

Crop	Series/Variety	Soil pH	Light Levels (fc)	Temperature Day	Temperature Night	Fertilization (ppm N)	No. of Pinches	Crop Time from Rooted Cutting*			Plant Growth Regulators (S) spray (D) drench	Pests	Diseases	Comments
								4 to 5-In. (10 to 13-Cm) Pots	6-In. (15-Cm) Pots, Gallons	10 to 12-In. (25 to 30-Cm) Pots or Baskets				
ALTERNANTHERA	Grenadine	5.4-5.8	4,000-8,000	65-73°F (18-22°C)	59-64°F (15-17°C)	175-225	0-2	1 ppp 4-6 weeks	2-3 ppp 6-8 weeks	4-5 ppp 8-10 weeks	Generally not needed. Do not use Cycocel.	Whitefly, spider mites	—	Pinch early in propagation (10-12 days) to increase branching.
ANGELONIA	AngelMist®	5.8-6.2	6,000-10,000	74-85°F (23-29°C)	62-70°F (16-21°C)	175-225	0-2	1 ppp 6-8 weeks	1-3 ppp 7-9 weeks	3-5 ppp 10-12 weeks	Generally not needed. B-Nine(S) 1,500-3,000 ppm and Cycocel 750-1,000 ppm tank mix(S). Avoid Florel use.	Whitefly, caterpillars	Root rot, <i>Botrytis</i>	High light will significantly improve plant quality by encouraging branching, earlier flowering and the ideal plant habit growth. Best-suited to mid to late Spring and Summer programs.
ANGELONIA	Archangel™	5.8-6.2	6,000-10,000	74-85°F (23-29°C)	62-70°F (16-21°C)	175-225	0-2	1 ppp 5-8 weeks	1-3 ppp 7-9 weeks	3-5 ppp 10-12 weeks	Generally not needed. B-Nine(S) 1,500-3,000 ppm and Cycocel 750-1,000 ppm tank mix(S). Avoid Florel use.	Whitefly, caterpillars	Root rot, <i>Botrytis</i>	High light will significantly improve plant quality by encouraging branching, earlier flowering and the ideal plant habit growth. Best-suited to mid to late Spring and Summer programs.
ARGYRANTHEMUM	Madeira™, Butterfly	5.8-6.2	6,000-9,000	65-79°F (18-26°C)	50-61°F (10-16°C)	225-300	0-1	1 ppp 6-9 weeks	1-3 ppp 7-10 weeks	3-5 ppp 9-12 weeks	B-Nine 1,500-2,000 ppm and Cycocel 750-1,000 ppm tank mix(S) or Bonzi(D) 2-5 ppm to control growth.	Whitefly, leafminer, aphids	Root rot, <i>Botrytis</i>	High light and cool temperatures produce high-quality plants.
BACOPA	Abunda™	5.4-5.8	4,000-8,000	65-76°F (18-24°C)	56-61°F (13-16°C)	175-225	1-2	1-2 ppp 5-7 weeks	2-3 ppp 7-10 weeks	4-5 ppp 8-12 weeks	Generally not needed. B-Nine(S) 1,000-1,500 ppm can be used sparingly to tone and control spread. Florel(S) 150-200 ppm will reduce early flowering and increase branching.	Thrips, aphids	Root rot, <i>Botrytis</i>	Pinch as needed to shape. Grow Bacopa bright and cool to maximize branching and encourage best possible habit. Test soil regularly for high pH/iron deficiency. Free-branching and trailing Abunda Giant White is ideal for combination pots, baskets and 4 to 6-in. (10 to 15-cm) pots.
BIDENS	Sunbeam	5.8-6.2	5,000-9,000	59-76°F (15-24°C)	53-61°F (11-16°C)	175-225	1-3	1 ppp 5-7 weeks	2-3 ppp 6-8 weeks	4-5 ppp 6-9 weeks	B-Nine(S) 2,500 ppm. Also responds to Sumagic(S) 3-5 ppm or Sumagic(D) 0.25 ppm.	Fungus gnats	Root and stem rot	Pinch for better branching and shape.
BIDENS	Sun Kiss	5.8-6.2	5,000-9,000	59-76°F (15-24°C)	53-61°F (11-16°C)	175-225	1-3	1 ppp 4-6 weeks	2-3 ppp 5-7 weeks	4-5 ppp 10-12 weeks	Generally not needed. Responsive to B-Nine(S) 2,500 ppm.	Fungus gnats	Root and stem rot	Sun Kiss is a compact Bidens.
BRACHYSCOME	Amethyst, Enduring Blue	5.8-6.2	5,000-9,000	65-73°F (18-22°C)	56-61°F (13-16°C)	175-225	0-1	1 ppp 4-6 weeks	2-3 ppp 6-8 weeks	4-5 ppp 12-14 weeks	Generally not needed. Enduring Blue is more naturally compact than Amethyst.	Thrips, whitefly	<i>Botrytis</i> , <i>Thielaviopsis</i>	Cool temperatures and high light will produce the best habit. Amethyst is best-suited for larger finish containers (1 gallon and up), while Enduring Blue is compact and suitable for finish containers up to 1 gallon.
