PROPAGATION & FINISHING TIPS

Annuals/Perennials

2027-2028



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Technical Product Pages

2027-2028



AGUILERA™

Ageratum houstonianum

For additional information and availability: AGUILERA™

PROPAGATION TIPS

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72° / 74° F (22° / 23° C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° F (18° - 20° C)		Weeks 3-4 100 to 125 ppm N	Day of sticking & Week 2

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 / 6.2	0.80	72° / 74° F (22° / 23° C)	50 ppm N in mist			Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	72° / 74° F (22° / 23° C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 65° - 68° F (18° - 20° C)	Feed 100 ppm to 125 ppm N		Daminozide as needed		
Week 4	5.8 to 6.2	1.0 to 1.2	65° - 68° F (18° - 20° C)	feed 100 to 125 ppm N				

- **Irrigation specification -** Remove from mist as soon as possible. Scout specifically for Botrytis

- Daminozide at 1500 ppm week 3.

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For additional information and availability: AGUILERA™

Ageratum houstonianum

FINISHING TIPS

- Pinch is optional
- Ageratum is a long day plant so extending the day or night interruption will hasten flowering
- Cool temperature finishing for best quality

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
5 to 7 wks	Average Day	Pinch - Optional Night interruption or extended day - Optional	150 - 200 ppm N	In liner and finish stages as required
(12 cm) 5” pot 1 ppp	65° - 68° (18° - 20° C)			
6 to 8 wks			Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½” 1 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	optional	Daminozide as needed	Spray fungicide after transplant	
Week 5 to 12	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm		Paclobutrazol Drench at 1 ppm		Paclobutrazol 1 ppm drench when plants reach 85% of desired size

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- PGR - Spray Daminozide at 1500 to 2500 ppm early on finished plants - Paclobutrazol drench application at 1 ppm for finishing if required
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Thrips on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

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PROPAGATION TIPS

ALONIA™

Angelonia Angustifolia

For additional information and availability: ALONIA™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 3 72°/74°F (22°/23°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 4 - 5 68° - 70° (20° - 21° C)		Weeks 3-5 100 to 150 ppm N	Apply broad spectrum Week 2

- Misting specification: Remove from mist as soon as possible
  Spray adjuvant at sticking

- Maintain warm temperatures allowing plants to develop.
- Spray Daminozide at 2,500 to 3,750 ppm
- Pinch is optional in week 4 or at transplant

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8/6.2	0.80	72°/74°F (22°/23°C)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.8/6.2	.80 to .90	72°/74°F (22°/23°C)	50 ppm N in mist	Not required		Second fungicide app	
Week 3	5.8/6.2	.90 to 1.0	72°/74°F (22°/23°C)	Feed 100 ppm to 150 ppm	Not required			
Week 4	5.8/6.2	.90 to 1.0	Cool to 68°/70°F (20°/21°C)	Feed 100 to 150 ppm	Not required	Daminozide as needed		
Week 5	5.8/6.2	1.0 to 1.2	68°F (20°C)	Feed 100 to 150 ppm	Not required	Daminozide as needed		

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ALONIA™

For additional information and availability: ALONIA™

Angelonia Angustifolia

- Pinch week 4 in liner or at transplant is optional
- Plant liners below new soil to support plants at maturity

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 9 wks	Average Day	Pinch – Optional	100 - 150 ppm N	In liner and finish stages
(12 cm) 5” pot 1 ppp	65°-68° F (18°-20° C)			
8 to 10 wks	65°-68° F (18°-20° C)		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½” 1 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm		B-9 as needed	Spray fungicide after transplant	
Week 6 to 13	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm		Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench if required

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

- PGR - Spray Daminozide at 2500 to 3750 ppm for finishing plants
  Paclobutrazol drench application at 1 to 2 ppm for finishing if required
- Spray broad spectrum fungicide after transplant
- Scout for Aphids and Thrips on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

FINISHING TIPS

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PROPAGATION TIPS

ANGELIC™

Argyranthemum frutescens

For additional information and availability: ANGELIC™

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72 °/ 74° F (22° / 23° C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification -** Remove from mist as soon as possible

- Light in propagation for optimal growth and to hasten crop time. Argyranthemum respond to long days for flowering. Daminozide at 1,500- 2,500 ppm week 3.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 / 6.0	0.80	72 °/ 74° F (22° / 23° C)	50 ppm N in mist			Day of sticking	
Week 2	5.8 to 6.0	.80 to .90	72° / 74° F (22° / 23° C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.0	.90 to 1.0	Cool to 68° / 70° F (20° / 21° C)	Feed 100 ppm to 150 ppm		Daminozide as needed		
Week 4	5.8 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	feed 100 to 150 ppm		Daminozide as needed		

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ANGELIC™

For additional information and availability: ANGELIC™

Argyranthemum frutescens

- Pinch is optional
- Cool temperature finishing for best quality

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch - Optional	100 - 150 ppm N	In liner and finish stages
(12 cm) 5" pot 1 ppp	68° to 72°F (20° to 22°C)			
8 to 9 wks	65° - 68° (18° - 20° C)		Soil EC 1.0 - 1.2 pH 5.5 to 6.0	
(15 cm) 6 ½" 1 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.7 to 6.0	1.0 to 1.2	68° to 72°F (20° to 22°C)	Feed 100 to 150 ppm	Day Neutral	Daminozide as needed	Spray fungicide after transplant	
Week 5 to 13	5.7 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Not Required	Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- PGR - Spray Daminozide at 1,500- 2,500 ppm on young finished plants Paclobutrazol drench application at 2 ppm for finishing if required
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Thrip on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

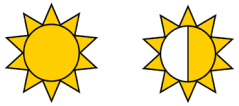
FINISHING TIPS

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LOLLIES™

Argyranthemum frutescens

For additional information and availability: LOLLIES™



Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22°-23° C)	NO	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65°-68° (18°-20° C)		Weeks 3-5 100 to 125 ppm N	Day of sticking & Week 2

- **Irrigation specification** - Remove from mist as soon as possible

- Argyranthemum respond to long days for flowering. Light in propagation to 12-hour daylength for optimal growth and to hasten crop time. Daminozide at 750 ppm week 3.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.0	0.80	72°-74° F (22°-23° C)	50 ppm N in mist			Day of sticking	
Week 2	5.8 to 6.0	.80 to .90	72°-74° F (22°-23° C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.0	.90 to 1.0	Cool to 68°- 70° F (20°-21° C)	Feed 100 ppm to 150 ppm		Daminozide as needed		
Week 4	5.8 to 6.0	1.0 to 1.2	65°-68° F (18°-20° C)	feed 100 to 150 ppm		Daminozide as needed		

PROPAGATION TIPS

DANZIGER

LOLLIES™

For additional information and availability: LOLLIES™

Argyranthemum frutescens

- Pinch is optional
- Cool temperature finishing for best quality

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch- Optional Night interruption or extended day- Optional	100 - 150 ppm N	In liner and finish stages
(12 cm) 5” pot 1 ppp	65°-68° F (18°-20° C)			
8 to 9 wks			Soil EC 1.0-1.2 pH 5.7 to 6.0	
(15 cm) 6 ½” 1 ppp				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.7 to 6.0	1.0 to 1.2	65°-68° F (18°-20° C)	Feed 100 to 150 ppm	Day Neutral	Daminozide as needed	Spray fungicide after transplant	
Week 5 to 13	5.7 to 6.0	1.0 to 1.2	65°-68° F (18°-20° C)	Feed 100 to 150 ppm	Not Required	Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- PGR - Spray Daminozide at 1500 to 2500 ppm on young finished plants Paclobutrazol drench application at 1-2 ppm for finishing if required
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Thrips on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

FINISHING TIPS

DANZIGER

SCOPIA® GULLIVER™

Bacopa / Sutera

For additional information and availability: SCOPIA® GULLIVER™

PROPAGATION TIPS

Stick on priority – Number 1 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification** - Remove from mist as soon as possible to avoid leaf disease issues.
  Elevated humidity at the table level is better than misting on the foliage.
- The Scopia Gulliver™ Series is well branched so no pinch is required.
  Spray fungicide to control leaf diseases.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.2	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist		Daminozide if needed- maximum 1,500 ppm, we recommend to split it to 2 applications of 750 ppm each	Day of sticking	
Week 2	5.6 to 6.2	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.2	.90 to 1.0	Cool to 65° - 68° (18° - 20° C)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.2	1.0 to 1.2	65° - 68° (18° - 20° C)	Feed 100 ppm to 150 ppm				

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SCOPIA® GULLIVER™

For additional information and availability: SCOPIA® GULLIVER™

Bacopa / Sutera

- Maintain lower pH levels for optimal Iron (Fe) and Manganese (Mn) availability to plants
- Consistent soil moisture is best to maximize root structure and plant health
- Cool temperature is best for high-quality finishing

FINISHING TIPS

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch - Optional No lighting necessary	100 - 150 ppm N	Spray application of Daminozide if required – 1,500 ppm
(12 cm) 5” pot 1 ppp	65°-68° F (18°-20° C)			
8 to 9 wks			Soil EC 1.0-1.2 pH 5.6 to 6.0	
(15 cm) 6 ½” 1 ppp				
8 to 9 wks				
(20 cm) 8” 3 ppp				
8 to 9 wks				
(25 cm) 10” 3 ppp				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.6 to 6.0	1.0-1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Day Neutral	Daminozide spray application if needed	Spray fungicide after transplant	
Week 6 to 12	5.6 to 6.0	1.0-1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Not Required			

- Consistent soil moisture levels are best – allow soil to dry slightly between irrigations
- Fungicide applications and good air movement to reduce disease pressures
- Scout for Aphids on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

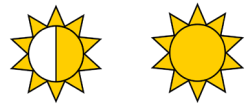
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PROPAGATION TIPS

SCOPIA® GULLIVER™ COMPACT

Bacopa / Sutera

For additional information and availability: SCOPIA® GULLIVER™ COMPACT



Stick on priority – Number 1 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°/74°F (22°/23°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification** - Remove from mist as soon as possible to avoid leaf disease issues. Elevated humidity at the table level is better than misting on the foliage.

- The Scopia Gulliver™ Compact Series is well branched. Spray fungicide to control leaf diseases.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6/6.2	0.80	72°/74°F (22°/23°C)	50 ppm N in mist			Day of sticking	
Week 2	5.6/6.2	.80 to .90	72°/74°F (22°/23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6/6.2	.90 to 1.0	Cool to 68°/70°F (20°/21°C)	Feed 100 ppm to 150 ppm				
Week 4	5.6/6.2	1.0 to 1.2	65°/68°F (18°/20°C)	Feed 100 ppm to 150 ppm		Daminozide if needed- maximum 1,500 ppm, we recommend to split it to 2 applications of 750 ppm each		

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FINISHING TIPS

SCOPIA® GULLIVER™ COMPACT

For additional information and availability: SCOPIA® GULLIVER™ COMPACT

Bacopa / Sutera

- Maintain lower pH levels for optimal Iron (Fe) and Manganese (Mn) availability to plants
- Maintain soil moisture at medium level to maximize root structure
- Cool temperature is best for high quality finishing

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch / Optional No lighting necessary	100 - 150 ppm N	Spray application of Daminozide if required – 1,500 ppm
(12 cm) 5” pot 1 ppp	65°-68° F (18°-20° C)			
8 to 9 wks	65°-68° F (18°-20° C)		Soil EC 1.0 - 1.2 pH 5.6 to 6.0	
(15 cm) 6 ½” 1 ppp				
8 to 9 wks				
(20 cm) 8” 3 ppp				
8 to 9 wks				
(25 cm) 10” 3 ppp				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.6 to 6.0	0.8 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Day Neutral	Daminozide spray application if needed	Spray fungicide after transplant	
Week 6 to 12	5.6 to 6.0	0.8 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Not Required			

- Consistent soil moisture levels are best – allow soil to dry slightly between irrigations
- Fungicide applications and good air movement to reduce disease pressures
- Scout for Aphids on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

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DOUBLET™

Begonia semperflorens

For additional information and availability: DOUBLET™

PROPAGATION TIPS

Stick on priority – Number 3 out of 4 categories

- **Do not store below 10° C (50° F)**

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72° / 74° F (22° / 23° C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 68° / 70° F (20° / 21° C)		Weeks 3-4 100 ppm N	Day of sticking & Week 2

- **Irrigation specification -** Remove from mist as soon as possible

- Drying of cuttings during rooting will extend days to fully rooted liner. In propagation, maintain uniform moisture levels on plants and in the soil. Extremely high light conditions and excessive drying will damage leaves during propagation opening the plant system for Botrytis

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.5 / 6.2	0.80	72° / 74° F (22° / 23° C)	50 ppm N in mist			Day of sticking	
Week 2	5.5 to 6.2	.80 to .90	72° / 74° F (22° / 23° C)	50 ppm N in mist			Second fungicide app	
Week 3	5.7 to 6.2	.90 to 1.0	Cool to 68° / 70° F (20° / 21° C)	Feed 100 ppm N				
Week 4	5.7 to 6.2	0.9 to 1.0	68° F (20° C)	Feed 100 ppm N				

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DOUBLET™

For additional information and availability: DOUBLET™

Begonia semperflorens

- Do not pinch Begonia Doublets
- PGR for height control is Chlormequat

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
5 to 7 wks	Average Day	No pinch should be required	100 - 200 ppm N	chlormequat at 750 to 1,500 PPM
(12 cm) 5” pot	68° to 72°F (20° to 22°C)			
6 to 8 wks			Soil EC 1.0 - 1.2 pH 5.7 to 6.2	
(15 cm) 6 ½”				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.7 to 6.2	1.0 to 1.2	68° to 72°F (20° to 22°C)	feed 100 to 150 ppm	Day Neutral	chlormequat at 750 to 1,500 PPM	Spray fungicide after transplant	
Week 5 to 12	5.7 to 6.2	1.0 to 1.2	68° to 72°F (20° to 22°C)	Feed 100 to 150 ppm	Not Required			

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

- Plant growth is based on moisture levels, temperatures and feed rates. Lower temperatures, lower soil moisture levels and lower feed rates will slow growth and finish a more compact plant
- Drench fungicide to prevent Rhizoctonia and other water mold diseases - Maintain good airflow and allow plants to dry before nightfall
- Scout for Whitefly, Thrips and Mealybug
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

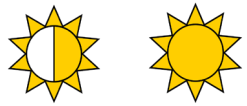
FINISHING TIPS

DANZIGER

TIMELESS™ COLLECTION

For additional information and availability: TIMELESS™

Bidens ferulifolia



Stick on priority – Number 4 out of 4 categories

PROPAGATION TIPS

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°/74°F (22°/23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8/6.2	0.80	72°/74°F (22°/23°C)	50 ppm N in mist			Day of sticking	
Week 2	5.8/6.2	.80 to .90	72°/74°F (22°/23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8/6.2	.90 to 1.0	Cool to 68°/70°F (20°/21°C)	Feed 100 ppm to 150 ppm		Daminozide spray at 2,500 ppm week 3.		
Week 4	5.8/6.2	1.0 to 1.2	65°/68°F (18°/20°C)	Feed 100 ppm to 150 ppm				

- **Irrigation specification -** Remove from mist as soon as possible

- Apply broad spectrum fungicide the day of sticking to control leaf disease.
  For the more vigorous varieties, apply Daminozide spray at 2,500 ppm week 3.
- Pinch week 4 in the liner - Optional

DANZIGER

TIMELESS™ COLLECTION

For additional information and availability: TIMELESS™

Bidens ferulifolia

FINISHING TIPS

- Pinch is optional, possibly on more vigorous varieties
- Cool temperature finishing for best quality and optimum flower color

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 8 wks	Average Day	Pinch - optional Not Required - Day Neutral	100 - 200 ppm N	Daminozide at 1500 to 2500 ppm on more vigorous varieties
(12 cm) 5" pot 1 ppp	65° - 68° (18° - 20° C)			
7 to 9 wks			Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½" 1 ppp				
7 to 9 wks				
(20 cm) 8" 3 ppp				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Not required	Daminozide as needed 2500 to 3,750 ppm	Spray fungicide after transplant	
Week 6 to 12	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 200 ppm	Not required	Paclobutrazol Drench at 1 ppm if needed		Paclobutrazol 1 ppm drench when plants reach finish point of ready to sell

- PGR - Spray Daminozide at 2,500 to 3,750 ppm on young finished plants - Paclobutrazol drench application at 1 ppm for finishing if required for the more vigorous varieties
- Maintain good airflow and allow plants to dry before nightfall. Drench for protection against Rhizoctonia after transplant and again during finishing stage.
- Scout for Aphids & Thrips on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

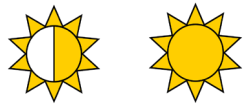
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PROPAGATION TIPS

FRESCO™ & BRASCO

Brachyscome angustifolia

For additional information and availability: FRESCO™ BRASCO™



Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72° / 74° F (22° / 23° C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° to 68° F (18° to 20° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 / 6.2	0.80	72° / 74° F (22° / 23° C)	50 ppm N in mist			Day of sticking	
Week 2	5.6 to 6.2	.80 to .90	72° / 74° F (22° / 23° C)	50 ppm N in mist		750 ppm Daminozide	Second fungicide app	
Week 3	5.6 to 6.2	.90 to 1.0	Cool to 68° / 70° F (20° / 21° C)	Feed 100 ppm to 150 ppm		Daminozide as needed		
Week 4	5.6 to 6.2	.90 to 1.0	65° to 68° F (18° to 20° C)	feed 100 to 150 ppm		Daminozide as needed		

- **Irrigation specification -** Remove from mist as soon as possible

- High light and warm temperatures will maintain a good proportion of flowers to foliage.
- Maintain lower EC levels for best growth and flower size since higher EC will hinder plant quality.

DANZIGER

FRESCO™ & BRASCO

For additional information and availability: FRESCO™ BRASCO™

Brachyscome angustifolia

- Pinch week 3/4 in the liner or at transplant
- Monitor EC levels so they are not elevated
- Do not over irrigate in the early stages of plant growing

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 8 wks	Average Day	Pinch No lighting required for flowering	100 - 150 ppm N	In liner and finish stages
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 10 wks			Soil EC 0.8 - 1.0 pH 5.6 to 6.2	
(15 cm) 6 ½”				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.6 to 6.2	0.8 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Day Neutral	Daminozide as needed	Spray fungicide after transplant	
Week 5 to 13	5.6 to 6.2	0.8 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Not Required			

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- Avoid covering plant meristem at transplant
- Additional Iron (Fe) or Manganese (Mn) may be required, depending on water quality
- PGR - Spray Daminozide at 750 to 2000 ppm on young & finished plants
- Maintain good airflow and allow plants to dry before nightfall
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

FINISHING TIPS

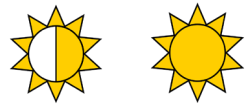
DANZIGER

PROPAGATION TIPS

CHEERS™

Calendula hybrida

For additional information and availability: CHEERS™



Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 72°-74°F (22°-23°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 70°-72°F (21°-22°C)		Weeks 3-5 80 ppm N	Apply broad spectrum Week 2

- **Irrigation specification -** Remove from mist as soon as possible. Reduce mist heading into evening conditions to reduce the risk for disease.
- Application of IBA can hasten rooting. Daminozide at 2,500 ppm day of sticking.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.7 to 6.3	0.80	72°-74°F (22°-23°C)	50 ppm N in mist	Not required	See the comments below	Day of sticking	
Week 2	5.7 to 6.3	.80 to .90	72°-74°F (22°-23°C)	50 ppm N in mist	Not required		Second fungicide app	
Week 3	5.7 to 6.3	.90 to 1.0	Cool to 70°-72°F (21°-22°C)	80 ppm N in mist	Not required			
Week 4	5.7 to 6.3	1.0 to 1.2	70°-72°F (21°-22°C)	80 ppm N in mist	Not required			
Week 5	5.7 to 6.3	1.0 to 1.2	70°-72°F (21°-22°C)	80 ppm N in mist	Not required			Pinching is not needed

DANZIGER

CHEERS™

For additional information and availability: CHEERS™

Calendula hybrida

FINISHING TIPS

- Pinch is not required
- Cool temperature finishing 50° to 55° F (10° to 13° C) nights for best quality

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	No pinch necessary No lighting necessary	150 - 200 ppm N	Daminozide at 2,500 to 3,750 ppm spray applications
(12 cm) 5” pot	60° - 65° (15° - 18° C)			
8 to 9 wks	1 plant per pot		Soil EC 1.0 - 1.5 pH 5.7 to 6.3	
(15 cm) 6 ½”				
8 to 9 wks				
(20 cm) 8”	3 plants per container			

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- Scout for Aphids and Thrips on a regular basis
- Maintain even moisture level of soil – extreme dry-down will develop yellow lower leaves
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.7 to 6.3	1.0 to 1.2	60° - 65° F (15° - 18° C)	Feed 100 to 150 ppm	Day Neutral	Daminozide as needed	Spray fungicide after transplant	
Week 6 to 12	5.7 to 6.3	1.0 to 1.5	60° - 65° F (15° - 18° C)	Feed 150 to 200 ppm	Not Required	Paclobutrazol Drench at 1 ppm		Paclobutrazol 1 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

DANZIGER

PROPAGATION TIPS

COLIBRI™

Calibrachoa hybrida

For additional information and availability: COLIBRI™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Optional if needs to have good control of the liner	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.2 to 5.8	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist			Day of sticking	Feeding through Mist
Week 2	5.2 to 5.8	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.2 to 5.8	.90 to 1.0	Cool to 68° / 70° F (20° / 21° C)	Feed 100 ppm to 150 ppm		Daminozide as needed - 2,500 ppm		
Week 4	5.2 to 5.8	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 ppm to 150 ppm				
Week 5	5.2 to 5.8	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 ppm to 150 ppm	Optional			

- **Irrigation specification -** Remove from mist as soon as possible

- Application of IBA can hasten rooting.
- Light in propagation (supplemental lighting don't pass the 12 hours total) for optimal growth and to hasten crop time- as Calibrachoa can be slower to root and develop a plant structure under short days and moreover under low light conditions.
- Daminozide at 2,500 ppm 3rd week and if the plants are stretchy can be earlier.

