

Variety	COLD TREATMENT					FORCING/FINISHING			Average Daily Temperature	Crop Time in Weeks from Rooted Cutting	No. of Pinches	Plant Growth Regulators (S) spray (D) drench	Pests	Diseases
	Soil pH	Plant Maturity	Temperature	Duration	Benefit(s)	Fertilization (ppm N)	Light Levels (fc)	Daylength						
ACHILLEA HYBRIDA Moonshine ACHILLEA MILLEFOLIUM Laura, Little Susie, Peggy Sue, Pretty Woman	5.8-6.2	Cold treatment is beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-9 weeks	Earlier flowering	150-200	4,000-7,000	Plants grown under long days (greater than 13.5-hour daylengths), occurring either naturally or by night-break lighting, will flower more rapidly and uniformly.	56-61°F (13-16°C)	Quart: 5-9 Gallon: 11-13	0	B-Nine(S) 2,000-4,000 ppm, applied 1-3 times as needed.	Aphids, whitefly	Botrytis, Root rot
AJUGA REPTANS Bronze Beauty, Burgundy Glow, Evening Glow, Golden Glow AJUGA TENORII Chocolate Chip	6.0-6.5	Cold treatment is not required. Cold treatment will optimize flowering but is not required for foliage.	35-41°F (2-5°C)	6-9 weeks	Increased flowering	175-225	3,000-5,000	Ajuga is grown primarily for foliage and is not dependent on daylength.	58-68°F (14-20°C)	Quart: 5-9 Gallon: 11-13	0-1	Generally not needed.	Aphids, whitefly	Root and stem rot
ARTEMISIA ARBORESCENS Powis Castle	5.8-6.2	Cold treatment is not required.	—	—	—	175-225	5,000-9,000	Artemisia is grown for its silver, finely-textured foliage and is not dependent on daylength.	68-76°F (20-24°C)	Quart: 4-8 Gallon: 8-10	1	Responds to Bonzi(S) 5-40 ppm.	Aphids, whitefly	Root and stem rot
ARTEMISIA SCHMIDTIANA Silver Mound	5.5-6.0	Cold treatment is not required.	—	—	—	175-225	5,000-9,000	Artemisia is grown for its silver, finely-textured foliage and is not dependent on daylength.	68-76°F (20-24°C)	Quart: 5-9 Gallon: 10-12	1-2	Responds to Bonzi(S) 40-50 ppm.	Aphids, whitefly	Root and stem rot
ASTER DUMOSUS Purple Dome	5.4-5.8	Cold treatment is beneficial. Plants should be bulked under natural long days prior to cooling.	35-41°F (2-5°C)	6-15 weeks	Increases flowering percentage and number of flowers	175-225	5,000-9,000	Asters will flower earlier and more uniformly under short days (9 hours).	59-67°F (15-19°C)	Quart: 7-9 Gallon: 8-10	1-2	If grown under long days after cold, a growth regulator will likely be needed. Responsive to B-Nine(S) 2,500-4,000 ppm and Sumagic(S) 10-50 ppm.	Whitefly, aphids	Powdery mildew, Root and stem rot
BOLTONIA ASTEROIDES VAR. LATISQUAMA Jim Crockett	5.6-6.3	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Increases flowering percentage and number of flowers	175-225	5,000-8,000	Boltonia Jim Crockett will bloom mid to late Summer through Autumn.	65-76°F (18-24°C)	Quart: 5-7 Gallon: 7-10	1-2	Is responsive to Bonzi (D) 10-20 ppm, B-Nine 2,500-4,000 ppm and Cycocel 1,000-1,500 ppm tank mix(S).	Aphids, whitefly	Powdery mildew, Root rot, Rust
CARYOPTERIS X CLANODENSIS Longwood Blue	5.8-6.2	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Increased number of flowers; improved habit	175-225	5,000-8,000	Plants forced under long days will flower more uniformly and faster.	65-73°F (18-22°C)	Quart: 7-9 Gallon: 8-10	1-2	Generally not needed.	Whitefly, fungus gnats	Root rot
CERATOSTIGMA PLUMBAGINOIDES	5.8-6.5	Cold treatment is not required.	—	—	—	200-250	4,000-8,000	Ceratostigma will bloom mid to late Summer through Autumn.	62-76°F (16-24°C)	Quart: 7-10 Gallon: 11-13	1-2	B-Nine(S) 1,500-2,500 ppm; Bonzi(S) 15-30 ppm.	Aphids, thrips	Botrytis, Root and stem rot