BRACTEANTHA (STRAWFLOWER)	Basket Bon Bon, Dreamtime®	5.8-6.2	5,000-8,000	65-76°F (18-24°C)	56-61°F (13-16°C)	175-225	0-1	1 ppp 6-8 weeks	1-2 ppp 7-9 weeks	3-5 ppp 10-12 weeks	Generally not needed. Is responsive to Bonzi(S) 20-30 ppm or Sumagic(S) 10-20 ppm to maintain habit as needed.	Thrips, aphids, whitefly	Root and stem rot	High light and cool temperatures will improve plant quality significantly.
CALIBRACHOA	Cabaret®, Can-Can®	5.4-5.8	5,000-8,000	71-76°F (21-24°C)	50-58°F (10-14°C)	225-300	1-2	1 ppp 6-9 weeks	1-2 ppp 7-11 weeks	3-5 ppp 8-12 weeks	Use B-Nine(S) 2,500-5,000 ppm, Bonzi(D) 3-8 ppm or Florel(S) 300-500 ppm applied 1 time up to 3 times for large baskets to maintain habit as needed.	Thrips, aphids, leafminer	Root rot	Cooler air temperatures and high light will reduce or eliminate any need for plant growth regulators. Maintain pH at 5.2-5.8 to optimize plant health. Crop times will be shortest as days lengthen in Spring. Apply preventative broad-spectrum fungicide drench early (7-10 days after transplant). Avoid saturated media and excessive feed levels.
CHRYSOCEPHALUM APICULATUM	Silver Fox	5.8-6.2	6,000-9,000	71-73°F (21-22°C)	59-61°F (15-16°C)	175-225	1	1 ppp 6-7 weeks	1 ppp 9-10 weeks	3 ppp 9-10 weeks	None	—	—	Do not overwater.
COLEUS	Aurora™, Lava™ Rose	5.8-6.2	4,000-10,000	74-85°F (23-29°C)	59-70°F (15-21°C)	175-225	0-2	1 ppp 5-7 weeks	1-2 ppp 6-8 weeks	3-4 ppp 8-11 weeks	Generally not needed. Sumagic(S) 5-10 ppm or a B-Nine 2,500-3,500 ppm and Cycocel 1,000-1,500 tank mix(S) can be used to maintain habit as needed.	Thrips, aphids, whitefly	Root rot	Aurora and Lava Rose Coleus will generally not require any PGR applications during production. Plants should be pinched only as needed since Aurora and Lava Rose are extremely free-branching.
COLEUS	Electric Lime®, Henna, Indian Summer, Mint Mocha, Redhead, Sultana, Trusty Rusty, Wasabi, Other	5.8-6.2	4,000-10,000	74-85°F (23-29°C)	59-70°F (15-21°C)	175-225	0-2	1 ppp 5-7 weeks	1-3 ppp 6-8 weeks	4-5 ppp 8-11 weeks	Is responsive to B-Nine(S) 2,500-3,500 ppm and Cycocel(S) 1,000-1,500 ppm tank mix or Sumagic(S) 5-10 ppm.	Whitefly, aphids, thrips	—	Pinch early to shape. Scout plants regularly for whitefly. Avoid crowding at all stages.
CUPHEA	Allyson Heather	5.4-5.8	6,000-12,000	71-79°F (21-26°C)	59-64°F (15-17°C)	175-225	1-2	1-3 ppp 6-8 weeks	2-5 ppp 7-9 weeks	3-6 ppp 10-12 weeks	None	Whitefly, aphids	<i>Botrytis</i> , Root rot	Pinch as needed to shape. Fertilize regularly. Crop times will be shortest under high light.
CUPHEA	Firecracker	5.4-5.8	6,000-12,000	71-79°F (21-26°C)	59-64°F (15-17°C)	175-225	1-2	1-2 ppp 6-8 weeks	1-2 ppp 7-9 weeks	3-5 ppp 10-12 weeks	None	Whitefly, aphids	<i>Botrytis</i> , Oedema, Root rot	Pinch as needed to shape. Keep soil moderately dry and maintain adequate air circulation during finishing to avoid Oedema. Fertilize regularly. Crop times will be shortest under high light.
DAHLIA	Dahlietta®	5.8-6.2	4,000-6,000	65-76°F (18-24°C)	59-64°F (15-17°C)	225-300	0-1	1 ppp 6-8 weeks	1-2 ppp 7-9 weeks	—	Is responsive to B-Nine 2,500-4,000 ppm and Cycocel 1,000-1,500 ppm tank mix(S).	Thrips, leafminer	<i>Botrytis</i>	Night-break lighting will reduce likelihood of tuber formation.
DAHLIA	Delicious™	5.8-6.2	4,000-6,000	65-76°F (18-24°C)	59-64°F (15-17°C)	225-300	0-1	—	1-3 ppp 8-10 weeks	3-4 ppp 10-12 weeks	Is responsive to B-Nine 2,500-4,000 ppm and Cycocel 1,000-1,500 ppm tank mix(S).	Thrips, leafminer	<i>Botrytis</i>	During short days, night-break lighting will reduce likelihood of tuber formation.
