



Culture Guide

Variety	EC and pH	Fertilizer	Growing Temperature (Daily Average)	Light Levels	Water Requirements	Finishing Times	Growth Regulators and Pinching	Pest Management
Angelonia angustifolia Angelina™ Angie Blue, Angie White, Angie Pink & White	1.8 – 2.0 EC 5.4 – 5.8 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	18° to 24°Celsius 65° to 75° Fahrenheit	Very high light; best grown in full sun	Keep plants moist but not consistently wet. Avoid letting the plant wilt.	10-13 cm (4 -5") pot: 6-8 weeks, 1 ppp 15 cm (6") pot: 8 – 9 weeks, 1 ppp 25-30 cm (10 – 12") pot: 9 – 12 weeks, 4 ppp	Pinch at transplant will improve plant quality. B-nine @ 2,500 ppm, tank mix with 1,000 ppm CCC optional.	Watch for whiteflies, spider mites, botrytis and pythium. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Antirrhinum repens Trailing Snapdragons Fruit Salad™ Coconut, Cranberry, Dragon Fruit, Mango, Star Fruit	1.4 – 1.8 EC 5.4 – 5.5 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 100 – 150 ppm N and adjust levels as required to maintain optimum EC and pH levels.	10° to 20°Celsius 50° to 68° Fahrenheit	Moderate - high light	Keep plants on dry side but do not let wilt excessively.	10-13 cm (4 – 5") pot: 5 – 6 weeks, 1 ppp 15 cm (6") pot: 6 – 7 weeks, 2 – 3 ppp 25-30 cm (10 – 12") pot: 7 – 9 weeks, 5 ppp	Pinch at transplant is recommended. B-nine @ 2,500 ppm.	Watch for thrips, aphids, pythium, rust and downy mildew. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Argyranthemum frutescens Butterfly, Dream Cherry, Lovey Dove, Pink Melody, Precious, La Rita™ Lemon Drops, and Purple Glow	1.8 – 2.0 EC 5.8 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	14° to 20°Celsius 58° to 68° Fahrenheit	Very high light; best grown in full sun	Keep plants moist but not consistently wet. Avoid letting the plant wilt.	10-13 cm (4 – 5") pot: 6 – 8 weeks, 1 ppp 15 cm (6") pot: 8 – 9 weeks, 1 ppp 25-30 cm (10 – 12") pot: 9 – 12 weeks, 3 – 4 ppp	Pinch at transplant will improve plant quality. B-nine @ 2,500 ppm, tank mix with 1,000 ppm CCC optional.	Watch for aphids, whiteflies and leafminer. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Begonia tuberhybrida Flare, Orchid™ Series Orange, Red, Yellow, Pink	1.4 – 1.8 EC 5.8 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 100 – 150 ppm N and adjust levels as required to maintain optimum EC and pH levels.	14° to 20°Celsius 58° to 68° Fahrenheit	Moderate to high levels; may be grown in full sun	Keep plants dry to slightly moist.	10-13 cm (4 – 5") pot: 5 – 6 weeks, 1 ppp 15 cm (6") pot: 7 – 8 weeks, 1 ppp 25-30 cm (10 – 12") pot: 9 – 10 weeks, 4 ppp	Pinch at transplant will improve plant quality. B-nine @ 2,500 ppm; 1,000 ppm CCC.	Watch for aphids, botrytis and pythium. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Bidens ferulifolium Goldilocks	1.2 – 1.8 EC 5.5 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	12° to 14°Celsius 54° to 58° Fahrenheit	Very high light; best grown in full sun	Keep consistently moist. Do not allow plant to completely dry out.	10-13 cm (4 – 5") pot: 4 – 6 weeks, 1 ppp 15 cm (6") pot: 5 – 7 weeks, 2 ppp 25-30 cm (10 – 12") pot: 8 – 10 weeks, 3 ppp	One pinch at planting for 6" and smaller pots. Two pinches are recommended for 10" and larger pots. B-nine @ 5,000 ppm.	Watch for whiteflies. Drench with a broad-spectrum fungicide at liner transplanting. No apparent problems if average cultural and sanitation practices are followed.