DANZIGER

COLIBRI™

For additional information and availability: COLIBRI™

Calibrachoa hybrida

- Allow the plants to dry between irrigation (but not too much).
- Quality improves when finished with cool temperatures

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Supplemental lighting if needed - don't pass the 12.	100 - 150 ppm N	In liner and finish stages
(12 cm) 5" pot 1 ppp	65° - 68° (18° - 20° C)			
8 to 9 wks			Soil EC 1.0 - 1.2 pH 5.6 to 6.0	
(15 cm) 6 ½" 1 ppp				
8 to 10 wks				
(20 cm) 8" 3 ppp				
8 to 10 wks				
(25 cm) 10" 3 ppp				

- <u>Maintain the right pH for good absorption of Fe and Mg</u>
  If the pH is changed, please contact us for the required adjustments.
- Scout for Aphids and Thrips on a regular basis
- supplemental lighting if needed - don't pass the 12 hours total for optimal growth and to hasten crop time under short days and moreover under low light conditions.
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.6 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Day Neutral	Daminozide as needed	Spray fungicide after transplant	
Week 6 to 12	5.6 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	See comment below	Paclobutrazol Drench at 2 ppm if needed		Paclobutrazol 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

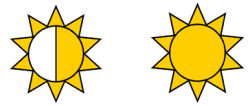
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PROPAGATION TIPS

EYECONIC™

Calibrachoa hybrida

For additional information and availability: EYECONIC™



Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification -** Remove from mist as soon as possible

- Application of IBA can hasten rooting.
- Light in propagation (supplemental lighting don't pass the 12 hours total) for optimal growth and to hasten crop time - as Calibrachoa can be slower to root and develop a plant structure under short days and moreover under low light conditions.
- Daminozide at 2,500 ppm 3rd week and if the plants are stretchy can be earlier.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.2 / 5.8	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist			Day of sticking	
Week 2	5.2 to 5.8	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.2 to 5.8	.90 to 1.0	Cool to 68° / 70° F (20° / 21° C)	Feed 100 ppm to 150 ppm		Daminozide as needed - 2,500 ppm		
Week 4	5.2 to 5.8	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 ppm to 150 ppm				
Week 5	5.2 to 5.8	1.0 to 1.2	65° to 68° F (18 °to 20° C)	Feed 100 ppm to 150 ppm	Optional			

DANZIGER

EYECONIC™

For additional information and availability: EYECONIC™

Calibrachoa hybrida

- Pinch is optional
- Quality improves when finished with cool temperatures

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Supplemental lighting if needed - don't pass the 12.	100 - 150 ppm N	In liner and finish stages
(12 cm) 5" pot 1 ppp	65° - 68° (18° - 20° C)			
8 to 9 wks			Soil EC 1.0 - 1.2 pH 5.6 to 6.0	
(15 cm) 6 ½" 1 ppp				
8 to 10 wks				
(20 cm) 8" 3 ppp				
8 to 10 wks				
(25 cm) 10" 3 ppp				

- <u>Maintain the right pH for good absorption of Fe and Mg</u>
  If the pH is changed, please contact us for the required adjustments.
- Scout for Aphids and Thrip on regular basis
- supplemental lighting if needed - don't pass the 12 hours total for optimal growth and to hasten crop time under short days and moreover under low light conditions.
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.6 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Day Neutral	Daminozide as needed	Spray fungicide after transplant	
Week 6 to 12	5.6 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	See comment below	Paclobutrazol Drench at 2 ppm if needed		Paclobutrazol 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

FINISHING TIPS

DANZIGER

PROPAGATION TIPS

LIA™

Calibrachoa hybrida

For additional information and availability: LIA™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification -** Remove from mist as soon as possible

- Application of IBA can hasten rooting.
- Light in propagation (supplemental lighting don't pass the 12 hours total) for optimal growth and to hasten crop time- as Calibrachoa can be slower to root and develop a plant structure under short days and moreover under low light conditions.
- Daminozide at 2,500 ppm 3rd week and if the plants are stretchy can be earlier.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.2 to 5.8	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist			Day of sticking	Feeding through Mist
Week 2	5.2 to 5.8	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.2 to 5.8	.90 to 1.0	Cool to 68° / 70° F (20° / 21° C)	Feed 100 ppm to 150 ppm		Daminozide as needed - 2,500 ppm		
Week 4	5.2 to 5.8	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 ppm to 150 ppm				
Week 5	5.2 to 5.8	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 ppm to 150 ppm	Optional			

DANZIGER

LIA™

For additional information and availability: LIA™

Calibrachoa hybrida

- Pinch is optional
- Quality improves when finished with cool temperatures

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Supplemental lighting if needed - don't pass the 12.	100 - 150 ppm N	In liner and finish stages
(12 cm) 5" pot 1 ppp	65° - 68° (18° - 20° C)			
8 to 9 wks			Soil EC 1.0 - 1.2 pH 5.6 to 6.0	
(15 cm) 6 ½" 1 ppp				
8 to 10 wks				
(20 cm) 8" 3 ppp				
8 to 10 wks				
(25 cm) 10" 3 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.6 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Day Neutral	Daminozide as needed	Spray fungicide after transplant	
Week 6 to 12	5.6 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	See comment below	Paclobutrazol Drench at 2 ppm if needed		Paclobutrazol 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

- Maintain the right pH for good absorption of Fe and Mg
  If the pH is changed, please contact us for the required adjustments.
- Scout for Aphids and Thrips on a regular basis
- supplemental lighting if needed - don't pass the 12 hours total for optimal growth and to hasten crop time under short days and moreover under low light conditions.
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

FINISHING TIPS

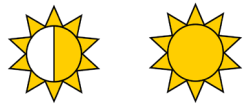
DANZIGER

PROPAGATION TIPS

OMBRE™

Calibrachoa hybrida

For additional information and availability: OMBRE™



Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification -** Remove from mist as soon as possible

- Application of IBA can hasten rooting.
- Light in propagation (supplemental lighting don't pass the 12 hours total) for optimal growth and to hasten crop time- as Calibrachoa can be slower to root and develop a plant structure under short days and moreover under low light conditions.
- Daminozide at 2,500 ppm 3rd week and if the plants are stretchy can be earlier.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.2 / 5.8	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist			Day of sticking	Feeding through Mist
Week 2	5.2 to 5.8	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.2 to 5.8	.90 to 1.0	Cool to 68° / 70° F (20° / 21° C)	Feed 100 ppm to 150 ppm		Daminozide as needed - 2,500 ppm		
Week 4	5.2 to 5.8	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 ppm to 150 ppm				
Week 5	5.2 to 5.8	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 ppm to 150 ppm	Optional			

DANZIGER

FINISHING TIPS

OMBRE™

For additional information and availability: OMBRE™

Calibrachoa hybrida

- Pinch is optional
- Quality improves when finished with cool temperatures

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Supplemental lighting if needed - don't pass the 12.	100 - 150 ppm N	In liner and finish stages
(12 cm) 5" pot 1 ppp	65° - 68° (18° - 20° C)			
8 to 9 wks			Soil EC 1.0 - 1.2 pH 5.6 to 6.0	
(15 cm) 6 ½" 1 ppp				
8 to 10 wks				
(20 cm) 8" 3 ppp				
8 to 10 wks				
(25 cm) 10" 3 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.6 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Day Neutral	Daminozide as needed	Spray fungicide after transplant	
Week 6 to 12	5.6 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	See comment below	Paclobutrazol Drench at 2 ppm if needed		Paclobutrazol 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

- Maintain the right pH for good absorption of Fe and Mg
  If the pH is changed, please contact us for the required adjustments.
- Scout for Aphids and Thrips on a regular basis
- supplemental lighting if needed - don't pass the 12 hours total for optimal growth and to hasten crop time under short days and moreover under low light conditions.
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

CLIO™

Cleome hybrida

For additional information and availability: CLIO™

PROPAGATION TIPS

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Suggested	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 18° - 20° C (65° - 68° F)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible.

- Evenly moist soil is best for rooting
- Daminozide at 2,500 – 3,750 ppm week 4
- Pinch is optional if you need to control the liner

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.80 to .90	Cool to 20° - 21° C (68° - 70° F)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	.80 to .90	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Daminozide as needed		
Week 5	5.8 to 6.2	.80 to .90	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Daminozide as needed		Pinch optional

DANZIGER

CLIO™

For additional information and availability: CLIO™

Cleome hybrida

- Maintain soil evenly moist
- High light levels best for finishing

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 10 wks	Average Day	Pinch – Suggested day of transplant	150-200 ppm N	Daminozide spray application @ 2000 – 3750 ppm
15 cm (1 gallon) 1 ppp	61° to 65° F (16° to 18°C)			
10-12 wks			Soil EC 1.2 to 1.5 pH 5.8 to 6.2	
17-19 cm (6.5-7.5 inch) 1 ppp				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
transplant to week 6	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20°C)	Feed 100 to 150 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Phytophthora
Week 6 to 14	5.8 to 6.2	1.0 to 1.2	61° to 65° F (16° to 18°C)	Feed 150 to 200 ppm		Paclobutrazol 2 ppm drench when plants reach 85% of desired size		

- PGR - Spray Daminozide at 2,500 to 3,750 ppm on finished plants early in crop schedule
- Maintain good airflow and allow plants to dry before nightfall. The foliage is susceptible to Oedema.
- Scout for Aphids, Mites, Thrips and Whitefly
- Drench after transplant for Botrytis and Pythium / Phytophthora. Scout for Powdery Mildew
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

FINISHING TIPS

DANZIGER

PROPAGATION TIPS

GOLF™

For additional information and availability: GOLF™

Craspedia spp

Stick on priority – Number 1 out of 4 categories

Don't store cuttings and plugs in cold store (below 10 C/ 50 F)

Foliage shall be kept dry as possible – see misting guidelines in the next slide

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 / 6 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Suggested	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 – 5/6 65° - 68° F (18°- 20° C)		Weeks 3-5 100 to 150 ppm N	Spray fungicide to control Botrytis and bacteria Week 2

- **Irrigation specification** – Reduce mist shortly after sticking the cuttings (day 2 or 3).

- Dip cut ends of cuttings in rooting hormone prior to sticking or spray application of IBA- This will enable more uniform rooting.
- Daminozide at 2,500 day of sticking. Pinch plants when they begin to elongate to create branching at base of plant.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 / 6.4	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist	Optional		Day of sticking	
Week 2	5.8 to 6.4	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist	Optional		Second fungicide app	Fungicide to control Botrytis!
Week 3	5.8 to 6.4	.90 to 1.0	Cool to 68° / 70° F (20° / 21° C)	Feed 100 ppm to 150 ppm	Optional	Daminozide as needed		
Week 4	5.8 to 6.4	1.0 to 1.2	65° to 68° F (18° / 20° C)	Feed 100 ppm to 150 ppm	Optional	Daminozide as needed		
Week 5	5.8 to 6.4	1.0 to 1.2	65° to 68° F (18° / 20° C)	Feed 100 ppm to 150 ppm	Optional	Daminozide as needed		

DANZIGER

GOLF™

For additional information and availability: GOLF™

Craspedia spp

PROPAGATION TIPS

Rooting – Misting guidelines

Misting & Temperature Schedule:

- **First 3-4 weeks (Callus Formation):**
  - Use frequent short misting pulses during the day (**6 sec every 6 min**)
  - No misting required at night unless using heated rooting media
  - If heat is applied, mist **2-3 times at night (15-20 sec each)**
  - **Ideal temperature: 68-72°F (20-22°C)** for best root initiation
- **Post root formation (Weeks 4+):**
  - Reduce misting to **1-2 long pulses per day (2-3 min each)**
  - No fertilizer in mist to prevent crown and root rot
  - **Temperature should be gradually reduced to 65-68°F (18-20°C)** to harden plants
  - Proper timing of mist reduction is critical for plant health



DANZIGER

GOLF™

For additional information and availability: GOLF™

Craspedia spp

- Pinch week 3 in liner or at transplant (according to the plant development)
- Plant liners into new soil to support plants at maturity
- **Don't store cuttings and liners in cold store (below 10 C/ 50 F)**

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 10 wks	Average Day	Pinch –Yes Additional lighting not required	100 - 150 ppm N	In liner and finish stages
(12 cm) 5” pot 1 ppp	65° - 68° (18° - 20° C)			
10 to 12 wks			Soil EC 1.0 - 1.2 pH 5.8 to 6.4	
(15 cm) 6 ½” 1 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm		B-9 as needed	Spray fungicide after transplant	
Week 6 to 14	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm		Paclobutrazol Drench at 1 to 2 ppm		Only when finish for the desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - Spray Daminozide at 2500 ppm for finishing plants
- Paclobutrazol drench application at 1 to 2 ppm for finishing if required
- Drench broad spectrum fungicide after transplant
- Scout for Aphids on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

FINISHING TIPS

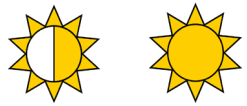
DANZIGER

PROPAGATION TIPS

CUBANO™

Cuphea

For additional information and availability: CUBANO™



Stick on priority – Number 4 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72° - 74° F (22° - 23° C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)	Pinch is required on the 3rd week	Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification -** Remove from mist as soon as possible

- Apply broad spectrum fungicide the day of sticking to control leaf disease. Proper air movement is required to control disease issues during propagation
- Allow some drying of soil between irrigations in weeks 3 and 4
- Calcium sprays increase stem strength

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.1	0.80	72° - 74° F (22° - 23° C)	50 ppm N in mist			Day of sticking	
Week 2	5.6 to 6.1	.80 to .90	72° - 74° F (22° - 23° C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.1	.90 to 1.0	Cool to 68° - 70° F (20° - 21° C)	Feed 100 ppm to 150 ppm		Daminozide as needed – 2,500 ppm		
Week 4	5.6 to 6.1	1.0 to 1.2	65° - 68° F (18° - 20° C)	feed 100 to 150 ppm		Daminozide as needed – 2,500 ppm		

DANZIGER

FINISHING TIPS

CUBANO™

Cuphea

For additional information and availability: CUBANO™

- Pinch is required in liner stage
- Cuphea flowering is hastened with warm temperatures and long days

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 8 wks	Average Day	Pinch – Recommended Long days hastens flowering	150 – 200 ppm N	Daminozide at 2500 to 3750 ppm on more vigorous varieties
(12 cm) 5” pot 1 ppp	65° - 68° (18° - 20° C)			
7 to 9 wks	1 ppp		Soil EC 1.0 - 1.2 pH 5.6 to 6.1	
(15 cm) 6 ½”				
7 to 10 wks				Paclobutrazol 1 to 2 ppm drench to finish high-quality plants
(20 cm) 8”	3 ppp			

- PGR - Spray Daminozide at 2500 ppm on young finished plants
- Maintain good airflow and allow plants to dry before nightfall
- Calcium sprays increase stem strength and reduce botrytis
- Not susceptible to Oedema
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.6 to 6.1	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Not required	Daminozide as needed 2,500 ppm	Spray fungicide after transplant	
Week 6 to 12	5.6 to 6.1	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	Not required	Paclobutrazol Drench at 1 to 2 ppm		Only when finish and desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

DANZIGER

PROPAGATION TIPS

CHÉRIE™

Dahlia variabilis

For additional information and availability: CHÉRIE™

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification -** Remove from mist as soon as possible

- Apply broad spectrum fungicide the day of sticking to control leaf disease including control of Powdery Mildew
- Proper air movement is required to control disease issues during propagation
- Night interruption 10pm to 2am or day length extension of 24 hours day started day of sticking at least 10-foot candles (2 uMol), this must be done during the full life of the liner/plug. 2 weeks longer for large pots 10-inch or larger.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist	Yes		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist	Yes		Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 65° - 68° F (18° - 20° C)	Feed 100 ppm to 150 ppm	Yes	Daminozide as needed at 750 ppm		
Week 4	5.8 to 6.2	1.0 to 1.2	65° - 68° F (18° - 20° C)	Feed 100 to 150 ppm	Yes	And another application of 750 ppm only if needed		

DANZIGER

FINISHING TIPS

CHÉRIE™

For additional information and availability: CHÉRIE™

Dahlia variabilis

- Pinch is optional, but not required
- Continue Night Interruption or 14 hour days after transplant – extended day

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 To 9 wks	Average Day	Long days required for uniform flowering	150 – 200 ppm N	Daminozide as needed 750 ppm in two applications
(12 cm) 5” pot	67° - 69° (19° - 20° C)			
8 to 10 wks	1 ppp		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½”				
8 to 10 wks		Extend the day to 14 hours		
(25 cm) 10”	3 ppp			

- Spray to control Powdery Mildew after transplant
- PGR - Spray Daminozide at 750 ppm in 2 applications on young finished.
- Scout for Aphids, Thrips, Spider Mites and Leaf-miners
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 5	5.8 to 6.2	1.0 to 1.2	67° to 69° F (19° to 20° C)	Feed 150 to 200 ppm	Required	Daminozide as needed 750 ppm in two applications	Spray fungicide after transplant	
Week 6 to 12	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	Required		Include Powdery Mildew control	

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

DANZIGER

PROPAGATION TIPS

DARLIN'™

Dahlia variabilis

For additional information and availability: DARLIN™

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification -** Remove from mist as soon as possible

- Apply broad spectrum fungicide the day of sticking to control leaf disease including control of Powdery Mildew
- Proper air movement is required to control disease issues during propagation
- Night interruption 10pm to 2am or day length extension of 24 hours day started day of sticking at least 10-foot candles (2 uMol), this must be done during the full life of the liner/plug. 2 weeks longer for large pots 10-inch or larger

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist	Yes		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist	Yes		Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 65° - 68° F (18° - 20° C)	Feed 100 ppm to 150 ppm	Yes	Daminozide as needed at 750 ppm		
Week 4	5.8 to 6.2	1.0 to 1.2	65° - 68° F (18° - 20° C)	Feed 100 to 150 ppm	Yes	And another application of 750 ppm only if needed		

DANZIGER

DARLIN'™

Dahlia variabilis

For additional information and availability: DARLIN™

FINISHING TIPS

- Pinch is optional but not required
- Continue night interruption lighting or 14 hour days after transplant – extended day

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 9 wks	Average Day	Long days required for uniform flowering	150 – 200 ppm N	Daminozide as needed 750 ppm in two applications
(12 cm) 5" pot	67° - 69° (19° - 20° C)			
8 to 10 wks	1 ppp		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½"				
8 to 10 wks		Extend the day to 14 hours		
(25cm) 10"	3 ppp			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.8 to 6.2	1.0 to 1.2	67° to 69° F (19° to 20° C)	Feed 150 to 200 ppm	Required	Daminozide as needed 750 ppm in two applications	Spray fungicide after transplant	
Week 6 to 10	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	Required		Include Powdery Mildew control	

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- Spray to control Powdery Mildew after transplant
- PGR - Spray Daminozide at 750 ppm in 2 applications on young finished
- Scout for Aphids, Thrips, Spider Mites and Leaf-miners
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

PROPAGATION TIPS

TRINITY™

Diascia barberae

For additional information and availability: TRINITY™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 68° - 70° (20° - 21° C)		Weeks 3-5 100 to 150 ppm N	Apply broad spectrum Week 2

- **Misting specification -** Remove from mist as soon as possible
- Spray adjuvant at sticking

- Maintain warm temperatures allowing plants to develop.
- Spray Daminozide at 2,500 to 3,7500 ppm
- Pinch is optional week 4 or at transplant only if need to control the liner

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 / 6.2	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist	Not required		Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	70°-72° F (21° - 22°C)	Feed 100 ppm to 150 ppm	Not required			
Week 4	5.8 to 6.2	.90 to 1.0	Cool to 68° / 70° F (20° / 21° C)	Feed 100 to 150 ppm	Not required	Daminozide as needed		Pinch
Week 5	5.8 to 6.2	0.9 to 1.0	68° - 70° (20° - 21° C)	Feed 100 to 150 ppm	Not required	Daminozide as needed		

DANZIGER

TRINITY™

For additional information and availability: TRINITY™

Diascia barberae

- Cool temperature finishing for best quality
- Plant liners above new soil – not to bury plant meristem

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 9 wks	Average Day	Pinch –Yes Day Neutral	100 – 150 ppm N	In liner and finish stages
(12 cm) 5” pot 1 ppp	65° - 68° (18° - 20° C)			
8 to 10 wks			Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½” 1 ppp				

- PGR - Spray Daminozide at 2500 to 3750 ppm for finishing plants
- Paclobutrazol – Do not apply
- Spray broad spectrum fungicide after transplant
- Scout for Aphids and Thrips on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm		Daminozide as needed	Spray fungicide after transplant	
Week 6 to 12	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm				Do not apply Paclobutrazol

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

DANZIGER

PROPAGATION TIPS

DuraBella®
Long lasting beauty

For additional information and availability: DuraBella®

Stick on priority - Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks Average for each Genera	Weeks 1 - 2 21° - 22°C (70°-72° F)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 20° - 21° C (68° - 70° F)		Weeks 3-5 100 ppm N	Apply broad spectrum Week 2

- **Misting specification -** Remove from mist as soon as possible
  - Spray adjuvant at sticking

- Maintain warm temperatures allowing plants to develop
- Spray Daminozide at 2000-2500 on genera requiring control
- Pinch is recommended week 4 or at transplant on items requiring pinch

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.1	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.6 to 6.1	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist	Not required		Second fungicide app	
Week 3	5.6 to 6.1	.90 to 1.0	21° - 22°C (70°-72° F)	Feed 50 ppm to 100 ppm	Not required			
Week 4	5.6 to 6.1	1.0 to 1.2	20° C (68° F)	Feed 100 to 150 ppm	Not required			
Week 5	5.6 to 6.1	1.0 to 1.2	20° C (68° F)	Feed 100 to 150 ppm	Not required	Daminozide on items requiring		

DANZIGER

FINISHING TIPS

DuraBella®
Long lasting beauty

For additional information and availability: DuraBella®

- Keep the temperatures moderately warm to allow plants to continue to develop (average daily temperature at 65° F (18° C)
- Plant components close to center of basket to allow them to mix

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch – Yes on some items	150 - 200 ppm N	In liner and finish stages on items requiring control
(20 cm) 10" 3 ppp	65° (18° C)			
8 to 9 wks	65° (18° C)		Soil EC 0.8 - 1.1 pH 5.6 to 6.1	
(25 cm) 10" or larger 3 ppp				

- PGR – Spot Spray Daminozide at 2500 ppm on components requiring control
- Paclobutrazol drench application at 1 to 2 ppm for finishing if required
- Spray broad spectrum fungicide / drench after transplant when roots are established
- Scout for Aphids, Thrips and Whiteflies on a regular basis
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.6 to 6.1	0.8 to 1.1	65° F (18° C)	Feed 100 to 150 ppm		B-9 as needed	Drench fungicide after transplant	
Week 6 to 13	5.6 to 6.1	0.8 to 1.1	65° F (18° C)	Feed 100 to 150 ppm		Paclobutrazol Drench at 1 to 2 ppm		Drench Paclobutrazol when container is 85% of size for finishing

DANZIGER

PROPAGATION TIPS

DIWALI SHOWER™

Euphorbia hypericifolia

For additional information and availability: DIWALI™

Stick on priority – Number 1 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 72° - 74° F (22° - 23° C)	Recommended	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-5 100 to 150 ppm N	Spray fungicide to control Botrytis and bacteria Week 2

- **Irrigation specification –** Spray adjuvant after sticking.

- Application of hormone IBA can hasten rooting
- Pinch is not recommended / very sensitive to ethephon applications
- Maintain moderate damp soil during rooting

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72° - 74° F (22° - 23° C)	50 ppm N in mist			Day of sticking	Feeding through Mist
Week 2	5.8 to 6.2	.80 to .90	72° - 74° F (22° - 23° C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 68° - 70° F (20° - 21° C)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	65° - 68° F (18° - 20° C)	Feed 100 ppm to 150 ppm				
Week 5	5.8 to 6.2	1.0 to 1.2	65° - 68° F (18° - 20° C)	Feed 100 ppm to 150 ppm		Daminozide as needed – 2,500 ppm		

DANZIGER

DIWALI SHOWER™

Euphorbia hypericifolia

For additional information and availability: DIWALI™

FINISHING TIPS

- Pinch is not recommended
- Over-wet soil in low light conditions can develop root disease issues, allow soil to dry between irrigations

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch not recommended No lighting necessary	150 - 200 ppm N	
(12 cm) 5" pot 1 ppp	60° - 68° (16° - 20° C)			
7 to 8 wks			Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½" 1 ppp				
7 to 8 wks				
(20 cm) 8"	3 plants per container			
7 to 8 wks				
(25 cm) 10"	3 plants per container			

- <u>Consistent soil moisture levels are best</u> – allow soil to dry slightly between irrigations
- Scout for Aphids, Thrips and Whiteflies
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 150 - 200 ppm		Daminozide as needed – 2,500 ppm	Spray fungicide after transplant	
Week 6 to 12	5.8 to 6.2	1.0 to 1.2	60° to 68° F (16° to 20° C)	Feed 150 - 200 ppm	Not Required	Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

FELICITY™

Felicia amelloides

For additional information and availability: FELICITY™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72° / 74° F (22° / 23° C))	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 / 6.2	0.80	72° / 74° F (22° / 23° C)	50 ppm N in mist	No required		Day of sticking	
Week 2	5.6 to 6.2	.80 to .90	72° / 74° F (22° / 23° C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.2	.90 to 1.0	Cool to 68° / 70° F (20° / 21° C)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.2	.90 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm		Daminozide as needed – 2,500 ppm		

- **Irrigation specification -** Remove from mist as soon as possible

- Apply broad spectrum fungicide the day of sticking to control leaf disease.

DANZIGER

FELICITY™

For additional information and availability: FELICITY™

Felicia amelloides

FINISHING TIPS

- Soil should remain evenly moist and do not run soil too wet during cooler growing conditions. Root system and foliage will develop problems under continuous wet soil conditions
- Cool temperature finishing for best quality

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	No Pinch Required Not Required Day Neutral	150-200 ppm N Soil EC 0.9 - 1.1 pH 5.6 to 6.2	Daminozide spray application at 2500 to 3750 ppm for finishing
(12 cm) 5" pot	65° - 68° (18° - 20° C)			
7 to 8 wks	1 ppp			
(15 cm) 6 ½"				
8 to 9 wks				
(20 cm) 8"	3 ppp			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.6 to 6.2	0.9 to 1.1	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	Not required	Daminozide as needed 2500 to 3750 ppm	Drench fungicide after transplant	
Week 6 to 10	5.6 to 6.2	0.9 to 1.1	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	Not required			

- PGR – If needed, spray Daminozide at 2500 ppm on young finished plants
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Aphids, Thrips and Whitefly
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID, DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

DANZIGER

PROPAGATION TIPS

CORABELLS™

Fuchsia hybrida

For additional information and availability: CORABELLS™

Stick on priority – Number 4 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 18° - 20° C (65° - 68° F)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Remove from mist as soon as root emerges

- Spray adjuvant the day of sticking. Spray broad spectrum fungicide to prevent Botrytis day of sticking and week 2
- Spray Ethephon at 300 ppm the 3rd- 4th week. This will reset flowering response. One hour of Ethephon on the leaves will be sufficient time while mist is off.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.2	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist			Day of sticking	
Week 2	5.6 to 6.2	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.2	.80 to .90	Cool to 20° - 21°C (68°-70° F)	Feed 100 ppm N				
Week 4	5.6 to 6.2	.80 to .90	18° - 20° C (65° - 68° F)	Feed 100 ppm N				
Week 5	5.6 to 6.2	.80 to .90	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Should not be required		

DANZIGER

FINISHING TIPS

CORABELLS™

For additional information and availability: CORABELLS™

Fuchsia hybrida

- Pinch is optional
- Well-branched and naturally compact plant habit
- Scout for Aphids, Thrips and Whitefly

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch is optional	150 - 200 ppm N	Should not be required
15 cm (1 gallon) 1 ppp	(16° to 18°C)			
8 to 10 wks	3 plants per container		Soil EC 0.8 – 1.2 pH 5.8 to 6.5	
28 cm (HB) 3 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.8 to |6.2	0.8 to 0.9	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm			Drench fungicide after transplant	Control of Pythium & Phytophthora
Week |6 to 13	5.8 to |6.2	0.8 to 0.9	16° - 18° C (61° - 65° F)	Feed 150 to 200 ppm			Spray fungicide in finishing protocols	Control of Bacterial Leaf Blights

- Maintain good airflow and allow plants to dry between irrigations
- High-quality plants are grown with moderate/cool temperatures and high light
- Drench after transplant for Rhizoctonia and Pythium / Phytophtho
- Good control of fungal diseases was achieved in our trials using Banrot (thiophanate-methyl + etridiazole). Always follow the product label recommendations for best results.
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

SOL SEEKER™

Helianthus hybrid

For additional information and availability: SOL SEEKER™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74°F (22°/23°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 68°-70° (20° - 21° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist heading into evening conditions to reduce disease pressures. Spray broad spectrum fungicide application day after sticking and at week 3 (include for control of Powdery Mildew)

- Application of IBA can hasten rooting
- Daminozide at 2,500 ppm week 4 or just before transplant might be required under long days and for the vigorous varieties like SOL SEEKER™ Bronze Burst and SOL SEEKER™ Honey
- Light in propagation when in short days - Extend day to 12 hours with high intensity light. Pinch in liner when roots are established or at transplant.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°/74°F (22°/23°C)	50 ppm N in mist	Extend Day		Day of sticking	Extend day to 12-14 hours
Week 2	5.8 to 6.2	.80 to .90	72°/74°F (22°/23°C)	50 ppm N in mist	Extend Day			
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 68°/70°F (20°/21°C)	Feed 100 ppm to 150 ppm	Extend Day		Second fungicide app	
Week 4	5.8 to 6.2	1.0 to 1.2	65°/68°F (18°/20°C)	Feed 100 ppm to 150 ppm	Extend Day	Daminozide as needed		Pinch at transplant

DANZIGER

FINISHING TIPS

SOL SEEKER™

Helianthus hybrid

For additional information and availability: SOL SEEKER™

- Pinch at transplant or week after transplant
  Under short days and low radiation - Keep night temperatures above 68-72° F (20-22° C).
  Lower temperatures will stall plant growth
  Longer daylength and warm temperatures will hasten growth development

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 8 wks	Average Day	Extended day lighting 12 to 14 hours if day length is below 12 hours	150 - 200 ppm N	Daminozide at 2,000 to 2,500 ppm spray applications
(12 cm) 5" pot	65° (18° C)			
8 to 9 wks	65° (18° C) 1 plant per container		Soil EC 1.0 - 1.5 pH 5.7 to 6.3	
(15 cm) 6 ½"				
8 to 9 wks				
(20 cm) 8"	1 plants per container			

- Spray for Powdery Mildew control
- Temperature is key to maintain proper growth.
  Temperatures above 65° F (18° C) is required
- Daylength extension to 12-14 hours if under short day conditions
- Scout for Aphids and Thrips on a regular basis
- Paclobutrazol soil drench is effective if needed at 1 to 2ppm for finishing
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.7 to 6.3	1.0 to 1.2	65° F (18° C)	Feed 100 to 150 ppm	See above	Daminozide as needed – 2,500 ppm	Spray fungicide after transplant	
Week 6 to 13	5.7 to 6.3	1.0 to 1.5	65° F (18° C)	Feed 150 to 200 ppm		Paclobutrazol Drench at 1 ppm		Paclobutrazol 1 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

SUNBELIEVABLE®

Helianthus annuus

Stick on priority - Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
3-4 weeks	Weeks 1 - 2 20° - 21° C (68° - 70° F)	Yes	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 20° - 21° C (68° - 70° F)		Weeks 3-5 100 ppm N	Apply broad spectrum Week 2

- **Misting specification -** Reduce mist heading into evening conditions to
- reduce disease pressures. Spray broad spectrum fungicide application day
- after sticking and at week 3 (include for control of Powdery Mildew)

- Application of K-IBA can hasten rooting.

