

Kind	Species	Seeds/oz	Germination			Days to transplant	Weeks to			
			Days	Temp °F	Lighting		Green Packs	Flower Packs	4 inch pots	6-10 inch
Achillea	<i>A. millefolium</i>	140,000	10-15	65-70	L	18-24	10-12	-	-	-
Ageratum	<i>A. houstonianum</i>	200,000	8-10	75-78	L	12-20	8-9	10-11	12-13	-
Alternanthera	<i>A. dentata</i>	18,000	4	72	C	-	-	-	-	-
Alyssum	<i>Lobularia maritima</i>	90,000	8-10	78-82	L	-	7-8	8-9	10-11	12-14
Alyssum, perennial	<i>Aurinia saxatilis, A. montanum</i>	85,000	3-8	68-72	L	10-14	10-12	-	-	-
Aquilegia	<i>A. hybrida</i>	18,000	10-20	70-75	L	30-40	15-18	-	22-24	-
Arabis	<i>A. alapina, A. beparophylla</i>	70,000	6-12	65-70	L	14-21	-	-	12-15	-
Armeria	<i>A. maritima</i>	18,000	4-10	68-70	L/C	15-22	14-17	-	-	-
Asclepias	<i>A. tuberosa</i>	3500	21-28	70-75	L/C	35-55	11-13	-	13-15	-
Asparagus Fern	<i>A. - species -</i>	600	21-42	85d-75n	C	-	-	-	22-27	28-33
Aster	<i>A. alpinus</i>	24,000	14-21	65-70	L	21-30	15-19	-	-	-
Aster	<i>Callistephus chinensis</i>	12,000	8-10	70	-	15-20	8-10	N/R	15-16	N/R
Bachelor Buttons	<i>Centaurea cyanus</i>	6500	3-8	65-70	C Lt	12-18	8-9	10-12	12-13	N/R
Balsam	<i>Impatiens balsamina</i>	3300	8-10	70	C Lt	15-20	9-10	10-11	13-14	15-16
Begonia, Anglewing	<i>B. x hybrida</i>	25,000	14-25	70-72	L	35-45	N/R	N/R	16-18	18-21
Begonia, Wax	<i>B. semperflorens</i>	2,000,000	14-21	78-80	L	45-50	14-15	15-16	17-19	19-20
Begonia, Tuberous	<i>B. tuberhybrida</i>	1,000,000	15-30	70-72	L	45-50	-	19-21	19-22	21-23
Bellis	<i>B. perennis</i>	140,000	7-14	70-75	L	15-22	-	-	14-15	-
Bells of Ireland	<i>Moluccella laevis</i>	4000	12-21	86d-50n	L	21-28	8-9	-	-	-
Bidens	<i>B. ferrulifolia</i>	5000	3-7	72	C Lt	12-20	8-10	N/R	11-13	N/R
Brachycome	<i>B. beridifolia</i>	140,000	4-8	70-72	L	14-21	8-9	10-12	12-14	14-16
Browallia	<i>B. speciosa major</i>	125,000	7-15	75	L	40-45	-	14	15-16	20-22
Calendula	<i>C. officinalis</i>	3500	4-7	75-80	L	14-21	11-12	13-14	14-16	N/R
Campanula	<i>C. carpatica</i>	200,000	7-14	70	C Lt	18-30	11-12	-	15-18	-
Campanula	<i>C. medium</i>	79,000	7-14	70	C Lt	18-30	11-12	-	15-18	-
Canna	<i>C.x generalis</i>	100	8-12	70-75	C	15-21	-	-	-	15-16
Carnation	<i>Dianthus caryophyllus</i>	14,000	5-13	65-70	C Lt	15-20	12-16	N/R	22-25	-
Celosia	<i>C. cristata, C. plumosa</i>	35,000	8-10	75	C	10-15	9-10	10-12	13	N/R
Celosia	<i>C. spicata</i>	39,000	5-10	75	C	18-28	9-10	9-10	12-14	N/R
Centranthus	<i>C. ruber</i>	17,500	14-21	60-65	L/C	18-28	8-10	-	12-14	-
Cerastium	<i>C. tomentosum</i>	80,000	7-14	65-68	L	15-23	11-12	-	-	-
Chrysanthemum	<i>Leucanthemum paludosum</i>	50,000	10-14	60-65	C Lt	11-14	-	10-11	11-12	-
Cineraria	<i>Senecio cruentus</i>	150,000	10-14	70-75	L	18-24	-	-	16-22	26-30
Cleome	<i>C. hasslerana</i>	14,000	8-12	80d-70n	L	21-25	7-9	-	10-11	N/R