Brachycome multifida Oregon Blue	1.2 – 1.8 EC 6.0 – 6.5 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	12° to 18°Celsius 54° to 65° Fahrenheit	High light	Keep plants moderately moist but not consistently wet.	10-13 cm (4 – 5") pot: 4 – 6 weeks, 1 ppp 15 cm (6") pot: 6 – 8 weeks, 2 ppp 25-30 cm (10 – 12") pot: 12 – 14 weeks, 3 ppp	Pinch at planting will greatly improve plant quality. PGRs not required.	Watch for thrips and whiteflies. Drench with a broad-spectrum fungicide at liner transplanting.
Bracteantha Mohave™ Bronze, Dark Red, Plum, White, Yellow	1.8 – 2.0 EC 5.8 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 - 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	12° to 22°Celsius 54° to 72° Fahrenheit	High light	Keep plants dry to moderately moist.	10-13 cm (4 – 5") pot: 6 – 7 weeks, 1 ppp 15 cm (6") pot: 7 – 8 weeks, 1 ppp 25-30 cm (10 – 12") pot: 8 – 10 weeks, 4 ppp	Pinch at planting will improve plant quality. PGRs not required. Control growth with temperature and feed.	Watch for aphids, whiteflies and pythium. Drench with a broad-spectrum fungicide at liner transplanting. Good air circulation will help prevent mildew.



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Calceolaria Golden Slipper	1.2 – 1.8 EC 6.0 – 6.5 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 - 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	12° to 22°Celsius 54° to 72° Fahrenheit	High light	Keep plants moderately moist.	10–13 cm (4 – 5") pot: 4 - 6 weeks, 1 ppp 15 cm (6") pot: 6 – 8 weeks, 1 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 4 ppp	Pinch at planting will improve plant quality. PGRs not required.	Drench with a broad-spectrum fungicide at liner transplanting.
Calendula Summerlovers Skyfire	1.2 – 1.8 EC 5.8 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	14° to 22°Celsius 58° to 72° Fahrenheit	High light	Keep plants constantly moist but not wet.	10–13 cm (4 – 5") pot: 4 - 6 weeks, 1 ppp 15 cm (6") pot: 6 - 8 weeks, 2 ppp 25–30 cm (10 – 12") pot: 8 - 10 weeks, 4 - 5 ppp	One pinch at planting will promote branching and produce a fuller finished plant.	Use a proper scouting program to avoid outbreaks of pests. Drench with a broad-spectrum fungicide at liner transplanting.
Calibrachoa hybrid Sweet Bells™ and Minifamous™ Series	2.0 – 2.4 EC 5.4 – 5.8 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients with slightly higher iron. Watch for iron deficiencies associated with high pH. Start with 250 – 300 ppm N and adjust levels as required to maintain optimum EC and pH levels.	14° to 22°Celsius 58° to 72° Fahrenheit	Very high light; best grown in full sun	Keep plants constantly moist but not wet.	10–13 cm (4 – 5") pot: 7 – 8 weeks, 1 ppp 15 cm (6") pot: 9 – 10 weeks, 2 ppp 25–30 cm (10 – 12") pot: 9 – 12 weeks, 5 ppp	One pinch at planting will promote branching and produce a fuller finished plant.	Watch for aphids, thrips, pythium and thielaviopsis. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Centradenia Hybrid Cascade	1.2 – 1.8 EC 6.0 – 6.5 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	12° to 22°Celsius 54° to 72° Fahrenheit	High light	Keep plants moderately moist but not consistently wet.	10–13 cm (4 – 5") pot: 6 – 7 weeks, 1 ppp 15 cm (6") pot: 7 – 8 weeks, 2 ppp 25–30 cm (10 – 12") pot: 12 – 14 weeks, 5 ppp	Pinch at planting will greatly improve plant quality. PGRs not required.	Watch for aphids. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Coleus Sunny™ Series	1.2 – 1.8 EC 6.0 – 6.5 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	18° to 22° Celsius 65° to 72° Fahrenheit	Very high light; best grown in full sun	Keep plants evenly moist but avoid over watering.	10–13 cm (4 – 5") pot: 6 – 8 weeks, 2 ppp 15 cm (6") pot: 6 – 8 weeks, 2 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 4 ppp	One pinch after planting is required. Second pinch will increase branching and improve shape. B-nine @ 2,500 ppm and 1,000 ppm CCC tank mix.	Watch for mealy bugs. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Cuphea Lavender Lace	1.2 – 1.8 EC 6.0 – 6.5 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	15° to 22° Celsius 60° to 72° Fahrenheit	High light; best grown in full sun	Keep plants moderately moist but avoid over watering.	10–13 cm (4 – 5") pot: 5 – 6 weeks, 1 ppp 15 cm (6") pot: 6 – 8 weeks, 2 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 5 ppp	One soft pinch 2 weeks after planting. A second pinch will increase branching and improve plant shape. B-nine @ 2,500 ppm.	Watch for aphids, thrips and white flies. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.