COREOPSIS AURICULATA Nana	5.8-6.2	Cold treatment will optimize flowering.	35-41°F (2-5°C)	6-15 weeks	Improved flowering	150-200	5,000-8,000	Coreopsis Nana is daylength neutral but does require bulking prior to flowering.	65-70°F (19-21°C)	Quart 6-8 Gallon: 8-10	0-1	Generally not needed.	—	—
COREOPSIS GRANDIFLORA Sunny Day	5.4-5.8	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Increased number of flowers; earlier flowering	175-225	6,000-10,000	Coreopsis Sunny Day will bloom naturally as days lengthen and temperatures begin to rise in late Spring.	62-67°F (16-19°C)	Quart: 7-9 Gallon: 8-10	0	Generally not needed.	Whitefly	—
COREOPSIS HYBRIDA Jethro Tull	5.8-6.2	Cold treatment is not required.	—	—	—	175-225	6,000-10,000	Coreopsis Jethro Tull is an obligate long-day plant and requires daylengths longer than 14 hour to flower.	64-68°F (18-20°C)	Quart: 8-9 Gallon: 9-11	0-1	Is responsive to B-Nine(S) 2,500 ppm; Bonzi or Sumagic(S) at 5 ppm.	Aphids	Powdery mildew
COREOPSIS ROSEA American Dream COREOPSIS VERTICILLATA Moonbeam, Tweety, Zagreb	5.4-5.8	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Increased number of flowers; earlier flowering	175-225	6,000-9,000	Plants grown under long days (greater than 14-hour daylengths), occurring naturally or by night-break lighting, will flower more rapidly.	65-73°F (18-22°C)	Quart: 6-9 Gallon: 9-11	1-3	B-Nine(S) 1,500-2,500 ppm or Sumagic(S) 2-4 ppm are effective.	—	Root rot, Powdery mildew
DELOSPERMA D. cooperi DELOSPERMA FLORIBUNDUM Sequins	5.5-6.2	Cold treatment is not required.	—	—	—	175-225	6,000-9,000	Delosperma will bloom naturally as days lengthen and temperatures begin to rise in late Spring.	62-67°F (16-19°C)	Quart: 6-8 Gallon: 8-10	0-2	Generally not needed.	Fungus gnats	Root rot
ERODIUM CHAMAEDRYOIDES Charm	5.6-6.3	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	More uniform flowering; increase in number of flowers	150-200	6,000-10,000	Erodium will bloom naturally beginning in early Summer.	65-72°F (18-22°C)	Quart: 8-12 Gallon: 10-14	0-1	Generally not needed.	Whitefly	Root rot
ERYSIMUM LINIFOLIUM Bowles Mauve, Fragrant Sunshine	5.5-6.0	Cold treatment is required for best Spring flowering. Bulk plants prior to cold treatment.	45-55°F (7-13°C)	4-6 weeks	Improved flowering	175-225	5,000-9,000	Erysimum will start to flower from mid-Spring (in milder climates) to early Summer (in Northern areas).	62-67°F (16-19°C)	Quart: 8-12 Gallon: 14-17	0-1	Generally not needed. Growing under high light and cooler temperatures is the most effective way to control growth and improve plant habit.	Whitefly, aphids	Root and stem rot
EUPHORBIA MARTINII Tiny Tim	5.8-6.2	Cold treatment required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	10-15 weeks	Required for flowering	150-200	5,000-9,000	Euphorbia are long blooming (early Spring through Summer).	62-68°F (17-20°C)	Quart: 8-12 Gallon: 14-17	0-1	Generally not needed. Growing under high light and cooler temperatures is the most effective way to control growth. Tiny Tim was selected for its compact habit.	Whitefly, aphids	Root and stem rot

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	Soil pH	Plant Maturity	Temperature	Duration	Benefit(s)	Fertilization (ppm N)	Light Levels (fc)								
