

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</i>	55

chinensis; except Pompon, Powderpuff, and Princess types	
Aster, China - Callistephus chinensis; Pompon, Powderpuff, and Princess types	50
Aubretia - Aubretia deltoides	45
Baby Smilax - Aparagus asparagoides	25
Balsam - Impatiens balsamina	70
Begonia - (Begonia fibrous rooted)	60
Begonia - (Begonia tuberous rooted)	50
Bells of Ireland - Molucella laevis	60
Brachycome (Swan River daisy) - Brachycome iberidifolia	60
Browallia - Browallia elata and B. speciosa	65
Bupthalum (Sunwheel) - Bupthalum salicifolium	60
Calceolaria - Calceolaria spp.	60
Calendula - Calendula officinalis	65
California poppy - Eschscholtzia californica	60
Calliopsis - Coreopsis bicolor, C. drummondii, and C. elegans	65
Campulana:	
Canterbury bells - Campanula medium	60
Cup and saucer bellflower - Campanula medium calycanthema	60
Carpathian bellflower - Campanula carpatica	50
Peach bellflower - Campanula persicifolia	50
Candytuft, Annual - Iberis amara, and I. umbellata	65
Candytuft, Perennial - Iberis gibraltarica, and I. sempervirens	55
*Castor bean - Ricinus communis	60
Cathedral bells - Cobaea scandens	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. heddeiwigi</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</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 siceraria</i> , and Dishcloth - <i>Luffa cylindrica</i>	70
Gypsophila:	
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 autumn-</i>	40

nale	
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 fumaricaefolia	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
Jerusalem-cross (Maltese cross) - Lychnis chalcedonica	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 - Lobellia 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 - Nierembergia 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 ocyroides and S. vaccaria	60

Scabiosa, Annual - Scaboisa atropurpurea	50
Scabiosa, Perennial - Scaboisa caucasica	40
Schizanthus - Schizanthus spp.	60
*Sensitive plant (mimosa) - Mimosa pudica	65
Shasta daisy - Chrysanthemum maximum and C. leucanthemum	65
Silk oak - Grevillea robusta	25
Snapdragon - Antirrhinum spp.	55
Solanum - Solanum spp.	60
Statice - Statice sinuata and S. suworonii (flower heads)	50
Stocks:	
Common - Mathiola incana and Evening scented - Mathiola bicornis	65
Sunflower - Helianthus spp.	70
Sunrose - Helianthemum spp.	30
*Sweet pea, Annual and Perennial other than dwarf bush - Lathyrus odoratus and L. latifolius	75
*Sweet pea, Dwarf bush - Lathyrus odoratus	65
Tahoka daisy - Machaeanthera tanacetifolia	60
Thunbergia - Thunbergia alata	60
Torch flower - Tithonia speciosa	70
Torenia (Wishbone flower) - Torenia fournieri	70
Tritoma - Kniphofia spp.	65
Verbena, Annual - Verbena hybrida	35
Vinca - Vinca rosea	60
Viola - Viola cornuta	55
Virginian stocks - Malcolmia maritima	65
Wallflower - Cheiranthus al-lioni	65
Yucca (Adam's needle) - Yucca filamentosa	50
Zinna (except Linearis and Creeping) Zinnia angustifolia,	65

Z. elegans, Z. grandiflora, Z. gracillima, Z. haegeana, Z. multiflora, and Z. pumila	
Zinnia, Linearis and Creeping - Zinnia linearis and Sanvitaila procumbens	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.)