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Diascia hybrid Light Pink, Peachy, Red Flag, Snowdrift, Sunrise	1.8 – 2.0 EC 5.5 – 5.8 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	12° to 20° Celsius 54° to 68° Fahrenheit	Very high light; best grown in full sun	Keep plants evenly moist but avoid over watering.	10–13 cm (4 – 5") pot: 5 – 7 weeks, 1 ppp 15 cm (6") pot: 7 – 9 weeks, 1 – 2 ppp 25–30 cm (10 – 12") pot: 9 – 11 weeks, 4 – 5 ppp	One pinch at liner planting. Plants grown cool should not require any PGRs. Red Flag is more vigorous and is better suited for larger containers.	Watch for aphids and pythium. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Erigeron Felicity	1.2 – 1.8 EC 6.0 – 6.5 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	15° to 22° Celsius 60° to 72° Fahrenheit	High light	Keep plants evenly moist but avoid over watering.	10–13 cm (4 – 5") pot: 5 – 6 weeks, 1 ppp 15 cm (6") pot: 6 – 8 weeks, 1 -2 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 4 – 5 ppp	Pinching and PGRs are not required.	Watch for spider mites and whiteflies. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Felicia Tosca Blue	1.2 – 1.8 EC 5.5 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	18° to 22° Celsius 65° to 72° Fahrenheit	High light	Keep plants evenly moist but avoid over watering.	10–13 cm (4 – 5") pot: 5 – 6 weeks, 1 ppp 15 cm (6") pot: 7 – 9 weeks, 1 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 4 – 5 ppp	One pinch at liner planting. CCC @ 1,500 ppm.	Watch for thrips and whiteflies. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Fuchsia Summer Island™, Summer Melody™, Insulinde, Blue Eyes, White Eyes	1.2 – 1.8 EC 6.0 – 6.5 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	18° to 22° Celsius 65° to 72° Fahrenheit	Moderate light	Keep plants dry to moderately moist.	10–13 cm (4 – 5") pot: 6 – 8 weeks, 1 ppp 15 cm (6") pot: 8 – 10 weeks, 2 ppp 25–30 cm (10 – 12") pot: 12 – 14 weeks, 5 ppp	First pinch at liner planting. Second pinch 5 – 6 weeks later. A third pinch, minimum 7 weeks before sale will increase branching and improve plant shape of baskets.	Watch for aphids, mites and whiteflies. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Gaura Belleza™ Cynthia, Erica, Olivia	1.8 – 2.0 EC 5.8 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	15° to 24° Celsius 60° to 75° Fahrenheit	Very high light	Keep plants constantly moist but avoid over watering.	10–13 cm (4 – 5") pot: 7 – 9 weeks, 1 ppp 15 cm (6") pot: 9 – 12 weeks, 1 – 2 ppp 25–30 cm (10 – 12") pot: 11 – 13 weeks, 3 – 4 ppp	One pinch at liner planting. Plants grown cool should not require any PGRs. B – nine @ 2,500 ppm.	Watch for aphids and whiteflies. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Gazania Amarillo, Azteca, Naranja, Plateado	1.5 – 1.8 EC 5.5 – 6.0 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	14° to 16° Celsius 58° to 62° Fahrenheit	Very high light; best grown in full sun	Keep plants constantly moist but avoid over watering.	10–13 cm (4 – 5") pot: 10 – 12 weeks, 1 ppp 15 cm (6") pot: 12 – 14 weeks, 1 ppp 25–30 cm (10 – 12") pot: 14 – 16 weeks, 4 – 5 ppp	No pinch required. CCC @ 1,500 ppm as needed.	Watch for aphids. Use a proper scouting program to avoid outbreaks of other pest. Drench with a broad-spectrum fungicide at liner transplanting.