GAILLARDIA GRANDIFLORA Fanfare	5.4-5.8	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	10-15 weeks	Beneficial for flowering	225-300	5,000-8,000	Gaylardia blooms quickly under long days.	65-76°F (18-24°C)	Quart: 7-10 Gallon: 8-12	0	Generally not needed.	Whitefly, aphids	Botrytis, Root rot	
GALIAM ODORATUM	5.6-6.2	Cold treatment required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	10-15 weeks	Required for flowering	175-225	4,000-7,000	Galium will flower earlier and more uniformly under long days.	62-67°F (16-19°C)	Quart: 7-10 Gallon: 8-12	0	Generally not needed.	Whitefly, aphids	Botrytis, Root rot	
GAURA LINDHEIMERI Ballerina™, Belleza, Siskiyou Pink	5.8-6.2	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Increased number of flowers; improved habit; slightly earlier flowering	175-225	5,000-9,000	Plants forced under long days will flower more uniformly and more rapidly.	71-76°F (21-24°C)	Quart: 5-9 Gallon: 9-11	0-1	Use B-Nine(S) 2,500-4,000 ppm; Sumagic(S) 30-50 ppm.	Whitefly, aphids, leafminer	Root rot	
HEDERA HYBRID Baltic, Glacier, Needlepoint, Thorndale	5.8-6.5	Cold treatment is not required.	—	—	—	175-225	2,000-8,000	Crop is grown for its evergreen foliage.	56-67°F (13-19°C)	Quart: 8-10 Gallon: 10-12	1-2	Generally not needed.	Mites	Leaf spot	
HEUCHERA SPECIES Harvest, Swirling Fantasy	5.4-5.8	Cold treatment required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	10-15 weeks	Increased number of flowers; earlier flowering	175-225	3,000-7,000	Photoperiod has no effect on time to flower.	62-67°F (16-19°C)	Quart: 6-9 Gallon: 9-11	0	Generally not needed. Sumagic(S) 2-4 ppm and Bonzi(S) 10-25 ppm are effective.	Aphids, whitefly	Botrytis, Root rot	
IBERIS SEMPERVIRENS Alexander's White, Golden Candy, Purity	5.4-5.8	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	More uniform flowering; increase in number of flowers	175-225	4,000-6,000	Iberis will bloom under any daylength.	56-61°F (13-16°C)	Quart: 5-6 Gallon: 7-9	0	Generally not needed.	Fungus gnats	Root rot, Pythium	
LAMIUM MACULATUM Anne Greenaway, Beacon Silver, White Nancy	5.8-6.5	Cold treatment is not required.	—	—	—	225-300	5,000-8,000	Lamium is grown primarily for its foliage. Flowering is not dependent on daylength.	65-73°F (18-22°C)	Quart: 5-10 Gallon: 11-13	0-2	Generally not needed. Growing Lamium under cool, bright conditions will help improve habit.	Whitefly, aphids	Botrytis, Root and stem rot	
LAVENDER ANGUSTIFOLIA Hidcote Blue, Munstead LAVENDER X INTERMEDIA Goodwin Creek, Provence	5.4-5.8	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Earlier flowering; more uniform flowering	175-225	5,000-8,000	Plants forced under long days (greater than 16-hour daylengths) will flower more uniformly and rapidly.	71-76°F (21-24°C)	Quart: 7-12 Gallon: 12-14	0-1	Sumagic(S) 5-10 ppm, applied 1-3 times as needed.	Whitefly, aphids	Botrytis, Root rot	
LAVENDER STOECHAS Anouk, Bella®, Silver Anouk	5.8-6.0	Cold treatment is not required.	—	—	—	100-175	5,000-8,000	Lavender Bella will bloom uniformly as days lengthen and temperatures begin to rise in mid-Spring.	56-76°F (13-24°C)	Quart: 12-16 Gallon: 16-20	1-2	Generally not needed. Is responsive to B-Nine(S) 1,000-2,500 applied 1-3 times as needed.	Whitefly, fungus gnats	Root rot	
LEUCANTHEMUM HYBRID Ice Star, Santé, Snow Cap	5.8-6.5	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Increased flowering percentage and number of flowers; earlier flowering	150-200	5,000-8,000	Plants grown under long days (greater than 16-hour daylengths), occurring naturally or by night-break lighting, will flower more rapidly and have more flowers.	65-70°F (19-21°C)	Quart: 6-9 Gallon: 9-11	0	Generally not needed. Growing Leucanthemum under cool, bright conditions will help improve habit.	Aphids, thrips	Root rot	