DIASCIA	Juliet™, Romeo™	5.8-6.2	5,000-8,000	62-76°F (16-24°C)	35-52°F (1-11°C)	175-225	1-2	1 ppp 5-7 weeks	1-2 ppp 7-9 weeks	3-4 ppp 9-11 weeks	Use B-Nine(S) 3,000-5,000 ppm as needed to maintain habit. Florel(S) 200-300 ppm can be used to improve branching.	Thrips, aphids, leafminer	Root rot	If grown cool and with high light levels, Juliet and Romeo Diascia will generally require little, if any, PGRs.

* ppp=plants per pot

** Perennial varieties that can be grown without cold treatment for Spring and Summer sales.

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								4 to 5-In. (10 to 13-Cm) Pots	6-In. (15-Cm) Pots, Gallons	10 to 12-In. (25 to 30-Cm) Pots or Baskets				
ERYSIMUM	Apricot Twist, Pastel Patchwork	5.8-6.2	5,000-9,000	62-67°F (16-19°C)	56-61°F (13-19°C)	175-225	0-1	1 ppp 7-10 weeks	1-2 ppp 8-12 weeks	3-5 ppp 14-17 weeks	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	Erysimum will start to flower from mid-Spring (in milder climates) to early Summer (in northern areas).
EUPHORBIA HYPERICIFOLIA	Breathless®	5.8-6.2	6,000-9,000	65-76°F (18-24°C)	59-67°F (15-19°C)	175-225	1	1 ppp 5-7 weeks	1-3 ppp 6-9 weeks	3-5 ppp 9-11 weeks	B-Nine(S) 2,500 ppm, Cycocel(S) 750 ppm tank mix 7-10 days after transplant. Do not use Florel.	—	—	Sensitive to overwatering. Pinch for a better habit especially in larger containers.
EVOLVULUS	Blue Daze	5.8-6.2	5,000-9,000	74-79°F (23-26°C)	59-64°F (15-17°C)	175-225	1-2	1 ppp 6-8 weeks	1-2 ppp 8-9 weeks	3-4 ppp 10-12 weeks	None	Whitefly, aphids	<i>Pythium</i> , <i>Botrytis</i>	Pinch as needed to shape. Fertilize regularly. Avoid extremely high humidity or saturated media, both of which will encourage <i>Botrytis</i> .
FELICIA	Pinwheel™ Periwinkle	5.8-6.2	5,000-9,000	65-76°F (18-24°C)	56-61°F (13-16°C)	175-225	1-2	1 ppp 8-10 weeks	2-3 ppp 9-11 weeks	4-5 ppp 10-12 weeks	Is responsive to B-Nine(S) 2,500-4,000 ppm and Cycocel 1,000-1,500 ppm tank mix(S).	Thrips	Root and stem rot	Allow soil to dry moderately between waterings. Pinch as needed to build and shape the plant. Crop time can be shortened slightly by increasing average daily temperature.
GAURA LINDHEIMERI**	Ballerina™, Belleza, Siskiyou Pink	5.8-6.2	5,000-9,000	71-76°F (21-24°C)	56-61°F (13-16°C)	175-225	1-2	1 ppp 7-10 weeks	1-3 ppp 9-12 weeks	3-4 ppp 11-13 weeks	Use B-Nine(S) 3,000-4,000 ppm, Bonzi(S) 30-50 ppm or Sumagic(S) 15-30 ppm to control final plant height.	Whitefly, aphids	<i>Botrytis</i> , Root rot	Pinch Gaura shortly after transplanting to encourage a full habit at flowering.
GERANIUM, INTERSPECIFIC	Galleria®	5.8-6.2	3,500-5,000	65-76°F (18-24°C)	62-67°F (16-19°C)	225-300	0	1 ppp 8-9 weeks	1-2 ppp 9-10 weeks	4-5 ppp 11-13 weeks	Cycocel(S) 750-1,500 ppm to control growth; Florel(S) 200-300 ppm to improve branching.	Fungus gnats, thrips, aphids, mites	<i>Botrytis</i> , <i>Pythium</i> , <i>Xanthomonas</i>	Keep foliage dry. Provide good air circulation.
GERANIUM, IVY	Precision™	5.8-6.2	2,500-4,000	65-76°F (18-24°C)	62-67°F (16-19°C)	225-300	1-2	1 ppp 8-10 weeks	1-2 ppp 9-10 weeks	4-5 ppp 11-13 weeks	Cycocel(S) 750-1,500 ppm to control growth; Florel(S) 200-300 ppm to improve branching.	Fungus gnats, thrips, aphids, mites	<i>Botrytis</i> , Oedema, <i>Pythium</i> , <i>Xanthomonas</i>	Avoid drastic swings in soil moisture to reduce Oedema.
GERANIUM, ZONAL	Allure™, Designer	6.2-6.6	3,500-6,000	65-76°F (18-24°C)	62-67°F (16-19°C)	225-300	0	1 ppp 8-9 weeks	1-2 ppp 9-10 weeks	4-5 ppp 11-13 weeks	Cycocel(S) 750-1,000 ppm to control growth; Florel(S) 200-300 ppm to improve branching.	Fungus gnats, thrips, aphids, mites	<i>Botrytis</i> , <i>Pythium</i> , <i>Xanthomonas</i>	Keep foliage dry. Provide good air circulation.