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Helichrysum Azure Sunset, yellow	1.2 – 1.8 EC 6.0 – 6.5 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	14° to 16°Celsius 58° to 62° Fahrenheit	Very high light; best grown in full sun	Keep plants moist but not consistently wet. Avoid letting the plant wilt.	10–13 cm (4 – 5") pot: 5 – 6 weeks, 1 ppp 15 cm (6") pot: 6 – 8 weeks, 1 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 4 – 5 ppp	One pinch at liner planting is optional.	Watch for whiteflies. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Heliotrope Sachet	1.2 – 1.8 EC 6.0 – 6.5 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	12° to 22°Celsius 54° to 72° Fahrenheit	Moderate to high light	Keep plants moderately moist but not consistently wet. Avoid letting the plant wilt.	10–13 cm (4 – 5") pot: 6 – 8 weeks, 1 ppp 15 cm (6") pot: 8 – 10 weeks, 1 ppp 25–30 cm (10 – 12") pot: 12 – 14 weeks, 4 – 5 ppp	One pinch two weeks after liner planting will produce a bushier plant.	Watch for whiteflies. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Ice plant Orange, Rose and Yellow	1.2 – 1.8 EC 5.5 – 6.0 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	12° to 22°Celsius 54° to 72° Fahrenheit	High light	Keep plants constantly moist but avoid over watering.	10–13 cm (4 – 5") pot: 5 – 6 weeks, 1 ppp 15 cm (6") pot: 8 – 10 weeks, 1 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 4 – 5 ppp	One pinch at liner planting is optional.	Use a proper scouting program to avoid outbreaks of pests. Drench with a broad-spectrum fungicide at liner transplanting.
Ipomoea Chocolat, Patio Lime and Tricolor	1.8 – 2.0 EC 5.5 – 6.0 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	12° to 22°Celsius 54° to 72° Fahrenheit	Moderate to high light; best grown in full sun	Keep plants consistently moist.	10–13 cm (4 – 5") pot: 5 – 6 weeks, 1 ppp 15 cm (6") pot: 6 – 8 weeks, 1 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 4 – 5 ppp	One pinch two weeks after liner planting. PGRs not required.	Watch for aphids and whiteflies. Use a proper scouting program to avoid outbreaks of pests. Drench with a broad-spectrum fungicide at liner transplanting.
Lantana montevidensis Lara and Summerlovers™ Simon series	1.2 – 1.8 EC 6.0 – 6.5 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	12° to 22°Celsius 54° to 72° Fahrenheit	High light	Keep plants moist but not constantly wet. Avoid letting the plant wilt.	10–13 cm (4 – 5") pot: 4 – 6 weeks, 1 ppp 15 cm (6") pot: 5 – 7 weeks, 1 – 2 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 5 ppp	One pinch at liner planting. PGRs not required.	Watch for whiteflies. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Lobelia Azure Angel™, Dark Blue Angel™, Crystal Waterfall, and Lavender Waterfall	1.2 – 1.8 EC 5.5 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	10° to 22°Celsius 50° to 72° Fahrenheit	High light	Keep plants moderately moist but not constantly wet. Avoid letting the plant wilt.	10–13 cm (4 – 5") pot: 6 – 8 weeks, 1 ppp 15 cm (6") pot: 8 – 10 weeks, 1 – 2 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 4 – 5 ppp	One pinch at liner planting for 6" and smaller pots. Larger pots and hanging baskets will benefit from second pinching. B – nine @ 2,500 ppm.	Use a proper scouting program to avoid outbreaks of pests. Drench with a broad-spectrum fungicide at liner transplanting.



