

Cultural Information

CULTURAL INFO



Cultural Information for Annuals

	Vigor	pH/EC	Rooting Out Temperature	Growing Temperature	Holding Temperature	Water Requirements	Planting and Timing	Finish Times in Weeks	Spring Outdoor Finish
ARTIST® <i>Ageratum</i>	Vigor 2	5.8 - 6.2/6 -9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Moderate to Moist	Early Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	Last to go outside
ANGELFACE® <i>Angelonia</i>	Vigor 3	5.8 - 6.2/6 -9	65-72° F (18-22° C)	70-75° F (21-24° C)	60-65° F (16-18° C)	Moderate to Moist	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 7-8; for 8", 7-9; for 10-12", 10-14	Do not finish outside
BUTTERFLY <i>Argyranthemum</i>	Vigor 3	5.8 - 6.2/6 -9	65-72° F (18-22° C)	60-65° F (16-18° C)	40-50° F (4-10° C) outdoors	Moderate to Moist	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 7-8; for 8", 7-9; for 10-12", 10-14	First to go outside
SILVER BULLET® <i>Artemisia</i>	Vigor 3	5.8 - 6.5/6 -9	65-72° F (18-22° C)	55-65° F (12-18° C)	40-50° F (4-10° C) outdoors	Moderate	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 8-10	First to go outside
Asparagus Fern <i>Asparagus</i>	Vigor 2	5.8 - 6.2/6 -9	65-72° F (18-22° C)	65-72° F (18-22° C)	65-72° F (18-22° C)	Moderate to Moist	Spring to Summer Finish. Standard Plants Per Container.	For 4-5" and QT, 5-6; for 6"/gallon, 7-9	Do not move outside until all danger of frost is past
DOUBLE DELIGHT™ <i>Begonia</i>	Vigor 2	5.5 - 6.2/6 -9	70-75° F (21-24° C)	65-72° F (18-22° C)	65-72° F (18-22° C)	Dry to Moderate	Spring to Summer Finish. Standard Plants Per Container.	For 4-5", 6-8; for 6"/gallon, 6-8; for 10-12", 8-12	Do not move outside until all danger of frost is past
DOUBLE UP™ <i>Begonia</i>	Vigor 2	5.5 - 6.2/6 -9	65-72° F (18-22° C)	65-72° F (18-22° C)	65-72° F (18-22° C)	Dry to Moderate	Spring to Summer Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 6-8; for 10-12", 10-12	Do not move outside until all danger of frost is past
PEGASUS® <i>Begonia</i>	Vigor 3	5.5 - 6.0/6 -9	65-72° F (18-22° C)	65-72° F (18-22° C)	65-72° F (18-22° C)	Dry to Moderate	Spring to Fall Finish.	For 4-5", 5-7; for quarts, 6-8; for 6"/gal, 7-9; for 10-12", 10-12	Do not move outside until all danger of frost is past
SUREFIRE® <i>Begonia</i>	Vigor 4	5.5 - 6.2/6 -9	65-72° F (18-22° C)	65-72° F (18-22° C)	65-72° F (18-22° C) outdoors	Dry to Moist	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 6-8; for 8", 7-9; for 10-12", 10-12	Do not move outside until all danger of frost is past
CAMPFIRE® Flame and GOLDLOCKS ROCKS® <i>Bidens</i>	Vigor 3	5.8 - 6.2/6 -9	65-72° F (18-22° C)	55-65° F (12-18° C)	40-50° F (4-10° C) outdoors	Moderate	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	Second to go outside
ENDLESS™ <i>Browallia</i>	Vigor 2	6.5 - 7.5/6 -9	70-85° F (21-29° C)	70-85° F (21-29° C)	70-85° F (21-29° C)	Moderate to Moist	Late Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 6-9; for 8", 8-9; for 10-12", 9-13	Last to go outside
HEART TO HEART™ <i>Caladium</i>	Vigor 2	5.5 - 6.5/6 -9	70-85° F (21-29° C)	70-85° F (21-29° C)	70-85° F (21-29° C)	Moderate to Moist	Late Spring through Summer Finish. (see below at left)	(see below at left)	Do not move outside unless 70-85° F (21-29° C) temps are guaranteed
Pot Size	Tubers Per Pot		March-April Finish	May-June Finish					
1.0 QT	#2 size - 2; #1 size - 1		8-10 weeks	5-6 weeks					
6.5"	#2 size - 4; #1 size - 2; Jumbo size - 1		8-10 weeks	5-6 weeks					
8.5"	#1 size - 4; Jumbo size - 2		8-10 weeks	5-6 weeks					

VIGOR KEY – 1 to 4, with 1 representing the slower, smaller growers and 4 representing the quickest, largest growers. For combinations, choose varieties with the same vigor rating to ensure success.