Coleus	<i>Solenostemon scutellarioides</i>	100,000	8-10	70-75	L	18-22	9-10	-	12-13	14-16
Coreopsis	<i>C. grandiflorum</i>	10,000	9-12	65-75	L	20-25	11-12	-	-	-
Cosmos	<i>C. bipinnatus</i>	4000	5-7	70	C	11-15	5-6	7-9	9-10	N/R
Dahlberg Daisy	<i>Dyssodia tenuiloba</i>	180,000	3-8	65-70	L	20-26	8-9	10-11	11-12	12-13
Dahlia	<i>D. pinnata</i>	2800	5-10	60-65	C	11-15	10-11	12-13	13-14	-
Delosperma	<i>D. cooperii</i>	21	62	L	-	-	-	-	-	-
Delphinium	<i>D. elatum</i>	10,000	12-18	80d-70n	C	20-28	N/R	-	-	16-20
Dianthus	<i>D. chinensis</i>	25,000	7-10	70-75	C Lt	18-25	10-11	15-16	15-16	-
Dianthus	<i>D. deltooides</i>	48,000	7-10	68-72	C Lt	13-18	10-12	-	-	-
Dianthus	<i>D. barbatus</i>	25,000	7-10	68-72	C Lt	13-18	10-12	-	-	-
Dianthus	<i>D. caryophyllus</i>	14,000	5-13	65-70	C Lt	15-20	10-12	-	-	-
Diascia	<i>D. integerimma</i>	113,000	4-8	72	L	25-35	9-10	10-12	12-14	14-16
Dicentra	<i>D. spectabilis</i>	-	-	-	-	-	-	-	-	-
Dichondra	<i>D. repens</i>	11,000	5-10	70-72	C Lt	15-22	11-12	-	13-14	N/R
Digitalis	<i>D. purpurea</i>	125,000	5-10	70-72	L	15-20	-	-	-	12-14
Dracaena	<i>Cordyline indivisa</i>	10,000	30-40	86d-68n	L	60-95	-	-	40	60
Dusty Miller	<i>Senecio cineraria</i>	60,000	10-15	72-75	L	20-25	11-12	-	14	-
Dusty Miller	<i>Tanacetum ptarmiciflorum</i>	200,000	10-15	72-75	L	20-25	11-12	-	14	-
Echinacea	<i>E. purpurea</i>	8000	10-15	65-70	L/C	20-28	-	-	10-12	-
Flowering Kale /Cab	<i>Brassica oleracea</i>	8000	10-15	68	C	10-15	5-6	-	-	11-13
Four O'Clocks	<i>Mirabilis jalapa</i>	350	4-6	72	C	8-12	8-10	N/R	14-15	N/R
Gaillardia	<i>G. pulchella</i>	17,000	7-12	65-68	L	15-24	10-11	12-14	14-16	N/R
Gaillardia	<i>G. x grandiflora</i>	7000	5-15	70-75	L	30-42	10-12	12-14	16-20	N/R
Gazania	<i>G. splendens</i>	13,000	10-12	70	C	20-25	11-12	12-13	14-15	16-17
Geranium	<i>Pelargonium x hortorum</i>	6000	7-10	70-75	C	10-15	11-12	13-15	13-15	17-18
Geranium, Ivy Leaf	<i>Pelargonium peltatum</i>	6000	5-10	70-75	C	12-18	-	-	-	16-17
Geum	<i>G. quellyon</i>	10,000	8-15	65-70	L	18-28	10-11	-	-	-
Gomphrena	<i>G. glabosa</i>	11,000	10-14	68-72	L/C	20-25	7-8	-	8-10	-
Gypsophila	<i>G. muralis</i>	190,000	3-6	70-72	L/C	15-24	7-8	8-9	10-12	11-13
Gypsophila	<i>G. elegans</i>	11,000	7-10	70-75	L/C	20-26	8-10	-	11-13	-
Gypsophila	<i>G. paniculata</i>	25,000	5-10	70-80	L	15-20	10-12	-	-	-
Heuchera	<i>H. micrantha, H. sanguinea</i>	500,000	21-30	65-70	L	30-45	8-10	-	-	-
Hibiscus	<i>H. moscheutos</i>	2100	7-10	70-80	C	16-22	-	-	10-12	13-15
Hollyhock	<i>Alcea rosea</i>	4000	5-10	70-72	C Lt	15-25	-	-	-	6-8
Hypoestes	<i>H. phyllostachya</i>	18,000	7-10	70-75	C Lt	14-18	10-11	-	11-13	14-15
Iberis	<i>I. umbellata</i>	12,000	7-14	68-72	L/C	16-24	6-7	-	12	-
Kniphofia	<i>K. uvaria, (Tritoma)</i>	9000	21-28	65-75	L	30-45	-	-	16-18	20-22