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Lotus Vine Gold Flash, Red Flash	1.2 – 1.8 EC 6.0 – 6.5 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	10° to 22°Celsius 50° to 72° Fahrenheit	High light	Keep plants moderately moist but not constantly wet.	10–13 cm (4 – 5") pot: 5 – 6 weeks, 1 ppp 15 cm (6") pot: 6 – 8 weeks, 1 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 5 ppp	One pinch 2 weeks after planting. A second pinch 6 weeks later for 6" and larger pots will increase branching and produce a bushier plant. PGRs not required.	Watch for aphids. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Lysimachia Golden Leaves	1.2 – 1.8 EC 6.0 – 6.5 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	10° to 22°Celsius 50° to 72° Fahrenheit	Moderate to high light	Keep plants moderately moist.	10–13 cm (4 – 5") pot: 6 – 8 weeks, 1 ppp 15 cm (6") pot: 8 – 10 weeks, 1 ppp 25–30 cm (10 – 12") pot: 12 – 14 weeks, 5 ppp	One pinch 2 weeks after liner planting. PGRs not required.	Watch for aphids and mites. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Mimulus aurantiacus Grenadine, Pina Colada and Tropicana	1.2 – 1.8 EC 5.8 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	10° to 22°Celsius 50° to 72° Fahrenheit	Very high light; best grown in full sun	Keep plants evenly moist but avoid over watering.	10–13 cm (4 – 5") pot: 8 – 9 weeks, 1 ppp 15 cm (6") pot: 10 – 11 weeks, 1 ppp 25–30 cm (10 – 12") pot: 14 – 16 weeks, 5 ppp	One pinch at liner planting. May be pinched and trimmed multiple times to increase fullness. B – nine @ 2,500 ppm as required.	Watch for whiteflies. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.
Nemesia Cheeky, Innocence and Sweet Bird	1.8 – 2.0 EC 5.5 – 5.8 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	10° to 22°Celsius 50° to 72° Fahrenheit	High light	Keep plants moderately moist but not constantly wet.	10–13 cm (4 – 5") pot: 6 – 8 weeks, 1 ppp 15 cm (6") pot: 7 – 10 weeks, 2 ppp 25–30 cm (10 – 12") pot: 9 – 11 weeks, 4 – 5 ppp	One pinch at liner planting for 6" and smaller pots. Larger pots and hanging baskets will benefit from second pinching. B – nine @ 2,500 ppm.	Watch for aphids, leaf miners and thrips. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting. Maintain good airflow.
Neirembergia Be Bop™ Dark Blue	1.4 – 1.8 EC 5.4 – 5.7 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 100 – 150 ppm N and adjust levels as required to maintain optimum EC and pH levels.	18° to 24° Celsius 65° to 75° Fahrenheit	High light	Keep plants constantly moist.	10–13 cm (4 – 5") pot: 8 – 9 weeks, 1 ppp 15 cm (6") pot: 9 – 12 weeks, 2 ppp 25–30 cm (10 – 12") pot: 12 – 14 weeks, 4 – 5 ppp	One pinch at liner planting. B – nine @ 2,500 ppm.	Watch for aphids, botrytis and pythium. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting. Maintain good airflow.
