

Kentucky Seed Law Regulations

Effective January 2017

Unofficial Text of
Administrative Regulations

For Information Only



College of Agriculture,
Food and Environment

Kentucky Seed Law Regulations

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12 KAR 1:116.

Sampling, analyzing, testing, and tolerances.

RELATES TO: KRS 250.021, 250.031, 250.041, 250.051, 250.061, 250.071, 250.081, 250.091, 250.101, 250.111

STATUTORY AUTHORITY: KRS 250.081

NECESSITY, FUNCTION AND CONFORMITY: KRS 250.081(1)(c)2 requires the director to prescribe seed sampling procedures, methods of analysis, testing and examining of seed, and tolerances. This administrative regulation prescribes the methods of sampling, analyzing, and testing seed, and establishes the tolerances to be applied in the administration of the Kentucky Seed Law.

Section 1. Definition. "Kentucky Seed Law" means KRS 250.021 through 250.111 and 12 KAR Chapter 1.

Section 2. The methods of sampling, analyzing, testing, and examining seed to be applied in the administration of the Kentucky Seed Law shall be those established in Rules for Testing Seeds.

Section 3. The tolerances to be applied in the administration of the Kentucky Seed Law shall be those established in Rules for Testing Seeds.

Section 4. Incorporation by Reference.

- (1) "Rules for Testing Seeds", issued by the Association of Official Seed Analysts in October 2015, is incorporated by reference.
- (2) This document may be inspected, copied, or obtained, subject to applicable copyright law, at the Division of Regulatory Services, University of Kentucky, Lexington, Kentucky 40546-0275, Monday through Friday, 8 a.m. to 4:30 p.m. (32 Ky.R. 1345; 1607; eff. 3-31-2006; 40 Ky.R. 97; eff. 10-9-2013; 43 Ky.R.428; eff. 12-2-2016.)

12 KAR 1:120.

Noxious weed seed.

RELATES TO: KRS 250.081(1)(c)3

STATUTORY AUTHORITY: KRS 250.081

NECESSITY, FUNCTION, AND CONFORMITY: To designate the kinds of weed seed to be considered noxious in Kentucky and to establish their maximum permitted rate of occurrence in agricultural seed.

Section 1. Noxious Weed Seed.

- (1) The following kinds of weed seed are designated noxious in Kentucky and the maximum permitted rate of occurrence per pound of agricultural seed shall be as follows:

Name of Kind	Allowed Per Pound
Balloon vine (<i>Cardiospermum halicacabum</i>)	0
Purple moonflower (<i>Ipomoea turbinata</i>)	0
Canada thistle (<i>Cirsium arvense</i>)	0
Johnsongrass (<i>Sorghum halepense</i> and <i>sorghum almum</i>) and perennial rhizomatous derivatives of these)	0
Quackgrass (<i>Agropyron repens</i>)	0
Annual bluegrass (<i>Poa annua</i>)	256
Buckhorn plantain (<i>Plantago lanceolata</i>)	304
Corncockle (<i>Agrostemma githago</i>)	192
Dodder (<i>Cuscuta</i> spp.)	192
Giant foxtail (<i>Setaria faberii</i>)	192
Oxeye daisy (<i>Chrysanthemum leucanthemum</i>)	256
Sorrel (<i>Rumex acetosella</i>)	256
Wild onion and wild garlic (<i>Allium</i> spp.)	96

- (2) Other limitations.

- (a) Seed which contains in excess of a sum total of 480 noxious weed seed per pound (subject to the above limitations) is prohibited from sale in Kentucky.
- (b) There shall be no tolerance applied to prohibited noxious weed seed. (20 Ky.R. 3323; eff. 8-24-94.)

12 KAR 1:125.

Identification of seed not for sale.

RELATES TO: KRS 250.081(1)(c)4

STATUTORY AUTHORITY: KRS 250.081

NECESSITY, FUNCTION, AND CONFORMITY: To indicate means for identifying seed in storage or in or consigned to a seed cleaning or processing plant, but not offered for sale in locations where some, but not all, seed is for sale. This administrative regulation is needed to facilitate fair and efficient inspection by enforcement officers.

Section 1. The following procedure shall be used if some, but not all, seed in or consigned to a seed cleaning or processing establishment is planned for distribution:

- (1) All seed lots shall be maintained separately to prevent the accidental or mechanical mixing of different lots.
- (2) All seed not intended for distribution shall be clearly identified with printed signs which indicate the owner or the specific intended use of the seed.

Section 2. All seed intended for distribution shall be plainly identified with a tag on each container, or with a lot number stenciled or taped on each container. If the seed is in a box, frame, crib, wagon, or other enclosed space, that storage space shall be construed to be a container. (20 Ky.R. 3324; eff. 8-24-94.)

12 KAR 1:130.

Labeling of seed mixtures.