LITHODORA DIFFUSA Grace Ward, Heavenly Blue	5.8-6.3	Cold treatment is not required.	—	—	—	200	5,000-8,000	Lithodora Grace Ward will bloom naturally as days lengthen and temperatures rise in late Spring.	65-73°F (18-23°C)	Quart: 7-9	0-1	Generally not needed.	—	Root and stem rot	
LYSIMACHIA NUMMULARIA Goldilocks	5.8-6.2	Cold treatment is not required.	—	—	—	175-225	5,000-9,000	Lysimachia Goldilocks is grown primarily for its foliage.	55-65°F (13-18°C)	Quart: 4-5 Gallon: 5-6	1-2	Generally not needed. Pinching is best for shaping the plant.	—	—	
LYSIMACHIA PUNCTATA Golden Alexander	5.8-6.2	Cold treatment is not required.	—	—	—	175-225	4,000-8,000	Lysimachia is grown primarily for its foliage. This upright lysimachia will flower as days lengthen in Spring.	71-79°F (21-26°C)	Quart: 5-10 Gallon: 11-13	0-2	Generally not needed. Growing Lysimachia under cool, bright conditions will improve habit.	Whitefly, aphids	Botrytis, Root and stem rot	
OENOTHERA SPECIOSA Siskiyou Pink	5.6-6.2	Cold treatment required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	10-15 weeks	Increased number of flowers	150-200	5,000-8,000	Plants forced under long days (14-hour daylengths) will flower more uniformly and rapidly.	62-69°F (17-20°C)	Quart: 6-8 Gallon: 9-11	0-1	Generally not needed.	Whitefly, aphids	Botrytis, Root rot	
PENSTEMON DIGITALIS Husker Red	5.8-6.2	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Increased flowering percentage and number of flowers	150-200	4,000-8,000	Non-cold treated plants grown under long days (greater than 16-hour daylengths) will have a higher flowering percentage. Vernalized plants will flower equally well under all daylengths.	68-75°F (20-24°C)	Quart: 6-8 Gallon: 7-9	0	B-Nine(S) 1,500-2,500 ppm and Bonzi(S) 5-10 ppm are effective.	Aphids	Root rot	
PENSTEMON HYBRIDA Firebird	5.8-6.2	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Increased flowering percentage and number of flowers	175-225	4,000-8,000	Non-cold treated plants grown under long days (greater than 16-hour daylengths) will have a higher flowering percentage. Vernalized plants will flower equally well under all daylengths.	68-76°F (20-24°C)	Quart: 6-8 Gallon: 7-9	0	B-Nine(S) 1,500-2,500 ppm and Bonzi(S) 5-10 ppm are effective.	Aphids	Root rot	

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	Soil pH	Plant Maturity	Temperature	Duration	Benefit(s)	Fertilization (ppm N)	Light Levels (fc)	Daylength						
PEROVSKIA Lacey Blue, P. atriplicifolia	5.6-6.2	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Increased number of flowers; increased branching; more compact habit	175-225	5,000-8,000	Perovskia will flower under any daylength after cold treatment and will flower without cold treatment under long days.	65-72°F (18-22°C)	Quart: 7-9 Gallon: 10-12	0-1	B-Nine(S) 2,000-4,000 ppm, B-Nine 2,000-4,000 ppm/ Cycocel 1,000-1,500 ppm tank mix(S) or Sumagic(S) 5-20 ppm	Mites, whitefly, aphids	Root rot
PHLOX DIVARICATA Chattahoochee	5.4-5.8	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Earlier and more uniform flowering	100-175	5,000-9,000	Phlox Chattahoochee will bloom under any daylength. Flowering should begin in the early Spring.	65-73°F (18-22°C)	Quart: 7-9 Gallon: 8-10	0-1	Generally not needed.	Whitefly	Powdery mildew