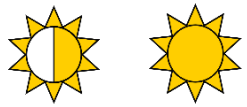
Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.5 to 5.8	2.0-2.5	20° - 21° C (68° - 70° F)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.5 to 5.8	2.0-2.5	20° - 21° C (68° - 70° F)	50 ppm N in mist	Not required		Second fungicide app	
Week 3	5.5 to 5.8	2.0-2.5	20° - 21° C (68° - 70° F)	Feed 50 ppm to 100 ppm	Not required			
Week 4	5.5 to 5.8	2.0-2.5	20° - 21° C (68° - 70° F)	Feed 50 ppm to 100 ppm	Not required			

DANZIGER

FINISHING TIPS

SUNBELIEVABLE®

Helianthus annuus



- Keep the temperatures moderately warm to allow plants to continue to develop (average daily temperature at 65° F (18° C)
- Plant components close to center of basket to allow them to mix

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 8 wks	Average Day	Pinch – Yes 7-10 after planting	150 - 200 ppm N	In liner and finish stages on items requiring control
(12-17 cm) 6.5" pot	62°- 65° (16°- 18° C)			
8 to 10 wks	62°- 65° (16°- 18° C)		Soil EC 2.0-2.5 pH 5.5 to 5.8	
(19-23 cm) 10" or larger				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 5	5.5 to 5.8	2.0 to 2.5	62°- 65° (16°- 18° C)	feed 100 to 150 ppm	Not needed	B-9 as needed	Drench fungicide after transplant	
Week 5 to 10	5.5 to 5.8	2.5 to 3.0	62°- 65° (16°- 18° C)	feed 100 to 150 ppm				

- Keep media moderately moist at all times
- A higher EC will make the leaves stronger, which will prevent the plants from becoming yellow in the supply chain.

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

MUSICA®

Impatiens walleriana

For additional information and availability: MUSICA®

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74°F (22°-23°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 68° - 70° (20° - 21° C)		Weeks 3-4 100 ppm N	Apply broad spectrum Week 2

- Spray adjuvant at sticking. Remove from mist as soon as possible

- Shade will be required for later spring/summer production
- Maintain warm temperatures allowing plants to develop
- Average daily temperature of 70° F/ 20° C
- Spray fungicide to control botrytis
- Spray Ethephon at 300 ppm the day after stick. This will reset flowering response. One hour of Ethephon on the leaves will be sufficient time while mist is off.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°-74°F (22°-23°C)	50 ppm N in mist			Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	72°-74°F (22°-23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.80 to .90	Cool to 68° - 70° (20° - 21° C)	Feed 100 ppm N				
Week 4	5.8 to 6.2	.80 to .90	68° - 70° (20° - 21° C)	Feed 100 ppm N		Should not be required		

DANZIGER

MUSICA®

For additional information and availability: MUSICA®

Impatiens walleriana

FINISHING TIPS

- Shade will be required for later spring/summer production
- Maintain a low EC level for proper growth and sizing of plant – under 1.0
- Transplant liners when plants are rooted and actively growing

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch –No Daylength Neutral	100 – 125 ppm N	Paclobutrazol at 0.5 ppm drench within 3 weeks of finishing. Allowing soil to dry between irrigations and modest fertility will keep plants more compact
(12 cm) 5” pot 1 ppp	65° to 68° F (18° to 20° C)			
8 to 9 wks	65° to 68° F (18° to 20° C)		Soil EC 0.8 - 1.0 pH 5.8 to 6.2	
(15 cm) 6 ½” pot 1 ppp				

- Spray broad spectrum fungicide after transplant
- Scout and spray for Downy Mildew
- Scout for Aphids, Leaf-miners and Thrips on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.8 to 6.2	0.8 to 0.9	65° to 68° F (18° to 20° C)	Feed 100 to 125 ppm	Day neutral	Paclobutrazol at 0.5 ppm drench within 3 weeks of finishing	Drench fungicide at transplant	
Week 6 to 13	5.8 to 6.2	0.8 to 0.9	65° to 68° F (18° to 20° C)	Feed 100 to 125 ppm				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB
	Downy Mildew	Oxathiapiprolin, Fluopicolide

DANZIGER

PROPAGATION TIPS

SOL LUNA™ Compact

Impatiens hybrid

For additional information and availability: SOL LUNA™ Compact

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3- 4 70° - 72° (21° - 22° C)		Weeks 3-5 80 ppm N	Apply broad spectrum Week 2

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	6.0 / 6.5	0.50	72° / 74° F (22° / 23° C)		Not required		Day of sticking	
Week 2	6.0 / 6.5	.80 to .90	72° / 74° F (22° / 23° C)	50 ppm N in mist	Not required		Second fungicide app	
Week 3	6.0 / 6.5	.80 to .90	72° / 74° F (22° / 23° C)	80 ppm N in mist	Not required			
Week 4	6.0 / 6.5	.80 to .90	70° / 72° F (21° / 22° C)	80 ppm N in mist	Not required			Pinch is not recommended

- Spray adjuvant at sticking

- Spray Ethephon at 300 ppm the day after stick. This will reset flowering response. One hour of Ethephon on the leaves will be sufficient time while mist is off.
- Maintain warm temperatures allowing plants to develop and flower
- Average daily temperature of 70° F / 21° C
- FAST FLOWERING cuttings: Flowering can be delayed by high temperatures and excessive nitrogen. Our trials used a low-nitrogen fertilizer (80ppm N). If this is not possible, alternate three clear-water irrigations with one fertilizer application throughout the growth.

DANZIGER

SOL LUNA™ Compact

For additional information and availability: SOL LUNA™ Compact

Impatiens hybrid

FINISHING TIPS

- Maintain a low EC level for proper growth and sizing of plant
- Transplant liners when plants are rooted and actively growing
- The best key for good production is the temperatures during cultivation

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch –No Daylength Neutral	100 - 150 ppm N	See below
(12 cm) 5” pot 1 ppp	68° - 70° (20° - 21° C)			
8 to 9 wks	68° - 70° (20° - 21° C)		Soil EC 0.8 - 1.0 pH 6.0 to 6.5	
(15 cm) 6 ½” 1 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	6.0 to 6.5	0.8 to 1.0	68° - 70° (20° - 21° C)	Feed 100 to 150 ppm		See below	Drench fungicide at transplant	
Week 6 to 13	6.0 to 6.5	0.8 to 1.0	68° - 70° (20° - 21° C)	Feed 100 to 150 ppm				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

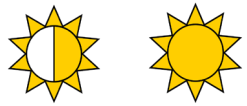
- PGR - If needed at finishing, they will respond well to a Paclobutrazol Sprench (a very light drench that reaches the media) of 0.1 ppm
- Spray broad spectrum fungicide after transplant
- Scout for Thrips and Mites on a regular basis
- FAST FLOWERING cuttings: Flowering can be delayed by high temperatures and excessive nitrogen. Our trials used a low-nitrogen fertilizer (80 ppm N). If this is not possible, alternate three clear-water irrigations with one fertilizer application throughout the growth.
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

SOL LUNA PRIME™

Impatiens hybrida

For additional information and availability: SOL LUNA PRIME™



Stick on priority – Number 2 out of 4 categories

PROPAGATION TIPS

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3- 4 70° - 72° (21° - 22° C)		Weeks 3-5 80 ppm N	Apply broad spectrum Week 2

Rooting	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 1	6.0 / 6.5	0.50	72° / 74° F (22° / 23° C)		Not required		Day of sticking	
Week 2	6.0 / 6.5	.80 to .90	72° / 74° F (22° / 23° C)	50 ppm N in mist	Not required		Second fungicide app	
Week 3	6.0 / 6.5	.80 to .90	72° / 74° F (22° / 23° C)	80 ppm N in mist	Not required			
Week 4	6.0 / 6.5	.80 to .90	70° / 72° F (21° / 22° C)	80 ppm N in mist	Not required			Pinch is not recommended

- Spray adjuvant at sticking

- Spray Ethephon at 300 ppm the day after stick. This will reset flowering response. One hour of Ethephon on the leaves will be sufficient time while mist if off.
- Maintain warm temperatures allowing plants to develop and flower
- Average daily temperature of 70° F / 21° C
- FAST FLOWERING cuttings: Flowering can be delayed by high temperatures and excessive nitrogen. Our trials used a low-nitrogen fertilizer (80ppm N). If this is not possible, alternate three clear-water irrigations with one fertilizer application throughout the growth.

DANZIGER

SOL LUNA PRIME™

For additional information and availability: SOL LUNA PRIME™

Impatiens hybrida

- Maintain a low EC level for proper growth and sizing of plant
- Transplant liners when plants are rooted and actively growing
- The best key for good production is the temperatures during cultivation

FINISHING TIPS

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
5 to 7 wks	Average Day	Pinch –No Daylength Neutral	100 - 150 ppm N	See below
(12 cm) 5” pot	68°-70° F (20°-21° C)			
7 to 8 wks	68°-70° F (20°-21° C)		Soil EC 1.0 to 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½”				

- PGR - If needed at finishing, they will respond well to a Paclobutrazol Sprench (a very light drench that reaches the media) of 0.1 ppm
- Spray broad spectrum fungicide after transplant
- Scout for Thrips and Mites on a regular basis
- FAST FLOWERING cuttings: Flowering can be delayed by high temperatures and excessive nitrogen. Our trials used a low-nitrogen fertilizer (80ppm N). If this is not possible, alternate three clear-water irrigations with one fertilizer application throughout the growth.
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.8 to 6.2	1.0 to 1.2	68°-70° F (20°-21° C)	Feed 100 to 150 ppm		See below	Drench fungicide at transplant	
Week 6 to 13	5.8 to 6.2	1.0 to 1.2	68°-70° F (20°-21° C)	Feed 100 to 150 ppm				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

DANZIGER

SUN HARMONY™

Impatiens hybrida

For additional information and availability: SUN HARMONY™

PROPAGATION TIPS

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3- 4 70° - 72° (21° - 22° C)		Weeks 3-5 80 ppm N	Apply broad spectrum Week 2

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	6.0 / 6.5	0.50	72° / 74° F (22° / 23° C)		Not required		Day of sticking	
Week 2	6.0 / 6.5	.80 to .90	72° / 74° F (22° / 23° C)	50 ppm N in mist	Not required		Second fungicide app	
Week 3	6.0 / 6.5	.80 to .90	72° / 74° F (22° / 23° C)	80 ppm N in mist	Not required			
Week 4	6.0 / 6.5	.80 to .90	70° / 72° F (21° / 22° C)	80 ppm N in mist	Not required			Pinch is not recommended

- Spray adjuvant at sticking

- Spray Ethephon at 300 ppm the day after stick. This will reset flowering response. One hour of Ethephon on the leaves will be sufficient time while mist is off.
- Maintain warm temperatures allowing plants to develop and flower
- Average daily temperature of 70° F / 21° C
- FAST FLOWERING cuttings: Flowering can be delayed by high temperatures and excessive nitrogen. Our trials used a low-nitrogen fertilizer (80ppm N). If this is not possible, alternate three clear-water irrigations with one fertilizer application throughout the growth.

DANZIGER

SUN HARMONY™

For additional information and availability: SUN HARMONY™

Impatiens hybrida

- Maintain a low EC level for proper growth and sizing of plant
- Transplant liners when plants are rooted and actively growing
- The best key for good production is the temperatures during cultivation

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch –No Daylength Neutral	100 - 150 ppm N	See below
(12 cm) 5” pot	68°-70° F (20°-21° C)			
8 to 9 wks	68°-70° F (20°-21° C)		Soil EC 0.8 to 1.0 pH 5.8 to 6.2	
(15 cm) 6 ½” pot				

- PGR - If needed at finishing, they will respond well to a Paclobutrazol Sprench (a very light drench that reaches the media) of 0.1 ppm
- Spray broad spectrum fungicide after transplant
- Scout for Thrips and Mites on a regular basis
- FAST FLOWERING cuttings: Flowering can be delayed by high temperatures and excessive nitrogen. Our trials used a low-nitrogen fertilizer (80ppm N). If this is not possible, alternate three clear-water irrigations with one fertilizer application throughout the growth.
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.8 to 6.2	0.8 to 1.0	68°-70° F (20°-21° C)	Feed 100 to 150 ppm		See below	Drench fungicide at transplant	
Week 6 to 13	5.8 to 6.2	0.8 to 1.0	68°-70° F (20°-21° C)	Feed 100 to 150 ppm				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

FINISHING TIPS

DANZIGER

PROPAGATION TIPS

Fast Flowering

Impatiens hybrid

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3- 4 70° - 72° (21° - 22° C)		Weeks 3-5 80 ppm N	Apply broad spectrum Week 2

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	6.0 / 6.5	0.50	72° / 74° F (22° / 23° C)		Not required		Day of sticking	
Week 2	6.0 / 6.5	.80 to .90	72° / 74° F (22° / 23° C)	50 ppm N in mist	Not required		Second fungicide app	
Week 3	6.0 / 6.5	.80 to .90	72° / 74° F (22° / 23° C)	80 ppm N in mist	Not required			
Week 4	6.0 / 6.5	.80 to .90	70° / 72° F (21° / 22° C)	80 ppm N in mist	Not required			Pinch is not recommended

- Spray adjuvant at sticking

- Spray Ethephon at 300 ppm the day after stick. This will reset flowering response. An hour of Ethephon on the leaves will be sufficient time while mist is off.
- Maintain warm temperatures allowing plants to develop and flower
- Average daily temperature of 70° F / 21° C
- FAST FLOWERING cuttings: Flowering can be delayed by high temperatures and excessive nitrogen. Our trials used a low-nitrogen fertilizer (80ppm N). If this is not possible, alternate three clear-water irrigations with one fertilizer application throughout the growth.

DANZIGER

FINISHING TIPS

Fast Flowering

Impatiens hybrid

- Maintain a low EC level for proper growth and sizing of plant
- Transplant liners when plants are rooted and actively growing
- The best key for good production is the temperatures during cultivation
- For faster flowering maintain low-nitrogen level

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch – No Daylength Neutral	80-100 ppm N	See below
(12 cm) 5” pot 1 ppp	68° - 70° (20° - 21° C)			
8 to 9 wks	68° - 70° (20° - 21° C)		Soil EC 0.8 - 1.0 pH 6.0 to 6.5	
(15 cm) 6 ½” 1 ppp				

- PGR - If needed at finishing, they will respond well to a Paclobutrazol sprench (a very light drench that reaches the media) of 0.1 ppm
- Spray broad spectrum fungicide after transplant
- Scout for Thrips and Mites on a regular basis
- Low-nitrogen fertilizer (80 ppm N) ideal for Fast Flowering. If this is not possible, alternate three clear-water irrigations with one fertilizer application throughout the growth.
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	6.0 to 6.5	0.8 to 1.0	68° - 70° (20° - 21° C)	Feed 80 to 100 ppm		See below	Drench fungicide at transplant	
Week 6 to 13	6.0 to 6.5	0.8 to 1.0	68° - 70° (20° - 21° C)	Feed 80 to 100 ppm				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

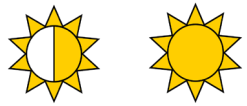
DANZIGER

PROPAGATION TIPS

STARDOM™

Jamesbrittenia

For additional information and availability: STARDOM™



Stick on priority – Number 1 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 ppm N	Day of sticking & Week 2

- **Irrigation specification -** Remove from mist as soon as possible.
- Mist enough to maintain turgid cuttings – keep on dry side.

Apply broad spectrum fungicide the day of sticking to control leaf disease.
Stardom may require Daminozide in propagation 2,500 ppm if grown warm and under low light.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.5	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist			Day of sticking	
Week 2	5.8 to 6.5	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.5	.90 to 1.0	Cool to 68°/70°F (20°/21°C)	Feed 100 ppm				
Week 4	5.8 to 6.5	.90 to 1.0	65° to 68°F (18°/20°C)	Feed 100 ppm		Daminozide as needed		

DANZIGER

STARDOM™

For additional information and availability: STARDOM™

Jamesbrittenia

- Maintain consistent soil moisture –plants should not dry to prevent wilt
- Cool temperature finishing for best quality and optimum flower color

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch – Optional Not Required – Day Neutral	100 - 200 ppm N	Daminozide at 2500 ppm on more vigorous varieties
(12 cm) 5” pot	65°-68° F (18°-20° C)			
7 to 8 wks	1 ppp		Soil EC 0.8 - 1.0 pH 5.8 to 6.5	
(15 cm) 6 ½”				
7 to 8 wks				
(20 cm) 8”	3 ppp			

- PGR - Spray Daminozide at 2500 ppm on young finished plants
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Aphids & Thrips on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.8 to 6.5	0.8 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Not required	Daminozide as needed 1500 to 2500 ppm	Spray fungicide after transplant	
Week 6 to 12	5.8 to 6.5	0.8 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 200 ppm	Not required			

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB / Triflumizole

FINISHING TIPS

DANZIGER

PROPAGATION TIPS

GEM™

Lantana camara

For additional information and availability: GEM™

Stick on priority – Number 1 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 3 72°-74° F (22° - 23°C)	Recommended	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 4 - 5 68° - 70° (20° - 21° C)		Weeks 3-5 100 to 150 ppm N	Apply broad spectrum Week 2

- **Misting specification -** Remove from mist as soon as possible -
- Spray adjuvant at sticking
- Maintain warm temperatures allowing plants to develop
- Spray Daminozide at 1,500 ppm
- Pinch is optional in week 4 or at transplant

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist	Not required		Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	72°-74° F (22° - 23°C)	Feed 100 ppm to 150 ppm	Not required			
Week 4	5.8 to 6.2	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 to 150 ppm	Not required			Pinch is optional
Week 5	5.8 to 6.2	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 to 150 ppm	Not required	Daminozide as needed		

DANZIGER

GEM™

For additional information and availability: GEM™

Lantana camara

- Keep the temperatures moderately warm to allow plants to continue to develop (average daily temperature at 73° to 75° F (23° to 24° C)
- High light levels best for finishing

FINISHING TIPS

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch – optional Night interruption or extended day- Optional	150 - 200 ppm N	In liner and finish stages
(12 cm) 5" pot 1 ppp	68° - 72° (20° - 22° C)			
8 to 9 wks	68° - 72° (20° - 22° C)		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½" 1 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 5	5.8 to 6.2	1.0 to 1.2	68° - 72° (20° - 22° C)	Feed 100 to 150 ppm		B-9 as needed	Spray fungicide after transplant	
Week 6 to 13	5.8 to 6.2	1.0 to 1.2	68° - 72° (20° - 22° C)	Feed 150 to 200 ppm				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
	Whiteflies	PYMETROZINE, PYRIPROXYFEN, PYRIFLUQUINAZON
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - Spray Daminozide at 1500 to 2500 ppm for finishing plants
- Spray broad spectrum fungicide after transplant
- Scout for Leaf Miners, Thrips and Whiteflies on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

PROPAGATION TIPS

GEM™ Compact

Lantana camara

For additional information and availability: GEM™ Compact

Stick on priority – Number 1 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 3 72°-74° F (22° - 23°C)	Recommended	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 4 - 5 68° - 70° (20° - 21° C)		Weeks 3-5 100 to 150 ppm N	Apply broad spectrum Week 2

- **Misting specification -** Remove from mist as soon as possible -
- Spray adjuvant at sticking
- Maintain warm temperatures allowing plants to develop
- Spray Daminozide at 1,500 ppm
- Pinch is optional in week 4 or at transplant

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist	Not required		Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	72°-74° F (22° - 23°C)	Feed 100 ppm to 150 ppm	Not required			
Week 4	5.8 to 6.2	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 to 150 ppm	Not required			
Week 5	5.8 to 6.2	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 to 150 ppm	Not required	Daminozide as needed		

DANZIGER

GEM™ Compact

Lantana camara

For additional information and availability: GEM™ Compact

FINISHING TIPS

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch – optional night interruption or extended day- Optional	150 - 200 ppm N	In liner and finish stages
(12 cm) 5” pot 1 ppp	68° - 72° (20° - 22° C)			
8 to 9 wks	68° - 72° (20° - 22° C)		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½” 1 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 5	5.8 to 6.2	1.0 to 1.2	68° - 72° (20° - 22° C)	Feed 100 to 150 ppm		B-9 as needed	Spray fungicide after transplant	
Week 6 to 13	5.8 to 6.2	1.0 to 1.2	68° - 72° (20° - 22° C)	Feed 150 to 200 ppm				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
	Whiteflies	PYMETROZINE, PYRIPROXYFEN, PYRIFLUQUINAZON
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - Spray Daminozide at 1500 to 2500 ppm for finishing plants
- Spray broad spectrum fungicide after transplant
- Scout for Leaf Miners, Thrips and Whiteflies on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

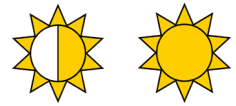
DANZIGER

PROPAGATION TIPS

GLOW™

Lobelia erinus

For additional information and availability: GLOW™



Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 70°-72° F (21° - 22°C)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist as soon as possible

- The series is well branched, so pinching is not needed for a quality finish. Daminozide at 2,500 to 3,750 ppm on week 4 .