RELATES TO: KRS 250.081(1)(c)9

STATUTORY AUTHORITY: KRS 250.081

NECESSITY, FUNCTION, AND CONFORMITY: To prescribe a uniform manner of avoiding contradictory information on printed seed bags and on tags attached to the printed bags in situations where analysis after bagging reveals that a mixture of seed kinds is present rather than a single seed kind.

Section 1. Labeling Tall Fescue and Orchardgrass Seed Mixtures in Printed Bags.

- (1) Seed of mixtures sold in a bag printed with the words "Kentucky 31 Tall Fescue" on the front (broad) side shall have a seed tag attached that complies with applicable statutes, and the words "and Orchardgrass Mixture" printed or applied by stencil on the front (broad) side of the bag in lettering that is at least one (1) inch high and located no more than three (3) inches from the "Kentucky 31 Tall Fescue" letters.
- (2) Seed in a bag on which "Kentucky 31 Tall Fescue" is printed on the back (broad) side shall have the words "and Orchardgrass Mixture" printed on the back (broad) side of the bag and the words "and Orchardgrass Mixture" printed or applied by stencil on the bag in lettering that is at least one (1) inch high and located no more than three (3) inches from the "Kentucky 31 Tall Fescue" letters.

Section 2. The information on the bag of other kinds of mixtures in printed bags shall be the same as the information on the attached tag. If alteration of a printed bag is necessary to show that the seed is a mixture, the alteration shall be accomplished by use of stencil on the bag in lettering that is at least one (1) inch high and that is located no more than three (3) inches from the original lettering. (20 Ky.R. 3324; eff. 8-24-94.)

12 KAR 1:135.

Tags available for purchase from the director.

RELATES TO: KRS 250.021, 250.031, 250.041, 250.051, 250.061, 250.071, 250.081, 250.091, 250.101, 250.111

STATUTORY AUTHORITY: KRS 250.081

NECESSITY, FUNCTION, AND CONFORMITY: KRS 250.081(1)(c)8 requires the director to establish charges for tags purchased from the director. This administrative regulation satisfies that statutory mandate by establishing those charges.

Section 1. Tags may be obtained from the Division of Regulatory Services, College of Agriculture, University of Kentucky. Charges shall be as indicated below:

Bag Weight	Charge (dollars)
1 pound to 25 pounds	0.08
Greater than 25 pounds to 100 pounds	0.12

Section 2. If tags are purchased for containers weighing over 100 pounds or for seed in bulk, the number of tags purchased shall be identical to the number which would have been purchased if the seed had been in 100-pound containers.

Section 3. The following information shall be provided to the Division of Regulatory Services in order to purchase tags:

- (1) Lot;
- (2) Seedsman;
- (3) Address;
- (4) Kind;
- (5) Variety;
- (6) Pure Seed;
- (7) Inert Matter;
- (8) Crop Seed;
- (9) Weed Seed;
- (10) Germination;
- (11) Hard Seed;
- (12) Date of Test;
- (13) Weight; and
- (14) Origin. (20 Ky.R. 3325; eff. 8-24-94; 40 Ky.R. 98; 770, eff. 10-9-2013.)

12 KAR 1:140.

Permits, reports, and fees for persons using own tags.

RELATES TO: KRS 250.021, 250.031, 250.041, 250.051, 250.061, 250.071, 250.081, 250.091, 250.101, 250.111

STATUTORY AUTHORITY: KRS 250.081

NECESSITY, FUNCTION, AND CONFORMITY: KRS 250.081(1)(c)7 requires the director of the Agricultural Experiment Station to promulgate procedures for obtaining a permit to label, responsibilities of permit holders, method to be used in determining inspection fees, and the procedure for permit holders to make payment of fees for distributing agricultural seed. This administrative regulation fulfills that statutory mandate.

Section 1. Obtaining Permits.

- (1) Application for permits to label agricultural seed shall be made on Form RS-68-01 (6/13), Application for Permit for User to Provide Own Labels for Agricultural Seed and Mixtures of Agricultural Seed Sold in Kentucky.
- (2) Application for permits to label vegetable seed, flower seed, or combination mulch, seed and fertilizer products shall be made on Form RS-68-02 (6/13), Application for Permit for User to Provide Own Labels for Vegetable Seed, Flower Seed, or Combination Mulch, Seed and Fertilizer Products Sold in Kentucky.

Section 2. Reporting Sales.

- (1) A person who has been granted a permit to label agricultural seed under Section 1 of this administrative regulation shall:
 - (a)1. Submit quarterly reports on Form RS-63-01 until January 1, 2017; or
 2. Submit semi-annual reports on Form RS-63-02 beginning January 1, 2017; and
- (b) Pay a labeling and inspection fee determined on the basis of quantity of seed sold and on the fee schedule established in Section 3 of this administrative regulation.
- (2) Quarters shall be from January through March, April through June, July through September, and October through December. An added assessment of twenty-five (25) dollars or ten (10) percent of the unpaid fee, whichever is greater, shall be made for each seed quarterly report received more than forty-five (45) days after the quarter ends.
- (3) Semi-annual shall be from January through June, and July through December. An added assessment of twenty-five (25) dollars or ten (10) percent of the unpaid fee, whichever is greater, shall be made for each seed semi-annual report received more than forty-five (45) days after the reporting period ends.