PHLOX PANICULATA Flame™	6.0-6.5	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Increased branching; earlier and more uniform flowering	100-175	5,000-9,000	Phlox Flame will bloom naturally as days lengthen and temperatures begin to rise in late Spring.	59-76°F (15-24°C)	Quart: 7-9 Gallon: 8-10	0-1	Generally not needed.	Whitefly	Powdery mildew
PHLOX PANICULATA Jade, Neon Flare, Peppermint Twist, Piña Colada, Pink Lady, Purple Kiss, Red Caribbean, Swizzle, Tequila Sunrise, Tiara	6.0-6.5	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Increased branching; earlier and more uniform flowering	100-175	5,000-9,000	Phlox paniculata blooms more quickly under long days.	59-76°F (15-24°C)	Quart: 7-9 Gallon: 8-10	0-1	Generally not needed.	Whitefly	Powdery mildew
PHLOX SUBULATA Candy Stripe, Coral Eye, Crimson Beauty, Drummonds Pink, Emerald Blue, Emerald Pink, Fort Hill, Red Wings, Scarlet Flame, White Delight	6.0-6.5	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Increased number of flowers; earlier flowering	150	4,000-8,000	Phlox subulata will flower equally well under long or short daylengths after cold treatment.	59-76°F (15-24°C)	Quart: 6-9 Gallon: 10-12	0-1	Generally not needed. Growing under high light and cooler temperatures is the most effective way to control growth and improve plant habit.	Mites, whitefly, aphids	Root rot, Botrytis, Powdery mildew
SALVIA NEMOROSA Blue Hill, Burgundy Candles, Caradonna, East Friesland, Lyrical, Marcus®, May Night, Pink Friesland, Snow Hills	5.8-6.2	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Improved habit and overall quality	175-225	5,000-8,000	Plants grown under long days (greater than 16-hour daylengths), occurring naturally or by night-break lighting, will flower more rapidly.	59-64°F (15-17°C)	Quart: 7-10 Gallon: 8-12	0-1	Generally not needed. B-Nine(S) 1,500-2,500 ppm and Bonzi(S) 10-15 ppm are effective.	Aphids, whitefly	Botrytis, Root and stem rot
SCABIOSA COLUMBARIA Butterfly Blue, Harlequin Blue, Pink Mist	5.8-6.2	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	Increases flowering percentage and number of flowers	150	5,000-9,000	Scabiosa will bloom under any daylength, although plants will tend to be taller as days lengthen.	65-73°F (18-22°C)	Quart: 5-6 Gallon: 7-9	0	Is responsive to B-Nine(S) 2,500-4,000 ppm alone or as a tank mix(S) with Cycocel 1,000-1,500 ppm. Sumagic(S) 10-20 ppm is also effective.	Aphids, whitefly	Root and stem rot, Botrytis, Powdery mildew
SEDUM HYBRIDA Abbey Dore, Autumn Joy, Bon Bon, Postman's Pride, Vera Jameson	5.4-5.8	Cold treatment is beneficial.	35-41°F (2-5°C)	6-15 weeks	Increased branching; more flower buds	100-175	5,000-9,000	Long days are required for flowering.	65-70°F (18-21°C)	Quart: 7-9 Gallon: 9-12	1-2	B-Nine(S) (2,500-3,500 ppm) tank mix with Cycocel(S) (750-1,000 ppm) will help control growth. Use Florel(S) (300-500 ppm) to increase branching (delay flowering). Bonzi and Sumagic are also effective.	Aphids, slugs	Root rot (if over-watered)
SEDUM ALBUM Anthoum SEDUM LINEARE Sea Urchin SEDUM MAKINOI Salsa Verde SEDUM REFLEXUM Blue Spruce SEDUM RUPESTRE Angelina SEDUM SPURIUM Tricolor	5.8-6.2	Cold treatment is not required. Crop is grown for foliage.	—	—	—	100-175	5,000-9,000	Plants will grow faster under long days.	74-79°F (23-26°C)	Quart: 7-9 Gallon: 9-12	1-2	Generally not needed.	Aphids, slugs	Root and stem rot