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Additional supplemental lighting is optional depending on region		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	72°-74° F (22° - 23°C	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	72°-74° F (22° - 23°C	Feed 100 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	70°-72° F (21° - 22°C)	Feed 100 ppm		Daminozide as needed		
Week 5	5.8 to 6.2	1.0 to 1.2	70°-72° F (21° - 22°C)	Feed 100 to 150 ppm				

DANZIGER

FINISHING TIPS

GLOW™

Lobelia erinus

For additional information and availability: GLOW™

- Facultative long day plant so extended day lighting is optional
- Cool temperature is best for high quality finishing

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	No pinch necessary Additional lighting is optional depending on region	150 - 200 ppm N	In liner and finish stages. Daminozide @ 2500 ppm
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	1 planer per pot		Soil EC 1.0 to 1.2 pH 5.6 to 6.0	
(15 cm) 6 ½”				
8 to 10 wks				
(20 cm) 8”	3 plants per container			
8 to 10 wks				
(25 cm) 10”	3 plants per container			

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- Maintain soil evenly moist – do not allow plants to dry completely
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 5	5.6 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm		Daminozide at 2,500 to 3,750 ppm	Spray fungicide after transplant	
Week 6 to 12	5.6 to 6.0	1.0 to 1.2	60° to 68° F (18° to 20° C)	Feed 100 to 150 ppm		Paclobutrazol Drench at 1 ppm		Paclobutrazol 1 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

DANZIGER

PROPAGATION TIPS

STREAM™

Lobularia

For additional information and availability: STREAM™

Stick on priority – Number 1 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

– **Irrigation specification –** Reduce from mist as soon as possible

– Application of IBA can hasten rooting. Daminozide at 1500 to 2500 ppm day of sticking. Lighting in propagation is not necessary. The Lobularia Stream™ Series is well branched, and a pinch would only be necessary if grown under lower light levels.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.2 to 5.8	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist			Day of sticking	Feeding through Mist
Week 2	5.2 to 5.8	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.2 to 5.8	.90 to 1.0	Cool to 68° - 70° F (20° - 21° C)	Feed 100 ppm to 150 ppm		Daminozide as needed		
Week 4	5.2 to 5.8	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 ppm to 150 ppm		Daminozide as needed		
Week 5	5.2 to 5.8	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 ppm to 150 ppm		Daminozide as needed		

DANZIGER

STREAM™

For additional information and availability: STREAM™

Lobularia

- Pinch is optional
- Cool temperature finishing for best quality

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch - Optional	100 - 150 ppm N	In liner and finish stages
(12 cm) 5" pot	65° - 68° (18° - 20° C)			
8 to 9 wks	1 plant per pot	No lighting necessary	Soil EC 0.8 - 1.0 pH 5.6 to 6.0	
(15 cm) 6 ½"				
8 to 9 wks				
(20 cm) 8"	3 plants per container			
8 to 9 wks				
(25 cm) 10"	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.6 to 6.0	0.8 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Day Neutral	Daminozide as needed	Spray fungicide after transplant	
Week 6 to 12	5.6 to 6.0	0.8 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Not Required	Paclobutrazol Drench at 0.5 to 1 ppm		Paclobutrazol 0.5 to 1 ppm drench when plants reach 85% of desired size

- Consistent soil moisture levels are best – allow soil to dry slightly between irrigations
- Do not apply chemicals with high tendency to create leaf damage
- Scout for Aphids on a regular basis
- Should be very careful with the Paclobotrazol application Lobulria is sensitive to high application
- To prevent against Downy Mildew
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB
	Downy Mildew	Oxathiapiprolin, Fluopicolide

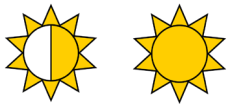
FINISHING TIPS

DANZIGER

STREAM™ Compact

Lobularia hybrida

For additional information and availability: STREAM™ Compact



Stick on priority – Number 1 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Reduce from mist as soon as possible

- Application of IBA can hasten rooting. Daminozide at 1500 to 2500 ppm day of sticking. Lighting in propagation is not necessary. The Lobularia Stream™ series is well branched, and a pinch would only be necessary if grown under lower light levels.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.2 to 5.8	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist			Day of sticking	Feeding through Mist
Week 2	5.2 to 5.8	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.2 to 5.8	.90 to 1.0	Cool to 68° - 70° F (20° - 21° C)	Feed 100 ppm to 150 ppm		Daminozide as needed		
Week 4	5.2 to 5.8	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 ppm to 150 ppm		Daminozide as needed		
Week 5	5.2 to 5.8	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 ppm to 150 ppm		Daminozide as needed		

PROPAGATION TIPS

DANZIGER

STREAM™ Compact

Lobularia hybrida

For additional information and availability: STREAM™ Compact

FINISHING TIPS

- Pinch is optional
- Cool temperature finishing for best quality

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch - Optional No lighting necessary	100 - 150 ppm N	In liner and finish stages
(12 cm) 5” pot	65° - 68° (18° - 20° C)			
8 to 9 wks	1 plant per pot		Soil EC 0.8 - 1.0 pH 5.6 to 6.0	
(15 cm) 6 ½”				
8 to 9 wks				
(20 cm) 8”	3 plants per container			
8 to 9 wks				
(25 cm) 10”	3 plants per container			

- Consistent soil moisture levels are best – allow soil to dry slightly between irrigations
- Do not apply chemicals with high tendency to create leaf damage
- Scout for Aphids on a regular basis
- Should be very careful with the Paclobotrazol application Lobularia is sensitive to high application
- To prevent against Downy Mildew
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.6 to 6.0	0.8 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Day Neutral	Daminozide as needed	Spray fungicide after transplant	
Week 6 to 12	5.6 to 6.0	0.8 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Not Required	Paclobutrazol Drench at 0.5 to 1 ppm		Paclobutrazol 0.5 to 1 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB
	Downy Mildew	OXATHIAPIPROLIN, FLUOPICOLIDE

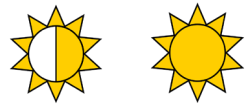
DANZIGER

PROPAGATION TIPS

GARDEN FRECKLES™

Mecardonia grandiflora

For additional information and availability: GARDEN FRECKLES™



Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 3 70°-72° F (21° - 22°C)	No	Weeks 1-3 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 4- 5 68° - 70° (20° - 21° C)		Weeks 4-5 100 ppm N	Day of sticking & Week 2

- **Irrigation specification -** Spray with adjuvant the day of sticking/Remove from mist as soon as possible

- Mercadonia Golden Freckles is day neutral and prefers bright light conditions for maximum flowering. Moderate moisture levels for the media in propagation.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	70°-72° F (21° - 22°C)	Feed 100 ppm N				
Week 4	5.8 to 6.2	.90 to 1.0	Cool to 68° - 70° (20° - 21° C)	Feed 100 ppm N		Daminozide as needed		
Week 5	5.8 to 6.2	.90 to 1.0	68° - 70° (20° - 21° C)	Feed 100 ppm N				

DANZIGER

GARDEN FRECKLES™

Mecardonia grandiflora

For additional information and availability: GARDEN FRECKLES™

FINISHING TIPS

- Finish under high light for quality plants
- Cool temperatures may create stress and develop yellow stems or at the meristems. When the temperatures warm, the plants will return to a green color

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
5 to 7 wks	Average Day	Pinch – should not be required	100-125 ppm N	Should not be required
10 cm (quart)	68°-70° F (20°-21° C)			
6 to 8 wks	1 plant per pot		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6”				

- Cool temperatures may create yellowing at the end of plant stems
- Do not allow soil to become oversaturated
- Scout for Aphids, Mites and Thrips
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.8 to 6.2	1.0 to 1.2	68° to 70° F (20° to 21° C)	feed 100 ppm N	None	Only under low light conditions	Drench fungicide after transplant	Control of Pythium & Rhizoctonia
Week 6 to 12	5.8 to 6.2	1.2 to 1.5	68° to 70° F (20° to 21° C)	feed 100 to 125 ppm N				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB / TRIFLUMIZOLE

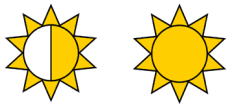
DANZIGER

PROPAGATION TIPS

MAI TAI™

Mimulus aurantiacus

For additional information and availability: MAI TAI™



Stick on priority – Number 1 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	Suggested	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 68° - 70° (20° - 21° C)		Weeks 3-5 100 ppm N	Day of sticking & Week 2

- **Irrigation specification -** Remove from mist as soon as possible. Limit misting in propagation.
  Do not saturate soil

- Application of IBA can hasten rooting. Maintain warm temperatures in propagation.

- When pinching make sure to leave 4 to 6 nodes below the cut

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.5 to 5.8	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist			Day of sticking	Feeding through Mist
Week 2	5.5 to 5.8	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.5 to 5.8	.90 to 1.0	Cool to 68° - 70° (20° - 21° C)	Feed 100 ppm				
Week 4	5.5 to 5.8	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 ppm				Pinch - optional
Week 5	5.5 to 5.8	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 ppm				

DANZIGER

MAI TAI™

For additional information and availability: MAI TAI™

Mimulus aurantiacus

FINISHING TIPS

- Pinch is optional but need to leave 4 to 6 nodes
- Mimulus prefers long days and warm temperatures to flower

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch week 4 or at transplant No lighting necessary	100 - 150 ppm N	In liner and finish stages
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	1 plant per pot		Soil EC 1.0 - 1.2 pH 5.5 to 5.8	
(15 cm) 6 ½”				
8 to 9 wks				
(20 cm) 8”	3 plants per container			
8 to 9 wks		8 to 9 wks		
(25 cm) 10”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.5 to 5.8	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm	Prefers long days	Daminozide	Drench fungicide after transplant	
Week 6 to 12	5.5 to 5.8	1.0 to 1.2	65° to 68° (18° to 20° C)	Feed 100 to 150 ppm				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
	Whiteflies	PYMETROZINE, PYRIPROXYFEN, PYRIFLUQUINAZON
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- Scout for Aphids and Whiteflies
- Botrytis and Rhizoctonia – fungicide drench after transplant to control root and stem diseases
- B9 has good response , can be applied 2,500-3,750 ppm
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

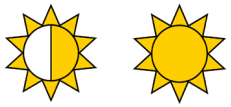
DANZIGER

PROPAGATION TIPS

KOI™

Nematanthus gregarius

For additional information and availability: FLORESTA™ CATALOG



Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 72° / 74° F (22° / 23° C)	Suggested	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 70°-72° F (21° - 22°C)		Weeks 3-5 100 ppm N	Day of sticking & Week 2

- **Irrigation specification -** Remove from mist as soon as possible. Limit misting in propagation.
- Sensitive to cold water. Overhead watering with water under 50F (10C) can result in leaf damage

- Application of K-IBA can hasten rooting. Maintain warm temperatures in propagation.
- Pinching before transplant results in better finished product.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.5 / 5.8	0.80	72° / 74° F (22° / 23° C)	50 ppm N in mist			Day of sticking	Feeding through Mist
Week 2	5.5 to 5.8	.80 to .90	72°/ 74° F (22° / 23° C)	50 ppm N in mist			Second fungicide app	
Week 3	5.5 to 5.8	.90 to 1.0	72°/ 74° F (22° / 23° C)	Feed 100 ppm				If callused remove from Mist
Week 4	5.5 to 5.8	1.0 to 1.2	70°-72° F (21° - 22°C)	Feed 100 ppm				
Week 5	5.5 to 5.8	1.0 to 1.2	70°-72° F (21° - 22°C)	Feed 100 ppm				Pinch

DANZIGER

KOI™

For additional information and availability: FLORESTA™ CATALOG

Nematanthus gregarius

FINISHING TIPS

- Pinch is beneficial to increase rooting
- Nematanthus prefers long days and warm temperatures to flower

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 9 wks	Average Day	Pinch week 4 or at transplant No lighting necessary	100 - 150 ppm N	Daminozide spray when plants have reached 85% finish size
(12 cm) 5” pot	65° - 68° (18° - 20° C)			
8 to 10 wks	3 plants per container for 5"		Soil EC 1.0 - 1.2 pH 5.5 to 5.8	
(15 cm) 6 ½”	4 plants per container for 6 ½”			
10 to 14 wks				
(20 cm) 8”	6 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.5 to 5.8	1.0 to 1.2	70°-72° F (21° - 22°C)	feed 100 to 150 ppm	Prefers long days	Daminozide as needed	Drench fungicide after transplant	
Week 6 to 14	5.6 to 6.0	1.0 to 1.2	68° to 72° (21° to 22° C)	feed 100 to 150 ppm				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
	Whiteflies	PYMETROZINE, PYRIPROXYFEN, PYRIFLUQUINAZON
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- Avoid overhead watering with cold water
- In addition to Thrips and Aphids scout for Mealybugs, Spider Mites and Whiteflies
- Botrytis and Rhizoctonia – fungicide drench after transplant to control root and stem diseases
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

DIRECT STICKING TIPS

KOI™

Nematanthus gregarius

Direct sticking into the final pot

Root unrooted cuttings in the final container, without a separate liner stage or transplanting.

Sticking and irrigation

1. Before sticking: Thoroughly saturate the substrate.
2. After sticking: Water once to settle the substrate around the cuttings.
3. During rooting: In the documented Israeli trial, no further irrigation or misting was applied.
The recorded conditions appear alongside.

Alar (daminozide): spraying is not recommended, as it may cause crop burn.

Technical reference from the original crop sheet

Stage	Minimum temp.	pH	EC*
Weeks 1-3	16°C	5.5-5.8	0.80-1.00
Weeks 4-5	16°C	5.5-5.8	1.00-1.20
Finishing	16°C	5.6-6.0	1.00-1.20

Rooting and growth: K-IBA may hasten rooting.
Pinch timing should follow establishment in the final pot (week 5 in the original weekly program).
Long days and warm conditions favour flowering.



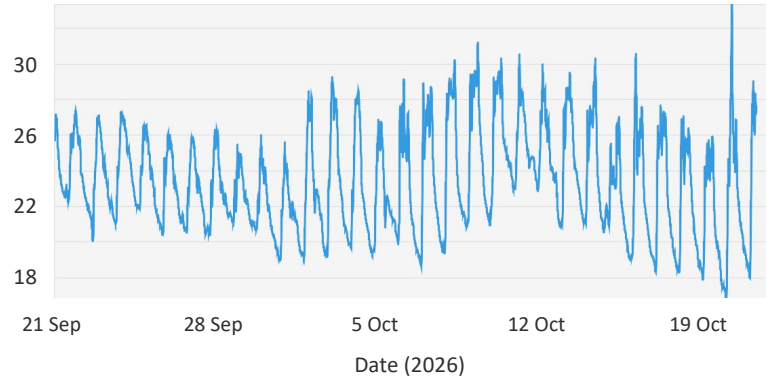


Direct sticking in final containers - grower photographs

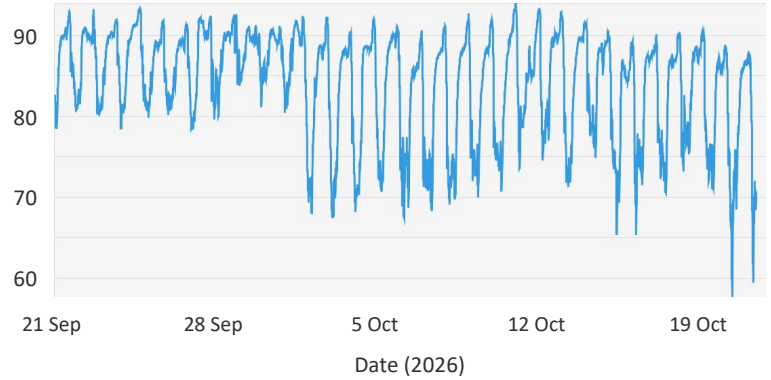
Conditions recorded during rooting in Israel

Measured trial conditions, not recommended setpoints

Temperature (°C)



Relative humidity (%)



Crop monitoring:
Scout for aphids, thrips, whiteflies, mealybugs and spider mites.
Monitor Botrytis and root/stem diseases, including Rhizoctonia.

* EC uses the 2:1 water extraction method. Direct-sticking cycle length and cuttings per pot require trial confirmation.

DANZIGER

PROPAGATION TIPS

MENOR™

Nemesia Hybrida

For additional information and availability: MENOR™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist as soon as possible

- Apply broad spectrum fungicide the day of sticking to control leaf disease.
  For the more vigorous varieties, apply Daminozide spray at 2000 ppm week 3.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist		Daminozide as needed	Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.90 to 1.0	Cool to 65° - 68° (18° - 20° C)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.0	1.0 to 1.2	65° - 68° (18° - 20° C)	Feed 100 ppm to 150 ppm		Daminozide as needed		

DANZIGER

MENOR™

For additional information and availability: MENOR™

Nemesia Hybrida

FINISHING TIPS

- Keep the soil evenly moist, avoiding overly wet conditions, especially during cooler growing periods. Prolonged wet soil can lead to root and foliage issues.
- Finish plants at cool temperatures for the best quality and vibrant flower color.

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch – Recommended Not Required – Day Neutral	100 - 200 ppm N	Daminozide spray application at 2500 ppm
(12 cm) 5” pot	65°-68 F (18°-20° C)			
8 to 9 wks	1 ppp		Soil EC 1.0 - 1.2 pH 5.6 to 6.0	
(15 cm) 6 ½”				
8 to 9 wks				
(20 cm) 8 ”	3 ppp			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.6 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	Not required	Daminozide as needed 2500 ppm	Drench fungicide after transplant	
Week 6 to 12	5.6 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	Not required			

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR – Menor series is naturally compact, therefore PGR application is optional. If needed Daminozide application of up to 2500 ppm on young finished plants is possible.
- Maintain good airflow and allow plants to dry before nightfall
- **Scout** for Aphids, Thrips, Mites and Whitefly
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

PROPAGATION TIPS

NESIA™

Nemesia Hybrida

For additional information and availability: NESIA™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Remove from mist as soon as possible

- Apply broad spectrum fungicide the day of sticking to control leaf disease.
  For the more vigorous varieties, apply Daminozide spray at 2000 ppm week 3.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6/6.0	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist			Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.90 to 1.0	Cool to 68° -70°F (20°-21°C)	Feed 100 ppm to 150 ppm		Daminozide as needed – 2,500 ppm		
Week 4	5.6 to 6.0	1.0 to 1.2	65° - 68° (18° - 20° C)	Feed 100 ppm to 150 ppm				

DANZIGER

NESIA™

For additional information and availability: NESIA™

Nemesia Hybrida

- Keep the soil evenly moist, avoiding saturated soil conditions, especially during cooler growing periods. Prolonged wet soil can lead to root and foliage issues.
- Finish plants at cool temperatures for the best quality and vibrant flower color.
- Spray PGRs to control plant height.

FINISHING TIPS

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 8 wks	Average Day	Pinch – Recommended Not Required – Day Neutral	100 - 200 ppm N	Daminozide spray application at 2500 to 3750 ppm
(12 cm) 5” pot	65°-68 F (18°-20° C)			
8 to 9 wks	1 ppp		Soil EC 1.0 - 1.2 pH 5.6 to 6.0	
(15 cm) 6 ½”				
8 to 9 wks				
(20 cm) 8 ”	3 ppp			Paclobutrazol drench application at 2 ppm

- PGR - Spray Daminozide at 2500 ppm on young finished plants
- Maintain good airflow and allow plants to dry before nightfall
- **Scout** for Aphids, Thrips, Mites and Whitefly
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 5	5.6 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	Not required	Daminozide as needed 2500 ppm	Drench fungicide after transplant	
Week 6 to 12	5.6 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	Not required			

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

DANZIGER

PROPAGATION TIPS

HARMONY®

New Guinea Impatiens

For additional information and availability: HARMONY®

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 3 72°-74° F (22° - 23°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 4 - 5 70° - 72° (21° - 22° C)		Weeks 3-5 80 ppm N	Apply broad spectrum Week 2

Rooting	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 1	6.0/6.5	0.50	72°/74°F (22°/23°C)		Not required		Day of sticking	
Week 2	6.0/6.5	.80 to .90	72°/74°F (22°/23°C)	50 ppm N in mist	Not required		Second fungicide app	
Week 3	6.0/6.5	.80 to .90	72°/74°F (22°/23°C)	80 ppm N in mist	Not required			
Week 4	6.0/6.5	.80 to .90	70°/72°F (21°/22°C)	80 ppm N in mist	Not required			
Week 5	6.0/6.5	.80 to .90	70°/72°F (21°/22°C)	80 ppm N in mist	Not required			Pinch is not recommended

- Spray adjuvant at sticking

- Spray Ethephon at 300 ppm the day after stick. This will reset flowering response. One hour of Ethephon on the leaves will be sufficient time while mist if off.
- Maintain warm temperatures allowing plants to develop and flower
- Average daily temperature of 70° F / 21° C
- FAST FLOWERING cuttings: Flowering can be delayed by high temperatures and excessive nitrogen. Our trials used a low-nitrogen fertilizer (80ppm N). If this is not possible, alternate three clear-water irrigations with one fertilizer application throughout the crop.

DANZIGER

HARMONY®

For additional information and availability: HARMONY®

New Guinea Impatiens

FINISHING TIPS

- Maintain a low EC level for proper growth and sizing of plant
- Transplant liners when plants are rooted and actively growing
- The best key for good production is the temperatures during cultivation

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch - No Daylength Neutral	100 - 150 ppm N	See below
(12 cm) 5” pot	68°-70° F (20°-21° C)			
8 to 9 wks	1 plant per pot		Soil EC 0.8 - 1.0 pH 5.8 to 6.2	
(15 cm) 6 ½” pot				

- PGR - If needed at finishing, they will respond well to Paclobutrazol Sprench (a very light drench that reaches the media) of 0.1 ppm
- Spray broad spectrum fungicide after transplant
- Scout for Thrips and Mites on regular basis
- FAST FLOWERING cuttings: Flowering can be delayed by high temperatures and excessive nitrogen. Our trials used a low-nitrogen fertilizer (80ppm N). If this is not possible, alternate three clear-water irrigations with one fertilizer application throughout the crop.
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.8 to 6.2	0.8 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm		See below	Drench fungicide at transplant	
Week 6 to 13	5.8 to 6.2	0.8 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

DANZIGER

PROPAGATION TIPS

HARMONY® COLORFALL™

New Guinea Impatiens

For additional information and availability: HARMONY® COLORFALL™

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 70° - 72° (21° - 22° C)		Weeks 3-5 80 ppm N	Apply broad spectrum Week 2

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	6.0 / 6.5	0.50	72° / 74° F (22° / 23° C)		Not required		Day of sticking	
Week 2	6.0 / 6.5	.80 to .90	72° / 74° F (22° / 23° C)	50 ppm N in mist	Not required		Second fungicide app	
Week 3	6.0 / 6.5	.80 to .90	72° / 74° F (22° / 23° C)	80 ppm N in mist	Not required			
Week 4	6.0 / 6.5	.80 to .90	70° / 72° F (21° / 22° C)	80 ppm N in mist	Not required			
Week 5	6.0 / 6.5	.80 to .90	70° / 72° F (21° / 22° C)	80 ppm N in mist	Not required			Pinch is not recommended

- Spray adjuvant at sticking

- Spray Ethephon at 300 ppm the day after stick. This will reset flowering response. An hour of Ethephon on the leaves will be sufficient time while mist is off.
- Maintain warm temperatures allowing plants to develop and flower
- Average daily temperature of 70° F / 21° C
- FAST FLOWERING cuttings: Flowering can be delayed by high temperatures and excessive nitrogen. Our trials used a low-nitrogen fertilizer (80ppm N). If this is not possible, alternate three clear-water irrigations with one fertilizer application throughout the crop.

DANZIGER

HARMONY® COLORFALL™

For additional information and availability: HARMONY® COLORFALL™

New Guinea Impatiens

- Maintain a low EC level for proper growth and sizing of plant
- Transplant liners when plants are rooted and actively growing
- The best key for good production is the temperatures during cultivation

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch – No Daylength Neutral	100 - 150 ppm N	See below
(12 cm) 5" pot 1 ppp	68° - 70° (20° - 21° C)			
8 to 9 wks	1 plant per pot		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½" 1 ppp				
8 to 10 wks				
(24 cm) 11"3 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm		See below	Drench fungicide at transplant	
Week 6 to 13	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - If needed at finishing, they will respond well to Paclobutrazol Sprench (a very light drench that reaches the media) of 0.1 ppm
- Spray broad spectrum fungicide after transplant
- Scout for Thrips and Mites on a regular basis
- FAST FLOWERING cuttings: Flowering can be delayed by high temperatures and excessive nitrogen. Our trials used a low-nitrogen fertilizer (80ppm N). If this is not possible, alternate three clear-water irrigations with one fertilizer application throughout the crop.
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

FINISHING TIPS

DANZIGER

PROPAGATION TIPS

BEST MATE™ Violet

Osteospermum

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	Recommended	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-5 100-150 ppm	Spray fungicide to control Botrytis and bacteria Week 2

- **Irrigation specification –** Spray adjuvant after sticking.

- Application of IBA can hasten rooting
- Daminozide at 3,750 – 5,000 ppm day of sticking.
  Cycocel (chlormequat) can be mixed with B9 at 1,500 ppm
- Supplemental lighting in propagation will hasten growth
- Pinch is not recommended only if you need to control the liner

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist		Daminozide day after sticking	Day of sticking	Feeding through Mist
Week 2	5.8 to 6.2	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 68°F (20°C)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm		Daminozide as needed + Cycocel		
Week 5	5.8 to 6.2	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm		Daminozide as needed + Cycocel		

DANZIGER

BEST MATE™ Violet

Osteospermum

FINISHING TIPS

- Pinch is optional in warm countries above 5-6 pair of leaves.
- Cool temperature finishing for best quality

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch not recommended when the plants are well compact and in low radiation countries No lighting necessary	100 - 150 ppm N	In liner and finish stages
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	60° to 68° F (15° to 20° C)		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½”	1 plant per pot			
8 to 9 wks				
(20 cm) 8”	3 plants per container			
8 to 9 wks				
(25 cm) 10”	3 plants per container			

Finishing	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm		Daminozide as needed	Spray fungicide after transplant	
Week 6 to 12	5.8 to 6.2	1.2 to 1.5	60° to 68° F (15° to 20° C)	Feed 100 to 150 ppm	Not Required	Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- Consistent soil moisture levels are best – allow soil to dry slightly between irrigations
- Maintain dry foliage when entering night temperatures
- When pinch is needed – above 5-7 pair of leaves and at transplant
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

PROPAGATION TIPS

BESTIES™

Osteospermum ecklonis

For additional information and availability: BESTIES™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Recommended	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-5 100 to 150 ppm N	Spray fungicide to control Botrytis and bacteria Week 2

- **Irrigation specification –** Spray adjuvant after sticking.