Section 3. Labeling and Inspection Fee.

The labeling and inspection fee for agricultural seed permit holders shall be:

- (1) For packages weighing one (1) pound and up to and including twenty-five (25) pounds: eight (8) cents per package;
- (2) For packages or units of seed in excess of twenty-five (25) pounds in weight and up to and including 100 pounds: twelve (12) cents per package or unit.
 - (a) A unit of corn shall be 80,000 seeds.
 - (b) A unit of soybeans shall be 140,000 seeds; and
- (3) For packages in excess of 100 pounds and seed distributed in bulk:
 - (a) Twenty-four (24) cents per 100 pounds; or
 - (b) Twelve (12) cents per unit.

Section 4. Incorporation by Reference.

- (1) The following material is incorporated by reference:
 - (a) "Application for Permit for User to Provide Own Labels for Agricultural Seed and Mixtures of Agricultural Seed Sold in Kentucky", RS-68-01, 6/13;
 - (b) "Application for Permit for User to Provide Own Labels for Vegetable Seed, Flower Seed, or Combination Mulch, Seed, and Fertilizer Products Sold in Kentucky", RS-68-02, 6/13;
 - (c) "Seed Quarterly Report", RS-63-01, 8/13; and
 - (d) "Seed Semi-Annual Report", RS-63-02, 8/16.
- (2) This material may be inspected, copied, or obtained, subject to applicable copyright law, at the Division of Regulatory Services, 103 Regulatory Services Building, University of Kentucky, Lexington, Kentucky 40546-0275, Monday through Friday, 8 a.m. to 4:30 p.m. (20 Ky.R. 3326; eff. 8-24-1994; 40 Ky.R. 100; 580; 770; eff. 10-9-2013; 43 Ky.R. 429; eff. 12-2-2016.)

12 KAR 1:145.

Registration of agricultural seed dealers, noncertified custom seed conditioners, certified seed growers, and certified seed conditioners.

RELATES TO: KRS 250.021, 250.031, 250.041, 250.051, 250.061, 250.071, 250.081, 250.091, 250.101, 250.111

STATUTORY AUTHORITY: KRS 250.051(2), (3), (4), 250.081(1)(c)9

NECESSITY, FUNCTION, AND CONFORMITY: KRS 250.051(2) and (3) and 250.081(1)(c)9 require the director to prescribe the procedures whereby agricultural seed dealers, noncertified custom seed conditioners, certified seed growers, and certified seed conditioners register with the director. This administrative regulation satisfies that statutory mandate by creating a framework for registration.

Section 1. Definition. "Agricultural seed dealer" means a person who distributes agricultural seed in containers of forty (40) pounds or more at retail.

Section 2. Agricultural seed dealers shall register using Form RS-68-03 (6/13), Agricultural Seed Dealer Registration. In accordance with KRS 250.051(4), a twenty-five (25) dollar registration fee shall accompany the submitted application form.

Section 3. Noncertified custom seed conditioners shall register using Form RS-68-04 (6/13), Noncertified Custom Seed Conditioner Registration. In accordance with KRS 250.051(4), a twenty-five (25) dollar registration fee shall accompany the submitted application form.

Section 4. Registration of certified seed growers and certified seed conditioners shall be accomplished by an exchange of records between the Kentucky Seed Improvement Association and the Division of Regulatory Services.

Section 5. Incorporation by Reference.

- (1) The following material is incorporated by reference:
 - (a) Form RS-68-03, 6/13, "Agricultural Seed Dealer Registration"; and
 - (b) Form RS-68-04, 6/13, "Noncertified Custom Seed Conditioner Registration."
- (2) This material may be inspected, copied, or obtained, subject to applicable copyright law, at the Division of Regulatory Services, 103 Regulatory Services Building, University of Kentucky, Lexington, Kentucky 40546-0275, Monday through Friday, 8 a.m. to 4:30 p.m. (20 Ky.R. 3327; eff. 8-24-94; 40 Ky.R. 101; 771; eff. 10-9-2013.)

12 KAR 1:150.

Stop sale orders.

RELATES TO: KRS 250.021, 250.031, 250.041, 250.051, 250.061, 250.071, 250.081, 250.091, 250.101, 250.111

STATUTORY AUTHORITY: KRS 250.081

NECESSITY, FUNCTION, AND CONFORMITY: KRS 250.081(2)(d) authorizes the director to issue and enforce a stop sale order for seed in violation of KRS 250.021 to 250.111 or 12 KAR Chapter 1. This administrative regulation establishes procedures to obtain the release of a stop sale order.

Section 1. A stop sale order shall be released if:

- (1) The deficiencies for which the stop sale order was issued have been corrected; and
- (2) The person who was issued the stop sale order makes a request:
 - (a) In writing; or
 - (b) By phone and follows it with a written request. (20 Ky.R. 3328; eff. 8-24-94; 40 Ky.R. 103; 772; eff. 10-9-2013.)