GERANIUM, ZONAL	Fantasia®	6.2-6.6	3,500-6,000	65-76°F (18-24°C)	62-67°F (16-19°C)	225-300	0	1 ppp 8-9 weeks	1-2 ppp 9-10 weeks	4-5 ppp 11-13 weeks	Cycocel(S) 750-1,000 ppm to control growth; Florel(S) 200-300 ppm to improve branching.	Fungus gnats, thrips, aphids, mites	<i>Botrytis</i> , <i>Pythium</i> , <i>Xanthomonas</i>	Fantasia Geraniums usually do not require PGRs to produce high-quality plants.
GERANIUM, ZONAL	Presto™	6.2-6.6	3,500-6,000	65-76°F (18-24°C)	62-67°F (16-19°C)	225-300	0	1 ppp 8-9 weeks	1-2 ppp 9-10 weeks	4-5 ppp 11-13 weeks	Generally not needed. Cycocel(S) 750-1,000 ppm to control growth; Florel(S) 200-300 ppm to improve branching.	Fungus gnats, thrips, aphids, mites	<i>Botrytis</i> , <i>Pythium</i> , <i>Xanthomonas</i>	Presto Geraniums usually do not require PGRs to produce high-quality plants. They are naturally compact, well-branched and early to flower.
HELICHRYSUM	Licorice	5.8-6.2	4,000-9,000	65-76°F (18-24°C)	50-61°F (10-16°C)	175-225	1-2	1 ppp 5-7 weeks	2-3 ppp 7-9 weeks	3-5 ppp 9-11 weeks	None	Fungus gnats, whitefly	Root rot	Avoid saturated media at any time. Pinch regularly to shape.
HELIOTROPE	Baby Blue, Marine	5.8-6.2	5,000-9,000	71-76°F (21-24°C)	50-61°F (10-16°C)	175-225	1-2	1 ppp 6-7 weeks	1-2 ppp 8-9 weeks	3-5 ppp 10-12 weeks	Use B-Nine 1,500-3,000 ppm and Cycocel 750-1,000 ppm tank mix(S). Baby Blue will probably not need PGRs as it is very compact.	Whitefly, mites, aphids	Root rot	Cool temperatures and high light will reduce or eliminate any need for plant growth regulators.
IMPATIENS, DOUBLE	Fiesta™	5.8-6.2	4,000-6,000	68-76°F (20-24°C)	56-61°F (13-16°C)	175-225	0-1	1 ppp 6-9 weeks	1-2 ppp 7-9 weeks	4-5 ppp 10-12 weeks	Bonzi(S) 5-15 ppm can be used to control habit early; Bonzi(D) 0.5-1.0 ppm applied as crop matures will control final height but not delay flowering or reduce flower size. Florel(S) 100-200 ppm can be used to improve branching but will usually not be needed.	Leafminer, thrips	Impatiens Necrotic Spot Virus, <i>Botrytis</i> , <i>Pythium</i>	Start feeding immediately after transplanting. Avoid water stress in all stages of crop. Avoid cold stress (night temperatures below 65°F/18°C). Maintain EC above 1.0 (SME). Use early PGR applications to achieve ideal finished plants.
IMPATIENS, DOUBLE	Fiesta™ Olé	5.8-6.2	4,000-6,000	68-76°F (20-24°C)	56-61°F (13-16°C)	175-225	0-1	1 ppp 5-7 weeks	1-2 ppp 6-8 weeks	4-5 ppp 9-12 weeks	Bonzi(S) 5-10 ppm can be used to control habit early; Bonzi(D) 0.5-1.0 ppm applied as crop matures will control final height but not delay flowering or reduce flower size. Florel(S) 100-200 ppm can be used to improve branching but will usually not be needed.	Leafminer, thrips	Impatiens Necrotic Spot Virus, <i>Botrytis</i> , <i>Pythium</i>	Start feeding immediately after transplanting. Avoid water stress in all stages of crop. Avoid cold stress (night temperatures below 65°F/18°C). Maintain EC above 1.0 (SME). Use early PGR applications to achieve ideal finished plants. Fiesta Olé Double Impatiens require less PGRs than Fiesta Double Impatiens.
IMPATIENS, EXOTIC	Fusion™	5.8-6.2	4,000-6,000	68-76°F (20-24°C)	56-61°F (13-16°C)	175-225	0-1	1 ppp 6-8 weeks	1-2 ppp 7-9 weeks	3-5 ppp 10-12 weeks	Bonzi(S) 5-15 ppm is effective for height control. Florel(S) 100-300 ppm can be used to improve branching but will not usually be needed.	Aphids, thrips	Impatiens Necrotic Spot Virus, <i>Botrytis</i> , <i>Pythium</i>	Start feeding immediately after transplanting. Avoid water stress in all stages of crop. Avoid cold stress (night temperatures below 65°F/18°C). Maintain EC above 1.0 (SME). Use early PGR application to achieve ideal finished plants. A light Bonzi drench when plant is three-quarters of finish size will promote flowering above the foliage.