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LADY GODIVA® <i>Calendula</i>	Vigor 2	5.8 - 6.2/6 -9	65-72° F (18-22° C)	55-65° F (12-18° C)	40-50° F (4-10° C)	Moderate	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 7-9; for 8", 8-10; for 10-12", 10-12	Second to go outside
SUPERBELLS® <i>Calibrachoa</i>	Vigor 2	5.5 - 5.8/6 -9	65-72° F (18-22° C)	55-65° F (12-18° C)	40-50° F (4-10° C) outdoors	Moderate to Moist	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	Second to go outside
TOUCAN® <i>Canna</i>	Vigor 4	6.2 - 7.0/1.0 -2.0	75-85° F (24-30° C)	75-85° F (24-30° C)	65-72° F (18-22° C)	Moist	Late Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 6-8; for 6"/gallon, 6-8; for 8", 8-10; for 10-12", 10-12	Do not move outside until all danger of frost is past
FLAMBE® Yellow <i>Chrysocephalum</i>	Vigor 2	6.0 - 6.5/6 -9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C) outdoors	Dry to Moderate	Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 5-6; for 6"/gallon, 6-8; for 8", 8-10; for 10-12", 10-12	Do not move outside until all danger of frost is past
SEÑORITA <i>Cleome</i>	Vigor 4	5.8 - 6.2/1.0 - 2.0	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C) outdoors	Dry to Moderate	Mid-Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 5-6; for 6"/gallon, 6-8; for 8", 8-10; for 10-12", 10-12	Do not move outside until all danger of frost is past
'Coffee Cups' and HEART OF THE JUNGLE® <i>Colocasia</i>	Vigor 3	5.8 - 6.2/6 -9	70-75° F (21-24° C)	70-75° F (21-24° C)	50-60° F (10-16° C)	Moderate to Moist	Spring to Summer Finish. Standard Plants Per Container.	For QT, 7-9; for 6"/gallon, 9-11; for 14", 13-15	Do not move outside until all danger of frost is past
FAIRY DUST® Pink <i>Cuphea</i>	Vigor 3	6.0 - 6.5/6 -9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Moderate	Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 7-9; for 10-12", 10-12	Last group to go outside
VERMILLIONAIRE® <i>Cuphea</i>	Vigor 3	6.0 - 6.5/6 -9	65-72° F (18-22° C)	70-75° F (21-24° C)	50-60° F (10-15° C) outdoors	Moderate to Moist	Late Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 5-6; for 6"/gallon, 8-10; for 10-12", 10-12	Last group to go outside
MYSTIC Illusion <i>Dahlia</i>	Vigor 3	5.8 - 6.2/8 -1.2	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-15° C)	Moderate to Moist	Early Spring to Summer Finish. Standard Plants Per Container.	For 4-5", 5-6; for 6"/gallon, 6-8; for 8", 8-10; for 10-12", 10-12	Do not move outside
SILVER FALLS™ <i>Dichondra</i>	Vigor 3	5.5 - 5.8/6 -1.0	65-72° F (18-22° C)	65-72° F (18-22° C)	65-72° F (18-22° C)	Dry to Moderate	Spring to Fall Finish. Standard Plants Per Container.	For 4-5", 4-5; for 6"/gallon, 5-7; for 10-12", 7-10	Do not finish outside
Spike <i>Dracaena</i>	Vigor 3	5.8 - 6.4/6 -9	65-72° F (18-22° C)	60-65° F (16-18° C)	45-50° F (7-10° C)	Moderate to Moist	Spring to Summer Finish. Standard Plants Per Container.	For 4-5" and QT, 8-10 for 6"/gallon, 10-12	Last group to go outside
DIAMOND FROST® DIAMOND SNOW® DIAMOND MOUNTAIN® <i>Euphorbia</i>	Vigor 3 Vigor 3 Vigor 4	5.8 - 6.2/6 -9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C) outdoors	Moderate to Moist	Early Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	Do not move outside until all danger of frost is past
HIGH NOON™ <i>Euryops</i>	Vigor 2	5.8 - 6.4/6 -9	65-72° F (18-22° C)	65-72° F (18-22° C)	45-50° F (7-10° C)	Moderate to Moist	Spring to Summer Finish. Standard Plants Per Container.	For 4-5", 6-7; for 6"/gallon, 8-9; for 10-12", 10-11	Second to go outside

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BLUE MY MIND® <i>Evolvulus</i>	Vigor 2	6 - 6.5/<.6	65-72° F (18-22° C)	70-75° F (21-24° C)	50-60° F (10-16° C) outdoors	Dry to Moderate	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 6-8; for 6"/gallon, 10-12; for 8", 10-12; for 10-12", 12-14	Last to go outside
HEAT IT UP® <i>Gaillardia</i>	Vigor 3	5.8 - 6.2/6 -9	65-72° F (18-22° C)	55-65° F (12-18° C)	40-50° F (4-10° C) outdoors	Moderate to Moist	Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 6-8; for 6"/gallon, 8-9; for 10" basket or 14" upright, 9-10	First to go outside
STRATOSPHERE™ and KARALEE® <i>Gaura</i>	Vigor 3	5.8 - 6.2/6 -9	65-72° F (18-22° C)	55-65° F (12-18° C)	40-50° F (4-10° C) outdoors	Moderate to Moist	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 6-8; for 6"/gallon, 7-10; for 8", 8-11; for 10-12", 12-14	First to go outside
TRUFFULA™ Pink <i>Gomphrena</i>	Vigor 4	6.0 - 6.5/0.6 - 0.9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Moderate	Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 7-9; for 10-12", 10-12	Do not move outside
GRACEFUL GRASSES® Toffee Twist <i>Carex</i>	Vigor 2	5.8 - 6.2/6 -9	65-72° F (18-22° C)	65-72° F (18-22° C)	40-50° F (4-10° C)	Moderate to Moist	Spring through Fall Finish. Standard Plants Per Container.	For 4-5" and QT, 6-8; for 6"/gallon, 8-10; for 7-9", 12-14	Last to go outside
GRACEFUL GRASSES® BABY TUT® KING TUT® PRINCE TUT™ <i>Cyperus</i>	Vigor 4 Vigor 4 Vigor 4	6 - 6.5/6 -9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-65° F (10-18° C)	Moderate to Moist	Early Spring through Summer Finish. Standard 1 liner per 6" container	For 4-5", 4-6; for 6"/gallon, 6-8; for 8", 7-9; for 10-12", 10-12	Do not finish outside
GRACEFUL GRASSES® BLUE MOHAWK® <i>Juncus</i>	Vigor 2	5.8 - 6.2/6 -9	65-72° F (18-22° C)	65-72° F (18-22° C)	40-50° F (4-10° C)	Moist to Wet	Spring to Summer Finish. Standard Plants Per Container.	For 4-5" and QT, 4-6; for 6"/gallon, 6-8	Last to go outside
GRACEFUL GRASSES® 'Fireworks' Purple Fountain Grass 'Sky Rocket' VERTIGO® <i>Pennisetum</i>	Vigor 3 Vigor 3 Vigor 3 Vigor 4	5.8 - 6.2/6 -9	65-72° F (18-22° C)	70-75° F (21-24° C)	50-65° F (10-18° C) outdoors	Moderate to Moist	Spring to Fall Finish. Standard Plants Per Container.	For 4-5" and QT, 4-8; for 6"/gallon, 6-9 for 7-9", 8-10; for 10-12" and 2 gallon, 10-14	Do not move outside until all danger of frost is past
GRACEFUL GRASSES® Fiber Optic Grass <i>Scirpus</i>	Vigor 2	5.8 - 6.2/6 -9	65-72° F (18-22° C)	70-75° F (21-24° C)	50-65° F (10-18° C) outdoors	Moderate to Moist	Late Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 7-8; for 8", 7-9; for 10-12", 10-14	Do not move outside until all danger of frost is past
SUNCREDBLE® Yellow <i>Helianthus</i>	Vigor 4	5.5 - 5.8/1.0 - 2.0	65-72° F (18-22° C)	65-72° F (18-22° C)	65-80° F (18-27° C)	Moderate to Moist	Spring through Fall Finish. Standard Plants Per Container.	126 For 4-5", 4-5; for 6"/gallon, 7-9; for 10" basket or 14" upright, 8-9	Second to go outside
English Ivy <i>Hedera</i>	Vigor 2	5.8 - 6.28/6 -9	65-72° F (18-22° C)	60-65° F (16-18° C)	50-60° F (10-16° C)	Moderate to Moist	Spring through Summer Finish. Standard Plants Per Container.	For 4-5" and QT, 5-6; for 6"/gallon, 7-8	Last to go outside
Licorice Plant <i>Helichrysum</i> Icicles	Vigor 3 Vigor 2	6.0 - 6.5/6 -9	65-72° F (18-22° C)	65-72° F (18-22° C)	40-50° F (4-10° C)	Dry to Moderate	Spring through Summer Finish. Standard Plants Per Container.	For 4-5" and QT, 5-6; for 6"/gallon, 6-8	Last to go outside
HIPPO® <i>Hypoestes</i>	Vigor 2	5.8 - 6.2/6 -9	65-72° F (18-22° C)	70-80° F (21-27° C)	65-70° F (10-18° C) outdoors	Moderate	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 7-9; for 8", 8-10; for 10-12", 10-12	Last to go outside