12 KAR 1:155.

Schedule of charges for samples submitted for testing.

RELATES TO: KRS 250.021 to 250.111

STATUTORY AUTHORITY: KRS 250.081(1)(c)6

NECESSITY, FUNCTION, AND CONFORMITY: KRS 250.081(1)(c)6 requires the director of the Agricultural Experiment Station to promulgate administrative regulations establishing charges for tests of samples submitted to the Kentucky Agricultural Experiment Station Seed Laboratory for testing. This administrative regulation establishes a schedule of charges for service tests, analysis, and examination of seed samples in the Kentucky Agricultural Experiment Station Seed Laboratory.

Section 1. Definition. "Free test" means:

- (1) A complete test consisting of a purity analysis, a noxious weed seed examination for Kentucky, and a germination test; or
- (2) A test with a cost equivalent to a complete test.

Section 2. Except as provided by KRS 250.91 which authorizes one (1) free test per year, the service charges established in this section shall be assessed for sample submitted to the Kentucky Agricultural Experiment Station Seed Laboratory

- (1) Basic charge list:

Kind of Seed	Complete Test	Purity & Noxious Weed Seed Test	Germination Only
Group 1: Corn and soybeans	\$18.00	\$9.00	\$11.00
Group 2: Small grains	\$14.00	\$7.00	\$9.00
Group 3: Tobacco	\$21.00	\$16.00	\$11.00
Group 4: Clovers, alfalfas, and lespedezas	\$18.00	\$9.00	\$11.00
Group 5: Lawn and forage grasses	\$20.00	\$14.00	\$12.00
Group 6: Native grasses, flowers, and forbs	\$40.00	\$30.00	\$30.00
Group 7: Vegetables	\$18.00	\$13.00	\$12.00
Group 8: Ornamentals (trees, shrubs, and flowers) and herbs	\$30.00	\$18.00	\$20.00

- (2) Nonresidents shall be assessed an additional charge of fifteen (15) dollars per sample.
- (3) A complete test shall include a purity analysis, a noxious weed seed examination (for Kentucky only), and a germination test.
- (4) A purity and noxious weed test shall include a purity analysis and a noxious weed seed examination (for only those seed designated as noxious in Kentucky).
- (5) In ryegrass samples, a complete test shall be assessed a charge of twenty-five (25) dollars and shall include a fluorescence test which distinguishes perennial ryegrass seed and annual ryegrass seed.
- (6) Mixtures, difficult, or dirty samples may be charged an additional forty (40) dollars per hour for extra separation time.
- (7) Mixtures submitted for germination testing shall be charged a fifteen (15) dollar separation fee. Each component over five (5) percent of the total in mixtures shall be charged individually for germination testing.
- (8) Rush service may be provided upon request at an additional charge of twenty-five (25) dollars per sample.

- (9) Samples of coated, encrusted, pelleted, film-coated, or treated seed shall be charged an additional fifteen (15) dollars for hand washing and disposal of toxic substances.
- (10) The schedule of charges for special tests shall be:
 - (a) Noxious weed seed examinations:
 - 1. Kentucky only: ten (10) dollars;
 - 2. Other states: fifteen (15) dollars per state; and
 - 3. All states: fifty (50) dollars;
 - (b) Moisture test: eight (8) dollars;
 - (c) Seed count per pound: ten (10) dollars;
 - (d) Varietal identification:
 - 1. Soybean hypocotyl color test: fifteen (15) dollars;
 - 2. Phenol test of wheat: eighteen (18) dollars; and
 - 3. Peroxidase test of soybean: eighteen (18) dollars;
 - (e) Vigor tests:
 - 1. Accelerated aging: eighteen (18) dollars;
 - 2. Cold test: eighteen (18) dollars; and
 - 3. Conductivity: eighteen (18) dollars;
 - (f) Tetrazolium test:
 - 1. Groups 1 and 2: eighteen (18) dollars;
 - 2. Groups 4, 5, and 7: thirty (30) dollars; and
 - 3. Groups 3, 6, and 8: forty (40) dollars;
 - (g) Seed or plant tall fescue endophyte. One (1) to 100 specimens: \$115;
 - (h) Biotechnology trait identification. Herbicide bioassay: thirty (30) dollars; and
 - (i) Reexamination of a sample to secure information not requested initially, or any analysis or test to obtain information not specifically required by the Kentucky Seed Law, KRS 250.021 to 250.111 and 12 KAR Chapter 1, shall be assessed forty (40) dollars per hour for analytical time.
- (11) Testing performed in compliance with International Seed Testing Association (ISTA) rules shall be charged fifteen (15) dollars in addition to test fees.
- (12) Testing performed in compliance with Canadian Methods and Procedures (M & P) for Testing Seed shall be charged eighteen (18) dollars in addition to test fees.
- (13) Charges for kinds not listed in this subsection shall be in accord with charges made for other kinds of seed of similar size. (20 Ky.R. 3329; eff. 8-24-1994; 40 Ky.R. 104; 772; eff. 10-9-2013; 43 Ky.R. 431; eff. 12-2-2016.)

