

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: KRS 250.081(1)(c)9 requires the director to secure the efficient enforcement of the provisions of KRS 250.021 through 250.111. This administrative regulation establishes standards for flower seed and to list those kinds for which standard testing procedures are established.

Section 1. Flower Seed Standards.

(1) The kinds of flower seed listed in the table established in this subsection shall be those for which standard testing procedures have been established. 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
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 - (Begonia fibrous rooted)	60
Begonia - (Begonia tuberous rooted)	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</i> spp.	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 calycanthemum</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>Chrysanthemum 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</i> spp.	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. sulphureus</i>	65
Crossandra - <i>Crossandra infundibuliformis</i>	50
Dahlia - <i>Dahlia</i> spp.	55
Daylily - <i>Hemerocallis</i> spp.	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 allwoodi</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</i> spp.	35
Foxglove - <i>Digitalis</i> spp.	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
Geum - <i>Geum</i> spp.	55
Gilia - <i>Gilia</i> spp.	65
Glosiosa daisy (rudbeckia) - <i>Echinacea purpurea</i> and <i>Rudbeckia hirta</i>	60
Gloxinia - <i>Sinningia speciosa</i>	40
Godetia - <i>Godetia amoena</i> and <i>G. grandiflora</i>	65
Gourds:	
Yellow flowered - <i>Cucurbita pepo</i> , White flowered - <i>Lagenaria sisceraria</i> , and Dishcloth - <i>Luffa cylindrica</i>	70
Gypsophilia:	
Annual baby's breath - <i>Gypsophila elegans</i> ; and Perennial baby's breath - <i>G. paniculata</i> , <i>G. pacifica</i> , and <i>G. repens</i>	70
Helenium - <i>Helenium autumnale</i>	40
Helichrysum - <i>Helichrysum monstrosum</i>	60
Heliopsis - <i>Heliopsis scabra</i>	55
Heliotrope - <i>Heliotropium</i> spp.	35
Helipterum (Acroclinium) - <i>Helipterum roseum</i>	60
Hesperis (Sweet rocket) - <i>Hesperis matronalis</i>	65
*Hollyhock - <i>Althea rosea</i>	65
Hunnemania (Mexican tulip poppy) - <i>Hunnemania fumariaefolia</i>	60
*Hyacinth bean - <i>Dolichos lablab</i>	70
Impatiens - <i>Impatiens holstii</i> and <i>I. sultani</i>	55
*Ipomea:	

Cypress vine - <i>Ipomea quamoclit</i> ; Moonflower - <i>I. Noctiflora</i> ; and Morning glories, Cardinal climber, Hearts and Honey vine - <i>Ipomea</i> spp.	75
Jerusalem-cross (Maltese cross) - <i>Lychnis chalconica</i>	70
Job's tears - <i>Coix lacrymajobi</i>	70
Kochia - <i>Kochia childsi</i>	55
Larkspur, Annual - <i>Delphinium ajacis</i>	60
Lantana - <i>Lantana camara</i> , <i>L. hybrida</i>	35
Lilium (Regal lily) - <i>Lilium regale</i>	50
Linaria - <i>Linaria</i> spp.	65
Lobelia, Annual - <i>Lobelia erinus</i>	65
Lunaria, Annual - <i>Lunaria annua</i>	65
*Lupine - <i>Lupinus</i> spp.	65
Marigold - <i>Tagetes</i> spp.	65
Marvel of Peru - <i>Mirabilis jalapa</i>	60
Matricaria (Feverfew) - <i>Matricaria</i> spp.	60
Mignonette - <i>Reseda odorata</i>	55
Myosotis - <i>Myosotis alpestris</i> , <i>M. oblongata</i> , and <i>M. palustris</i>	50
Nasturtium - <i>Tropaeolum</i> spp.	60
Nemesia - <i>Nemesia</i> spp.	65
Nemophila - <i>Nemophila insignis</i>	70
Nemophila, Spotted - <i>Nemophila maculata</i>	60
Nicotiana - <i>Nicotiana affinis</i> , <i>N. sanderae</i> , and <i>N. sylvestris</i>	65
Nierembergia - <i>Nierembergia</i> spp.	55
Nigella - <i>Nigella damascena</i>	55
Pansy - <i>Viola tricolor</i>	60
Penstemon - <i>Penstemon barbatus</i> , <i>P. grandiflorus</i> , <i>P. laevigatus</i> , and <i>P. pubescens</i>	60
Petunia - <i>Petunia</i> spp.	45
Phacelia - <i>Phacelia campanularia</i> , <i>P. minor</i> , and <i>P. tanacetifolia</i>	65
Phlox, Annual - <i>Phlox drummondii</i> (all types and varieties)	55
Physalis - <i>Physalis</i> spp.	60
Platycodon (Balloon flower) - <i>Platycodon grandiflorum</i>	60
Plumbago, Cape - <i>Plumbago capensis</i>	50
Ponytail - <i>Beaucarnea recurvata</i>	40
Poppy:	
Shirley poppy - <i>Papaver rhoeas</i> , Iceland poppy - <i>Papaver nudicaule</i> , Oriental poppy - <i>P. orientale</i> , and Tulip poppy - <i>P. glaucum</i>	60
Portulaca - <i>Portulaca grandiflora</i>	55
Primula (primrose) - <i>Primula</i> spp.	50
Pyrethrum (painted daisy) - <i>Pyrethrum coccineum</i>	60
Salpiglossis - <i>Salpiglossis gloxinaeflora</i> and <i>S. sinuata</i>	60

Salvia:	
Scarlet sage - <i>Salvia splendens</i> , and Mealycup sage (Blue bedder) - <i>Salvia farinacea</i>	50
Saponaria - <i>Saponaria ocymoides</i> and <i>S. vaccaria</i>	60
Scabiosa, Annual - <i>Scabiosa atropurpurea</i>	50
Scabiosa, Perennial - <i>Scabiosa caucasica</i>	40
Schizanthus - <i>Schizanthus</i> spp.	60
*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 <i>Linearis</i> and <i>Creeping</i>) <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 linearis</i> and <i>Creeping</i> - <i>Zinnia linearis</i> and <i>Sanvitalia procumbens</i>	50
All other kinds	50

(2) A mixture of kinds of flower seed shall 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. 8-24-1994; 47 Ky.R. 103, 702; eff. 11-18-2020.)