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ROCKAPULCO® <i>Impatiens</i>	Vigor 2	5.8 - 6.2/75 -80	68-74° F (19-23° C)	65-75° F (18-24° C)	50-60° F (10-16° C)	Moderate to Moist	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 6-9; for 6"/gallon, 7-9; for 8", 7-9; for 10-12", 10-12	Do not finish outside
SUNPATIENS® Compact <i>Impatiens</i>	Vigor 2	5.8 - 6.2/6 -9	65-72° F (18-22° C)	65-75° F (18-24° C)	65-68° F (18-20° C)	Moderate to Moist	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 5-8; for 6"/gallon, 7-9; for 10" basket or 14" upright, 10-12	Do not move outside to finish unless temps are guaranteed to be 50-60° (10-16° C)
ILLUSION® and Sweet Caroline <i>Ipomoea</i> Sweet Caroline Bewitched Green with Envy™, Blackie, Margarita	Vigor 3 Vigor 4	6.0 - 6.5/6 -9	65-72° F (18-22° C)	70-75° F (21-24° C)	50-60° F (10-16° C) outdoors	Moderate to Moist	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 5-6; for 6"/gallon, 6-8; for 8", 8-10; for 10-12", 10-12	Do not move outside until all danger of frost is past
BETH'S BLUE® and PATTI'S PINK™ <i>Isotoma</i>	Vigor 2	5.8 - 6.2/6 -9	65-72° F (18-22° C)	50-65° F (10-18° C)	40-50° F (4-10° C)	Moderate to Moist	Early Spring to Fall Finish. Standard Plants Per Container.	For 4-5", 5-6; for 6"/gallon, 8-9; for 8", 9-10; for 10-12", 10-12	First to go outside
PINK CHABLIS® <i>Lamium</i>	Vigor 3	6.0 - 6.5/6 -9	65-72° F (18-22° C)	55-65° F (12-18° C)	40-50° F (4-10° C)	Moderate to Moist	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	First to go outside
LUSCIOUS® BERRY BLEND™ , CITRUS BLEND™ , PINKBERRY BLEND™ , BANANARAMA™ , Marmalade, GOLDENGATE™ , Grape Royale Cosmo, Royale Piña Colada, Royale Red Zone <i>Lantana</i>	Vigor 3 Vigor 2	5.8 - 6.2/6-1.5	65-72° F (18-22° C)	70-75° F (21-24° C)	50-60° F (10-16° C)	Moderate to Moist	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9;	Do not finish outside
LAGUNA® <i>Lobelia</i>	Vigor 2	5.8 - 6.2/6 -9	65-72° F (18-22° C)	65-72° F (18-22° C)	40-50° F (4-10° C) outdoors	Moderate to Moist	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	Second to go outside
BLUSHING PRINCESS® , SNOW PRINCESS® DARK KNIGHT™ , WHITE KNIGHT® , MOONLIGHT KNIGHT™ <i>Lobularia</i>	Vigor 4 Vigor 3	6.0 - 6.5/6 -9	65-72° F (18-22° C)	55-65° F (12-18° C)	40-55° F (4-12° C) outdoors	Moderate to Moist	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 3-5; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	First to go outside
GOLDDUST® <i>Mecardonia</i>	Vigor 2	5.8 - 6.2/6 -9	65-72° F (18-22° C)	70-75° F (21-24° C)	70-75° F (21-24° C)	Moderate to Moist	Spring through Summer Finish. Standard Plants per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	Do not finish outside
SUNSATIA® <i>Nemesia</i>	Vigor 2	5.5 - 5.8/6 -9	65-72° F (18-22° C)	55-65° F (12-18° C)	40-50° F (4-10° C)	Dry to Moderate	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	Second to go outside
Bluebird and AROMANCE® Pink <i>Nemesia fruticans</i>	Vigor 2	5.5 - 5.8/6 -9	65-72° F (18-22° C)	55-65° F (12-18° C)	40-50° F (4-10° C) outdoors	Moderate to Moist	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	First to go outside
INFINITY® New Guinea <i>Impatiens</i>	Vigor 1	6.0-6.5/2 -6	65-72° F (18-22° C)	65-75° F (18-24° C)	65-68° F (18-20° C)	Moderate to Moist	Spring through Summer Finish 4-5". 1 ppp, 6-8" and Gallons; 3 ppp, 10" 4-5 ppp.	For 4-5", 6-8; for 6"/gallon, 8-10; for 8", 8-10; for 10-12", 12-14	Do not finish outside