12 KAR 1:160.

Seed not required to be labeled by variety name.

RELATES TO: KRS 250.081(1)(c)9

STATUTORY AUTHORITY: KRS 250.081

NECESSITY, FUNCTION, AND CONFORMITY: To designate the kinds of seed for which labeling of variety name is not required. For all other kinds, the variety name is an essential part of the information on the label.

Section 1. The following kinds of seed are omitted from the requirement for labeling to show the variety name and the statement "Variety Unknown":

- (1) Bermudagrass (*Cynodon dactylon*).
- (2) Bluegrass, Canada (*Poa compressa*).
- (3) Bluegrass, Rough (*Poa trivialis*).
- (4) Bromegrass, Field (*Bromus arvensis*).
- (5) Buckwheat (*Fagopyrum esculentum*).
- (6) Canarygrass (*Phalaris canariensis*).
- (7) Clover, Alsike (*Trifolium hybridum*).
- (8) Fescue, Chewings (*Festuca rubra*, var *commutata*).
- (9) Fescue, Meadow (*Festuca elatior*).
- (10) Lespedeza, Korean (*Lespedeza stipulacea*).
- (11) Lespedeza, Striate (*Lespedeza striata*).
- (12) Lovegrass, Sand (*Eragrostis trichodes*).
- (13) Lovegrass, Weeping (*Eragrostis curvula*).
- (14) Millet, Browntop (*Panicum ramosum*).
- (15) Millet, Foxtail (*Setaria italica*).
- (16) Millet, Japanese (*Echinochloa crusgalli*).
- (17) Millet, Proso (*Panicum miliaceum*).
- (18) Rape (*Brassica* spp.).
 - (a) Annual (*B. napus*, var *annua*).
 - (b) Turnip, Annual or Bird (*B. campestris*).
 - (c) Turnip, Biennial (*B. campestris*, var *autumnalis*).
- (19) Redtop (*Agrostis alba*).
- (20) Sweetclover, White (*Melilotus alba*).

- (21) Sweetclover, Yellow (*Melilotus officinalis*).
- (22) Vetch, Common (*Vicia sativa*).
- (23) Vetch, Hairy (*Vicia villosa*). (20 Ky.R. 3330; eff. 8-24-94.)

12 KAR 1:165.

Germination standards for vegetable seed.

RELATES TO: KRS 250.021, 250.031, 250.041, 250.051, 250.061, 250.071, 250.081, 250.091, 250.101, 250.111

STATUTORY AUTHORITY: KRS 250.081

NECESSITY, FUNCTION, AND CONFORMITY: KRS 250.081(1)(c)9 requires the director to prescribe administrative regulations governing topics that are necessary to secure the efficient enforcement of KRS 250.021 to 250.111. This administrative regulation establishes germination standards for vegetable seed.

Section 1. Germination standards for vegetable and herb seed listed in this section shall be as follows:

Kind	Percent
Anise	50
Artichoke	60
Asparagus	70
Asparagus Bean	75
Basil, Sweet	70
Bean, Garden	70
Bean, Lima	70
Bean, Runner	75
Beet	65
Broadbean	75
Broccoli	75
Brussel Sprouts	70
Burdock, Great	60
Cabbage	75
Cabbage, Tronchuda	70
Cantaloupe (See Muskmelon)	
Caraway	55
Cardoon	60
Carrot	55
Cauliflower	75
Celeraic	55
Celery	55
Chard, Swiss	65
Chervil, Salad	65
Chicory	65
Chinese Cabbage	75
Chives	50
Citron	65
Collards	80
Coriander	70
Corn, Pop	75
Corn, Sweet	75
Cornsalad	70
Cowpea	75
Cress, Garden	75
Cress, Upland	60
Cress, Water	40
Cucumber	80
Dandelion	60
Dill	60
Eggplant	60
Endive	70
Fennel, Florence	60
Fennel, Sweet	50
Kale	75
Kale, Chinese	75
Kale, Siberian	75
Kohlrabi	75
Leek	60
Lettuce	80
Marjoram, Sweet	50

Kind	Percent
Muskmelon	75
Mustard	75
Mustard, Spinach	75
Okra	50
Onion	70
Onion, Welsh	70
Oregano	60
Pak-Choi	75
Parsley	60
Parsnip	60
Pea	80
Peanut	60
Pepper	55
Pumpkin	75
Radish	75
Rhubarb	60
Roquette	60
Rosemary	30
Rutabaga	75
Sage	60
Salsify	75
Savory, Summer	55
Sorrel	65
Soybean	75
Spinach	60
Spinach, New Zealand	40
Squash	75
Thyme	50
Tomato	75
Tomato, Husk	50
Turnip	80
Watermelon	70

Section 2. The germination standard for all other vegetable and herb seed for which standards have not been established in Section 1 of this administrative regulation shall be fifty (50) percent. (20 Ky.R. 3331; eff. 8-24-94; 40 Ky.R. 106; 774; eff. 10-9-2013.)

