

901:5-27-04

Vegetable and herb seed germination standards.

The minimum germination standards for vegetable and herb seeds offered for sale in the state of Ohio are:

Anise	50
Artichoke	60
Asparagus	70
Basil, sweet	70
Beans, garden	70
Beans, lima	70
Beans, asparagus	75
Beans, runner	75
Beets	65
Broccoli	75
Brussels sprouts	70
Cabbage	75
Cabbage, Chinese	75
Caraway	55
Cardoon	60
Carrot	55
Cauliflower	75
Celery and celeriac	55
Chard, Swiss	65
Chervil, salad	65
Chickory	65
Chives	50

Citron	65
Collards	80
Coriander	70
Corn, sweet	75
Cornsalad	70
Cowpea	75
Cress, garden	75
Cress, water	40
Cucumber	80
Dandelion	60
Dill	60
Eggplant	60
Endive	70
Fennel, florence	60
Fennel, sweet	50
Kale	75
Kohlrabi	75
Leek	60
Lettuce	80
Marjoram, sweet	50
Muskmelon	75
Mustard	75
Okra (including hard seeds)	50
Onion	70

Oregano	60
Pak-choi	75
Parsley	60
Parsnip	60
Peas	80
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 (except N. Zealand)	60
Spinach, New-Zealand	40
Squash	75
Thyme	50
Tomato	75
Tomato, husk	50
Turnip	80

Watermelon 70

The germination standards for all vegetable and herb seed not identified in this rule shall be fifty per cent.

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901:5-27-08

Flower seed minimum germination standards.

The minimum germination standards for seeds offered for sale in Ohio are:

Kind of flower seed	minimum per cent germination
Archillea (the Pearl) - Achillea ptarmica	50
African Daisy - Dimorphotheca aurantiaca	55
African Violet - Saintpaulia spp	30
Ageratum - Ageratum mexicanum	60
Agrostemma (rose campion) - Agrostemma coronaria	65
Alyssum - Alyssum compactum, A. maritimum, A. procumbens A. saxatile	60
Amaranthus - Amaranthus spp	65
Anagalis (primpernel) - A. arvensis, A. coerulea, A. grandiflora	60
Anemone - Anemone coronaria, A. pulsatilla	55
Angel's Trumpet - Datura arborea	60
Arabis - Arabis alpina	60
Arctotis (African lilac daisy) - Arctotis grandis	45
Armeria - Armeria formosa	55
Asparagus, fern - Asparagus plumosus	50
Asparagus, sprenger, Asparagus sprengeri	55
Aster, China - Callistephus chinensis; except Pompon, Powderpuff, & Princess types	55
Aster, China - Callistephus chinensis; Pompon, Powderpuff, & Princess types	50
Aubretia - Aubretia deltoides	45
Baby Smilax - Aparagus asparagoides	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. drummondi</i> , <i>C. elegans</i>	65
Campanula: Canterbury Bells - <i>Campanula medium</i>	60
Campanula: Cup and Saucer Bellflower - <i>Campanula medium calycanthema</i>	60
Campanula: Carpathian Bellflower - <i>Campanula carpatica</i>	50
Campanula: Peach Bellflower - <i>Campanula persicifolia</i>	50
Candytuft, annual - <i>Iberis amara</i> , <i>I. umbellata</i>	65
Candytuft, perennial - <i>Iberis gibraltarica</i> , <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>C. americana</i> ; Cornflower - <i>C. cyanus</i> ;	60