* ppp=plants per pot

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								4 to 5-In. (10 to 13-Cm) Pots	6-In. (15-Cm) Pots, Gallons	10 to 12-In. (25 to 30-Cm) Pots or Baskets				
IMPATIENS, NEW GUINEA	Celebration	5.8-6.2	4,000-7,000	68-76°F (20-24°C)	59-64°F (15-17°C)	175-225	0	1 ppp 7-9 weeks	1-2 ppp 9-10 weeks	3-5 ppp 10-13 weeks	Bonzi(S) 2-15 ppm can be used to control habit early; Bonzi(D) 0.25-2.0 ppm applied as crop matures will control final height but not delay flowering or reduce flower size. Florel(S) 100-200 ppm can be used to improve branching but will usually not be needed.	Thrips, aphids, mites	Impatiens Necrotic Spot Virus, Botrytis, Pythium	Maintain 68°F (20°C) average daily temperature to optimize bloom size and reduce time to flower. Cooler temperatures will extend crop time. Grow crop somewhat dry to help control growth and hasten flowering. Avoid excess micro-nutrients in the soil. With good cultural practices and environmental conditions, no PGRs will be needed.
IMPATIENS, NEW GUINEA	Celebrette	5.8-6.2	4,000-7,000	68-76°F (20-24°C)	59-64°F (15-17°C)	175-225	0	1 ppp 6-8 weeks	1-2 ppp 7-9 weeks	4-5 ppp 8-11 weeks	Bonzi(S) 2-10 ppm can be used to control habit early; Bonzi(D) 0.25-1.0 ppm applied as crop matures will control final height but not delay flowering or reduce flower size. Florel(S) 100-200 ppm can be used to improve branching but will usually not be needed.	Thrips, aphids, mites	Impatiens Necrotic Spot Virus, Botrytis, Pythium	Maintain 68°F (20°C) average daily temperature to optimize bloom size and reduce time to flower. Cooler temperatures will extend crop time. Grow crop somewhat dry to help control growth and hasten flowering. Avoid excess micro-nutrients in the soil. With good cultural practices and environmental conditions, no PGRs will be needed.
IMPATIENS, SPREADING	Fanfare®	5.8-6.2	4,000-9,000	68-79°F (20-26°C)	59-64°F (15-17°C)	175-225	0	1 ppp 6-8 weeks	1 ppp 8-10 weeks	3-4 ppp 10-13 weeks	Bonzi(S) 5-15 ppm can be used to control habit early in finish production; Bonzi(D) 0.25-0.50 ppm applied as crop matures will control final height but not delay flowering or reduce flower size. B-Nine in propagation (1,500-2,000 ppm) is effective in reducing early and unwanted stretch.	Thrips, aphids, mites	Impatiens Necrotic Spot Virus, Botrytis, Pythium	Grow crop moderately dry to help control early growth and hasten flowering. Maintain feed in low to moderate range (New Guinea feed program).
IMPATIENS WALLERIANA	Patchwork™	5.8-6.2	4,000-6,000	68-76°F (20-24°C)	56-61°F (13-16°C)	175-225	0-1	1 ppp 6-8 weeks	1-2 ppp 7-9 weeks	3-5 ppp 10-12 weeks	Bonzi(S) 5-15 ppm is effective for height control. Florel(S) 100-300 ppm can be used to improve branching but will not usually be needed.	Aphids, thrips	Impatiens Necrotic Spot Virus, Botrytis, Pythium	Start feeding immediately after transplanting. Avoid water stress in all stages of crop. Avoid cold stress (night temperatures below 65°F/18°C). Maintain EC above 1.0 (SME). Use early PGR application to achieve ideal finished plants. A light Bonzi drench when plant is three-quarters of finish size will promote flowering above the foliage.
IRESENE	Blazin' Lime, Blazin' Rose	5.8-6.2	4,000-7,000	71-79°F (21-26°C)	62-67°F (16-19°C)	175-225	1-2	1 ppp 7-9 weeks	2-3 ppp 8-10 weeks	4-5 ppp 10-13 weeks	Generally not needed. Responsive to Bonzi.	Whitefly	—	Pinch regularly to encourage branching and improve habit.
LAMIUM	Jade Frost	5.8-6.2	4,000-8,000	71-79°F (21-26°C)	59-64°F (15-17°C)	175-225	1-2	1 ppp 4-5 weeks	2-3 ppp 5-8 weeks	3-5 ppp 8-10 weeks	Generally not needed. Soil moisture and cool temperatures are the most effective way to control growth.	Aphids, whitefly	Root and stem rot	Pinch plants to encourage branching and improve habit.