12 KAR 1:170.

Germination standards for flower seed.

RELATES TO: KRS 250.081(1)(c)9

STATUTORY AUTHORITY: KRS 250.081

NECESSITY, FUNCTION, AND CONFORMITY: To prescribe standards for flower seed and to list those kinds for which standard testing procedures are prescribed. The information required to be shown on the label is dependent upon whether or not standard testing procedures have been prescribed and whether or not a lot being labeled falls above or below the standard.

Section 1. Flower Seed Standards.

- (1) The kinds of flower seed listed below are those for which standard testing procedures have been prescribed. Common names are listed first, followed by Latin names. The percentage listed opposite each kind is the germination standard for that kind. For the kinds marked with an asterisk, the percentage is the total of percentage germination and percentage hard seed. For other kinds, it is the percentage germination.

Kind	Germination %
Archillea (The Pearl) - <i>Achillea ptarmica</i>	50
African daisy - <i>Dimorphotheca aurantiaca</i>	55
African violet - <i>Saintpaulia</i> spp.	30
Ageratum - <i>Ageratum mexicanum</i>	60
Agrostemma (rose campion) - <i>Agrostemma coronaria</i>	65
Alyssum - <i>Alyssum compactum</i> , <i>A. maritimum</i> , <i>A. procumbens</i> , and <i>A. saxatile</i>	60
Amaranthus - <i>Amaranthus</i> spp.	65
Anagalis (Primpernel) - <i>Anagalis arvensis</i> , <i>A. coerulea</i> , and <i>A. grandiflora</i>	60
Anemone - <i>Anemone coronaria</i> , and <i>A. pulsatilla</i>	55
Angel's trumpet - <i>Datura arborea</i>	60
Arabis - <i>Arabis alpina</i>	60
Arctotis (African lilac daisy) - <i>Arctotis grandis</i>	45
Armeria - <i>Armeria formosa</i>	55
Asparagus, Fern - <i>Asparagus plumosus</i>	50

Kind	Germination %
Asparagus, Sprenger - <i>Asparagus sprengeri</i>	55
Aster, China - <i>Callistephus chinensis</i> ; except Pompon, Powderpuff, and Princess types	55
Aster, China - <i>Callistephus chinensis</i> ; Pompon, Powderpuff, and Princess types	50
Aubretia - <i>Aubretia deltoides</i>	45
Baby Smilax - <i>Aparagus asparagoides</i>	25
Balsam - <i>Impatiens balsamina</i>	70
Begonia - (<i>Begonia fibrous rooted</i>)	60
Begonia - (<i>Begonia tuberous rooted</i>)	50
Bells of Ireland - <i>Molucella laevis</i>	60
Brachycome (Swan River daisy) - <i>Brachycome iberidifolia</i>	60
Browallia - <i>Browallia elata</i> and <i>B. speciosa</i>	65
Bupthalam (Sunwheel) - <i>Bupthalam salicifolium</i>	60
Calceolaria - <i>Calceolaria spp.</i>	60
Calendula - <i>Calendula officinalis</i>	65
California poppy - <i>Eschscholtzia californica</i>	60
Calliopsis - <i>Coreopsis bicolor</i> , <i>C. drummondii</i> , and <i>C. elegans</i>	65
Campulana:	
Canterbury bells - <i>Campanula medium</i>	60
Cup and saucer bellflower - <i>Campanula medium calycanthema</i>	60
Carpathian bellflower - <i>Campanula carpatica</i>	50
Peach bellflower - <i>Campanula persicifolia</i>	50
Candytuft, Annual - <i>Iberis amara</i> , and <i>I. umbellata</i>	65
Candytuft, Perennial - <i>Iberis gibraltarica</i> , and <i>I. sempervirens</i>	55
*Castor bean - <i>Ricinus communis</i>	60
Cathedral bells - <i>Cobaea scandens</i>	65
Celosia - <i>Celosia argentea</i>	65
Centaurea: Basket flower - <i>Centaurea americana</i> , Cornflower - <i>C. cyanus</i> , Dusty miller - <i>C. candidissima</i> , Royal Centaurea - <i>C. imperialis</i> , Sweet sultan - <i>C. moschata</i> , and Velvet Centaurea - <i>C. gymnocarpa</i>	60
Cerastium (Snow-in-summer) - <i>Cerastium biebersteini</i> and <i>C. tomentosum</i>	65
Chinese forget-me-not - <i>Cynoglossum amabile</i>	55
Chrysanthemum, Annual - <i>Chrysanthmum carinatum</i> , <i>C. coronarium</i> , and <i>C. segetum</i>	40
Cineraria - <i>Senecio cruentus</i>	60
Clarkia - <i>Clarkia elegans</i>	65
Cleome - <i>Cleome gigantea</i>	65
Coleus - <i>Coleus blumei</i>	65
Columbine - <i>Aquilegia spp.</i>	50
Coral bells - <i>Heuchera sanguinea</i>	55
Coreopsis, Perennial - <i>Coreopsis lanceolata</i>	40
Corn, Ornamental - <i>Zea mays</i>	75
Cosmos:	
Sensation, Mammoth, and Crested types - <i>Cosmos bipinnatus</i> ; and Klondyke type - <i>C. sulphureau</i>	65
Crossandra - <i>Crossandra infundibuliformis</i>	50
Dahlia - <i>Dahlia spp.</i>	55
Daylily - <i>Heimerocallis spp.</i>	45
Delphinium, Perennial: Belladonna and Bellamosum types; Cardinal larkspur - <i>Delphinium cardinale</i> ; Chinensis types; and Pacific giant, Gold medal, and other hybrids of <i>D. elatum</i>	55
Dianthus:	
Carnation - <i>Dianthus caryophyllus</i>	60
China pinks - <i>Dianthus chinensis</i> , <i>D. heddewigi</i> , and <i>D. heddensis</i>	70
Grass pinks - <i>Dianthus plumarius</i>	60
Maiden pinks - <i>Dianthus deltoides</i>	60
Sweet William - <i>Dianthus barbatus</i>	70
Sweet Wivelsfield - <i>Dianthus allwoodii</i>	60
Didiscus (Blue lace flower) - <i>Didiscus coerulea</i>	65
Doronicum (Leopard's bane) - <i>Doronicum caucasicum</i>	60
Dracaena - <i>Dracaena indivisa</i>	55
Dragon tree - <i>Dracaena draco</i>	40
English daisy - <i>Bellis perennis</i>	55
Flax:	
Golden flax - <i>Linum flavum</i> , Flowering flax - <i>L. grandiflorum</i> , and Perennial flax - <i>L. perenne</i>	60
Flowering maple - <i>Abutilon spp.</i>	35
Foxglove - <i>Digitalis spp.</i>	60
Gaillardia, Annual - <i>Gaillardia pulchella</i> and <i>G. picta</i>	45
Gaillardia, Perennial - <i>G. grandiflora</i>	45
Gerbera (transvaal daisy) - <i>Gerbera Jamesoni</i>	60