Osteospermum Impassion™, Flowerpower™ Summerdaisy's™ series	1.8 – 2.0 EC 5.5 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	10° to 22°Celsius 50° to 72° Fahrenheit	High light	Keep plants dry to moderately moist. Avoid over watering.	10–13 cm (4 – 5") pot: 7 – 9 weeks, 1 ppp 15 cm (6") pot: 9 – 11 weeks, 1 ppp 25–30 cm (10 – 12") pot: 9 – 13 weeks, 3 – 4 ppp	One pinch after plants are rooted and actively growing. Cool temperature and high light will keep plant compact. Tank mix B – nine @ 2,500 ppm and CCC 1,000 ppm.	Watch for aphids, whiteflies and thrips. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting.



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Petunia Sunpleasure™, Sweet Pleasure™, and SweetSunshine™ series	2.0 – 2.4 EC 5.4 – 5.8 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 250 – 300 ppm N and adjust levels as required to maintain optimum EC and pH levels.	10° to 22°Celsius 50° to 72° Fahrenheit	High light	Keep plants constantly moist.	10–13 cm (4 – 5") pot: 5 – 7 weeks, 1 ppp 15 cm (6") pot: 7 – 9 weeks, 1 ppp 25–30 cm (10 – 12") pot: 9 – 12 weeks, 3 – 4 ppp	One pinch at liner planting. Larger pots and hanging baskets will benefit from second pinching. B – nine @ 2,500 ppm.	Watch for aphids, whiteflies, thrips and leafminer. Use a proper scouting program to avoid outbreaks of other pests. Drench with a broad-spectrum fungicide at liner transplanting. Spray for powdery mildew.
Plectranthus Swedish Ivy	1.8 – 2.4 EC 5.8 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	10° to 22°Celsius 50° to 72° Fahrenheit Cool temperatures will improve plant quality.	Moderate to high light	Keep plants constantly moist.	10–13 cm (4 – 5") pot: 6 – 7 weeks, 1 ppp 15 cm (6") pot: 8 – 9 weeks, 1 – 2 ppp 25–30 cm (10 – 12") pot: 9 – 12 weeks, 4 – 5 ppp	Pinch at liner planting. Baskets should get an additional pinch before hanging. May be pinched and trimmed multiple times to increase fullness. B – nine @ 2,500 ppm.	Watch for aphids, thrips and whiteflies. Maintain good air movement. Drench with a broad-spectrum fungicide at liner transplanting.
Sanvitalia Summerlovers™ Penny Star	1.8 – 2.0 EC 5.8 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	16° to 24° Celsius 62° to 75° Fahrenheit Cool temperatures will improve plant quality. Sensitive to cold temperatures.	Very high light, best grown in full sun	Grow plants on the dry side. Avoid over watering.	10–13 cm (4 – 5") pot: 5 – 6 weeks, 1 ppp 15 cm (6") pot: 8 – 9 weeks, 1 – 2 ppp 25–30 cm (10 – 12") pot: 9 – 12 weeks, 4 – 5 ppp	Pinch at liner planting. Baskets should get an additional pinch before hanging. May be pinched and trimmed multiple times to increase fullness. B – nine @ 2,500 ppm.	Watch for aphids. Maintain good air movement. Drench with a broad-spectrum fungicide at liner transplanting.
Scaevola aemula Blue Laguna	1.2 – 1.8 EC 5.6 – 5.8 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients but lower amounts of phosphorous. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	16° to 18° Celsius 62° to 66° Fahrenheit Cool temperatures will inhibit growth and darken foliage.	Very high light needed to produce a full, less leggy plant	Keep plants consistently moist.	10–13 cm (4 – 5") pot: 4 – 6 weeks, 1 ppp 15 cm (6") pot: 5 – 7 weeks, 1 – 2 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 4 – 5 ppp	Pinch at liner planting. Baskets should be pinched and trimmed multiple times to increase fullness. B – nine @ 2,500 ppm.	Watch for thrips and whiteflies. Drench with a broad-spectrum fungicide at liner transplanting.