LEGEND ● LIGHTING: L=Light (leave uncovered) C=Cover C Lt=Cover Lightly L/C=Light or Cover ● Germ temp: 86d-50n=86°day & 50° night

Kind	Species	Seeds/oz	Days	Germination		Days to transplant	Green Packs	Weeks to		
				Temp °F	Lighting			Flower Packs	4 inch pots	6-10 inch
Iberis	<i>I. sempervirens</i>	10,000	14-21	60-65	L	25-38	10-14	-	-	-
Impatiens	<i>I. wallerana</i>	50,000	10-18	75-78	C Lt	15-20	9-10	10-11	13-14	15-16
Impatiens, New Guinea	<i>I. hawkeri</i>	15,000	8-14	78	C Lt	21-40	11-12	N/R	13-15	15-16
Iresine	<i>I. herbstii</i>	45,000	4	65-75	C	20-25	7-8	-	9-11	12-13
Larkspur	<i>Consolida ambigua</i>	8000	10-20	55-65	C	28-35	N/R	N/R	11-12	-
Lavender	<i>Lavandula angustifolia</i>	25,000	14-21	65-75	L	20-32	15-18	-	18-20	-
Liatis	<i>L. spicata</i>	9500	14-21	75d-65n	L	20-25	9-10	-	-	-
Lobelia	<i>L. erinus</i>	1,000,000	14-20	70-80	L	20-25	9-10	11-12	12-13	14-15
Lobelia	<i>L. fulgens</i>		chill 28 21-28	34 70d-50n	L	70	-	-	15	-
Lunaria	<i>L. biennis</i>	1500	3-7	65-75	L/C	16-25	10-12	-	-	-
Lupine	<i>Lupinus polyphyllus</i>	1000	6-12	65-75	C	18-30	10-13	-	-	-
Malva	<i>M. moschata</i>	12,500	3-6	70-72	C	14-21	8-9	-	-	-
Marigold, African	<i>Tagetes erecta</i>	9000	7	72-75	C Lt	10-15	9-10	11-12	12-13	13-15
Marigold, French	<i>Tagetes patula</i>	9000	7	72-75	C Lt	10-15	6-7	8-9	10-11	10-11
Marigold, Signet	<i>Tagetes tenuifolia</i>	9000	7	72-75	C Lt	10-15	7-8	9-11	10-11	13-14
Mimulus	<i>M. x hybridus</i>	624,000	5-7	60-70	L	20-25	-	-	18-24	-
Morning Glory	<i>Ipomoea tricolor, I alba</i>	650	5-7	65-70	C	-	-	-	4-5	7-9
Myosotis	<i>M. sylvatica, M. oblongata</i>	50,000	8-14	68-72	L	15-25	10-2	-	-	-
Nasturtium	<i>Tropaeolum majus</i>	220	10-14	65-70	C	-	7-8	8-9	9-10	10-11
Nicotiana	<i>N. glauca</i>	250,000	10-15	70-75	L	20-25	6-8	9-10	10-11	N/R
Nierembergia	<i>N. caerulea</i>	170,000	6-15	70	C Lt	25-34	6-8	10-11	12-13	14-16
Orn Pepper	<i>Capsicum annuum</i>	9000	7-12	72	C	15-20	8-9	11-14	16-20	-
Osteospermum	<i>O. ecklonis</i>	3700	5-9	70-72	C	12-18	9-11	-	12-15	N/R
Pansy	<i>Viola x wittrockiana</i>	20,000	7-10	65-75	C Lt	15-20	11-12	13-14	15-16	-
Petunia	<i>P. x hybrida</i>	250,000	6-10	75-78	L	15-20	10-11	12-13	14-15	16-17
Petunia, Double	<i>P. x hybrida</i>	250,000	6-10	75-78	L	15-20	11-12	15-16	16-18	16-19
Petunia, Trailing	<i>P. x hybrida</i>	250,000	6-10	75-78	L	15-20	10-12	14-15	15-16	15-18
Phlox	<i>P. drummondii</i>	14,000	10-15	60-65	C	20-25	-	10-11	13-14	-
Phlox	<i>P. paniculata</i>		chill 21 21-28	34 68	L	-	8-10	-	10-12	-
Physalis	<i>P. alkenkengi</i>	17,000	7-14	60-70	L/C	50-75	10-12	-	-	-
Plectranthus	<i>P. argentatus</i>	21,000	5-7	68-75	L	35-42	-	-	14-16	17-18
	<i>P. oertendahlii</i>	46,000	5-7	68-75	L	35-42	10-11	-	11-12	12-13