LANTANA	Landmark™, Lucky™, Piñata, Dallas Red, New Gold	5.8-6.2	5,000-10,000	74-85°F (23-29°C)	62-67°F (16-19°C)	225-300	1-3	1-2 ppp 6-7 weeks	1-3 ppp 7-8 weeks	3-6 ppp 10-12 weeks	Lantana is responsive to a B-Nine 2,500-5,000 ppm and Cycocel 1,000-1,500 ppm tank mix(S) as well as Florel(S) 300-400 ppm, Bonzi(S) 20-40 ppm and Sumagic(S) 10-20 ppm.	Whitefly, leafminer, aphids	Root rot	Allow plants to dry regularly between waterings. Pinch as needed to shape. Feeding at recommended levels will promote vigorous plants that will continue to actively grow and flower. Lucky varieties are naturally compact and free-branching, while Landmark varieties are more vigorous.
LAVENDER**	Anouk, Bella®, Silver Anouk	5.8-6.2	5,000-8,000	56-76°F (13-24°C)	56-64°F (13-17°C)	100-175	0-1	1 ppp 7-9 weeks	1-3 ppp 8-10 weeks	3-5 ppp 9-11 weeks	Generally not needed. High light and cool temperatures are the most effective way to control growth.	Whitefly, aphids	Botrytis, Root rot	Plants grown under long days (greater than 14 hours) will generally flower more uniformly.
LOBELIA	Periwinkle Blue	5.8-6.2	5,000-8,000	71-79°F (21-26°C)	56-64°F (13-17°C)	175-225	1-2	1 ppp 8-10 weeks	2 ppp 9-11 weeks	4-5 ppp 10-13 weeks	Generally not needed.	Spider mites, thrips	Botrytis	Excellent heat tolerance. Pinch as needed to shape and improve plant habit.
LOBELIA	Waterfall™	5.8-6.2	5,000-8,000	71-76°F (21-24°C)	56-61°F (13-16°C)	175-225	1-2	1 ppp 9-10 weeks	2-3 ppp 10-11 weeks	4-5 ppp 10-13 weeks	Generally not needed.	Thrips	Botrytis	Azure Mist and Blue have a mounded, trailing habit, while Lavender has a trailing habit. Ideal for Spring and Summer throughout North America. Will flower in Autumn, Winter and early Spring in the Sunbelt.
LYSIMACHIA NUMMULARIA**	Goldilocks	5.8-6.2	4,000-8,000	71-79°F (21-26°C)	59-64°F (15-17°C)	175-225	1-2	1 ppp 4-5 weeks	2-3 ppp 5-8 weeks	3-5 ppp 8-10 weeks	Generally not needed. Pinching is best for shaping the plant.	—	—	Lysimachia Goldilocks is grown primarily for its foliage.
LYSIMACHIA PUNCTATA**	Golden Alexander	5.8-6.2	4,000-8,000	71-79°F (21-26°C)	59-64°F (15-17°C)	175-225	1-2	1 ppp 4-5 weeks	2-3 ppp 5-8 weeks	3-5 ppp 8-10 weeks	Generally not needed. Soil moisture and cool temperatures are the most effective way to control growth.	Aphids, whitefly	Root and stem rot	Pinch plants to encourage branching and improve habit.
NEMESIA	Aromatica™	5.8-6.2	4,000-7,000	65-76°F (18-24°C)	35-52°F (1-11°C)	175-225	1-2	1 ppp 5-7 weeks	2-3 ppp 7-9 weeks	3-4 ppp 9-11 weeks	Grow cool and bright to improve habit. Nemesia is responsive to B-Nine(S) 2,500-4,000 ppm, Sumagic(S) 20-30 ppm, and Florel(S) 200-300 ppm.	Thrips, aphids, leafminer	Root rot	If grown cool and with high light levels, Aromatica will generally require little, if any, PGRs. Avoid water-logged media.
OSTEOSPERMUM	Serenity™	5.8-6.2	5,000-9,000	59-76°F (15-24°C)	44-55°F (6-12°C)	225-300	1	1 ppp 10-13 weeks	2-3 ppp 11-14 weeks	3-4 ppp 11-15 weeks	Is responsive to B-Nine(S) 2,500-4,000 ppm alone or as a tank mix(S) with Cycocel 750-1,000 ppm. Bonzi(S) 15-30 ppm is also effective.	Aphids, whitefly, thrips	Root and stem rot, Botrytis	After transplanting, allow plants to become established for 1-2 weeks at 60-65°F (15-18°C). Once plants are well established, pinch and begin growing at recommended cool temperatures. After 4-6 weeks of cool conditions, plants can be forced in 6-8 weeks.

* ppp=plants per pot

** Perennial varieties that can be grown without cold treatment for Spring and Summer sales.

Crop	Series/Variety	Soil pH	Light Levels (fc)	Temperature Day	Temperature Night	Fertilization (ppm N)	No. of Pinches	Crop Time from Rooted Cutting*			Plant Growth Regulators (S) spray (D) drench	Pests	Diseases	Comments
								4 to 5-In. (10 to 13-Cm) Pots	6-In. (15-Cm) Pots, Gallons	10 to 12-In. (25 to 30-Cm) Pots or Baskets				
OSTEOSPERMUM	Voltage™ Yellow	5.8-6.2	5,000-9,000	59-76°F (15-24°C)	44-55°F (6-12°C)	225-300	0-1	1 ppp 8-11 weeks	1-2 ppp 8-11 weeks	3-5 ppp 8-11 weeks	Is responsive to B-Nine(S) 2,500-4,000 ppm alone or as a tank mix(S) with Cycocel 750-1,000 ppm. Bonzi(S) 15-30 ppm is also effective.	Aphids, whitefly, thrips	Root and stem rot, <i>Botrytis</i>	After transplanting, allow plants to become established for 1-2 weeks at 60-65°F (15-18°C). Once plants are well established, pinch and begin growing at recommended cool temperatures. Pinch optional. After 4-6 weeks of cool conditions, plants can be forced in 6-8 weeks.
