

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
Asparagus, Sprenger - <i>Asparagus sprengeri</i>	55
Aster, China - <i>Callistephus chinensis</i> ; except Pompon, Powderpuff, and Princess types	55
Aster, China - <i>Callistephus</i>	50

chinensis; Pompon, Powderpuff, and Princess types	
Aubretia - <i>Aubretia deltoides</i>	45
Baby Smilax - <i>Aparagus asparagoides</i>	25
Balsam - <i>Impatiens balsamina</i>	70
Begonia - (<i>Begonia</i> fibrous rooted)	60
Begonia - (<i>Begonia</i> 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 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 gibraltaria</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 Cantau-	60

rea - <i>C. gymnocarpa</i>	
Cerastium (Snow-in-summer) - Cerastium biebersteini and <i>C.</i> tomentosum	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>Hemerocallis spp.</i>	45
Delphinium, Perennial: <i>Belladonna</i> and <i>Bellamosum</i> types; Cardinal larkspur - <i>Delphinium cardinale</i> ; <i>Chinensis</i> 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. heddeewigi</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) - Didiscus coerulea	65
Doronicum (Leopard's bane) - Doronicum caucasicum	60
Dracaena - Dracaena indivisa	55
Dragon tree - Dracaena draco	40
English daisy - Bellis perennis	55
Flax:	
Golden flax - Linum flavum, Flowering flax - L. grandiflorum, and Perennial flax - L. perenne	60
Flowering maple - Abutilon spp.	35
Foxglove - Digitalis spp.	60
Gaillardia, Annual - Gaillardia pulchella and G. picta	45
Gaillardia, Perennial - G. grandiflora	45
Gerbera (transvaal daisy) - Gerbera Jamesoni	60
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) - <i>Hunnemania fumaricaefolia</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
Jurusulem cross (Maltese cross) - <i>Lychnis chalconica</i>	70
Job's tears - <i>Coix lacrymajobi</i>	70
Kochia - <i>Kochia childsii</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 - Phlox drum- mondi (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 - Pa- paver nudicaule, Oriental poppy - P. orientale, and Tulip poppy - P. glaucum	60
Portulace - Portulaca grandiflora	55
Primula (primrose) - Primula spp.	50
Pyrethrum (painted daisy) - Py- rethrum coccineum	60
Salpiglossis - Salpiglossis glox- inaeflora and S. sinuata	60
Salvia:	
Scarlet sage - Salvia splen- dens, and Mealycup sage (Blue bedder) - Salvia farina- cea	50
Saponaria - Saponaria ocy- moides and S. vaccaria	60
Scabiosa, Annual - Scaboisa atropurpurea	50
Scabiosa, Perennial - Scaboisa caucasica	40
Schizanthus - Schizanthus spp.	60
*Sensitive plant (mimosa) - Mi- mosa 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 bi- cornis	65
Sunflower - Helianthus spp.	70
Sunrose - Helianthemum 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
Zinnia, <i>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 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.)