Poppy, California	<i>Eschscholtzia</i>	17,000	4-8	70-72	C	-	7-9	8-10	13-16	N/R
Poppy, Iceland	<i>Papaver nudicule</i>	100,000	7-12	65-72	L	16-25	-	13-14	15-17	-
Poppy, Oriental	<i>Papaver orientale</i>	95,000	7-14	65-75	L	16-25	-	-	16-18	20-22
Poppy, Shirley	<i>Papaver rhoeas</i>									
Portulaca	<i>P. grandiflora</i>	230,000	7-10	75-80	L	35-40	10-11	12-13	13-14	14-15
Primula	<i>P. polyanthus</i>	30,000	14-21	60-65	L	30-40	-	-	22-26	-
Pyrethrum	<i>Tanacetum coccineum</i>	25,000	5-10	60-70	L	15-25	10-12	-	-	-
Ricinus	<i>R. communis</i>	50	6-11	70-72	C	-	-	-	6-7	N/R
Rudbeckia	<i>R. hirta</i>	50,000	5-10	70	L/C	20-28	8-10	13-15	15-16	N/R
Salvia	<i>S. coccinea</i>	15,000	5-12	70-75	L	18-26	7-8	9-10	1-12	-
Salvia	<i>S. farinacea</i>	24,000	12-15	75-78	L	14-19	8-9	-	14-16	-
Salvia	<i>S. splendens</i>	7500	12-15	75-78	L	14-18	7-8	9-11	11-13	-
Salvia	<i>S. nemorosa, S. x supurba</i>	25,000	4-8	72	L/C	15-22	9-11	-	-	-
Saponaria	<i>S. ocymoides</i>	16,000	4-8	70	C	18-25	11-13	-	-	-
Scabiosa	<i>S. scabiosa</i>	2,400	10-18	65-70	L	20-29	10-12	-	-	-
Sedum	<i>S. acre, S. spurium</i>	400,000	20-29	20-22	L	20-29	11-14	-	-	-
Sempervivum	<i>S. species</i>	370,000	5-10	72-75	C Lt	42-63	14-17	-	-	-
Shasta Daisy	<i>Leucanthemum x superbum</i>	25,000	9-12	65-70	C Lt	20-25	-	-	18-20	-
Snapdragon	<i>Antirrhinum majus</i>	180,000	15-20	70-75	L	15-20	10-11	15-17	16-18	-
Stachys	<i>S. byzantina</i>	16,000	8-15	70	L	18-24	11-13	-	-	-
Statice	<i>Limonium sinuata</i>	8500	12-19	70	L/C	12-19	9-11	13-15	14-16	-
Stock	<i>Matthiola incana</i>	19,000	7-14	65-75	L/C	11-18	-	9-10	10-12	12-13
Strawflower	<i>Helichrysum bracteatum</i>	45,000	7-10	70-75	L/C	20-26	8-10	10-12	12-14	N/R
Sunflower	<i>Helianthus annuus</i>	900	5-10	68-72	C	-	-	-	-	12-13
Sweet Pea	<i>Lathyrus odoratus</i>	350	7-10	65-72	C	-	-	-	14-16	-
Sweet Pea	<i>Lathyrus latifolius</i>	625	10-20	62-70	C	-	-	-	-	11-13
Sweet William	<i>Dianthus barbatus</i>	25,000	7-10	68-72	C Lt	13-18	10-12	15-16	15-16	-
Thunbergia	<i>T. alata</i>	1100	6-12	70-75	C Lt	-	N/R	N/R	8-9	10-11
Tithonia	<i>T. rotundifolia</i>	3600	3-8	70-72	L	8-15	7-9	-	11-12	N/R
Verbena	<i>V. speciosa</i>	25,000	5-7	70	C Lt	15-25	8-9	-	-	14-15
Verbena	<i>V. x hybrida</i>	10,000	10-20	75-80	C Lt	20-25	-	12-13	14-15	16-18
Veronica	<i>V. spicata</i>	220,000	7-14	65-75	L	16-25	10-13	-	14-16	18-20
Vinca	<i>Catharanthus roseus</i>	21,000	7-15	75-80	C Lt	30-35	-	14-15	16-17	18-20
Viola	<i>V. cornuta</i>	24,000	7-14	65-70	C Lt	15-26	11-12	13-14	15-16	-
Zinna	<i>Z. angustifolia</i>	60,000	4-8	70-72	C	25-35	8-9	9-10	12-13	-
Zinnia	<i>Z. hybrida</i>	8000	4-8	70-72	C	10-15	5-6	8-9	9-10	-
Zinnia	<i>Z. elegans</i>	5000	4-8	70-72	C	10-15	6-7	8-10	10-11	-

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