognized for rates of occurrences of noxious weed seeds. Representations showing the rates of occurrence indicated in columns 2 and 4 will be considered within the tolerance if no more than the accompanying number in columns 1 and 3 are found.