- Application of IBA can hasten rooting
- Daminozide at 3,750 – 5,000 ppm day of sticking.
  Cycocel (chlormequat) can be mixed with B9 at 1,500 ppm
- Supplemental lighting in propagation will hasten growth
- Pinch is not recommended only if you need to control the liner.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 / 6.2	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist			Day of sticking	Feeding through Mist
Week 2	5.8 to 6.2	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 65° - 68° (18° - 20° C)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	65° - 68° (18° - 20° C)	Feed 100 ppm to 150 ppm		Daminozide as needed + Cycocel		
Week 5	5.8 to 6.2	1.0 to 1.2	65° - 68° (18° - 20° C)	Feed 100 ppm to 150 ppm		Daminozide as needed + Cycocel		

DANZIGER

BESTIES™

Osteospermum ecklonis

For additional information and availability: BESTIES™

FINISHING TIPS

- Cool temperature finishing will create the best quality.
- Pinch is optional in warm countries above 5-6 pair of leaves.

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch not recommended when the plants are well compact and in low radiation countries	100 - 150 ppm N	In liner and finish stages
(12 cm) 5” pot	65° - 68° (18° - 20° C)			
8 to 9 wks	1 plant per pot		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½”				
8 to 9 wks		No lighting necessary		
(20 cm) 8”	3 plants per container			
8 to 9 wks				
(25 cm) 10”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.8 to 6.2	1.0 to 1.2	65° - 68° (18° - 20° C)	Feed 100 to 150 ppm		Daminozide as needed	Spray fungicide after transplant	
Week 6 to 12	5.8 to 6.2	1.0 to 1.2	65° - 68° (18° - 20° C)	65° - 68° (18° - 20° C)		Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

- Consistent soil moisture levels are best – allow soil to dry slightly between irrigations
- Maintain dry foliage when entering night temperatures
- When pinch is needed – above 5-7 pair of leaves and at transplant
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

PROPAGATION TIPS

OSTICA™

Osteospermum ecklonis

For additional information and availability: OSTICA™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	Recommended	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-5 100 to 150 ppm N	Spray fungicide to control Botrytis and bacteria Week 2

- **Irrigation specification –** Spray adjuvant after sticking.

- Application of IBA can hasten rooting.
- Daminozide at 3,750 – 5,000 ppm day of sticking.
  Cycocel (chlormequat) can be mixed with B9 at 1,500 ppm
- Supplemental lighting in propagation will hasten growth
- Pinch is not recommended only if you need to control the liner.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist		Daminozide day after sticking	Day of sticking	Feeding through Mist
Week 2	5.8 to 6.2	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 68°F (20°C)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm		Daminozide as needed + Cycocel		
Week 5	5.8 to 6.2	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm		Daminozide as needed + Cycocel		

DANZIGER

OSTICA™

For additional information and availability: OSTICA™

Osteospermum ecklonis

- Pinch is optional in warm countries above 5-6 pair of leaves.
- Cool temperature finishing for best quality

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch not recommended when the plants are well compact and in low radiation countries No lighting necessary	100 - 150 ppm N	In liner and finish stages
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	60° to 68° F (15° to 20° C)		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½”				
8 to 9 wks	1 plant per pot			
(20 cm) 8”	3 plants per container			
8 to 9 wks				
(25 cm) 10”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm		Daminozide as needed	Spray fungicide after transplant	
Week 6 to 12	5.8 to 6.2	1.2 to 1.5	60° to 68° F (15° to 20° C)	Feed 100 to 150 ppm	Not Required	Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- Consistent soil moisture levels are best – allow soil to dry slightly between irrigations
- Maintain dry foliage when entering night temperatures
- When pinch is needed – above 5-7 pair of leaves and at transplant
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

PROPAGATION TIPS

OSTICADE™

Osteospermum ecklonis

For additional information and availability: OSTICADE™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	Recommended	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-5 100-150 ppm	Spray fungicide to control Botrytis and bacteria Week 2

- **Irrigation specification –** Spray adjuvant after sticking.

- Application of IBA can hasten rooting
- Daminozide at 3,750 – 5,000 ppm day of sticking.
  Cycocel (chlormequat) can be mixed with B9 at 1,500 ppm
- Supplemental lighting in propagation will hasten growth
- Pinch is not recommended only if you need to control the liner

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist		Daminozide day after sticking	Day of sticking	Feeding through Mist
Week 2	5.8 to 6.2	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 68°F (20°C)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm		Daminozide as needed + Cycocel		
Week 5	5.8 to 6.2	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm		Daminozide as needed + Cycocel		

DANZIGER

OSTICADE™

For additional information and availability: OSTICADE™

Osteospermum ecklonis

FINISHING TIPS

- Pinch is optional in warm countries above 5-6 pair of leaves.
- Cool temperature finishing for best quality

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch not recommended when the plants are well compact and in low radiation countries No lighting necessary	100 - 150 ppm N	In liner and finish stages
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	60° to 68° F (15° to 20° C)		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½”	1 plant per pot			
8 to 9 wks				
(20 cm) 8”	3 plants per container			
8 to 9 wks				
(25 cm) 10”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.8 to 6.2	1.0 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm		Daminozide as needed	Spray fungicide after transplant	
Week 6 to 12	5.8 to 6.2	1.2 to 1.5	60° to 68° F (15° to 20° C)	Feed 100 to 150 ppm	Not Required	Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- Consistent soil moisture levels are best – allow soil to dry slightly between irrigations
- Maintain dry foliage when entering night temperatures
- When pinch is needed – above 5-7 pair of leaves and at transplant
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

PROPAGATION TIPS

Callus propagation

Osteospermum ecklonis

Average Time	Temperature	Hormone	Fertilization	Fungicide
3 weeks	Weeks 1 70°-72° F (21° - 22°C)	Recommended	Weeks 1 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 2-3 65° - 68° (18° - 20° C)		Weeks 2-3 100 to 150 ppm N	Spray fungicide to control Botrytis and bacteria Week 2

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 / 6.2	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist			Day of sticking	Feeding through Mist
Week 2	5.8 to 6.2	1.0 to 1.2	65° - 68° (18° - 20° C)	Feed 100 ppm to 150 ppm		Daminozide as needed + Cycocel	Second fungicide app	
Week 3	5.8 to 6.2	1.0 to 1.2	65° - 68° (18° - 20° C)	Feed 100 ppm to 150 ppm		Daminozide as needed + Cycocel		

- **Irrigation specification –** Spray adjuvant after sticking.

- Callused cuttings require less time under mist than unrooted cuttings.
- Starting fertilization earlier for callused cuttings than for unrooted cuttings is recommended.
- Application of IBA can hasten rooting.
- Daminozide at 3,750 – 5,000 ppm day of sticking.
  Cycocel (chlormequat) can be mixed with B9 at 1,500 ppm
- Supplemental lighting in propagation will hasten growth.
- Pinch is not recommended only if you need to control the liner.

DANZIGER

PRIMAVERA™

Pericallis hybrida

For additional information and availability: PRIMAVERA™

PROPAGATION TIPS

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	Recommended	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-5 100 ppm N	Spray fungicide to control Botrytis and bacteria Week 2

- **Irrigation specification –** Spray adjuvant after sticking.
  Do not over-mist or saturate soil.

Drench plants with fungicide to protect against root and stem pathogens.
Daminozide at 2500 ppm if required week 4 / 5. Pinch the week before transplant or at transplant.
Provide adequate air-movement and allow plants to dry going into the evening.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6/6.2	0.80	72° to 74° F (22° - 23°C)	50 ppm N in mist			Day of sticking	Feeding through Mist
Week 2	5.6 to 6.2	.80 to .90	72° to 74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.2	.90 to 1.0	Cool to 68°F (20°C)	Feed 100 ppm				
Week 4	5.6 to 6.2	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm		Daminozide as needed		
Week 5	5.6 to 6.2	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm		Daminozide as needed		

DANZIGER

FINISHING TIPS

PRIMAVERA™

For additional information and availability: PRIMAVERA™

Pericallis hybrida

- Spray fungicide to protect against Powdery Mildew – Supply adequate airflow
- Cool temperature finishing for best quality – 55 to 60 F (13°-16° C) average daily temperature

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch week before transplant or at transplant - optional Day Neutral	100-150 ppm N	In liner and finish stages
(12 cm) 5” pot	55°-60° F (13°-16° C)			
8 to 9 wks	1 plant per container		Soil EC 1.2 - 1.5 pH 5.8 to 6.2	
(15 cm) 6 ½”				
8 to 9 wks				
(20 cm) 8”	3 plants per container			

- Allow soil to dry between irrigations / For southern regions, some shade may be necessary
- Best to feed with Nitrate forms of Nitrogen
- Daminozide at 2500 to 3750 ppm / Paclobutrazol at 1 to 2 ppm to finish crop
- Fuchsia, Navy Blue and Violet are the earliest to flower and most vigorous
- Scout for Thrips mainly and then Aphids, Mites and Whiteflies
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.8 to 6.2	1.2 to 1.5	55° to 60° F (13° to 15° C)	Feed 100 to 200ppm		Daminozide as needed	Drench fungicide after transplant	
Week 6 to 12	5.8 to 6.2	1.2 to 1.5	55° to 60° F (13° to 15° C)	Feed 100 to 200 ppm	Not Required	Paclobutrazol Drench at 1 to 2 ppm	Control of water molds and Thielaviopsis	Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

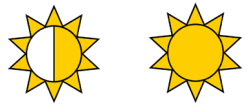
Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB / TRIFLUMIZOLE

DANZIGER

AMAZONAS™

Petunia

For additional information and availability: AMAZONAS™



Stick on priority – Number 2 out of 4 categories

PROPAGATION TIPS

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-5 100 to 150 ppm	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist as soon as possible

- The series is well branched, so pinching is not required for a quality finish.
  Week 4 – Daminozide @ 2500 ppm / Uniconazole @ 10 ppm tank mix if plants are aggressively growing.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Supplemental lighting is optional depending on region complete 10-12 h	See below	Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.90 to 1.0	Cool to 68°F (20°C)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.0	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm				

DANZIGER

AMAZONAS™

For additional information and availability: AMAZONAS™

Petunia

- Maintain lower pH levels for optimal Iron (Fe) and Manganese (Mn) availability to plants
- Cool temperature is best for high quality finishing
- Violet Parakeet has a more compact growth habit than Pink Macaw. Adjust PGR application rates accordingly

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	No pinch necessary Additional lighting is optional depending on region (complete 12 - 14 h daylength)	150 - 200 ppm N	Daminozide @ 2000 to 2500 ppm /
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	1 plant per pot		Soil EC 1.2 - 1.5 pH 5.6 to 6.0	
(15 cm) 6 ½”				
8 to 10 wks				
(20 cm) 8”	3 plants per container			
8 to 10 wks				
(25 cm) 10”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 4	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	feed 150 to 200 ppm	N/A	Daminozide spray applications	Spray fungicide after transplant	
Week 5 to 10	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	feed 150 to 200 ppm	N/A	Paclobutrazol Drench at 1-2 ppm if needed		When finish to keep the desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - Spray Daminozide 2,000 to 2,500 ppm and / or Paclobutrazol drench application at 1 to 2 ppm for finishing if required
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

FINISHING TIPS

DANZIGER

PROPAGATION TIPS

AMORE®

Petunia hybrida

For additional information and availability: AMORE®

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist as soon as possible

- The series is well branched, so pinching is not required for a quality finish.
  Week 4 – Daminozide @ 2500 ppm / Uniconazole @ 10 ppm tank mix if plants are aggressively growing.
  Amore® Fiesta, Heart & Soul and Queen of Hearts are the most vigorous varieties within the series.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Supplemental lighting is optional depending on region complete 10-12 h	See below	Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.90 to 1.0	Cool to 68°F (20°C)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.0	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm				

DANZIGER

AMORE®

For additional information and availability: AMORE®

Petunia hybrida

- Maintain lower pH levels for optimal Iron (Fe) and Manganese (Mn) availability to plants
- Cool temperature is best for high quality finishing

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	No pinch necessary Additional lighting is optional depending on region (complete 12 -14 h daylength)	150-200 ppm N	Finish stages Daminozide @ 2500 to 3750 ppm
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	1 plant per pot		Soil EC 1.2 - 1.5 pH 5.6 to 6.0	
(15 cm) 6 ½”				
8 to 10 wks				
(20 cm) 8”	3 plants per container			
8 to 10 wks				
(25 cm) 10”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 4	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Daminozide spray	Spray fungicide after transplant	
Week 5 to 10	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - Spray Daminozide at 2,500 to 3,750 ppm and / or Paclobutrazol drench application at 1 to 2 ppm for finishing if required
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

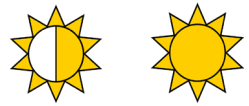
FINISHING TIPS

DANZIGER

BLUE DIAMOND™

Petunia hybrida

For additional information and availability: BLUE DIAMOND™



Stick on priority – Number 2 out of 4 categories

PROPAGATION TIPS

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist as soon as possible

Daminozide spray application at 1500 ppm week 3 or 4 if required only if the plants are too mature/elongated. Blue Diamond™ is a standalone variety since it's slightly more compact than the Danziger Capella™ series.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Supplemental lighting is optional depending on region (complete 10 -12 h daylength)		Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.90 to 1.0	Cool to 68°F (20°C)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.0	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm				

DANZIGER

BLUE DIAMOND™

Petunia hybrida

For additional information and availability: BLUE DIAMOND™

FINISHING TIPS

- Maintain lower pH levels for optimal Iron (Fe) and Manganese (Mn) availability to plants
- Cool temperature is best for high-quality finishing
- Slightly less vigorous than Capella petunias

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	No pinch necessary Additional lighting is optional depending on region (complete 12 - 14 h daylength)	150 - 200 ppm N	Finish stages Daminozide @ 2000 to 2500 ppm if required
(10 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	1 plants per container		Soil EC 1.2 - 1.5 pH 5.6 to 6.0	
(15 cm) 6”				
8 to 9 wks				
(20 cm) 8”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 4	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Daminozide	Spray fungicide after transplant	
Week 5 to 10	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Paclobutrazol Drench at 1 ppm – only if needed		Paclobutrazol 1 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - Spray Daminozide 2,000 to 2,500 ppm and/or Paclobutrazol drench application at 1 ppm for finishing if needed
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

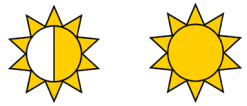
DANZIGER

PROPAGATION TIPS

CAPELLA™

Petunia hybrida

For additional information and availability: CAPELLA™



Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist as soon as possible

- The series is well branched, so pinching is not required for a quality finish. Week 4– Daminozide @ 2500 ppm / Uniconazole @ 10 ppm tank mix if plants are aggressively growing.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Supplemental lighting is optional depending on region (complete 10 -12 h daylength)	See below	Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.90 to 1.0	Cool to 68°F (20°C)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.0	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm				

DANZIGER

CAPELLA™

For additional information and availability: CAPELLA™

Petunia hybrida

FINISHING TIPS

- Maintain lower pH levels for optimal Iron (Fe) and Manganese (Mn) availability to plants
- Cool temperature is best for high quality finishing

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	No pinch necessary Additional lighting is not required	150 - 200 ppm N Soil EC 1.2 - 1.5 pH 5.6 to 6.0	In liner and finish stages. Daminozide @ 2000 to 2500 ppm
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	1 plant per pot			
(15 cm) 6 ½”				
8 to 10 wks				
(20 cm) 8”	3 plants per container			
8 to 10 wks				
(25 cm) 10”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 4	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Daminozide spray application	Spray fungicide after transplant	
Week 5 to 10	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - Spray Daminozide 2,000 to 2,500 ppm and / or Paclobutrazol drench application at 1 to 2 ppm for finishing if required
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

PROPAGATION TIPS

CASCADIAS™

Petunia hybrida

For additional information and availability: CASCADIAS™

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist as soon as possible

- The series is well branched, so pinching is not required for a quality finish. Week 4 – Daminozide @ 2500 ppm / Uniconazole @ 10 ppm tank mix if plants are aggressively growing.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Supplemental lighting is optional depending on region complete 10-12 h	See below	Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.90 to 1.0	Cool to 68°F (20°C)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.0	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm				

DANZIGER

FINISHING TIPS

CASCADIAS™

For additional information and availability: CASCADIAS™

Petunia hybrida

- Maintain lower pH levels for optimal Iron (Fe) and Manganese (Mn) availability to plants
- Cool temperature is best for high-quality finishing

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	No pinch necessary Additional lighting is optional depending on region (complete 12 -14h daylength)	150 - 200 ppm N	Daminozide @ 2500 to 3750 ppm /
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	1 plant per pot		Soil EC 1.2 - 1.5 pH 5.6 to 6.0	
(15 cm) 6 ½”				
8 to 10 wks				
(20 cm) 8”	3 plants per container			
8 to 10 wks				
(25 cm) 10”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 4	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Daminozide spray applications	Spray fungicide after transplant	
Week 5 to 10	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Paclobutrazol Drench at 1-2 ppm if needed		When finish to keep the desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - Spray Daminozide at 2,500 to 3,750 ppm and/or Paclobutrazol drench application at 1 to 2 ppm for finishing if required
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

LITTLETUNIA™

Petunia hybrida

For additional information and availability: LITTLETUNIA®

PROPAGATION TIPS

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm	Day of sticking & Week 2

Irrigation specification – Reduce mist as soon as possible

The series is well branched, so pinching is not required for a quality finish.
Week 4 – Daminozide @ 2500 ppm / Uniconazole @ 10 ppm tank mix if plants are aggressively growing.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	72°-74°F (22° - 23°C)	50 ppm N in mist	Supplemental lighting is optional depending on region complete 10-12 h	See below	Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.90 to 1.0	Cool to 68°F (20°C)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.0	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm				

DANZIGER

LITTLETUNIA™

For additional information and availability: LITTLETUNIA®

Petunia hybrida

FINISHING TIPS

- Maintain lower pH levels for optimal Iron (Fe) and Manganese (Mn) availability to plants
- Cool temperature is best for high-quality finishing

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	No pinch necessary Additional lighting is optional depending on region (complete 12 -14h daylength)	150 - 200 ppm N	Daminozide @ 2500 to 3750 ppm /
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	1 plant per pot		Soil EC 1.2 - 1.5 pH 5.6 to 6.0	
(15 cm) 6 ½”				
8 to 10 wks				
(20 cm) 8”	3 plants per container			
8 to 10 wks				
(25 cm) 10”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 4	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Daminozide spray applications	Spray fungicide after transplant	
Week 5 to 10	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Paclobutrazol Drench at 1-2 ppm if needed		When finish to keep the desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - Spray Daminozide at 2,500 to 3,750 ppm and / or Paclobutrazol drench application at 1 to2 ppm for finishing if required
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

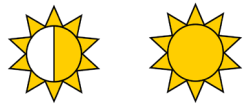
DANZIGER

PROPAGATION TIPS

RAY™

Petunia hybrida

For additional information and availability: RAY™



Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist as soon as possible

- The series is well branched, so pinching is not required for a quality finish. Week 4 – Daminozide @ 2500 ppm / Uniconazole @ 10 ppm tank mix if plants are aggressively growing.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Supplemental lighting is optional depending on region complete 10-12 h	See below	Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.90 to 1.0	Cool to 68°F (20°C)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.0	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm				

DANZIGER

FINISHING TIPS

RAY™

For additional information and availability: RAY™

Petunia hybrida

- Maintain lower pH levels for optimal Iron (Fe) and Manganese (Mn) availability to plants
- Cool temperature is best for high-quality finishing

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	No pinch necessary Additional lighting is optional depending on region (complete 12 -14h daylength)	150 - 200 ppm N	Daminozide @ 2500 to 3750 ppm /
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	1 plant per pot		Soil EC 1.2 - 1.5 pH 5.6 to 6.0	
(15 cm) 6 ½”				
8 to 10 wks				
(20 cm) 8”	3 plants per container			
8 to 10 wks				
(25 cm) 10”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 4	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Daminozide spray applications	Spray fungicide after transplant	
Week 5 to 10	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Paclobutrazol Drench at 1-2 ppm if needed		When finish to keep the desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - Spray Daminozide at 2,500 to 3,750 ppm and / or Paclobutrazol drench application at 1 to 2 ppm for finishing if required
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

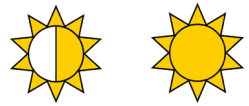
DANZIGER

PROPAGATION TIPS

RAY™ COUTURE

Petunia hybrida

For additional information and availability: BLUE DIAMOND™



Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist as soon as possible

- Daminozide spray application at 1500 ppm week 3 or 4 if required only if the plants are too mature/elongated. Blue Diamond™ is a standalone variety since it's slightly more compact than the Danziger Capella™ series.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Supplemental lighting is optional depending on region (complete 10 -12 h daylength)		Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.90 to 1.0	Cool to 68°F (20°C)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.0	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm				

DANZIGER

RAY™ COUTURE

Petunia hybrida

For additional information and availability: BLUE DIAMOND™

FINISHING TIPS

- Maintain lower pH levels for optimal Iron (Fe) and Manganese (Mn) availability to plants
- Cool temperature is best for high-quality finishing
- Slightly less vigorous than Capella petunias

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	No pinch necessary Additional lighting is optional depending on region (complete 12 - 14 h daylength)	150 - 200 ppm N	Finish stages Daminozide @ 2000 to 2500 ppm if required
(10 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	1 plants per container		Soil EC 1.2 - 1.5 pH 5.6 to 6.0	
(15 cm) 6”				
8 to 9 wks				
(20 cm) 8”	3 plants per container			

- PGR - Spray Daminozide 2,500 to 3,750 ppm and/or Paclobutrazol drench application at 1 ppm for finishing if needed
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 4	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Daminozide	Spray fungicide after transplant	
Week 5 to 10	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Paclobutrazol Drench at 1 ppm - only if needed		Paclobutrazol 1 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

DANZIGER

SPLASH DANCE®

Petunia hybrida

For additional information and availability: SPLASH DANCE®

PROPAGATION TIPS

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 150 ppm	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist as soon as possible

- The series is well branched, so pinching is not required for a quality finish. Week 4 - Daminozide @ 2500 ppm / Uniconazole @ 10 ppm tank mix if plants are aggressively growing.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Supplemental lighting is optional depending on region complete 10-12 h	See below	Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.90 to 1.0	Cool to 68°F (20°C)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.0	1.0 to 1.2	65° to 68°F (18° to 20°C)	Feed 100 ppm to 150 ppm				

DANZIGER

SPLASH DANCE®

For additional information and availability: SPLASH DANCE®

Petunia hybrida

FINISHING TIPS

- Maintain lower pH levels for optimal Iron (Fe) and Manganese (Mn) availability to plants
- Cool temperature is best for high-quality finishing

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	No pinch necessary Additional lighting is optional depending on region (complete 12 -14h daylength)	150 - 200 ppm N	Daminozide @ 2500 to 3750 ppm /
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	1 plant per pot		Soil EC 1.2 - 1.5 pH 5.6 to 6.0	
(15 cm) 6 ½”				
8 to 10 wks				
(20 cm) 8”	3 plants per container			
8 to 10 wks				
(25 cm) 10”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 4	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Daminozide spray applications	Spray fungicide after transplant	
Week 5 to 10	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	Feed 150 to 200 ppm	N/A	Paclobutrazol Drench at 1-2 ppm if needed		When finish to keep the desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - Spray Daminozide at 2,500 to 3,750 ppm and / or Paclobutrazol drench application at 1 to 2 ppm for finishing if required. The most vigorous varieties are Bolero Blue, Purple Polka and Violet Vogue that may need earlier and high-rate applications
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

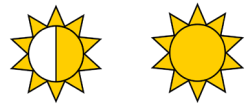
DANZIGER

PROPAGATION TIPS

PHLOXSTAR™

Phlox drummondii

For additional information and availability: PHLOXSTAR™



Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	Recommended	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-5 150 ppm N	Spray fungicide to control Botrytis and bacteria Week 2

- **Irrigation specification -** Spray adjuvant after sticking and remove from mist as soon as possible

- Phlox drummondii prefer humidity from tenting vs misting foliage and soil. Dry soil conditions are conducive to uniform rooting. Spray for control of Powdery Mildew.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	6.0/6.5	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Beneficial		Day of sticking	Feeding through Mist
Week 2	6.0/6.5	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	6.0/6.5	.80 to .90	Cool to 68°-70°F (20°-21°C)	Feed 100 ppm to 150 ppm				
Week 4	6.0/6.5	.80 to .90	65° to 68°F (18°/20°C)	Feed 100 ppm to 150 ppm				
Week 5	6.0/6.5	0.9 to 1.0	65° to 68°F (18°/20°C)	Feed 100 ppm to 150 ppm		Daminozide as needed @ 2500 ppm	Spray for Powdery Mildew	

DANZIGER

PHLOXSTAR™

For additional information and availability: PHLOXSTAR™

Phlox drummondii

FINISHING TIPS

- Allow soil to dry between irrigations (avoid saturated soil)
- Pinch at transplant or shortly after transplant
- Best when grown under high light with cool temperatures

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch is recommended Phlox d. responds to long days to hasten flowering	100 - 150 ppm N	In liner and finish stages
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 9 wks	60° to 68° F (15° to 20° C)		Soil EC 0.9 - 1.2 pH 6.0 to 6.5	
(15 cm) 6 ½”	1 plant per pot			
8 to 9 wks				
(20 cm) 8”	3 plants per container			

- PGR - Spray Daminozide at 2500 to 3750ppm on finished plants early in crop schedule / Paclobutrazol drench application at 0.25-0.5 ppm for finishing if required
- Pinch at transplant or shortly after transplant
- Scout for Aphids, Mites and Thrips
- Drench after transplant for Pythium / Phytophthora – Spray for Powdery Mildew control
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	6.0 to 6.5	0.9 to 1.2	65° to 68° F (18° to 20° C)	Feed 100 to 150 ppm		Daminozide as needed	Spray fungicide after transplant	Daminozide @ 2500to 3750 ppm
Week 6 to 12	6.0 to 6.5	0.9 to 1.2	60° to 68° F (15° to 20° C)	Feed 100 to 150 ppm	Optional	Paclobutrazol Drench	Spray for Powdery Mildew	If plants are growing under warm conditions, Paclobutrazol drench application at 0.25 to 0.5 ppm

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB / TRIFLUMIZOLE

DANZIGER

MEGA PAZZAZ ™

Portulaca oleracea

For additional information and availability: MEGA PAZZAZ™

PROPAGATION TIPS

Stick on priority – Number 1 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 68° - 70° (20° - 21° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist as soon as possible/excess misting will create uneven rooting and delay rooting

- This genera is top priority for sticking. Remove plants from box upon receiving allowing air-movement around bags. Daminozide at 1500ppm the day after sticking.
- Depending on growth, pinch week 3 or at transplant to allow improved branching.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Additional lighting is not required		Day of sticking	Feeding through Mist
Week 2	5.8 to 6.2	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 68° - 70° (20° - 21° C)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 to 150 ppm				

DANZIGER

MEGA PAZZAZ ™

For additional information and availability: MEGA PAZZAZ™

Portulaca oleracea

FINISHING TIPS

- Allow plants to dry completely between irrigations
- Maintain warm temperatures allowing plants to develop

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
5 to 6 wks	Average Day	Pinch is optional	100 to 150 ppm N	Paclobutrazol 1-2 ppm as needed
(12 cm) 5” pot	68°-72° F (20°-22° C)			
6 to 7 wks	1 plant per pot		Soil EC 1.0 - 1.5 pH 5.8 to 6.2	
(15 cm) 6 ½”				
7 to 9 wks				
(20 cm) 8”	3 plants per container			

- PGR - Paclobutrazol 1-2 ppm as needed
- Scout for Aphids, Thrips and Whiteflies
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 4	5.8 to 6.2	1.0 to 1.2	68° to 72° F (20° to 22° C)	Feed 100 to 150 ppm			Drench fungicide after transplant	
Week 5 to 12	5.8 to 6.2	1.2 to 1.5	68° to 72° F (20° to 22° C)	Feed 100 to 150 ppm		Paclobutrazol drench @ 1 to 2 ppm – if needed		When the plants are 85% size for sell

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB / Triflumizole

DANZIGER

PROPAGATION TIPS

PAZZAZ NANO™

Portulaca oleracea

For additional information and availability: PAZZAZ NANO™

Stick on priority – Number 1 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 68° - 70° (20° - 21° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Additional lighting is not required	Daminozide day after sticking	Day of sticking	Feeding through Mist
Week 2	5.8 to 6.2	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 68° - 70° (20° - 21° C)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 to 150 ppm		Daminozide as required		

- **Irrigation specification –** Reduce mist as soon as possible/excess misting will create uneven rooting and delay rooting

- This genera is top priority for sticking. Remove plants from box upon receiving allowing air-movement around bags. Daminozide at 1500 ppm the day after sticking.
- Depending on growth, pinch week 3 or at transplant to allow improved branching.