Kind	Germination %
Geum - Geum spp.	55
Gilia - Gilia spp.	65
Glosiosa daisy (rudbeckia) - Echinacea purpurea and Rudbeckia hirta	60
Gloxinia - Sinningia speciosa	40
Godetia - Godetia amoena and G. grandiflora	65
Gourds:	
Yellow flowered - Cucurbita pepo, White flowered - Lagenaria siceraria, and Dishcloth - Luffa cylindrica	70
Gypsophilia:	
Annual baby's breath - Gypsophila elegans; and Perennial baby's breath - G. paniculata, G. pacifica, and G. repens	70
Helenium - Helenium autumnale	40
Helichrysum - Helichrysum monstrosum	60
Heliopsis - Heliopsis scabra	55
Heliotrope - Heliotropium spp.	35
Helipterum (Acroclinium) - Helipterum roseum	60
Hesperis (Sweet rocket) - Hesperis matronalis	65
*Hollyhock - Althea rosea	65
Hunnemania (Mexican tulip poppy) - Hunnemania fumariaefolia	60
*Hyacinth bean - Dolichos lablab	70
Impatiens - Impatiens holstii and I. sultani	55
*Ipomea:	
Cypress vine - Ipomea quamoclit; Moonflower - I. Noctiflora; and Morning glories, Cardinal climber, Hearts and Honey vine - Ipomea spp.	75
Jurusulem cross (Maltese cross) - Lychnis chalcidonica	70
Job's tears - Coix lacrymajobi	70
Kochia - Kochia childsii	55
Larkspur, Annual - Delphinium ajacis	60
Lantana - Lantana camara, L. hybrida	35
Lilium (Regal lily) - Lilium regale	50
Linaria - Linaria spp.	65
Lobelia, Annual - Lobelia erinus	65
Lunaria, Annual-Lunaria annua	65
*Lupine - Lupinus spp.	65
Marigold - Tagetes spp.	65
Marvel of Peru - Mirabilis jalapa	60
Matricaria (Feverfew) - Matricaria spp.	60
Mignonette - Reseda odorata	55
Myosotis - Myosotis alpestris, M. oblongata, and M. palustris	50
Nasturtium - Tropaeolum spp.	60
Nemesia - Nemesia spp.	65
Nemophila - Nemophila insignis	70
Nemophila, Spotted - Nemophila maculata	60
Nicotiana - Nicotiana affinis, N. sanderae, and N. sylvestris	65
Nierembergia - Nirembergia spp.	55
Nigella - Nigella damascena	55
Pansy - Viola tricolor	60
Penstemon - Penstemon barbatus, P. grandiflorus, P. laevigatus, and P. pubescens	60
Petunia - Petunia spp.	45
Phacelia - Phacelia campanularia, P. minor, and P. tanacetifolia	65
Phlox, Annual - Phlox drummondii (all types and varieties)	55
Physalis - Physalis spp.	60
Platycodon (Balloon flower) - Platycodon grandiflorum	60
Plumbago, Cape - Plumbago capensis	50
Ponytail - Beaucarnea recurvata	40
Poppy:	
Shirley poppy - Papaver rhoeas, Iceland poppy - Papaver nudicaule, Oriental poppy - P. orientale, and Tulip poppy - P. glaucum	60
Portulaca - Portulaca grandiflora	55
Primula (primrose) - Primula spp.	50
Pyrethrum (painted daisy) - Pyrethrum coccineum	60
Salpiglossis - Salpiglossis gloxinaeflora and S. sinuata	60
Salvia:	
Scarlet sage - Salvia splendens, and Mealycup sage (Blue bedder) - Salvia farinacea	50
Saponaria - Saponaria ocymoides and S. vaccaria	60
Scabiosa, Annual - Scaboisa atropurpurea	50
Scabiosa, Perennial - Scaboisa caucasica	40
Schizanthus - Schizanthus spp.	60