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BRIGHT LIGHTS™ <i>Osteospermum</i>	Vigor 2	5.8 - 6.2/6-9	65-72° F (18-22° C)	55-65° F (12-18° C)	40-50° F (4-10° C) outdoors	Dry to Moderate	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	Last to go outside
CHARMED® Wine <i>Oxalis regnellii</i>	Vigor 1	5.8 - 6.2/6-9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Moderate to Moist	Early Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	Do not finish outside
BOLDLY® <i>Pelargonium</i>	Vigor 3	6.0 - 6.5/1.0 - 1.5	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Moderate	Spring through Summer Finish. 4-8" pots, 1 ppp; 10" and larger, 3 ppp.	For 4-5", 6-8; for 6"/gallon, 8-9; for 7-9", 7-9; for 10-12", 10-12	Do not move outside until all danger of frost is past
SUNSTAR® <i>Pentas</i>	Vigor 2	5.8 - 6.2/6-9	70-75° F (21-24° C)	70-75° F (21-24° C)	50-60° F (10-16° C)	Moderate	Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 7-8; for 6"/gallon, 8-10; for 10" basket or 14" upright, 10-12	Do not move out unless temps are guaranteed to be 50-60° (10-16° C)
SUPERTUNIA® except Giant Pink, and Vista <i>Petunia</i>	Vigor 3 Vigor 4	5.5 - 5.8/1.0 - 2.0	65-72° F (18-22° C)	55-65° F (12-18° C) outdoors	40-50° F (4-10° C)	Moderate to Moist	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 8-10	First to go outside
INTENSIA® <i>Phlox</i>	Vigor 2	5.8 - 6.2/1.0 - 2.0	65-72° F (18-22° C)	55-65° F (12-18° C)	40-50° F (4-10° C) outdoors	Dry to Moderate	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	Second to go outside
MOJAVE® <i>Portulaca</i>	Vigor 2	6.0 - 6.5/<6	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Dry to Moderate	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 7-9; for 8", 8-10; for 10-12", 10-12	Last to go outside
MACHU™ Morado <i>Ruellia</i>	Vigor 3	5.8 - 6.2/6-1.5	70-75° F (21-24° C)	70-75° F (21-24° C)	65-72° F (18-22° C)	Moderate to Moist	Late Spring to Summer Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 6-8; for 8", 7-9; for 10-12", 10-12	Do not move outside until temperatures are above 60°F
ROCKIN® and UNPLUGGED® SO BLUE™ <i>Salvia</i>	Vigor 4 Vigor 2	5.8 - 6.2/6-9	65-72° F (18-22° C)	55-65° F (12-18° C)	50-60° F (10-16° C)	Moderate	Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon (best), 7-9; for 8", 8-10; for 10-12", 10-12	Second to go outside Unplugged: no outdoor finish
Sunbini® <i>Sanvitalia</i>	Vigor 2	5.8 - 6.2/0-6	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Dry to Moderate	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	Do not finish outside
WHIRLWIND® <i>Scaevola</i>	Vigor 3	5.5 - 5.8/6-9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Moderate	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	Do not finish outside
LEMON CORAL® <i>Sedum</i>	Vigor 2	5.8 - 6.2/<6	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Dry to Moderate	Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 6-7; for 6"/gallon, 8-9; for 8", 8-10; for 10-12", 10-12	Last to go outside
COLORBLAZE® Vigor 3: Royale ALLIGATOR TEARS™, Royale APPLE BRANDY®, Royale CHERRY BRANDY®, Royale PINEAPPLE BRANDY™, LIME TIME™, VELVETEEN® Vigor 4: Dipt in Wine, GOLDEN DREAMS™, REDICULOUS®, SEDONA SUNSET™, TORCHLIGHT™, Chocolate Drop, Strawberry Drop, WICKED HOT™ and WICKED WITCH™ <i>Solenostemon</i> (Coleus)		6.0 - 6.5/0.6-0.9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Moderate to High	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 5-6; for 6"/gallon, 6-8; for 8", 8-10; for 10-12", 10-12	Do not finish outside

Cultural Information for Annuals

	Vigor	pH/EC	Rooting Out Temperature	Growing Temperature	Holding Temperature	Water Requirements	Planting and Timing	Finish Times in Weeks	Spring Outdoor Finish
Persian Shield <i>Strobilanthes</i>	Vigor 3	5.8 - 6.2/6-9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Moderate to Moist	Spring to Summer Finish. Standard Plants Per Container.	For 4-5" and QT, 6-8; for 6"/gallon, 8-10	Last to go outside
SNOWSTORM® except GIANT SNOWFLAKE® <i>Sutera</i> (Bacopa)	Vigor 2 Vigor 3	5.5 - 5.8/1.0-2.0	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C) outdoors	Moderate to Moist	Early Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 8-10	Last to go outside
A-PEEL® <i>Thunbergia</i>	Vigor 4	5.8 - 6.2/6-9	65-72° F (18-22° C)	70-80° F (21-27° C)	65-70° F (18-21° C)	Moderate	Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 7-9; for 8", 8-10; for 10-12", 10-12	Last to go outside
CATALINA® and SUMMER WAVE® <i>Torenia</i>	Vigor 2 Vigor 3	5.5 - 6.2/6-9	65-72° F (18-22° C)	70-75° F (21-24° C)	70-75° F (21-24° C)	Moderate to Moist	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12	Do not finish outside
SUPERBENA® <i>Verbena</i>	Vigor 3	5.8 - 6.2/6-9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C) outdoors	Moderate to Moist	Early Spring through Fall Finish. Standard Plants Per Container.	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 8-10	Last to go outside
METEOR SHOWER® <i>Verbena</i>	Vigor 3	5.5 - 6.2/6-9	65-70° F (18-21° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Moderate to Moist	Spring through Fall Finish. 4" container - 1PPP 6" container - 1-3PPP 10" or larger - 3-5PPP	For 4-5", 5-6; for 6"/gallon, 8-10; for 10-12", 10-12	Second to go outside
'Variegata' 'Wojo's Jem' <i>Vinca</i>	Vigor 2	5.5 - 5.8/6-9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Moderate to Moist	Spring to Fall Finish. Standard Plants Per Container.	For 4-5" and QT, 5-6; for 6"/gallon, 7-8	Do not move outside until all danger of frost is past