DANZIGER

PAZZAZ NANO™

For additional information and availability: PAZZAZ NANO™

Portulaca oleracea

FINISHING TIPS

- Allow plants to dry completely between irrigations
- Maintain warm temperatures allowing plants to develop

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
5 to 6 wks	Average Day	Pinch is optional	100 to 150 ppm N	Paclobutrazol 1-2 ppm as needed
(12 cm) 5" pot	68°-72° F (20°-22° C)			
6 to 7 wks	1 plant per pot		Soil EC 1.0 - 1.5 pH 5.8 to 6.2	
(15 cm) 6 ½"				
7 to 9 wks				
(20 cm) 8"	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 4	5.8 to 6.2	1.0 to 1.2	68° to 72° F (20° to 22° C)	Feed 100 to 150 ppm			Drench fungicide after transplant	
Week 5 to 12	5.8 to 6.2	1.2 to 1.5	68° to 72° F (20° to 22° C)	Feed 100 to 150 ppm		Paclobutrazol drench @ 1 to 2 ppm – if needed		When the plants are 85% size for sell

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB / Triflumizole

- PGR - Paclobutrazol 1-2 ppm as needed
- Scout for Aphids, Thrips and Whiteflies
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

PROPAGATION TIPS

PAZZAZ™

For additional information and availability: PAZZAZ™

Portulaca oleracea

Stick on priority – Number 1 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 68° - 70° (20° - 21° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Additional lighting is not required	Daminozide day after sticking	Day of sticking	Feeding through Mist
Week 2	5.8 to 6.2	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 68° - 70° (20° - 21° C)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 to 150 ppm		Daminozide as required		

- **Irrigation specification –** Reduce mist as soon as possible/excess misting will create uneven rooting and delay rooting

- This genera is top priority for sticking. Remove plants from box upon receiving allowing air-movement around bags. Daminozide at 1500ppm the day after sticking.
- Depending on growth, pinch week 3 or at transplant to allow improved branching.

DANZIGER

PAZZAZ™

For additional information and availability: PAZZAZ™

Portulaca oleracea

FINISHING TIPS

- Allow plants to dry completely between irrigations
- Maintain warm temperatures allowing plants to develop

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
5 to 6 wks	Average Day	Pinch Additional lighting will hasten flowering under short days	100 to 150 N ppm	Paclobutrazol drench @ 1 to 2 ppm – if needed
(12 cm) 5" pot	68°-72° F (20°-22° C)			
6 to 7 wks			Soil EC 1.0 - 1.5 pH 5.8 to 6.2	
(15 cm) 6 ½"				
7 to 9 wks				
(20 cm) 8"	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 4	5.8 to 6.2	1.0 to 1.2	68° to 72° F (20° to 22° C)	Feed 100 to 150 ppm			Drench fungicide at transplant	
Week 5 to 12	5.8 to 6.2	1.2 to 1.5	68° to 72° F (20° to 22° C)	Feed 100 to 150 ppm		Paclobutrazol drench @ 1 to 2 ppm – if needed		

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB / TRIFLUMIZOLE

- PGR - Paclobutrazol drench @ 1 to 2 ppm – if needed
- Scout for Aphids, Thrips and Whiteflies
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

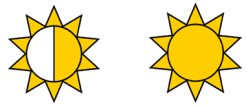
DANZIGER

PROPAGATION TIPS

SALLYFUN™

Salvia farinacea

For additional information and availability: SALLYFUN™



Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 18° - 20° C (65° - 68° F)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist as soon as possible

- Spray adjuvant at sticking .
- Daminozide at 2500-3750 ppm - Depending on growth
- Pinch week 3 or at transplant is optional.
- Pinching delays flowering by approximately two weeks, providing greater flexibility in scheduling production and delivery.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Neutral		Day of sticking	Feeding through Mist
Week 2	5.8 to 6.2	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 20° - 21°C (68°-70° F)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Daminozide as required		

DANZIGER

SALLYFUN™

Salvia farinacea

For additional information and availability: SALLYFUN™

FINISHING TIPS

- Allow plants to dry between irrigations
- Sallyfun Salvia will flower easily for early season requirements

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
5 to 6 wks	Average Day	Pinch Day Netural	150 - 200 ppm N	Daminozide @ 2500 ppm for finishing
(12 cm) 5” pot	68° to 72°F (20° to 22°C)			
6 to 7 wks	1 plant per pot		Soil EC 1.0 - 1.5 pH 5.8 to 6.2	Paclobutrazol 1 to 2 ppm drench to hold plants
(15 cm) 6 ½”				
7 to 10 wks				
(20 cm) 8”	3 plants per container			
7 to 9 wks				
(25 cm) 10”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 4	5.8 to 6.2	1.0 to 1.2	68° to 72°F (20° to 22°C)	Feed 100 to 150 ppm		Daminozide @ 2500 ppm as needed	Drench fungicide after transplant	
Week 5 to 12	5.8 to 6.2	1.2 to 1.5	68° to 72°F (20° to 22°C)	Feed 100 to 150 ppm		Paclobutrazol @ 1 to 2 ppm drench to finish		Paclobutrazol drench when flower bud emerge

- PGR - Spray Daminozide for height control / Paclobutrazol drench for holding
- Scout for Aphids, Leaf-miners and Whiteflies
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

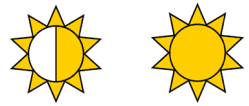
DANZIGER

PROPAGATION TIPS

TALYA™

Sanvitalia speciosa

For additional information and availability: TALYA™



Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	Suggested	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 68° - 70° (20° - 21° C)		Weeks 3-5 100 ppm N	Apply broad spectrum Week 2

- Spray adjuvant at sticking. Remove from mist as soon as possible
- Sanvitalia is sensitive to over misting

- Maintain warm temperatures allowing plants to develop
- Average daily temperature of 70 F / 20 C
- Spray fungicide to control botrytis

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.5 to 6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist			Day of sticking	
Week 2	5.5 to 6.2	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.5 to 6.2	.80 to .90	Cool to 68° - 70° (20° - 21° C)	Feed 100 ppm N				
Week 4	5.5 to 6.2	.80 to .90	68° - 70° (20° - 21° C)	Feed 100 ppm N		Should not be required		

DANZIGER

TALYA™

For additional information and availability: TALYA™

Sanvitalia speciosa

FINISHING TIPS

- Allow soil to dry between irrigations
- Maintain a low EC level for proper growth and sizing of plant
- Transplant liners when plants are rooted and actively growing

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch – No Daylength Neutral	100 - 125 ppm N	Daminozide @ 2000 to 2500 ppm
(12 cm) 5” pot	65° to 68° F (18° to 20° C)			
8 to 10 wks	1 plant per pot		Soil EC 0.8 - 1.0 pH 5.5 to 6.2	
(15 cm) 6 ½”				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 5	5.5 to 6.2	0.8 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 125 ppm	Day neutral	Daminozide @ 2000 to 2500 ppm	Drench fungicide at transplant	
Week 6 to 12	5.5 to 6.2	0.8 to 1.0	65° to 68° F (18° to 20° C)	Feed 100 to 125 ppm			Spray for Powdery Mildew	

- Saturated soil conditions will increase disease pressure. Keep the soil moderately moist
- Spray broad spectrum fungicide after transplant
- Scout and spray for Powdery Mildew
- Scout for Aphids, Fungus Gnats and Shore Flies on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

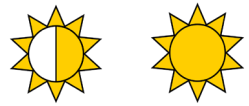
DANZIGER

PROPAGATION TIPS

BALI™ Blue

Scaevola aemula

For additional information and availability: BALI™ Blue



Stick on priority – Number 4 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 3 72°-74° F (22° - 23°C)	Recommended	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 4 - 5 68° - 70° (20° - 21° C)		Weeks 3-5 100-150 ppm N	Apply broad spectrum Week 2

- **Misting specification -** Remove from mist as soon as possible
- Do not over-mist or saturate soil **-** spray adjuvant at sticking

- Maintain warm temperatures allowing plants to develop.
- Spray Daminozide at 2500 ppm or apply Uniconzole 2-5 ppm if needed only
- Pinch is optional recommended week 4 or at transplant

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8/6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	72°-74° F (22° - 23°C)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 ppm to 150 ppm				
Week 5	5.8 to 6.2	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 ppm to 150 ppm		Daminozide/ uniconzolel as needed		Daminozide @ 2000 to 2500 ppm

DANZIGER

BALI™ Blue

Scaevola aemula

For additional information and availability: BALI™ Blue

FINISHING TIPS

- Keep the temperatures moderately warm to allow plants to continue to have a good development (average daily temperature at 68 to 70 F (20 to 21 C).

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch for better branching and uniformity - suggested	100-150 ppm N	Spray Daminozide @ 2500 to 3750 ppm
(12 cm) 5" pot	68°-70° F (20°-21° C)			
8 to 9 wks	1 plant per pot		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½"				
8 to 9 wks				
(20 cm) 8 "	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.8 to 6.2	1.0 to 1.2	68° to 70° F (20° to 21° C)	Feed 100 to 150 ppm		B-9 as needed	Spray fungicide after transplant	Spray Daminozide @ 2500 to 3750 ppm
Week 6 to 13	5.8 to 6.2	1.0 to 1.2	68° to 70° F (20° to 21° C)	Feed 100 to 150 ppm		Uniconzolel if required		

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - Spray Daminozide at 2500 to 3750 ppm for finishing plants
- Uniconzole 2-5 ppm if required for finishing.
- Drench a broad spectrum fungicide after transplant
- Scout for Aphids and Fungus Gnats and Mites
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

PROPAGATION TIPS

BLESSING™

Scaevola aemula

For additional information and availability: BLESSING™

Stick on priority – Number 4 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 3 72°-74° F (22° - 23°C)	Recomm ended	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 68° - 70° (20° - 21° C)		Weeks 3-5 100 to 150 ppm N	Apply broad spectrum Week 2

- **Misting specification -** Remove from mist as soon as possible
- Do not over-mist or saturate soil **-** Spray adjuvant at sticking

- Maintain warm temperatures allowing plants to develop.
- Spray Daminozide at 2000 to 2500 ppm or apply Uniconzole 2-5 ppm if required
- Pinch is recommended week 4 or at transplant

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	72°-74° F (22° - 23°C)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 ppm to 150 ppm				
Week 5	5.8 to 6.2	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 ppm to 150 ppm		Daminozide/ Uniconzolel as needed		Daminozide @ 2000 to 2500 ppm

DANZIGER

BLESSING™

Scaevola aemula

For additional information and availability: BLESSING™

FINISHING TIPS

- Keep the temperatures moderately warm to allow plants to continue to have a good development (average daily temperature at 68 to 70 F (20 to 21 C).

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	pinch for better branching and uniformity - suggested Night interruption or extended day- Optional	100 - 150 ppm N	Spray Daminozide @ 2500 to 3750 ppm
(12 cm) 5" pot	68°-70° F (20°-21° C)			
8 to 9 wks	1 plant per pot		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½"				
8 to 9 wks				
(20 cm) 8"	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.8 to 6.2	1.0 to 1.2	68° to 70° F (20° to 21° C)	Feed 100 to 150 ppm		B-9 as needed	Spray fungicide after transplant	Spray Daminozide @ 2500 to 3750 ppm
Week 6 to 13	5.8 to 6.2	1.0 to 1.2	68° to 70° F (20° to 21° C)	Feed 100 to 150 ppm		Uniconzolel if required		

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - Spray Daminozide at 2500 to 3750 ppm for finishing plants
- Uniconzole 2-5 ppm if required for finishing.
- Drench a broad spectrum fungicide after transplant
- Scout for Aphids and Fungus Gnats and Mites
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

PROPAGATION TIPS

TOUCH™

Scaevola aemula

For additional information and availability: TOUCH™

Stick on priority – Number 4 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 3 72°-74° F (22° - 23°C)	Recommended	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 4 - 5 68° - 70° (20° - 21° C)		Weeks 3-5 100-150 ppm N	Apply broad spectrum Week 2

- **Misting specification -** Remove from mist as soon as possible
- Do not over-mist or saturate soil **-** Spray adjuvant at sticking

- Maintain warm temperatures allowing plants to develop.
- Spray Daminozide at 2000 to 2500 ppm or apply Uniconzole 2-5 ppm if required

- Pinch is recommended week 4 or at transplant

Rooting	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	72°-74° F (22° - 23°C)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 ppm to 150 ppm				
Week 5	5.8 to 6.2	1.0 to 1.2	68° - 70° (20° - 21° C)	Feed 100 ppm to 150 ppm		Daminozide/ uniconzolel as needed		Daminozide @ 2000 to 2500 ppm

DANZIGER

TOUCH™

For additional information and availability: TOUCH™

Scaevola aemula

FINISHING TIPS

- Keep the temperatures moderately warm to allow plants to continue to have a good development (average daily temperature at 68 to 70 F (20 to 21 C).

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	pinch for better branching and uniformity - suggested Night interruption or extended day- Optional	150 - 200 ppm N	Spray Daminozide @ 2500 to 3750 ppm \
(12 cm) 5” pot	68°-70° F (20°-21° C)			
8 to 9 wks	1 plant per pot		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½”				
8 to 9 wks				
(20 cm) 8 ”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.8 to 6.2	1.0 to 1.2	68° to 70° F (20° to 21° C)	Feed 100 to 150 ppm		B-9 as needed	Spray fungicide after transplant	Spray Daminozide @ 2500 to 3750 ppm
Week 6 to 13	5.8 to 6.2	1.0 to 1.2	68° to 70° F (20° to 21° C)	Feed 100 to 150 ppm		Uniconzolel if required		

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR PGR - Spray Daminozide at 2500 to 3750 ppm for finishing plants
- Uniconzole 2-5 ppm if required for finishing.
- Drench a broad spectrum fungicide after transplant
- Scout for Aphids and Fungus Gnats and Mites
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

PROPAGATION TIPS

VANESSA™

Verbena x hortensis

For additional information and availability: VANESSA™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	Not required	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 70° (18° - 21° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist as soon as possible

- Spray adjuvant at sticking .
- Daminozide at 2500-3750 ppm if needed
- No pinch is necessary for producing an excellent liner- Pinching is optional – under high radiation conditions (above 3-4 pair of leaves).

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Neutral	Daminozide day after sticking	Day of sticking	Feeding through Mist
Week 2	5.8 to 6.2	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 68°-70°F (20°-21°C)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	65° - 68°F (18°-20°C)	Feed 100 ppm to 150 ppm		Daminozide as required		

DANZIGER

VANESSA™

For additional information and availability: VANESSA™

Verbena x hortensis

FINISHING TIPS

- Verbena respond well to Negative DIF to control height (day temperatures are cooler than night temperatures)
- Verbena Vanessa™ will flower easily for early season requirements

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
5 to 6 wks	Average Day	Pinch – optional under high radiation conditions (above 3-4 pair of leaves) Day Neutral	150- 200 ppm N	Daminozide @ 2500 ppm for finishing Paclobutrazol @ 1 to 2 ppm drench to finish
(12 cm) 5” pot	60° to 68° F (16°-20° C)			
6 to 7 wks	1 plant per pot		Soil EC 1.0 - 1.5 pH 5.8 to 6.2	
(15 cm) 6 ½”				
7 to 8 wks				
(20 cm) 8”	3 plants per container			
7 to 8 wks				
(25cm) 10”	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 4 Transplant	5.8 to 6.2	1.0 to 1.2	60° to 68° F (16° to 20° C)	Feed 100 to 150 ppm		Daminozide @ 2500 ppm as needed	Drench fungicide after transplant	
Week 5 to 12	5.8 to 6.2	1.2 to 1.5	60° to 68° F (6 to 20° C)	Feed 100 to 150 ppm		Paclobutrazol @ 1 to 2 ppm drench		Paclobutrazol drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

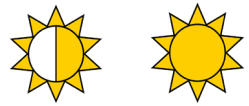
- PGR - Spray Daminozide for height control / Paclobutrazol drench for finishing
- Scout for Aphids, Leaf miners, Thrips and Whiteflies
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

VANESSA™ COMPACT

Verbena x hortensis

For additional information and availability: VANESSA™ COMPACT



PROPAGATION TIPS

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°-74° F (22° - 23°C)	Not required	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 65° - 70° (18° - 21° C)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Reduce mist as soon as possible

- Spray adjuvant at sticking .
- Daminozide at 2000 ppm the day after sticking
  No pinch is necessary for producing an excellent liner- Pinching is optional – under high radiation conditions (above 3-4pair of leaves).
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	72°-74° F (22° - 23°C)	50 ppm N in mist	Neutral	Daminozide day after sticking	Day of sticking	Feeding through Mist
Week 2	5.8 to 6.2	.80 to .90	72°-74° F (22° - 23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 68°-70°F (20°-21°C)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	65° - 68°F (18°-20°C)	Feed 100 ppm to 150 ppm		Daminozide as required		

DANZIGER

VANESSA™ COMPACT

Verbena x hortensis

For additional information and availability: VANESSA™ COMPACT

FINISHING TIPS

- Verbena respond well to Negative DIF to control height (day temperatures are cooler than night temperatures)
- Verbena Vanessa™ Compact will flower easily for early season requirements

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
5 to 6 wks	Average Day	Pinch – optional under high radiation conditions (above 3-4 pair of leaves) Day Neutral	150 - 200 ppm N	Daminozide @ 2500 ppm for finishing Paclobutrazol @ 1 to 2 ppm drench to finish
(12 cm) 5” pot	60°-68° F (16° to 20° C)			
6 to 7 wks	1 plant per pot		Soil EC 1.0 - 1.5 pH 5.8 to 6.2	
(15 cm) 6 ½”				
7 to 8 wks				
(20 cm) 8”	3 plants per container			
7 to 8 wks				
(25 cm) 10”	3 plants per container			

Finishing	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 4 Transplant	5.8 to 6.2	1.0 to 1.2	60° to 68° F (16° to 20° C)	Feed 100 to 150 ppm		Daminozide @ 2500 ppm as needed	Drench fungicide after transplant	
Week 6 to 13	5.8 to 6.2	1.0 to 1.2	60° to 68° F (16° to 20° C)	Feed 100 to 150 ppm		Paclobutrazol @ 1 to 2 ppm drench		Paclobutrazol drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- PGR - Spray Daminozide for height control / Paclobutrazol drench for finishing
- Scout for Aphids, Leaf miners, Thrips and Whiteflies

DANZIGER

PERENNIALS

DANZIGER

PERENNIALS

Technical Product Pages

2027-2028

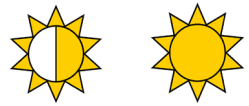


PROPAGATION TIPS

CELESTIA™

Agastache foeuiculum

For additional information and availability: CELESTIA™



Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Suggested	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 18° - 20° C (65° - 68° F)		Weeks 3-4 100 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible. Avoid saturated soil conditions during propagation.
- Daminozide spray application @ 2500-3750 ppm week 4 may be required to control stretch in liner stage. Once rooted, allow soil to dry slightly between irrigations.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 / 6.3	0.80	21° / 22° C (70°-72° F)	50 ppm N in mist			Day of sticking	
Week 2	5.6 / 6.3	.80 to .90	21 / 22 C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 / 6.3	.90 to 1.0	Cool to 18° - 20° C (65° - 68° F)	Feed 100 ppm to 150 ppm				Pinching
Week 4	5.6 / 6.3	1.0 to 1.2	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Daminozide as needed		

DANZIGER

CELESTIA™

Agastache foeuiculum

For additional information and availability: CELESTIA™

FINISHING TIPS

- High quality plants are finished with high light and cool temperatures
- May require two pinches, depending on production schedule and container size

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 10 wks	Average Day	Pinch – in liner	150 - 200 ppm N	Daminozide spray application @ 2500 – 3750 ppm
15 cm (1 gallon) 1 ppp	(16° to 18° C)			
10 to 12 wks			Soil EC 1.0 - 1.2 pH 5.6 to 6.5	
20 cm (2 gallon) 1 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.5 to 6.3	1.0 to 1.2	16° to 18° C	Feed 150 to 200 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Rhizoctonia
Week 6 to 12	5.5 to 6.3	1.0 to 1.2	16° to 18° C	Feed 150 to 200 ppm				

- PGR - Spray Daminozide at 2500 to 3750 ppm on finished plants early in crop schedule
- Maintain good airflow and allow plants to dry before nightfall. Do not keep consistently wet or root rot problems may develop. The first signal of damp conditions would be yellowing of foliage and weak growth
- Scout for Aphids, Mites and Whitefly
- Drench after transplant for Pythium / Phytophthora and Rhizoctonia
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

PEACH PEARL, PINK PEARL, PRINCE'S PLUME & PARADE OF PARROTS

Agastache hybrida

For additional information and availability: PEACH PEARL | PINK PEARL | PRINCE'S PLUME | PARADE OF PARROTS

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-4 100 to 125 ppm	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible. Avoid saturated soil conditions.

- Daminozide spray application @ 1500 ppm week 4 may be required to control stretch in liner stage. Once rooted, allow soil to dry slightly between irrigations.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6/6.2	0.80	70°/72°F (21°/22°C)	50 ppm N in mist	Optional		Day of sticking	
Week 2	5.6 to 6.2	.80 to .90	70°/72°F (21°/22°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.2	.90 to 1.0	Cool to 68°/70°F (20°/21°C)	Feed 100 ppm N				
Week 4	5.6 to 6.2	.90 to 1.0	68° to 70°F (20° to 21°C)	Feed 100 ppm N				
Week 5	5.6 to 6.2	.90 to 1.0	68° to 70°F (20° to 21°C)	Feed 100 ppm N		Optional		

TERRA NOVA NURSERIES, INC. DANZIGER

FINISHING TIPS

PEACH PEARL, PINK PEARL, PRINCE'S PLUME & PARADE OF PARROTS

Agastache Hybrida

For additional information and availability: PEACH PEARL | PINK PEARL | PRINCE'S PLUME | PARADE OF PARROTS

- High quality plants are finished with high light and cool temperatures
- Pinch at transplant
- Allow some growth under short days to 'bulk' plants before initiation

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 10 wks	Average Day	Pinch – in liner	150 - 200 ppm N	Daminozide spray application @ 2500 – 3750 ppm
15 cm (1 gallon) 1 ppp	(16° to 18° C)			
10 to 12 wks			Soil EC 1.0 - 1.2 pH 5.6 to 6.5	
20 cm (2 gallon) 1 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.5 to 6.3	1.0 to 1.2	16° to 18° C	Feed 150 to 200 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Rhizoctonia
Week 6 to 12	5.5 to 6.3	1.0 to 1.2	16° to 18° C	Feed 150 to 200 ppm				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB / Triflumizole

- PGR - Spray Daminozide at 2500 to 3750 ppm on finished plants early in crop schedule
- Maintain good airflow and allow plants to dry before nightfall. Do not keep consistently wet or root rot problems may develop. The first signal of damp conditions would be yellowing of foliage and weak growth.
- Scout for Aphids, Mites and Whitefly
- Drench after transplant for Pythium / Phytophthora and Rhizoctonia
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

TERRA NOVA NURSERIES, INC. DANZIGER

SUNNY SPARKS™

Agastache aurantiace

For additional information and availability: SUNNY SPARKS™

PROPAGATION TIPS

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Suggested	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 18° - 20° C (65° - 68° F)		Weeks 3-4 100 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking. Remove from mist as soon as possible. Avoid saturated soil conditions.