SEDUM TETRACTINUM Coral Reef	5.4-5.8	Cold treatment is not required.	—	—	—	100-175	5,000-9,000	Shortest crop times will be under long days (14-hour daylengths).	65-70°F (18-21°C)	Quart: 7-9 Gallon: 10-12	0-1	Generally not needed.	Fungus gnats	Powdery mildew, Root rot

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STACHYS BYZANTINA	5.8-6.2	Cold treatment is not required.	—	—	—	100-150	3,000-9,000	Plants will grow faster under long days.	65-73°F (18-23°C)	Quart: 6-8 Gallon: 8-11	0	Generally not needed.	Whitefly	Root and stem rot
VERBENA Homestead Purple	5.8-6.2	Cold treatment is not required.	—	—	—	225-300	5,000-8,000	Plants grown under long days (greater than 12-hour daylength), occurring naturally or by night-break lighting, will flower more rapidly.	65-73°F (18-23°C)	Quart: 6-8 Gallon: 8-11	1-2	Generally not needed.	Whitefly, leafminer, aphids	Root rot
VERONICA X HYBRIDA Christy	5.4-5.8	Cold treatment required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	10-15 weeks	More uniform flowering; increase in number of flowers	175-225	4,000-9,000	Veronica will flower equally well under any daylength after cold treatment.	65-73°F (18-23°C)	Quart: 7-9 Gallon: 8-10	0	Generally not needed.	—	Root rot
VERONICA PEDUNCULARIS Georgia Blue	5.4-5.8	Cold treatment required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	10-15 weeks	Increased number of flowers; earlier flowering; more uniform flowering	175-225	4,000-9,000	Veronica will flower equally well under long or short daylengths after cold treatment.	65-70°F (18-21°C)	Quart: 7-10 Gallon: 8-12	0-1	Generally not needed. B-Nine(S) 1,500-2,500 ppm, Cycocel(S) 750-1,000 and Bonzi(S) 10-15 ppm are effective.	Aphids, thrips, whitefly	Botrytis, Root rot, Powdery mildew
VERONICA SPICATA Red Fox	5.4-5.8	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	More uniform flowering; increased number of flowers; earlier flowering	175-225	4,000-7,000	Veronica will flower equally well under long or short daylengths after cold treatment.	65-70°F (18-21°C)	Quart: 8-10 Gallon: 10-12	0	Bonzi(S) 15-20 ppm, B-Nine(S) 2,000-3,000 ppm or a B-Nine 2,500 ppm and Cycocel 1,000 ppm tank mix(S) are effective.	Aphids, whitefly, thrips	Botrytis, Powdery mildew
VERONICA SPICATA Royal Candles, Atomic, Baby Doll, First Love, Purpleicious	5.4-5.8	Cold treatment required for flowering.	35-41°F (2-5°C)	6 weeks	Increased number of flowers, earlier flowering, more uniform flowering	175-225	4,000-7,000	Veronica will flower equally well under long or short daylengths after cold treatment.	65-70°F (18-21°C)	Quart: 8-10 Gallon: 10-12	0-1	Generally not needed. Sumagic(S) at 5 ppm in northern climates should provide adequate height control.	Aphids, whitefly, thrips	Botrytis, Powdery mildew
VINCA MINOR Bowles, Illumination, Moonlit	5.5-5.9	Cold treatment is not required.	—	—	—	225-300	5,000-10,000	Vinca Bowles is grown primarily for its foliage and is not dependent upon daylength for optimum growth.	68-75°F (20-24°C)	Quart: 6-8 Gallon: 9-11	1-2	Generally not needed.	Aphids, whitefly	Root and stem rot
VIOLA X HYBRIDA Blackout, Blue Moon, Etain, Harvest Moon, Jumping Jack, Starry Night	5.4-5.8	Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment.	35-41°F (2-5°C)	6-15 weeks	More uniform flowering; increased number of flowers	175-225	5,000-8,000	Viola will bloom under any daylength. Flowering should begin in early Spring.	50-55°F (10-13°C)	Quart: 5-7 Gallon: 8-10	0	Generally not needed.	Fungus gnats	Root rot