Strobilanthes Dyerianus Persian Shield	1.2 – 1.8 EC 5.6 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients but lower amounts of phosphorous. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	18° to 22° Celsius 65° to 72° Fahrenheit Cool temperatures will inhibit growth and darken foliage.	High light	Keep plants consistently moist.	10–13 cm (4 – 5") pot: 4–6 weeks, 1 ppp 15 cm (6") pot: 5–7 weeks, 2 ppp 25–30 cm (10 – 12") pot: 10–12 weeks, 4 - 5 ppp	Pinch at liner planting. Baskets should be pinched and trimmed multiple times to increase fullness. B – nine @ 2,500 ppm.	Watch for aphids and thrips. Drench with a broad-spectrum fungicide at liner transplanting.
Sutera Blueberry, Grape, Double Vanilla and Vanilla Shake	1.8 – 2.0 EC 5.4 – 5.8 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	16° to 24° Celsius 62° to 75° Fahrenheit	High light	Keep plants moderately moist. Avoid over watering.	10–13 cm (4 – 5") pot: 5 – 7 weeks, 1 ppp 15 cm (6") pot: 7 – 9 weeks, 2 ppp 25–30 cm (10 – 12") pot: 9 – 11 weeks, 4 - 5 ppp	Pinch at liner planting. Baskets should be pinched and trimmed multiple times to increase fullness. B – nine @ 2,500 ppm.	Watch for aphids and thrips. Drench with a broad-spectrum fungicide at liner transplanting.



Culture Guide

Variety	EC and pH	Fertilizer	Growing Temperature (Daily Average)	Light Levels	Water Requirements	Finishing Times	Growth Regulators and Pinching	Pest Management
Thunbergia Sunny Susy™ Apricot and Red - Orange	1.8 – 2.0 EC 5.8 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	16° to 24° Celsius 62° to 75° Fahrenheit	High light	Keep plants moderately moist.	10–13 cm (4 – 5") pot: 6 – 7 weeks, 1 ppp 15 cm (6") pot: 8 – 9 weeks, 1 – 2 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 4 – 5 ppp	Pinch at liner planting. Baskets should get an additional pinch before hanging. May be pinched and trimmed multiple times to increase fullness. PGR not required.	Watch for aphids, thrips and whiteflies. Drench with a broad-spectrum fungicide at liner transplanting.
Tibouchina Latin, Night and Paradise Princess™	1.2 – 1.8 EC 5.8 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	16° to 24° Celsius 62° to 75° Fahrenheit Cool temperatures will inhibit growth and darken foliage.	Very high light; grow in full sun	Keep plants consistently moist. Avoid over watering.	10–13 cm (4 – 5") pot: 6 – 7 weeks, 1 ppp 15 cm (6") pot: 8 – 9 weeks, 1 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 4 – 5 ppp	Pinch at liner planting. Side shoots may be removed to produce standard. B – nine @ 2,500 ppm.	Watch for aphids and whiteflies. Drench with a broad-spectrum fungicide at liner transplanting.
Torenia Summerlovers™ Arctic Blue and Sundancer	1.2 – 1.8 EC 5.5 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	18° to 24° Celsius 65° to 75° Fahrenheit	Moderate to high light; sensitive to cold temperatures	Grow plants on the dry side. Avoid over watering.	10–13 cm (4 – 5") pot: 6 – 7 weeks, 1 ppp 15 cm (6") pot: 8 – 9 weeks, 1 – 2 ppp 25–30 cm (10 – 12") pot: 9 – 12 weeks, 4 – 5 ppp	Pinch at liner planting. Baskets should get an additional pinch before hanging. May be pinched and trimmed multiple times to increase fullness.	Watch for aphids. Maintain good air movement. Drench with a broad-spectrum fungicide at liner transplanting.