Cultural Information for Proven Harvest®

	Vigor	pH/EC	Rooting Out Temperature	Growing Temperature	Holding Temperature	Water Requirements	Planting and Timing	Finish Times in Weeks	Spring Outdoor Finish
FIRE AWAY® Hot and Heavy <i>Capsicum</i>	Vigor 2	5.8 - 6.2/0.6 - 0.9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Moderate	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 7-9; for 10" basket or 14" upright, 10-12	Last to go outside
BERRIED TREASURE® <i>Fragaria</i>	Vigor 2	5.8 - 6.5/0.6 - 0.9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C) outdoors	Moderate to Moist	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 7-9; for 10-12", 10-12	Second to go outside
TEMPTING TOMATOES™ 'Garden Gem' 'Garden Treasure' <i>Lycopersicon</i>	Vigor 4	5.6 - 5.8/0.6 - 0.9	65-72° F (18-22° C)	65-72° F (18-22° C)	50-60° F (10-16° C)	Moderate to Moist	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 4-5; for 6"/gallon, 6-7; for 10-12", 8-10	Last to go outside
TEMPTING TOMATOES™ GOODHEARTED® <i>Lycopersicon</i>	Vigor 2	5.6 - 5.8/0.6 - 0.9	65-72° F (18-22° C)	65-72° F (18-22° C)	65-72° F (18-22° C)	Moderate to Moist	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 5-7; for 6"/gallon, 7-9; for 10" basket or 14" upright, 10-12	Last to go outside
AMAZEL BASIL® <i>Ocimum</i>	Vigor 4	6.0 - 6.5/0.6 - 0.9	65-72° F (18-22° C)	65-72° F (18-22° C)	65-72° F (18-22° C)	Moderate to Moist	Spring through Summer Finish. Standard Plants Per Container.	For 4-5", 4-5; for 6"/gallon, 5-7; for 10-12", 7-9	Last to go outside

Online Cultural Guide

When you have growing questions, you can access our **online growing guide** for answers.

By providing easy, 24/7 access to this information, we save you time – and money – so you can spend it tending to business and building that business, too.

Grower Culture on provenwinners.com

- Culture search by variety
- Culture groups
- New variety culture
- Flowering timing charts
- Outdoor growing tips
- Perennial timing

Cultural Information and Growing Tips

To produce the highest quality plant material, growers must have detailed crop culture information. In order to help our grower customers produce the best finished crops, our propagators have developed this user-friendly guide which categorizes plants by their basic cultural needs – pH, growing temperature, and fertilization. The goal is to aide our grower customers in setting up custom growing environments for plants grouped by their basic needs. Visit provenwinners.com for more detailed cultural information on all Proven Winners varieties.

Proven Winners® Annuals

Growing Temp	A pH 5.5 - 5.8	B pH 5.8 - 6.2	C pH 6.0 - 6.5
A 55°-65° F (12-18° C)	Superbells® <i>Calibrachoa</i> , Sunsatia®, Aromance® Pink and other <i>Nemesia</i> , Supertunia® <i>Petunia</i>	Butterfly <i>Argyranthemum</i> , Campfire® Fireburst and Goldilocks Rocks® <i>Bidens</i> , Lady Godiva® <i>Calendula</i> , High Noon™ <i>Euryops</i> , Heat It Up® <i>Gaillardia</i> , Karalee® and Stratosphere™ <i>Gaura</i> , Beth's Blue® and Patti's Pink™ <i>Isotoma</i> , Bright Lights® <i>Osteospermum</i> , Intensia® <i>Phlox</i> , Rockin'® <i>Salvia</i> and Unplugged® So Blue™ <i>Salvia</i> , 'Variegata' and 'Wojo's Jem' <i>Vinca</i>	Silver Bullet® <i>Artemisia</i> , Pink Chablis® <i>Lamium</i> , Princess and Knight <i>Lobularia</i>
B 65°-72° F (18-22° C)	Pegasus® <i>Begonia</i> , Silver Falls™ <i>Dichondra</i> , Suncredible® Yellow <i>Helianthus</i> , Tempting Tomatoes™ 'Garden Gem', 'Garden Treasure' and Goodhearted™ <i>Lycopersicon</i> , Whirlwind® <i>Scaevola</i> , and Snowstorm® <i>Sutera</i> (Bacopa)	Artist® Blue <i>Ageratum</i> , Asparagus Fern <i>Asparagus</i> , Double Delight™, Double Up™ and Surefire® <i>Begonia</i> , Fire Away® Hot and Heavy <i>Capsicum</i> , Toffee Twist <i>Carex</i> , Señorita Rosalita® and Señorita Blanca® <i>Cleome</i> , Mystic Illusion <i>Dahlia</i> , Spikes <i>Dracaena</i> , Diamond <i>Euphorbia</i> , English Ivy <i>Hedera</i> , Rockapulco® <i>Impatiens</i> , Sunpatiens® Compact <i>Impatiens</i> , Blue Mohawk® <i>Juncus</i> , Laguna® <i>Lobelia</i> , Charmed® Wine <i>Oxalis</i> , Vertigo® <i>Pennisetum</i> , Sunbini® <i>Sanvitalia</i> , Lemon Coral® <i>Sedum</i> , Persian Shield <i>Strobilanthes</i> , Superbena® and Meteor Shower® <i>Verbena</i>	Flambé® <i>Chrysocephalum</i> , 'Coffee Cups' and Heart of the Jungle® <i>Colocasia</i> , Fairy Dust® <i>Cuphea</i> , ColorBlaze® Coleus, Baby Tut®, King Tut® and Prince Tut™ <i>Cyperus</i> , Berried Treasure® <i>Fragaria</i> , Truffula™ Pink <i>Gomphrena</i> , Boldly® <i>Pelargonium</i> , Mojave® <i>Portulaca</i> , Amazel Basil® <i>Ocimum</i>
C 70°-75° F (21-24° C)		Angelface® <i>Angelonia</i> , Licorice Plant <i>Helichrysum</i> , Hippo® <i>Hypoestes</i> , Luscious® <i>Lantana</i> , GoldDust® <i>Mecardonia</i> , 'Fireworks', Purple Fountain Grass and 'Sky Rocket' <i>Pennisetum</i> , Sunstar® <i>Pentas</i> , Machu™ Morado <i>Ruellia</i> , Fiber Optic Grass <i>Scirpus</i> , A-Peel® <i>Thunbergia</i> , Catalina® and Summer Wave® <i>Torenia</i>	Endless™ <i>Browallia</i> , Vermillionaire® <i>Cuphea</i> , Blue My Mind® <i>Evolvulus</i> , Illusion®, Sweet Caroline, Blackie and Margarita <i>Ipomoea</i> , Infinity® <i>New Guinea Impatiens</i>
Growing Temp	D pH 5.5 - 6.5		E pH 6.2 - 7.0
D 70°-85° F (21-29° C)	Heart to Heart™ <i>Caladium</i>		Toucan® <i>Canna</i>