PERILLA	Magilla® Purple	5.8-6.2	4,000-10,000	74-85°F (23-29°C)	59-70°F (15-21°C)	175-225	0-1	1 ppp 5-7 weeks	1-2 ppp 6-8 weeks	3-4 ppp 8-11 weeks	B-Nine(S) 2,000-4,000 ppm, applied 1-3 times, can be used to control habit.	Thrips, aphids, whitefly	Root rot	Plants should be pinched as needed to control habit. Crop times will be shorter under long days or warmer temperatures.
PETUNIA	Double Wave®, Rhythm & Blues, Ruffle™, Suncatcher™	5.8-6.2	5,000-8,000	59-76°F (15-24°C)	53-61°F (11-16°C)	225-300	0-1	1 ppp 6-8 weeks	2-3 ppp 7-9 weeks	3-5 ppp 9-12 weeks	B-Nine(S) 1,500-2,500 ppm, applied 2-4 times, can be used to control habit early; Bonzi(D) 0.25-1.0 ppm applied as crop matures will control final height but not delay flowering or reduce flower size.	Whitefly, thrips, leafminer	<i>Botrytis</i> , Root rot, Tobacco Mosaic Virus	Cool temperatures and high light will reduce or eliminate any need for PGRs. Monitor pH regularly for high pH and possible iron deficiency. Flowering will be best as days lengthen in late Spring and Summer. Daylength of more than 14 hours will hasten flowering.
PETUNIA	Black Velvet, Phantom, Pinstripe, Sun Spun®	5.8-6.2	5,000-8,000	59-76°F (15-24°C)	53-61°F (11-16°C)	225-300	0-1	1 ppp 5-7 weeks	2-3 ppp 6-8 weeks	3-5 ppp 8-11 weeks	B-Nine(S) 1,500-2,500 ppm, applied 2-4 times, can be used to control habit early; Bonzi(D) 0.25-1.0 ppm applied as crop matures will control final height but not delay flowering or reduce flower size. B-Nine applications late in the crop time can cause instability in flower color.	Whitefly, thrips, leafminer	<i>Botrytis</i> , Root rot, Tobacco Mosaic Virus	Cool temperatures and high light will reduce or eliminate any need for PGRs. Monitor pH regularly for high pH and possible iron deficiency. Flowering will be best as days lengthen in late Spring and Summer. Daylength of more than 14 hours will hasten flowering.
PLECTRANTHUS	Mona Lavender	5.8-6.2	4,000-7,000	74-79°F (23-26°C)	59-64°F (15-17°C)	175-225	0-1	1 ppp 6-8 weeks	1-2 ppp 7-9 weeks	3-5 ppp 9-12 weeks	B-Nine 1,500-2,500 ppm and Cycocel 750-1,000 ppm tank mix(S) or Bonzi(S) 5-20 ppm applied as needed is effective.	Whitefly, worms	Root rot	Mona Lavender requires a short-day treatment to flower. Natural-day crops can be finished in Southern climates for January to March sales. Spring, Summer and Fall crops can be achieved using black cloth/short days in all regions.
PLECTRANTHUS	Nico, Nicodemus, Nicolleta, Variegata	5.8-6.2	5,000-8,000	71-79°F (21-26°C)	56-61°F (13-16°C)	175-225	1-2	1 ppp 6-8 weeks	1-3 ppp 7-10 weeks	3-5 ppp 9-12 weeks	Generally not needed.	Whitefly	<i>Botrytis</i> , <i>Pythium</i> , <i>Rhizoctonia</i>	Regularly allow the media to dry between waterings. Pinch regularly to improve habit.
PURSLANE	Fairytales, Rio™	5.8-6.2	5,000-10,000	71-79°F (21-26°C)	62-67°F (16-19°C)	225-300	1-2	1-2 ppp 5-6 weeks	2-3 ppp 6-8 weeks	3-5 ppp 9-12 weeks	Generally not needed.	Whitefly	Root rot	Regularly allow the media to dry moderately between waterings, especially in cool periods. Regular pinching and constant feeding will improve habit and flowering.
ROSEMARY OFFICINALIS	Barbeque, Prostratus	5.8-6.2	6,000-9,000	67-75°F (19-24°C)	62-68°F (17-20°C)	200	1-2	1 ppp 6-8 weeks	2-3 ppp 7-9 weeks	3-5 ppp 8-10 weeks	Generally not needed.	Whitefly, mites	Root and stem rot, <i>Botrytis</i>	Avoid saturated media at any time. Under some conditions, a broad-spectrum preventative drench may be needed.