Tropaeolum Banana Split and Red Wonder	1.2 – 1.8 EC 5.5 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 150 – 200 ppm N and adjust levels as required to maintain optimum EC and pH levels.	18° to 22° Celsius 65° to 72° Fahrenheit	Moderate to high light	Keep plants consistently moist. Avoid over watering.	10–13 cm (4 – 5") pot: 6 – 7 weeks, 1 ppp 15 cm (6") pot: 8 – 9 weeks, 1 – 2 ppp 25–30 cm (10 – 12") pot: 9 – 12 weeks, 4 – 5 ppp	Pinch at liner planting. Baskets should get an additional pinch before hanging. May be pinched and trimmed multiple times to increase fullness.	Watch for aphids. Maintain good air movement. Drench with a broad-spectrum fungicide at liner transplanting.
Velox *** Pink and Softpink	1.8 – 2.0 EC 5.5 – 5.8 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	18° to 22° Celsius 65° to 72° Fahrenheit	High light	Keep plants moderately moist. Let media dry slightly between watering.	10–13 cm (4 – 5") pot: 6 – 7 weeks, 1 ppp 15 cm (6") pot: 7 – 9 weeks, 1 – 2 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 4 – 5 ppp	Pinch at liner planting. Baskets should get an additional pinch before hanging. May be pinched and trimmed multiple times to increase fullness.	Watch for aphids, thrips and whiteflies. Drench with a broad-spectrum fungicide at liner transplanting. Watch for powdery mildew. Maintain good air movement.
Verbena Patio and Star Dreams™ series	1.8 – 2.0 EC 5.5 – 5.8 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	18° to 22° Celsius 65° to 72° Fahrenheit	High light	Keep plants moderately moist. Let media dry slightly between watering.	10–13 cm (4 – 5") pot: 6 – 7 weeks, 1 ppp 15 cm (6") pot: 7 – 9 weeks, 1 – 2 ppp 25–30 cm (10 – 12") pot: 10 – 12 weeks, 4 – 5 ppp	Pinch at liner planting. Baskets should get an additional pinch before hanging. May be pinched and trimmed multiple times to increase fullness.	Watch for aphids, thrips and whiteflies. Drench with a broad-spectrum fungicide at liner transplanting. Watch for powdery mildew. Maintain good air movement.



Culture Guide

Variety	EC and pH	Fertilizer	Growing Temperature (Daily Average)	Light Levels	Water Requirements	Finishing Times	Growth Regulators and Pinching	Pest Management
Mosquito Shocker™ and Wasp Shocker™	1.8 – 2.0 EC 5.8 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	18° to 22° Celsius 65° to 72° Fahrenheit	High light	Keep plants consistently moist. Avoid over watering.	10–13 cm (4 – 5") pot: 6 – 7 weeks, 1 ppp 15 cm (6") pot: 7 – 9 weeks, 1 – 2 ppp	Pinch at liner planting. CCC @ 1,500 ppm.	Watch for aphids. Maintain good air movement. Drench with a broad-spectrum fungicide at liner transplanting.
Scardy Cat!™, Dog's Gone™ and Hop Off™	1.2 – 1.8 EC 5.8 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	18° to 22° Celsius 65° to 72° Fahrenheit	Moderate to high light	Keep plants moderately moist. Let media dry slightly between watering.	10–13 cm (4 – 5") pot: 6 – 7 weeks, 1 ppp 15 cm (6") pot: 7 – 9 weeks, 1 – 2 ppp	Pinch at liner planting. Baskets should be pinched and trimmed multiple times to increase fullness. B – nine @ 2,500 ppm.	Watch for aphids, thrips and whiteflies. Drench with a broad-spectrum fungicide at liner transplanting. Maintain good air movement.
You Dirty Rat™	1.8 – 2.0 EC 5.5 – 6.2 pH	Constant feed with a well-balanced fertilizer containing average amounts of micronutrients. Start with 200 – 250 ppm N and adjust levels as required to maintain optimum EC and pH levels.	18° to 22° Celsius 65° to 72° Fahrenheit	High light	Keep plants moderately moist. Let media dry slightly between watering.	10–13 cm (4 – 5") pot: 8 – 10 weeks, 1 ppp 15 cm (6") pot: 12 – 14 weeks, 1 – 2 ppp		Maintain good air movement. Drench with a broad-spectrum fungicide at liner transplanting.

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