Centaurea: Dusty Miller - <i>C. candidissima</i> , Royal Centaurea - <i>C. imperialis</i> ; Sweet Sultan - <i>C. moschata</i> ; Velvet Centaurea - <i>C. gymnocarpa</i>	60
Cerasium (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> , <i>C. Cineraria</i> - <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> ; Klondyke type - <i>C. Sulphureau</i>	65
Crossandra - (<i>Crossandra infundibuliformis</i>)	50
Dahlia - <i>Dahlia</i> spp	55
Daylily - <i>Hemerocallis</i> spp	45
Delphinium, Perennial- <i>Belladonna</i> and <i>Bellamosum</i> types; Cardinal Larkspur - <i>Delphinium cardinale</i> ; <i>Chinensis</i> types; Pacific Giant, Gold Medal & other hybrids of <i>D. elatum</i> .	55
Dianthus: Carnation - <i>D. caryophyllus</i>	60
Dianthus: China Pinks - <i>D. chinensis</i> , <i>heddewigi</i> , <i>heddensis</i>	70
Dianthus: Grass Pinks - <i>D. plumarius</i>	60
Dianthus: Maiden Pinks - <i>D. deltoides</i>	60

Dianthus: Sweet William - <i>D. barbatus</i>	70
Dianthus: Sweet Wivelsfield - <i>D. 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. randiflorum</i> ; 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> ; <i>G. picta</i> ; 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> , <i>G. grandiflora</i>	65
Gourds: Yellow Flowered - <i>Cucurbita pepo</i> ; White Flowered - <i>Lagenaria sisceraria</i> ; Dishcloth - <i>Luffa cylindrica</i>	70
Gypsophila: annual Baby's Breath - <i>G. elegans</i> ; Perennial Baby's Breath - <i>G. paniculata</i> , <i>G. pacifica</i> <i>G. repens</i>	70
Helenium - <i>Helenium autumnale</i>	40
Helichrysum - <i>Helichrysum monstrosum</i>	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
Hyacinh bean - Dolichos lablab	70
Impatiens - Impatiens hostii, I. sultani	55
*Ipomea - Cypress Vine - I. quamoclit; Moonflower - I. noctiflora; 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 - 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 - <i>Reseda odorata</i>	55
Myosotis - <i>Myosotis alpestris</i> , <i>M. oblongata</i> , <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> , <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> , <i>P. pubescens</i>	60
Petunia - <i>Petunia</i> spp	45
Phacelia - <i>Phacelia campanularia</i> , <i>P. minor</i> , <i>P. tanacetifolia</i>	65
Phox, 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>P. nudicaule</i> ; Oriental Poppy - <i>P. orientale</i> ; Tulip Poppy - <i>P. glaucum</i>	60
Portulace - <i>Portulaca grandiflora</i>	55
Primula (primrose) - <i>Primula</i> spp	50
Pyrethrum (painted daisy) - <i>Pyrethrum coccineum</i>	60

Salpiglossis - Salpiglossis gloxinaeflora, S. sinuata	60
Salvia - Scarlet Sage - Salvia splendens; Mealycup Sage (blue bedder) - S. farinacea	50
Saponaria - Saponaria ocymoides, S. vaccaria	60
Scabiosa, annual - Scabiosa atropurpurea	50
Scabiosa, perennial - Scabiosa caucasica	40
Schizanthus - Schizanthus spp	60
*Sensitive pant (mimosa) - Mimosa pudica	65
Shasta Daisy - Chrysanthemum maximum C. leucanthemum	65
Silk Oak - Grevillea robusta	25
Snapdragon - Antirrhinum spp	55
Solanum - Solanum spp	60
Statice - Statice sinuata, S. suworonii (flower heads)	50
Stocks: Common - Mathiola incana; Evening Scented - Mathiola bicornis	65
Sunflower - Helianthus spp	70
Sunrose - Helianthemum spp	30
*Sweet Pea, Annual and Perennial (other than dwarf bush - Lathyrus odoratus), L.latifolius	75
*Sweet Pea, dwarf bush - Lathyrus odoratus	65
Tahoka daisy - Machaeanthera tanacetifolia	60
Thunbergia - Thunbergia alata	60
Torn Flower - Tithonia speciosa	70
Torenia (wishbone flower) - Torenia fournieri	70
Tritoma Kniphofia 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> , <i>Z. pumila</i>	65
Zinnia, Linearis and Creeping - <i>Zinnia linearis</i> , <i>Sanvitalia procumbens</i>	50

The germination standard for all other flower seed shall be fifty per cent.

* means that the minimum percentage for these species includes both the germination per cent and the hard seed per cent added together.

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