In growing group codes, the first letter represents the Growing Temp and the second letter represents the pH.

Fertilizer rate for all plants listed above is 150-200 Constant Liquid Feed (CLF) with the following exceptions:

75-100 CLF

Endless™ *Browallia*
Heart to Heart™ *Caladium*

100-150 CLF

Asparagus Fern *Asparagus*
Double Delight™ *Begonia*
Double Up™ *Begonia*
Toffee Twist *Carex*
Berried Treasure® *Fragaria*
Rockapulco® *Impatiens*

Totally Tomatoes™ 'Garden Gem', 'Garden
Treasure' and Goodhearted® *Lycopersicon*
Infinity® *New Guinea Impatiens*
'Fireworks', Purple Fountain Grass,
'Sky Rocket' and Vertigo® *Pennisetum*
Sunstar® *Pentas*
Mojave® *Portulaca*
Sunbini® *Sanvitalia*
Fiber Optic Grass *Scirpus*
Lemon Coral® *Sedum*

130-150 CLF

Princess and Knight *Lobularia*

200-300 CLF

Toucan® *Canna*
Señorita *Cleome*
Illusion® and Sweet Caroline *Ipomoea*
Boldly® *Pelargonium*
Intensia® *Phlox*
Supertunia® *Petunia*
A-Peel® *Thunbergia*

Culture Notes and Groups:

pH:

- A: pH 5.5-5.8
- B: pH 5.8-6.2
- C: pH 6.0-6.5

EC:

- A: < .6
- B: .6-.9
- C: 1.0-2.0

Well-Balanced Fertilizer

N-P-K, 2:1:1.5 with adequate amounts of micronutrients
 Low: 100-150 ppm Constant Liquid Feed
 Medium: 150-200 ppm Constant Liquid Feed
 High: 200-300 ppm Constant Liquid Feed

Fertilizer Disclaimer:

It is a good practice to clear water (leach) once every 3-4 times you water to lower soluble salt levels in the media. EC should also be monitored using weekly EC measurements.

Rooting Out Temperatures:

The first 10 days of container growth: establishing root system to outside edge of container from the newly planted liner.

65-72° F (18-22° C)

Growing Temperatures:

Once roots are to the edge of the container – growing on the plant and bulking up foliage and flowers.

- A: 55-65° F (12-18° C)
- B: 65-72° F (18-22° C)
- C: 70-75° F (21-24° C)
- D: 70-85° F (21-29° C)

Night temperatures should be run 5° F (-15° C) lower than day temperatures

Holding Temperatures:

(For toning crops and/or for when you have to hold the crop when it is ready to go)

- A: 40-50° F (4-10° F) outdoors*
- B: 50-60° F (10-16° F)
- C: Maintain Growing Temperatures

Light Levels:

High: Full sun crops need very high, bright light

Moderate: Sun to partial shade crops, High to moderate light

Low: Partial to full shade crops, Moderate to low light

Moisture Regimes:

Transplant:

Water lightly to maintain moisture level within root zone until roots reach the side of the finished container. Once roots are developed to the side of the pot, see finish watering regime.

Finish Watering Regimes:

- A: Dry to Moderate: Water thoroughly without over-saturating; keep moist during root development; allow soil surface to dry completely before watering after the crop is rooted to the edge of the pot.
- B: Moderate to Moist: Water thoroughly without over-saturating; keep moist but not wet throughout entire growth cycle.
- C: Moist to Wet: Water thoroughly and keep moisture constant throughout entire growth cycle.

Standard Plants Per Pot (PPP):

- 4-5": 1 ppp
- 6": 1-2 ppp
- Gallon: 1-3 ppp
- 8": 3 ppp
- 10-12": 3-5 ppp

More cuttings per pot will yield faster finishing times.

The higher light and temperatures experienced with summer production will dramatically reduce crop times.

Soil Mix for Container Growing:

Use a high-quality, professional grade soil mix that is adjusted to work with your water quality and growing style to help manage pH and water control.

Use a well-drained, high-quality professional grade soil mix. A peat-lite based soil or equivalent that gives you 60% organic matter and 40% secondary aggregates, such as perlite, rock-wool, coir, and/or bark, will provide proper soil porosity (well-drained soil).

Growth Regulator Disclaimer:

All PGR rates should be trialed by each individual grower before applications are made to entire crop to ensure desired results. All rates are given as a spray unless otherwise stated. Summer production may require higher PGR rates when crops are grown indoors. Proven Winners and its affiliates are not responsible for misapplication or misuse of these products. Check manufacturers' labels for approved rates and usage recommendations.

Pest Management:

A weekly scouting program is suggested. Monitor for common greenhouse pests. Treat accordingly, using label instructions. Be sure to rotate chemical classes to guard against development of resistance to chemicals.

Disease Management:

Treat with preventative broad spectrum fungicidal drench one week after transplant. Scout crops regularly (at least once a week) for disease development. Good air circulation, control of humidity, and good sanitation practices are critical. Good sanitation practices include keeping greenhouses clean at all times, eliminating weeds and debris, disinfecting equipment and greenhouses as often as possible, and keeping hose ends off the floor. Good water management practices are critical to healthy plant growth.