- Daminozide spray application @ 2500-3750 ppm week 4 may be required to control stretch in liner stage. Once rooted, allow soil to dry slightly between irrigations.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.5 / 6.3	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist			Day of sticking	
Week 2	5.5 to 6.3	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.5 to 6.3	.90 to 1.0	Cool to 18° - 20° C (65° - 68° F)	Feed 100 ppm to 150 ppm				
Week 4	5.5 to 6.3	1.0 to 1.2	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Daminozide as needed		Pinch at transplant

DANZIGER

SUNNY SPARKS™

Agastache aurantiace

For additional information and availability: SUNNY SPARKS™

FINISHING TIPS

- High quality plants are finished with high light and cool temperatures
- May require two pinches, depending on production schedule and container size

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 10 wks	Average Day	Pinch – in liner	150 - 200 ppm N	Daminozide spray application @ 2500 – 3750 ppm
15 cm (1 gallon) 1 ppp	(16° to 18° C)			
10 to 12 wks			Soil EC 1.0 - 1.2 pH 5.6 to 6.5	
20 cm (2 gallon) 1 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.5 to 6.3	1.0 to 1.2	16° to 18° C	Feed 150 to 200 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Rhizoctonia
Week 6 to 12	5.5 to 6.3	1.0 to 1.2	16° to 18° C	Feed 150 to 200 ppm				

- PGR - Spray Daminozide at 2500 to 3750 ppm on finished plants early in crop schedule
- Maintain good airflow and allow plants to dry before nightfall. Do not keep consistently wet or root rot problems may develop. The first signal of damp conditions would be yellowing of foliage and weak growth.
- Scout for Aphids, Mites and Whitefly
- Drench after transplant for Pythium / Phytophthora and Rhizoctonia
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

Emerald Charm™

Asarum

For additional information and availability: FLORESTA™ CATALOG

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 68° - 70° (20° - 21° C)		Weeks 3-4 100 to 150 ppm N	Apply broad spectrum Week 2

- **Misting specification -** Remove from mist as soon as possible
- Spray adjuvant at sticking

- - Pinching is not needed

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist	Not required		Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	68° - 70° (20° - 21° C)	Feed 100 ppm to 150 ppm	Not required			
Week 4	5.8 to 6.2	.90 to 1.0	68° - 70° (20° - 21° C)	Feed 100 to 150 ppm	Not required	Not required		

DANZIGER

Emerald Charm™

For additional information and availability: FLORESTA™ CATALOG

Asarum

- Quality improves when finished with cool temperatures
- Will flower second year around week 8, needs outdoor cold temperatures to flower

FINISHING TIPS

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
10 to 11 wks	Average Day	No pinch necessary	100 - 150 ppm N	Not needed
(12 cm) 5" pot 1 ppp	65° - 68° (18° - 20° C)			
10 to 12 wks	1 plant per pot	No lighting necessary	Soil EC 1.0 - 1.2 pH 5.5 to 6.0	
(15 cm) 6 ½" 1 ppp				
10 to 11 wks				
(20 cm) 8" 3 ppp	3 plants per container			
10 to 12 wks				
(25 cm) 10" 3 ppp	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.6 to 6.0	1.0 to 1.2	65° to 68° F (18° to 20° C)	feed 100 to 150 ppm	Day Neutral	Not needed	Spray fungicide after transplant	
Week 6 to 12	5.6 to 6.0	1.0 to 1.2	59° to 64° f (16° to 18° C)	feed 100 to 150 ppm	Not Required			

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- Scout for Aphids and Thrips on a regular basis
- EC guidelines are based on the 2:1 water extraction method

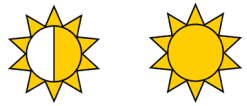
DANZIGER

PROPAGATION TIPS

PAVILION™

Caryopteris incana

For additional information and availability: PAVILION™



Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Suggested	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 -4 18° - 20° C (65° - 68° F)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible

- **Caryopteris incana** respond to short days for flowering. Stick roughly week 24 to 26 for finishing week 36. Daminozide at 2500 to 37500 ppm week 4 may be required to control stretch in liner stage.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.5 / 6.2	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist			Day of sticking	
Week 2	5.5 / 6.2	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist	Optional		Second fungicide app	
Week 3	5.5 / 6.2	.90 to 1.0	Cool to 18° - 20° C (65°- 68° F)	Feed 100 ppm to 150 ppm	Optional	Daminozide as needed		
Week 4	5.5 / 6.2	1.0 to 1.2	18° - 20° C (65°- 68° F)	Feed 100 to 150 ppm	Optional	Daminozide as needed		Pinching

DANZIGER

FINISHING TIPS

PAVILION™

Caryopteris incana

For additional information and availability: PAVILION™

- Pinching is required for branching and controlling height
- High quality plants will finish in all regions / hot and cool regions

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 8 wks	Average Day	Pinch – in the liner	150 - 200 ppm N	Daminozide spray application @ 2500 – 3750 ppm
15 cm (1 gallon) 1 ppp	(20° to 21° C)			
7 to 9 wks			Soil EC 1.0 - 1.2 pH 5.5 to 6.2	
20 cm (2 gallon) 1 ppp				

- PGR - Spray Daminozide at 2500to 3750 ppm on finished plants early in crop schedule
- Maintain good airflow and allow plants to dry before nightfall. Do not keep consistently wet or root rot problems may develop and will show as yellow green leaf color
- Scout for Aphids, Mites and Whiteflies
- Drench after transplant for Pythium / Phytophthora and Rhizoctonia.
- Optimal planting period – May-June for fall programs.
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.6 to 6.2	1.0 to 1.2	20° to 21° C	Feed 150 to 200 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Rhizoctonia
Week 6 to 13	5.6 to 6.2	1.0 to 1.2	20° to 21° C	Feed 150 to 200 ppm				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

SOLANNA™

Coreopsis grandiflora

For additional information and availability: SOLANNA™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 18° - 20° C (65° - 68° F)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible

- Daminozide at 2500 to 3750 ppm week 4.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 / 6.2	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.6 to 6.2	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 18° - 20° C (65° - 68° F)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	.90 to 1.0	18° - 20° C (65°- 68° F)	Feed 100 to 150 ppm		Daminozide as needed		
Week 5	5.8 to 6.2	1.0 to 1.2	18° C (65° F)	Feed 100 to 150 ppm		Daminozide as needed		

DANZIGER

FINISHING TIPS

SOLANNA™

For additional information and availability: SOLANNA™

Coreopsis grandiflora

- Pinching should not be required unless plants have elongated.
  Pinching of SOLANNA™ Sunset Burst and SOLANNA™ Sunset Bright enhance good branching after pinching.
- Spray for Powdery Mildew and bacterial leaf spot during production
- High quality plants are finished with high light and cool temperatures

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 9 wks	Average Day	Pinch – optional see above	150 - 200 ppm N	Daminozide spray application @ 2500 – 3750 ppm Paclobutrazol 1 to 2 ppm drench
15 cm (1 gallon) 1 ppp	20° to 21° C (68°- 70° F)			
9 to 10 wks			Soil EC 1.0 - 1.2 pH 5.6 to 6.2	
20 cm (2 gallon) 1 ppp				

- PGR - Spray Daminozide at 2500 to 3750 ppm on finished plants early in crop schedule / Paclobutrazol drench application at 1 to 2 ppm for finishing if required to hold plants
- Maintain good airflow and allow plants to dry before nightfall. Spray against Powdery Mildew
- Scout for Aphids, Thrips and Whiteflies
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.6 to 6.2	1.0 to 1.2	20° to 21° C (68°- 70° F)	Feed 150 to 200 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Rhizoctonia
Week 6 to 13	5.6 to 6.2	1.0 to 1.2	20° to 21° C (68°- 70° F)	Feed 150 to 200 ppm		Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

COREOPSIS

verticillate, grandiflora & hybrida

For additional information and availability: COREOPSIS

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 18° - 20° C (65° - 68° F)		Weeks 3-5 100 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Remove from mist as soon as root emerges

- Spray adjuvant the day of sticking. Moderate moisture for the rooting media.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.5	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Required 12 hours daylength		Day of sticking	
Week 2	5.8 to 6.5	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.5	.90 to 1.0	Cool to 20° - 21°C (68°-70° F)	Feed 100 ppm N				
Week 4	5.8 to 6.5	.90 to 1.0	20° - 21°C (68°-70° F)	Feed 100 ppm N				
Week 5	5.8 to 6.5	.90 to 1.0	18° - 20° C (65°- 68° F)	Feed 100 ppm N		Optional		

TERRA NOVA NURSERIES, INC.

DANZIGER

FINISHING TIPS

COREOPSIS

verticillate, grandiflora & hybrida

For additional information and availability: COREOPSIS

- Pinch required for quality finishing (pinch leaving 4 to 5 nodes)
- Daminozide spray application @ 2000 to 2500 ppm
- Cold beneficial (weeks of night temperatures below 55 F / 13 C)

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 10 wks	Average Day	Pinch required/ Obligate long day	150-200 ppm N	Daminozide spray application @ 2000 to 2500 ppm
15 cm (1 gallon) 1 ppp	18° - 20° C (65°- 68° F)			
8 to 10 wks			Soil EC 0.8 - 1.0 pH 5.8 to 6.5	
20 cm (2 gallon) 3 plants per container				

- Long Day Flowering Response – June through October
- Natural foliar disease resistance
- Maintain good airflow and allow plants to dry between irrigations
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.8 to 6.5	0.8 to 1.0	18° - 20° C (65°- 68° F)	Feed 100 to 150 ppm			Drench fungicide after transplant	Control of Pythium & Rhizoctonia
Week 6 to 13	5.8 to 6.5	0.8 to 1.0	18° - 20° C (65°- 68° F)	Feed 150 to 200 ppm			Spray fungicide in finishing protocols	Control of Bacterial Leaf Blights

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

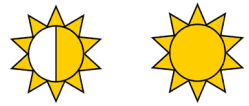
TERRA NOVA NURSERIES, INC. DANZIGER

PROPAGATION TIPS

DELIGHTFUL™

Delosperma cooperi

For additional information and availability: DELIGHTFUL™



Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 72°/74°F (22°/23°C)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 68° - 70° (20° - 21° C)		Weeks 3-4 100 to 150 ppm	Day of sticking & Week 2

- **Irrigation specification –**As a succulent plant, it requires minimal water. Maintain a microclimate with high humidity while keeping the leaves as dry as possible. Remove from mist as soon as possible

- Delosperma are day neutral and prefer bright light conditions for maximum flowering. Daminozide at 2500 to 3750 ppm week 3 if required.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.5 to 6.5	0.80	72°/74°F (22°/23°C)	50 ppm N in mist			Day of sticking	
Week 2	5.5 to 6.5	.80 to .90	72°/74°F (22°/23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.5 to 6.5	.90 to 1.0	Cool to 68°/70°F (20°/21°C)	Feed 100 ppm to 150 ppm		Daminozide as needed		Pinch week 3 or at transplant
Week 4	5.5 to 6.5	1.0 to 1.2	68° to 70°F (20° to 21°C)	Feed 100 ppm to 150 ppm		Daminozide as needed		

DANZIGER

DELIGHTFUL™

Delosperma cooperi

For additional information and availability: DELIGHTFUL™

FINISHING TIPS

- High quality plants and increased flowering are obtained with high light
- Cool temperatures may create stress and develop yellow stems (at tips)/when temperatures are warm, the plants will remain green
- Maintain soil on drier side

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 9 wks	Average Day	Pinch – Suggested week 3 or day of transplant	100 - 150 ppm N	Daminozide spray application @ 2500–3750 ppm
(12 cm) 5” pot 1 ppp	68° to 70° F (20° to 21° C)			
8 to 10 wks			Soil EC 1.2 - 1.5 pH 5.5 to 6.3	
20 cm (2 gallon) 3 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.5 to 6.3	1.0 to 1.2	68° to 70° F (20° to 21° C)	Feed 100 to 150 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Rhizoctonia
Week 6 to 14	5.5 to 6.3	1.2 to 1.5	68° to 70° F (20° to 21° C)	Feed 100 to 150 ppm				

- PGR - Spray Daminozide at 2500 to 3750 ppm on finished plants early in crop schedule
- Maintain good airflow and allow plants to dry before nightfall.
- Scout for Aphids, Mites and Scale
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

DANZIGER

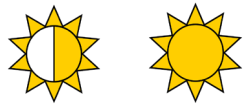
PROPAGATION TIPS

EARLY BIRD™, SANDGEM™ & SPLENDID™

Delosperma cooperi

For additional information and availability: EARLY BIRD™ SANDGEM™ SPLENDID™

Stick on priority – Number 2 out of 4 categories



Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 22° - 23°C (72°-74° F)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 20° - 21° C (68° - 70° F)		Weeks 3-4 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible.
  As a succulent plant, it requires minimal water. Maintain a microclimate with high humidity while keeping the leaves as dry as possible.

- Delosperma are day neutral and prefer bright light conditions for maximum flowering. Daminozide at 2500 to 3750 ppm week 3 if required. Pinch in liner tray week 3 to increase branching.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.5 to 6.5	0.80	22° - 23°C (72°-74° F)	50 ppm N in mist			Day of sticking	
Week 2	5.5 to 6.5	.80 to .90	22° - 23°C (72°-74° F	50 ppm N in mist			Second fungicide app	
Week 3	5.5 to 6.5	.90 to 1.0	Cool to 20° - 21° C (68° - 70° F)	Feed 100 ppm to 150 ppm				Pinch week 3 or at transplant
Week 4	5.5 to 6.5	1.0 to 1.2	20° - 21° C (68° - 70° F)	Feed 100 to 150 ppm		Daminozide as needed		

DANZIGER

FINISHING TIPS

EARLY BIRD™, SANDGEM™ & SPLENDID™

Delosperma cooperi

For additional information and availability: EARLY BIRD™ SANDGEM™ SPLENDID™

- High-quality plants and increased flowering are obtained with high light
- Cool temperatures may create stress and develop yellow stems (at tips)/when temperatures are warm, the plants will remain green
- Maintain soil on drier side

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 9 wks	Average Day	Pinch –Suggested week 3 or day of transplant	100 - 150 ppm N	Daminozide spray application @ 2000 – 3750 ppm
15 cm (1 gallon) 1 ppp	20° - 21° C (68° - 70° F)			
9 to 11 wks			Soil EC 1.2- 1.5 pH 5.5 to 6.3	
20 cm (2 gallon) 1 ppp				
8 to 10 wks				
20 cm (2 gallon) 3 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.5 to 6.3	1.0 to 1.2	20° - 21° C (68° - 70° F)	Feed 100 to 150 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Rhizoctonia
Week 6 to 14	5.5 to 6.3	1.2 to 1.5	20° - 21° C (68° - 70° F)	Feed 100 to 150 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size - if needed		

- Cool temperatures may create yellowing at the end of plant stems
- Maintain good airflow and allow plants to dry before nightfall.
- Scout for Aphids, Mites and Scale
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

DELILAH™

Dianthus plumarius

For additional information and availability: DELILAH™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 20° - 21° C (68° - 70° F)		Weeks 3-4 100 to 125 ppm N	Day of sticking & Week 2

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.5 to 6.3	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Day neutral		Day of sticking	
Week 2	5.5 to 6.3	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.5 to 6.3	.80 to 1.0	Cool to 20° - 21° C (68° - 70° F)	Feed 100 to 125 ppm				
Week 4	5.5 to 6.3	.80 to 1.0	20° - 21° C (68° - 70° F)	Feed 100 to 125 ppm		Daminozide as needed		Pinch Optional

- **Irrigation specification –** Spray with adjuvant the day of sticking - Remove from mist as soon as possible

- IBA rooting hormone applications will hasten and improve uniformity of rooting. Daminozide at 2500ppm week 3 if required if the liner is elongated.
- Pinch – is not required unless liners are elongated.
- Spray Ethephon at 300-500 ppm the day after stick. This will reset flowering response. One hour of Ethephon on the leaves will be sufficient time while mist is off.

DANZIGER

FINISHING TIPS

DELILAH™

Dianthus plumarius

For additional information and availability: DELILAH™

- Plants are best finished with high light intensity
- Cool temperature finishing will create the best quality.

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 10 wks	Average Day	Pinch – Should not be required unless liners are elongated	100 - 150 ppm N	Daminozide spray application @ 2500 ppm
15 cm (1 gallon) 1 ppp	59° to 64°F 15° to 18°C			
9 to 11 wks	Larger containers 3 ppp		Soil EC 1.0 - 1.2 pH 5.5 to 6.3	
20 cm (2 gallon)				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.5 to 6.3	1.0 to 1.2	64°F 18°C	Feed 100 to 150 ppm			Drench fungicide after transplant	Control of Pythium & Rhizoctonia
Week 6 to 12	5.5 to 6.3	1.0 to 1.2	59° to 64°F 15° to 18°C	Feed 100 to 150 ppm		Daminozide as needed		When finish to keep the size

- PGR - Spray Daminozide at 2500 ppm on finished plants early in crop schedule if required
- Cool temperatures will finish highest quality plants
- Scout for Aphids, Mites and Thrips
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

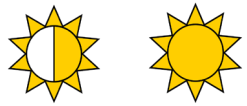
DANZIGER

PROPAGATION TIPS

GUATEMALA™ & PANAMA™

Echinacea hybrid

For additional information and availability: GUATEMALA™ PANAMA™



Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 18° - 20° C (65° - 68° F)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible

- IBA application will hasten and even rooting response. Echinacea Panama™ are long day flowering with the natural flowering response being June (facultative long day plant).
- At least 14-hours daylength and warm temperatures are required during propagation

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 / 6.0	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Required 14 hr Day length		Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 18° - 20° C (65° - 68° F)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	.90 to 1.0	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm				Pinching if needed when you have flower stems - pinch
Week 5	5.8 to 6.2	.90 to 1.0	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Daminozide as needed		2500 to 3750 ppm Daminozide

DANZIGER

GUATEMALA™ & PANAMA™

Echinacea hybrid

For additional information and availability: GUATEMALA™ PANAMA™

FINISHING TIPS

- Spray for bacterial leaf blights

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
10 to 12 wks	Average Day	Pinch 3rd to 4th week in liner before transplant.	100 - 150 ppm N	Daminozide spray application @ 2750 – 3750 ppm
15 cm (1 gallon) 1 ppp	(20°C)			
10 to 12 wks	3 plants per container		Soil EC 0.8 - 1.2 pH 5.8 to 6.2	
19 cm (2 gallon) 1 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.8 to 6.2	0.8 to 1.0	20° - 21°C (68°-70° F)	Feed 100 to 150 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Phytophthora
Week 6 to 13	5.8 to 6.2	0.8 to 1.2	20° - 21°C (68°-70° F)	Feed 100 to 150 ppm			Spray fungicide in finishing protocols	Control of Bacterial Leaf Blights

- Long Day Flowering Response Natural flowering time is weeks 22 - 24
- Maintain warm temperatures during finishing at 20° C (68° F) average daily temperature to allow continued growth and progression of new leaves
  High light radiation prevents plants from becoming elongated
- PGR - Spray Daminozide at 2500 to 3750 ppm if needed
- Maintain good airflow and allow plants to dry before nightfall/spray for bacterial leaf blights
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

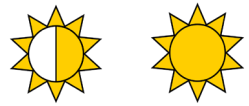
DANZIGER

PROPAGATION TIPS

MARVELYS™

Erysimum linifolium

For additional information and availability: MARVELYS™



Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Optional - (0.4% IBA)	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 18° - 20° C (65° - 68° F)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible

- Erysimum is day neutral. The Marvelys™ series will flower early enough for most regions. Daminozide at 2500 to 3750 ppm week 4. Pinch week 4.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.80 to .90	Cool to 18° - 20° C (65° - 68° F)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.0	.80 to .90	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Daminozide as needed		Pinch recommended
Week 5	5.6 to 6.0	.80 to .90	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Daminozide as needed		

DANZIGER

MARVELYS™

Erysimum linifolium

For additional information and availability: MARVELYS™

FINISHING TIPS

- A second pinch will shape plants and promote more uniform flower response
- Allow soil to dry between irrigations

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 10 wks	Average Day	Pinch –Suggested week 4 in rooting	100 - 150 ppm N	Daminozide spray application @ 2000 – 3750 ppm Paclobutrazol 1 to 2 ppm drench
15 cm (1 gallon) 1 ppp	(16°C / 60°F)			
9 to 11 wks	3 plants per container for 20 cm or larger		Soil EC 0.8 - 1.2 pH 5.8 to 6.2	
20 cm (2 gallon) 3 ppp				

- PGR - Spray Daminozide at 2500 to 3750 ppm on finished plants early in crop schedule / Paclobutrazol drench application at 1 to 2 ppm for finishing if required
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Aphids, Mites and Thrips
- Drench after transplant for Botrytis and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.8 to 6.2	.08 to 1.0	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Phytophthora
Week 6 to 12	5.8 to 6.2	1.0 to 1.4	10° to 16°C (50° - 60° F)	Feed 100 to 150 ppm		Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

SUNSTRONG™

Erysimum hybrida

For additional information and availability: SUNSTRONG™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Optional - (0.4% IBA)	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 18° - 20° C (65° - 68° F)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible

- Erysimum is day neutral. The SunStrong™ series will flower early enough for most regions. Daminozide at 2500 to 3750 ppm week 4. Pinch week 4.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.80 to .90	Cool to 18° - 20° C (65° - 68° F)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.0	.80 to .90	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Daminozide as needed		Pinch recommended
Week 5	5.6 to 6.0	.80 to .90	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Daminozide as needed		

DANZIGER

SUNSTRONG™

Erysimum hybrida

For additional information and availability: SUNSTRONG™

FINISHING TIPS

- A second pinch will shape plants and promote more uniform flower response
- Allow soil to dry between irrigations

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 10 wks	Average Day	Pinch – Suggested week 4 in rooting	100 - 150 ppm N	Daminozide spray application @ 2000 – 3750 ppm Paclobutrazol 1 to 2 ppm drench
15 cm (1 gallon) 1 ppp	(16°C / 60°F)			
9 to 11 wks	3 plants per container for 20 cm or larger		Soil EC 0.8 - 1.2 pH 5.8 to 6.2	
20 cm (2 gallon) 3 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.8 to 6.2	.08 to 1.0	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Phytophthora
Week 6 to 12	5.8 to 6.2	1.0 to 1.4	10° to 16°C (50° - 60° F)	Feed 100 to 150 ppm		Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

- PGR - Spray Daminozide at 2500 to 3750 ppm on finished plants early in crop schedule / Paclobutrazol drench application at 1 to 2 ppm for finishing if required
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Aphids, Mites and Thrips
- Drench after transplant for Botrytis and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

GUSTO™

Gaillardia hybrida

For additional information and availability: GUSTO™

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 18°- 21° C (65°- 70° F)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking. Remove from mist as soon as possible.
- Overwet soil will delay rooting and non-uniform callusing
- Gaillardia respond to long days for flowering (obligate long day plant). The Gusto™ series will flower early enough for most regions. Daminozide at 2500 ppm week 3.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 20° - 21°C (68°-70° F)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	.90 to 1.0	20° - 21°C (68°-70° F)	Feed 100 to 150 ppm		Daminozide as needed		Pinching
Week 5	5.8 to 6.2	1.0 to 1.2	18° C (65° F)	Feed 100 to 150 ppm		Daminozide as needed		

DANZIGER

GUSTO™

For additional information and availability: GUSTO™

Gaillardia hybrida

FINISHING TIPS

- Allow soil to dry between irrigations

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 9 wks	Average Day	Pinch – before transplant	100 - 150 ppm N	Daminozide spray application @ 2500 – 3750 ppm Paclobutrazol 1 to 2 ppm drench
15 cm (1 gallon) 1 ppp	20° - 21°C (68°-70° F)			
9 to 10 wks			Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
20 cm (2 gallon) 1 ppp				
7 to 9 wks				
20 cm (2 gallon) 3 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.8 to 6.2	1.0 to 1.2	20° - 21°C (68°-70° F)	Feed 100 to 150 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Phytophhtora
Week 6 to 13	5.8 to 6.2	1.0 to 1.2	20° - 21°C (68°-70° F)	Feed 100 to 150 ppm		Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

- PGR - Spray Daminozide at 2500 to 3750 ppm on finished plants early in crop schedule / Paclobutrazol drench application at 1 to 2 ppm for finishing if required
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Aphids, Mites and Thrips
- Drench after transplant for Botrytis and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