SALVIA GUARANITICA	Black & Blue	5.4-5.8	6,000-9,000	71-79°F (21-26°C)	59-64°F (15-17°C)	175-225	1-2	1 ppp 7-9 weeks	1-2 ppp 8-10 weeks	2-3 ppp 10-12 weeks	A B-Nine 2,000-3,500 ppm and Cycocel 1,000-1,500 ppm tank mix(S) will help control height.	Whitefly, fungus gnats, thrips	<i>Botrytis</i> , <i>Pythium</i> , <i>Rhizoctonia</i>	Regularly allow the media to dry between waterings, particularly during cool periods. Salvia Black & Blue prefers warm conditions to ensure early flowering.
SALVIA LONGISPICATA X FARINACEA	Mystic Spires Blue	5.8-6.2	6,000-10,000	71-79°F (21-26°C)	62-67°F (16-19°C)	175-225	1-2	1 ppp 4-8 weeks	2-3 ppp 6-10 weeks	4-5 ppp 8-12 weeks	Responsive to B-Nine 2,500-3,000 ppm. Increase rates as days lengthen in late Spring and Summer.	Whitefly	—	Regularly allow the media to dry moderately between waterings, especially in cool periods. Proper pinching and moderate feeding will improve habit and flowering.
SCAEVOLA	Blue Fan, Blue Print, Blue Ribbon	5.8-6.2	5,000-9,000	74-79°F (23-26°C)	59-64°F (15-17°C)	175-225	1-2	1 ppp 5-7 weeks	1-2 ppp 7-8 weeks	3-5 ppp 10-12 weeks	Generally not needed. Bonzi(D) 1-3 ppm or Bonzi(S) 20-40 ppm will control growth.	Whitefly	<i>Pythium</i> , <i>Rhizoctonia</i>	Scaevola prefers a well-drained soil. Allow the media to dry between waterings. Night temperatures lower than recommended will significantly slow the crop and lead to problems with root rot.
SEDUM	Angelina, Blue Spruce, Coral Reef, Salsa Verde, Sea Urchin, Tricolor	5.8-6.2	5,000-9,000	74-79°F (23-26°C)	59-64°F (15-17°C)	100-175	1-2	1 ppp 5-7 weeks	1-2 ppp 7-8 weeks	3-5 ppp 10-12 weeks	Generally not needed.	Spider mites	Root rot	Succulent plant with low water requirements. Allow soil to dry between waterings.
SENECIO VITALIS	Blue Chalk	5.8-6.2	5,000-9,000	74-79°F (23-26°C)	59-64°F (15-17°C)	100-175	1-2	1 ppp 5-7 weeks	1-2 ppp 7-8 weeks	3-5 ppp 10-12 weeks	Generally not needed.	Spider mites	Root rot	Succulent plants with low water requirements. Allow soil to dry between waterings.
SNAPDRAGON, TRAILING	Luminaire™	5.4-5.8	4,000-7,000	65-76°F (18-24°C)	50-55°F (10-12°C)	175-225	1-3	1 ppp 6-8 weeks	2-3 ppp 7-10 weeks	4-5 ppp 9-12 weeks	Bonzi(S) 30-60 ppm and Sumagic(S) 20-45 ppm can be used to control growth if needed.	Thrips, mites, fungus gnats	<i>Botrytis</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>	Cool temperatures and high light will reduce or eliminate any need for PGRs. Monitor pH regularly for possible iron deficiency. Allow soil to dry between waterings.
STROBILANTHES	Persian Shield	5.8-6.2	3,000-6,000	74-79°F (23-26°C)	59-64°F (15-17°C)	175-225	1-3	—	1-2 ppp 8-10 weeks	3-5 ppp 10-13 weeks	Generally not needed.	Whitefly	Root rot	Moderate light levels produce more colorful foliage. Pinch early to shape. Feed regularly to maintain growth.
THUNBERGIA	Sunny™	5.8-6.2	5,000-8,000	71-79°F (21-26°C)	59-64°F (15-17°C)	175-225	1-3	1 ppp 6-8 weeks	1-2 ppp 7-9 weeks	4-5 ppp 10-12 weeks	Generally not needed.	Mites, whitefly, thrips	<i>Botrytis</i>	Thunbergia is a warm-season crop that prefers night temperatures above 60°F (15°C). Pinch regularly to shape.
VERBENA	Aztec®, Aztec® Magic, Wildfire™, Homestead Purple**	5.8-6.2	5,000-8,000	71-79°F (21-26°C)	62-64°F (16-17°C)	225-300	1-2	1 ppp 5-7 weeks	1-3 ppp 7-8 weeks	4-5 ppp 10-13 weeks	Responsive to a B-Nine 2,500-3,500 ppm/Cycocel 750-1,000 ppm tank mix(S) and Florel(S) 250-300 ppm to control growth and improve plant habit.	Whitefly, leafminer, aphids	Root rot	Regularly allow plants to dry between waterings. Pinch as needed to shape. Wildfire varieties may require more PGR use under normal conditions.

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