Day Neutral:

Ability of plants to flower freely regardless of daylength.

Spring Outdoor Finish:

Many Proven Winners crops can be finished outdoors under cool temperatures. Finishing under cool temperatures will allow you to expand production area, allows additional spacing inside greenhouse, allows additional turns, and improves quality of the product. Those plants finished outdoors will need additional time to finish. Specific finishing times are difficult to predict due to variability in weather patterns. Outdoor mum production areas are perfect to use as spring cold temperature finishing space.

Before plants are moved outside, they should be acclimated to colder temperatures using holding temperatures stated above.

Ideally, plants should be moved outdoors on an overcast day, with moderate temperatures, little wind, and no severe cold (freezing temperatures) forecasted for the next 24 hours. Often a full moon will mean clear skies, which will allow temperatures to drop more than expected. To maintain proper nutrition after a heavy rain, a light water application with 400-500 ppm N can be used on the already wet plants (this high fertilizer application on dry plants will result in burn).

Plants vary in ability to withstand cold temperature finishing. To help you manage when crops can be placed outdoors, we have split our plant material into 3 groups (Not all crops can be finished outdoors and will be noted as No). In the case of unusually cold temperatures, you should have frost protection measures ready (frost cloth, sprinklers, or ability to move plants under cover).

It is generally too cold for insects and disease to prosper. You should continue to scout for problems, however, chemical control measures probably won't be needed. Plant growth regulators will not be needed to control growth.

Growers who wish to try this method of finishing plants should trial a small portion of their plant material the first year to gain experience and comfort. Each year will differ and growers need to be prepared to adapt as conditions change.

A: First to go outside – 33-36° F (0-2° C):

These plants can be placed outside the earliest. When temperatures are not forecasted to drop below freezing for the next 10 days you should be able to move these plants outdoors. Should the temperature be forecasted to drop below 28° F (-2° C), protection measures should be taken.

B: Second to go outside – 38-42° F (3-5° C):

This is the second wave of plant material. These plants can be moved outside when odds are that temperatures are much less likely to drop below freezing. Protection measures should be taken for this group when temperatures are forecasted to reach 32° F (0° C). Average daily temperatures should be higher than when group A material was moved out. Generally, a few weeks after group A is moved out, group B can be moved outside.

C: Last to go outside – 45° F + (7° C +):

This is the third wave of plant material. These plants can be moved outside when temperatures are no longer likely to reach freezing. A hard frost will cause damage to this group. If a hard frost is forecasted, protection measures should be implemented.

For questions please call the grower hotlines:

Nordic Nurseries – 604.607.7074

Ed Sobkowich Greenhouses – 905.945.8870



Need help? Give us a call.

We're totally committed to helping you grow quality crops.

* Sometimes this temperature is indoors when prompted not to finish the plants outdoors.

Index

<i>Acalypha pendula</i>	
Firetail Chenille Plant	112
<i>Ageratum</i>	
ARTIST® Blue	29
<i>Agrostis stolonifera</i>	
Green Twist	112
<i>Anagallis</i>	
‘Wildcat Blue’	112
‘Wildcat Mandarin’	112
<i>Angelonia</i>	
ANGELFACE® Series	28
ANGELFACE® Cascade Series	29
ANGELFACE® Super Series	27
<i>Argyranthemum frutescens</i>	
GOLDEN BUTTERFLY®	26
PURE WHITE BUTTERFLY®	26
VANILLA BUTTERFLY®	26
<i>Artemisia stelleriana</i>	
SILVER BULLET®	96
SILVER CASCADE®	112
<i>Asparagus densiflorus ‘Sprengeri’</i>	
Asparagus Fern	96
<i>Bacopa (Sutera cordata)</i>	
SNOWSTORM® Series	30
<i>Begonia</i>	
DOUBLE DELIGHT™ Series	33
PEGASUS®	97
BELLECONIA™ Series	112
SUMMERWINGS® Series	112
<i>Begonia benariensis</i>	
SUREFIRE® Series	32
<i>Begonia semperflorens</i>	
DOUBLE UP™ Series	34
<i>Begonia x hiemalis</i>	
SOLENIA® Series	112
<i>Bidens</i>	
CAMPFIRE® Flame	31
GOLDDLOCKS ROCKS®	31
<i>Brachyscome</i>	
BLUE ZEPHYR™	114
<i>Browallia</i>	
ENDLESS™ Series	32
<i>Caladium</i>	
HEART TO HEART™ Series	36
<i>Calendula</i>	
LADY GODIVA® Series	35
<i>Calibrachoa</i>	
MILLION BELLS® Series	114
SUPERBELLS® Series	38
SUPERBELLS® TableTop™ Series	39
<i>Canna x generalis</i>	
TOUCAN® Series	42
<i>Capsicum annuum</i>	
FIRE AWAY® Hot and Heavy	108
<i>Chlorophytum comosum</i>	
Spider Plant (White Edge)	114
<i>Chrysocephalum apiculatum</i>	
FLAMBÉ® Yellow	43
<i>Cleome</i>	
SEÑORITA BLANCA®	43
SEÑORITA ROSALITA®	43
<i>Coleus (Solenostemon scutellarioides)</i>	
COLORBLAZE® Series	44
COLORBLAZE® Drop Series	46
COLORBLAZE® Royale Series	46
Proven Selections varieties	114