Kind	Germination %
*Sensitive plant (mimosa) - <i>Mimosa pudica</i>	65
Shasta daisy - <i>Chrysanthemum maximum</i> and <i>C. leucanthemum</i>	65
Silk oak - <i>Grevillea robusta</i>	25
Snapdragon - <i>Antirrhinum</i> spp.	55
Solanum - <i>Solanum</i> spp.	60
Statice - <i>Statice sinuata</i> and <i>S. suworonii</i> (flower heads)	50
Stocks:	
Common - <i>Mathiola incana</i> and Evening scented - <i>Mathiola bicornis</i>	65
Sunflower - <i>Helianthus</i> spp.	70
Sunrose - <i>Helianthemum</i> spp.	30
*Sweet pea, Annual and Perennial other than dwarf bush - <i>Lathyrus odoratus</i> and <i>L. latifolius</i>	75
*Sweet pea, Dwarf bush - <i>Lathyrus odoratus</i>	65
Tahoka daisy - <i>Machaeanthera tanacetifolia</i>	60
Thunbergia - <i>Thunbergia alata</i>	60
Torch flower - <i>Tithonia speciosa</i>	70
Torenia (Wishbone flower) - <i>Torenia fournieri</i>	70
Tritoma - <i>Kniphofia</i> spp.	65
Verbena, Annual - <i>Verbena hybrida</i>	35
Vinca - <i>Vinca rosea</i>	60
Viola - <i>Viola cornuta</i>	55
Virginian stocks - <i>Malcolmia maritima</i>	65
Wallflower - <i>Cheiranthus allioni</i>	65
Yucca (Adam's needle) - <i>Yucca filamentosa</i>	50
Zinna (except Linearis and Creeping) <i>Zinnia angustifolia</i> , <i>Z. elegans</i> , <i>Z. grandiflora</i> , <i>Z. gracillima</i> , <i>Z. haegeana</i> , <i>Z. multiflora</i> , and <i>Z. pumila</i>	65
<i>Zinnia</i> , Linearis and Creeping - <i>Zinnia linearis</i> and <i>Sanvitaila procumbens</i>	50
All other kinds	50

- (2) A mixture of kinds of flower seed will be considered to be below the standard if the germination of any kind or combination of kinds constituting twenty-five (25) percent or more of the mixture by number is below standard for the kind or kinds involved. (20 Ky.R. 3332; eff. 8-24-94)

12 KAR 1:175.

Seed certification in Kentucky.

RELATES TO: KRS 250.081(1)(c)1

STATUTORY AUTHORITY: KRS 250.081

NECESSITY, FUNCTION, AND CONFORMITY: To prescribe the procedure for certifying seed for varietal purity in Kentucky. Certification assures genetic identity and purity of superior plant varieties.

Section 1. Certification Procedure.

- (1) The procedures and standards established in the Kentucky Certified Seed Handbook shall be applied to all seed certified in Kentucky.
- (2) Incorporation by reference.
 - (a) "Kentucky Seed Certification Standards," Kentucky Seed Improvement Association, P. O. Box 12008, Lexington, Kentucky, June 18, 1994, is incorporated by reference.
 - (b) This document may be inspected, copied, or obtained at the Division of Regulatory Services, 101 Regulatory Services Building, University of Kentucky, Lexington, Kentucky 40546-0275, Monday through Friday, 8 a.m. to 4:30 p.m. (20 Ky.R. 3334; eff. 8-24-94.)

Information and questions concerning the
Kentucky seed law regulations should be addressed to:

Division of Regulatory Services
Director, Seed Regulatory Program
103 Regulatory Services Building
Lexington, KY 40546-0245
859-257-2785