<i>Colocasia esculenta</i>	
‘Coffee Cups’	47
HEART OF THE JUNGLE®	47
<i>Cosmos astrosanguineus</i>	
Choca Mocha	114
<i>Cuphea</i>	
VERMILLIONAIRE®	48
<i>Cuphea llavea</i>	
TINY MICE®	114
<i>Cuphea ramosissima</i>	
FAIRY DUST® Pink	48
<i>Dahlia</i>	
Mystic Illusion	50
<i>Dichondra argentea</i>	
SILVER FALLS™	97
<i>Draecaena indivisa</i>	
Spikes	98
<i>Euphorbia</i>	
DIAMOND DELIGHT®	49
DIAMOND MOUNTAIN®	49
DIAMOND SNOW®	49
<i>Euryops</i>	
HIGH NOON™	50
<i>Evolvulus</i>	
BLUE MY MIND®	51
<i>Fragaria ananassa</i>	
BERRIED TREASURE® Series	108
<i>Fuchsia</i>	
Wilma Verslot	114
<i>Gaillardia</i>	
HEAT IT UP® Series	52
<i>Gaura</i>	
KARALEE® Petite Pink	53
STRATOSPHERE™ Series	53
<i>Geranium (Pelargonium)</i>	
BOLDLY® Series	72
DAREDEVIL® Series	114
TIMELESS™ Series	114
<i>Glechoma hederacea</i>	
Dappled Light	116
<i>Gomphrena pulchella</i>	
TRUFFULA™ Pink	51
<i>Grasses (Annual)</i>	
GRACEFUL GRASSES® Series	54
<i>Hedera helix</i>	
Glacier	98
PATRICIA®	98
Ritterkreuz	116
White Ripple	116
Yellow Ripple	98
<i>Helianthus</i>	
Suncredible® Yellow	56
<i>Helichrysum petiolare</i>	
Licorice Splash	99
Petite Licorice	99
White Licorice	99
<i>Helichrysum thianschanicum</i>	
Icicles	99
<i>Heliotrope arborescens</i>	
Fragrant Blue	116
Marine	116
<i>Herbs</i>	
‘Munstead’ Lavender	116
Greek Oregano	116
Arp Rosemary	116
Spearmint	116
English Thyme	116
Lemon Thyme	116

<i>Hypoestes phyllostachya</i>	
HIPPO® Series	57
<i>Impatiens</i>	
SUNPATIENS® Compact Series	116
<i>Impatiens walleriana</i>	
ROCKAPULCO® Series	58
<i>Ipomoea batatas</i>	
Black Heart	118
Blackie	103
ILLUSION® Series	100
Margarita	103
SWEET CAROLINE Series	100
<i>Isotoma</i>	
BETH’S BLUE®	59
PATTI’S PINK™	59
<i>Lamium maculatum</i>	
PINK CHABLIS®	103
<i>Lantana camara</i>	
LUSCIOUS® Series	60
<i>Lobelia erinus</i>	
LAGUNA® Series	63
<i>Lobularia</i>	
BLUSHING PRINCESS®	64
DARK KNIGHT™	64
MOONLIGHT KNIGHT™	64
SNOW PRINCESS®	64
WHITE KNIGHT®	64
<i>Lophospermum</i>	
LOFOS® Series	118
<i>Lysimachia congestiflora</i>	
WAIKIKI SUNSET™	118
<i>Lysimachia nummularia</i>	
Goldilocks	118
<i>Lycopersicon esculentum</i>	
TEMPTING TOMATOES™	109
<i>Mecardonia</i>	
GOLDDUST®	65
<i>Muehlenbeckia</i>	
Big Leaf	118
<i>Nemesia fruticans</i>	
Bluebird	67
AROMANCE® Pink	67
<i>Nemesia</i>	
JUICY FRUITS® Series	118
SUNSATIA® Series	66
<i>New Guinea Impatiens</i>	
INFINITY® Series	68
<i>Ocimum</i>	
AMAZEL BASIL®	110
<i>Osteospermum</i>	
BRIGHT LIGHTS® Series	70
<i>Oxalis regnellii</i>	
CHARMED® Wine	104
<i>Oxalis vulcanicola</i>	
MOLTEN LAVA™	118
ZINFANDEL™	118
<i>Pelargonium (Geranium)</i>	
BOLDLY®	72
DAREDEVIL®	114
<i>Pentas lanceolata</i>	
SUNSTAR®	73

<i>Petunia</i>	
CRAZYTUNIA® Series	118
SUPERTUNIA® Charm Series	76
SUPERTUNIA® Series	74
SUPERTUNIA® Trailing Series	77
SUPERTUNIA® MINI VISTA™ Series	78
SUPERTUNIA VISTA® Series	79
SURFINIA® Series	120
<i>Phlox</i>	
INTENSIA® Series	83
<i>Plectranthus coleoides</i>	
Variiegata	120
<i>Portulaca grandiflora</i>	
MOJAVE® Series	82
<i>Ruellia simplex</i>	
MACHU™ Morado	83
<i>Salvia</i>	
ROCKIN® Series	85
ROCKIN® ‘Golden Delicious’	104
UNPLUGGED® SO BLUE™	84
<i>Salvia guaranitica</i>	
Black & Blue	120
<i>Sanvitalia procumbens</i>	
SUNBINI®	84
<i>Scaevola aemula</i>	
WHIRLWIND® Series	86
<i>Sedum mexicanum</i>	
LEMON CORAL®	105
<i>Senecio candicans</i>	
ANGEL WINGS®	120
<i>Streptocarpella</i>	
Concord Blue	120
<i>Strobilanthes dyerianus</i>	
Persian Shield	105
<i>Succulents</i>	
<i>Aeonium</i> Kiwi	120
<i>Aptenia</i> Variiegata	120
<i>Crassula</i> varieties	120
<i>Echeveria</i> varieties	122
<i>Euphorbia</i> Firesticks	122
<i>Graptosedum</i> Vera Higgins	122
<i>Graptoveria</i> Fred Ives	122
<i>Kalanchoe</i> varieties	122
<i>Pachyphytum</i> Silver Jelly Bean	124
<i>Peperomia</i> Happy Bean	124
<i>Sedum</i> varieties	124
<i>Sempervivum</i> Kalinda	124
<i>Senecio</i> varieties	124
<i>Thunbergia alata</i>	
A-PEEL® Series	87
<i>Torenia</i>	
CATALINA® Series	88
SUMMER WAVE® Series	89
<i>Verbena</i>	
SUPERBENA® Series	90
SUPERBENA® Royale Series	92
SUPERBENA SPARKLING® Series	91
<i>Verbena bonariensis</i>	
METEOR SHOWER®	93
<i>Vinca maculata</i>	
‘Wojo’s Jem’	106
<i>Vinca major</i>	
‘Variiegata’	106
<i>Vinca minor</i>	
‘Illumination’	124