PROPAGATION TIPS

STEFFI™

Gaura lindheimeri

For additional information and availability: STEFFI™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Suggested	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 18° - 20° C (65° - 68° F)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible.
- Best to root in high humidity and reduced mist limiting the amount of moisture in soil.
- Gaura are facultative long day plants/flowering is hastened under long days. Daminozide at 2500 ppm week 4.
- Pinch at week 4 leaving 5 to 6 nodes below pinch.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Supplemental lighting to 10-12 weeks where needed		Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.80 to .90	Cool to 20° - 21°C (68°-70° F)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	.80 to .90	20° - 21°C (68°-70° F)	Feed 100 to 150 ppm		Daminozide as needed		Pinch recommended
Week 5	5.8 to 6.2	.80 to .90	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Daminozide as needed		

DANZIGER

STEFFI™

For additional information and availability: STEFFI™

Gaura lindheimeri

- Maintain soil evenly moist
- High light levels best for finishing

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 10 wks	Average Day	Pinch – Suggested week 4 in the linder	100 - 150 ppm N	Daminozide spray application @ 2500 – 3750 ppm
15 cm (1 gallon) 1 ppp	(18°C/65°F)			
9 to 11 wks			Soil EC 0.8 - 1.0 pH 5.8 to 6.2	
20 cm (2 gallon) 1 ppp				
8 to 10 wks				
20 cm (2 gallon) 3 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.8 to 6.2	0.8 to 1.0	18° - 20° C (65° - 68° F)	feed 100 to 150 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Phytophthora
Week 6 to 14	5.8 to 6.2	0.8 to 1.0	16° to 18°C (61° - 65° F)	feed 100 to 150 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size		

- PGR - Spray Daminozide at 2500 to 3750 ppm on finished plants early in crop schedule
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Aphids, Leaf-miners, Mites and Thrips
- Drench after transplant for Botrytis and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

FESTIVAL™

Gypsophila paniculata

For additional information and availability: FESTIVAL™

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
6 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Suggested	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 20° - 21° C (68° - 70° F)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible

- Gypsophila prefer humidity from tenting vs misting foliage and soil. Rooting hormone and dry soil conditions are more conducive to uniform rooting.
- A basal IBA application of 200 to 800 ppm is recommended. Overhead application will result in leaf curling and disease issues

Rooting	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.5	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.8 to 6.5	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.5	.90 to 1.0	Cool to 20° - 21° C (68° - 70° F)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.5	.90 to 1.0	20° - 21° C (68° - 70° F)	Feed 100 to 150 ppm				
Week 5	5.8 to 6.5	1.0 to 1.2	20° - 21° C (68° - 70° F)	Feed 100 to 150 ppm		Daminozide as needed		Pinching
Week 6	5.8 to 6.5	1.0 to 1.2	20° - 21° C (68° - 70° F)	Feed 100 ppm to 150 ppm		Daminozide as needed		

DANZIGER

FESTIVAL™

For additional information and availability: FESTIVAL™

Gypsophila paniculata

FINISHING TIPS

- Festival Gypsophila will require daylength longer than 12-13 hours to flower
- Allow soil to dry between irrigations
- Best when grown under high light with cool temperatures

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
9 to 12 wks	Average Day	Pinch – Suggested in week 5 in the liner	150 - 200 ppm N	Daminozide spray application @ 2500 – 3750 ppm Paclobutrazol 1 to 2 ppm drench
15 cm (1 gallon) 1 ppp	16° to 18°C (61° - 65° F)			
9 to 12 wks			Soil EC 1.2 - 1.5 pH 5.8 to 6.5	
20 cm (2 gallon) 1 ppp				

- PGR - Spray Daminozide at 2500 to 3750 ppm on finished plants early in crop schedule / Paclobutrazol drench application at 1 to 2 ppm for finishing if required
- Pinch leaving 4 to 6 nodes on stem
- Scout for Caterpillar, Mites and Thrips
- Drench after transplant for Botrytis and Pythium / Phytophthora
- Avoid oil-based insecticides such as Neem
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.8 to 6.5	1.0 to 1.2	16° to 18°C (61° - 65° F)	Feed 100 to 150 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Phytophhtora
Week 6 to 13	5.8 to 6.5	1.2 to 1.5	16° to 18°C (61° - 65° F)	Feed 150 to 200 ppm		Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

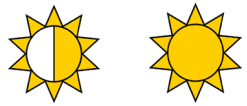
Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

ENDLESSLILY™

For additional information and availability: ENDLESSLILY™

Hemerocallis hybrid



- Transplant into finish pot upon receipt of product
- Keep night temperatures above 62° F (17° C). Lower temperatures will stall plant growth and development when establishing plants
- Allow plants to dry between irrigation once plant is established
- When planting, cover the crown with soil
- Finish under high light

FINISHING TIPS

Average Time (from bare root)		Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
10 to 12 wks				
(15 cm) 1 gallon (20 cm) 2 gallon	Medium-size division Large division with multiple eyes			

- Cool, wet weather may bring on Fusarium or Rhizoctonia. There are also a few leaf spot diseases which may develop under damp, low light conditions
- Establish with evenly moist soil, then allow soil to dry between irrigations when roots are developed
- Scout for Aphids, Spider Mites and Thrips on regular basis along with Leaf Minors.
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	6.0 to 6.5	1.0 to 1.2	ADT 65° F (18° C)	Feed 100 to 150 ppm		Grow under high light and cool temperatures	Spray fungicide after transplant	Establish roots under warmer temperatures
Week 6 to 12	6.0 to 6.5	1.0 to 1.5	ADT 65° F (18° C)	Feed 150 to 200 ppm				Finish under cooler temperatures

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrip	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

DANZIGER

PROPAGATION TIPS

KIRA™

Heuchera hybrida

For additional information and availability: Kira™

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Suggested	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 18° - 20° C (65° - 68° F)		Weeks 3-5 100 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking and avoid mist and can be watered manually.

- Heuchera prefer humidity from tenting vs misting foliage and soil. Rooting hormone and drier soil conditions are more conducive to uniform rooting.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.7 to 6.5	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist			Day of sticking	
Week 2	5.7 to 6.5	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.7 to 6.5	.80 to .90	Cool to 20° C (68° F)	Feed 100 ppm				
Week 4	5.7 to 6.5	.80 to .90	18° - 20° C (65° - 68° F)	Feed 100 ppm N				
Week 5	5.7 to 6.5	.80 to .90	18° - 20° C (65° - 68° F)	Feed 100 ppm N		Should not be required		

DANZIGER

KIRA™

Heuchera hybrida

For additional information and availability: Kira™

FINISHING TIPS

- Some shade will be required during periods of high light production
- Allow soil to dry between irrigations
- No pinch or PGR should be required

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 10 wks	Average Day	Pinch –not required	100 - 150 ppm N	
12 cm (Quart) 1 ppp	18° - 20° C (65° - 68° F)			
10 to 12 wks			Soil EC 0.8 - 1.0 pH 5.7 to 6.5	
15 cm (1 gallon) 1 ppp				

- A reduction in light will be needed for summer production
- Scout for Aphids, Mites and Whitefly
- Allow soil to dry between irrigations
- Drench after transplant for Botrytis and Pythium / Phytophthora
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.7 to 6.5	0.8 to 1.0	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm			Drench fungicide after transplant	Control of Pythium & Phytophhtora
Week 6 to 13	5.7 to 6.5	0.8 to 1.0	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm				

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

FIRST FLUSH™

Iberis sempervirens

For additional information and availability: FIRST FLUSH™

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 72°/74°F (22°/23°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° F (18°- 20° C)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible

- IBA application will hasten and even rooting.
  It is best to root under high humidity and reduce misting application.
  Allow soil to become moderately dry.
  Pinch if needed in week 4. Daminozide spray application at 2500 ppm if needed.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 / 6.0	0.80	72°/74°F (22°/23°C)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	72°/74°F (22°/23°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.90 to 1.0	Cool to 68°-70° (20° - 21° C)	Feed 100 ppm to 150 ppm				
Week 4	5.6 to 6.0	.90 to 1.0	68°-70° (20°- 21° C)	Feed 100 to 150 ppm				Pinch optional
Week 5	5.6 to 6.0	1.0 to 1.2	65° - 68° F (18°- 20° C)	Feed 100 to 150 ppm		Daminozide as needed		

DANZIGER

FIRST FLUSH™

Iberis sempervirens

For additional information and availability: FIRST FLUSH™

FINISHING TIPS

- Evenly moist soil conditions is best
- High quality plants are finished with high light and cool temperatures

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 9 wks	Average Day	Pinch Week 4 or day of transplant	100 - 150 ppm N	Daminozide spray application @ 2500 – 3750 ppm Paclobutrazol at 2 ppm drench
15 cm (1 gallon)	65°F (18°C)		Soil EC 1.0 - 1.2 pH 5.6 to 6.0	
9 to 10 wks				
20 cm (2 gallon)				

- PGR - Spray Daminozide at 2500to 3750 ppm on finished plants early in crop schedule / Paclobutrazol drench application at 2 ppm for finishing if required
- Maintain good airflow and allow plants to dry before nightfall. Do not keep consistently wet or root rot problems may develop. The first signal of damp conditions would be yellowing of foliage and weak growth
- Scout for Aphids and Thrips
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.6 to 6.0	1.0 to 1.2	65°F (18°C)	Feed 100 to 150 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Rhizoctonia
Week 7 to 13	5.6 to 6.0	1.0 to 1.2	65°F (18°C)	Feed 100 to 150 ppm		Paclobutrazol Drench at 2 ppm		Paclobutrazol 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

Lami™ Dark Purple

Lamium maculatum

For additional information and availability: Lami™ Dark Purple

Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 68° (18° - 20° C)		Weeks 3-5 100 to 125 ppm N	Day of sticking & Week 2

- **Irrigation specification -** Remove from mist as soon as possible. Scout specifically for Botrytis

- Daminozide at 2500 ppm week 3 and/or 5 as required
- Pinch if needed

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist			Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 65° - 68° (18° - 20° C)	Feed 100 ppm to 125 ppm N		Daminozide as needed		
Week 4	5.8 to 6.2	.90 to 1.0	65° - 68° (18° - 20° C)	Feed 100 to 125 ppm N				Pinch if needed
Week 5	5.8 to 6.2	.90 to 1.0	65° - 68° (18° - 20° C)	Feed 100 to 125 ppm N	None required	Daminozide as needed		

DANZIGER

Lami™ Dark Purple

For additional information and availability: Lami™ Dark Purple

Lamium maculatum

FINISHING TIPS

- Moderate moist soils will avoid marginal browning of leaves from drying
- Avoid bright direct light
- Cool temperature finishing for best quality

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
5 to 7 wks	Average Day	Pinch – optional	150 - 200 ppm N	To control stretch if finishing warm
(12 cm) 5" pot 1 ppp	68° to 72°F (20° to 22°C) early in crop			
6 to 8 wks	65° - 68° (18° - 20° C) finishing temperatures		Soil EC 0.9 to 1.0 pH 5.8 to 6.2	
(15 cm) 6 ½" 1 ppp				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.8 to 6.2	0.9 to 1.0	65° - 68° (18° - 20° C)	feed 150 to 200 ppm		Daminozide as needed	Spray fungicide after transplant	
Week 6 to 10	5.8 to 6.2	0.9 to 1.0	65° - 68° (18° - 20° C)	feed 150 to 200 ppm				

- PGR - Spray Daminozide at 2500 to 3750 ppm early on finished plants
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Aphid and Slugs/Snail on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

LAVEANNA™

Lavandula stoechas

For additional information and availability: LAVEANNA™

Stick on priority – Number 1 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 70°-72° F (21° - 22°C)	Recommended	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 65° - 70° (18° - 21° C)		Weeks 3-5 100 ppm N	Spray fungicide to control Botrytis and bacteria Week 2

- Irrigation specification – Lavender responds best if tented to increase humidity around cuttings versus misting. Do not over-saturate foliage or soil. Remove tenting once roots emerge. Spray adjuvant after sticking. Proper air-movement will help prevent foliage issues.
- Application of IBA can hasten rooting. Daminozide spray application @1500 to 2000 ppm if required. Spray broad spectrum fungicide to prevent foliage diseases.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist			Day of sticking	Feeding through Mist
Week 2	5.6 to 6.0	.80 to .90	70°-72° F (21° - 22°C)	50 ppm N in mist			Second fungicide app	
Week 3	5.6 to 6.0	.90 to 1.0	Cool to 65° - 70° (18° - 21° C)	Feed 100 ppm				
Week 4	5.6 to 6.0	1.0 to 1.2	65° - 70° (18° - 21° C)	Feed 100 ppm				
Week 5	5.6 to 6.0	0.80	65° - 70° (18° - 21° C)	Feed 100 ppm				

DANZIGER

LAVEANNA™

Lavandula stoechas

For additional information and availability: LAVEANNA™

FINISHING TIPS

- Maintain soil on drier side
- Cool temperature finishing for best quality

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
7 to 8 wks	Average Day	Pinch optional No lighting necessary	100 - 150 ppm N	In liner and finish stages
(12 cm) 5" pot	62° - 68° (16° - 20° C)			
8 to 9 wks	1 ppp		Soil EC 1.0 - 1.2 pH 5.8 to 6.2	
(15 cm) 6 ½"				
8 to 9 wks				
(20 cm) 8"	3 plants per container			

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.8 to 6.2	1.0 to 1.2	62° - 68° (16° - 20° C)	Feed 100 to 150 ppm		Daminozide as needed early in crop	Drench fungicide after transplant	
Week 8 to 10	5.8 to 6.2	1.0 to 1.2	62° - 68° (16° - 20° C)	Feed 100 to 150 ppm	Not Required			Paclobutrazol @ 2 ppm drench when buds showing if growing in warm conditions

- Consistent soil moisture levels are best – allow soil to dry slightly between irrigations
- Scout for Aphids and Spider Mites
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

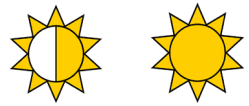
DANZIGER

PROPAGATION TIPS

LAYLA™

Lavandula angustifolia

For additional information and availability: LAYLA™



Stick on priority – Number 1 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Suggested	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 18° - 20° C (65° - 68° F)		Weeks 3-5 100 to 125 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible. It is best to root under high humidity and reduce misting application. Tenting is a great alternative to misting, allowing for drier foliage during propagation. Possibly utilize callused cuttings to shorten propagation schedule.

- IBA application will hasten and even off rooting.
- Pinch is optional if needed in week 4.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.80 to .90	Cool to 20° - 21°C (68°-70° F)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	.80 to .90	20° - 21°C (68°-70° F)	Feed 100 to 150 ppm				
Week 5	5.8 to 6.2	.80 to .90	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm				Pinch optional

DANZIGER

FINISHING TIPS

LAYLA™

Lavandula angustifolia

For additional information and availability: LAYLA™

- Maintain evenly moist soil conditions
- Facultative long day plant / long days will hasten flower response
- High light levels and cool temperatures are best for finishing

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
10 to 11 wks	Average Day	Pinch – optional in the liner	100 - 150 ppm N	None required
10 cm (Quart)	18°C /65° F			
11 to 12 wks	1 plant per pot		Soil EC 0.8 - 1.0 pH 5.8 to 6.2	
15 cm (1 gallon)				

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.8 to 6.2	.08 to 1.0	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm			Drench fungicide after transplant	Control of Pythium & Phytophthora
Week 6 to 13	5.8 to 6.2	0.8 to 1.0	16° - 18° C (61° - 65° F)	Feed 100 to 150 ppm				Spray fungicide application to control Botrytis during finishing

- PGR – None required
  When growing in warmer periods, it might be required –
  Spray Daminozide 2500 ppm .
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Aphids, Leaf-miners, Mites and Thrips
- Drench after transplant for Botrytis and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

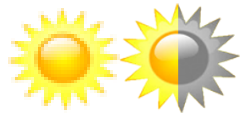
DANZIGER

PROPAGATION TIPS

For additional information and availability: LUCILLE™

LUCILLE™

Leucanthemum x superbum



Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)		Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 18° - 20° C (65° - 68° F)		Weeks 3-5 100 to 125 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.80 to .90	Cool to 20 / 21 C	Feed 100 ppm				
Week 4	5.8 to 6.2	.80 to 1.2	20 to 21 C	Feed 100 ppm				
Week 5	5.8 to 6.2	.80 to 1.2	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm				Pinch is not required

DANZIGER

FINISHING TIPS

For additional information and availability: LUCILLE™

LUCILLE™

Leucanthemum x superbum

- Maintain soil evenly moisture
- Facultative long day flowering response
- High light levels best for finishing

LUCILLE™ Chic – most compact & earliest to flower

LUCILLE™ White – medium vigor & medium response to flower

LUCILLE™ Grace – largest vigor & later to flower

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
9 to 10 wks	Average Day	Pinch - None required	150 to 200 ppm	Spray Uniconazole 5 to 7 ppm early in crop Paclobutrazol drench application at 1-2 ppm for finishing
15 cm (1 gallon)	18° - 20° C (65° - 68° F)			
10 to 11 wks	1 plant per pot		Soil EC 1.0 - 1.5 pH 5.8 to 6.2	
20 cm (2 gallon)				

- PGR - Spray Uniconazole 5 to 7 ppm early in crop
  Paclobutrazol drench application at 1-2 ppm for finishing
- Spray broad spectrum fungicide after transplant
- Scout for Thrips on a regular basis
- **Do not spray Abamectin (Avid)** on Leucanthemum - test spray any pesticide
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplantto Week 6	5.8 to 6.2	1.0 to 1.2	18° - 20° C (65° - 68° F)	Feed 150 to 200 ppm		Spray Uniconazole 5 to 7 ppm	Drench fungicide after transplant	
Week 6 to 12	5.8 to 6.2	1.0 to 1.5	18° - 20° C (65° - 68° F)	Feed 150 to 200 ppm		Paclobutrazol drench application at 1-2 ppm for finishing	Control of Pythium & Phytophthora	

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

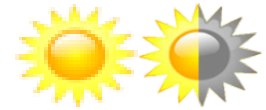
DANZIGER

PROPAGATION TIPS

American Gold Rush™ PP28498 CPBRAF

Rudbeckia hybrid

For additional information and availability: American Gold Rush™



Stick on priority – Number 2 out of 4 categories

Extend the day or night interruption lighting to 12 hours to continue plant growth during short day conditions

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)		Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 20° - 21° C (68° - 70° F)		Weeks 3-5 100-150 ppm N	Day of sticking & Week 2

- Spray **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible

- Spray adjuvant at sticking
- American Gold Rush™ is long day flowering with the natural flowering response being late June / early July (obligatory long day plant).

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 to 6.0	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Required 12 hr daylength		Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 20° - 21° C (68° - 70° F)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	.90 to 1.0	20° - 21° C (68° - 70° F)	Feed 100 to 150 ppm				
Week 5	5.8 to 6.2	.90 to 1.0	20° - 21° C (68° - 70° F)	Feed 100 to 150 ppm		Daminozide if needed		

DANZIGER

FINISHING TIPS

American Gold Rush™ PP28498 CPBRAF

Rudbeckia hybrid

For additional information and availability: American Gold Rush™

- No pinch should be needed
- Naturally compact plant habit
- Spray for bacterial leaf blights

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 10 wks	Average Day	Pinch not required/ extend daylength to 12 hours for continued growth	100 - 150 ppm N	Daminozide spray application @ 2500 – 3750 ppm
15 cm (1 gallon) 1 ppp	68° to 70° F (20° to 21°C)			
8 to 10 wks	3 plants per container		Soil EC 1.0 – 1.5 pH 5.8 to 6.2	
24 cm (10 inch)			100 - 200 ppm N	

- Long day flowering response natural flowering time is weeks 26 - 28
- PGR - Spray Daminozide at 2500 to 3750ppm on finished plants if needed
- Maintain good airflow and allow plants to dry before nightfall/spray for bacterial leaf blights
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.8 to 6.2	0.9 to 1.0	68° to 70° F (20° to 21°C)	feed 100 to 150 ppm			Drench fungicide after transplant	Control of Pythium & Phytophthora
Week 6 to 13	5.8 to 6.2	1.0 to 1.5	68° to 70° F (20° to 21°C)	feed 150 to 200 ppm		Daminozide as needed	Spray fungicide in finishing protocols	Control of Bacterial Leaf Blights

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

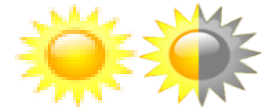
DANZIGER

PROPAGATION TIPS

Early Bird Gold ™

Rudbeckia hybrid

For additional information and availability: Early Bird Gold ™



Stick on priority – Number 2 out of 4 categories

Extended daylength is not required. However, long days result in quicker flowering and better branching

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 20° - 21° C (68° - 70° F)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- Spray **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible

- IBA spray application is beneficial to hasten rooting, but is not required.
- Early Bird™ is a facultative long day flowering plant. This means long day will result in quicker flowering, but the plants will finish under short days (facultative long day plant).

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	optional 12 hr daylength		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 20° - 21° C (68° - 70° F)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	.90 to 1.0	20° - 21° C (68° - 70° F)	Feed 100 to 150 ppm				Pinching should be done
Week 5	5.8 to 6.2	.90 to 1.0	20° - 21° C (68° - 70° F)	Feed 100 to 150 ppm		Daminozide if needed		

DANZIGER

FINISHING TIPS

Early Bird Gold ™

Rudbeckia hybrid

For additional information and availability: Early Bird Gold ™

- Long days are not required for flowering
- Spray for bacterial leaf blights

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 10 wks	Average Day	Pinch is suggested 4 weeks after sticking.	100 - 150 ppm N	Daminozide spray application @ 2500 – 3750 ppm if needed
15 cm (1 gallon) 1 ppp	68° to 70° F (20° to 21°C)			
			Soil EC 1.0 – 1.5 pH 5.8 to 6.2	
3 plants per pot suggested for size greater than 15cm (1 gallon)		Optional to extend daylength to 12 hours for faster flowering and increased branching	150-200 ppm N	

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.8 to 6.2	0.8 to 1.0	68° to 70° F (20° to 21°C)	feed 100 to 150 ppm			Drench fungicide after transplant	Control of Pythium & Phytophthora
Week 6 to 13	5.8 to 6.2	1.0 to 1.5	68° to 70° F (20° to 21°C)	feed 150 to 200 ppm		Daminozide as needed	Spray fungicide in finishing protocols	Control of Bacterial Leaf Blights

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

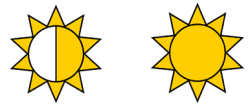
- Under short day conditions and average daily temperature of 68F (20C) plants finish approximately 16 weeks after stick. Daylength over 12 hours results in flowering 2 weeks faster than short days.
- PGR - Spray Daminozide at 2500 to 3750 ppm on finished plants early in crop schedule if needed
- Maintain good airflow and allow plants to dry before nightfall/spray for bacterial leaf blights
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

DANZIGER

PROPAGATION TIPS

For additional information and availability: APEX™

APEX™
Salvia nemorosa



Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 22° - 23°C (72°-74° F)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 20° - 21° C (68° - 70° F)		Weeks 3-4 100 to 125 ppm N	Day of sticking & Week 2

- Irrigation specification – Spray with adjuvant the day of sticking/Remove from mist as soon as possible

- Salvia nemorosa APEX™ are day neutral. IBA application will hasten and even rooting response. Soft pinch will increase branching but is not necessary.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	22° - 23°C (72°-74° F)	50 ppm N in mist			Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	22° - 23°C (72°-74° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 20° - 21° C (68° - 70° F)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	20° - 21° C (68° - 70° F)	feed 100 to 150 ppm	None required	Daminozide as needed		Spray at 2500 ppm Daminozide

DANZIGER

FINISHING TIPS

APEX™
Salvia nemorosa

- Cool finishing temperatures will increase quality and longevity of flowers
- Apex™ will rebloom throughout the summer without cutting back plants

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 9 wks	Average Day	Pinch – not needed	150 - 200 ppm N	Spray at 2500 to 3750 ppm Daminozide
10 cm (quart) 1 ppp	16° to 18°C (61°-65° F)			
9 to 11			Soil EC 1.2 – 1.5 pH 5.8 to 6.3	
15 cm (1 gallon) 1 ppp				

- Cool temperatures during finishing will develop high-quality plants
- Maintain good airflow and allow plants to dry before nightfall.
- Scout for Aphids, Spider Mites and Whiteflies
- Drench after transplant for Botrytis and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 5	5.8 to 6.3	1.0 to 1.2	16° to 18°C (61°-65° F)	Feed 100 to 150 ppm		Daminozide if needed	Drench fungicide after transplant	Control of Pythium & Botrytis
Week 6 to 12	5.8 to 6.3	1.2 to 1.5	16° to 18°C (61°-65° F)	Feed 150 to 200 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size		

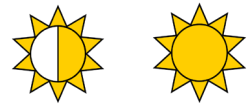
Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

Dark Matter™ & Pink Nebula™

Salvia nemorosa

For additional information and availability: Dark Matter™ & Pink Nebula™



Stick on priority – umber 3 out of 4 categories

PROPAGATION TIPS

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 22° - 23°C (72°-74° F)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 20° - 21° C (68° - 70° F)		Weeks 3-4 100 to 125 ppm N	Day of sticking & Week 2

Irrigation specification – Spray with adjuvant the day of sticking/Remove from mist as soon as possible.

Salvia nemorosa Dark Matter™ & Pink Nebula™ are day neutral. K-IBA spray application will hasten and even rooting response. Pinch in liner stage or at transplant to increase branching

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	22° - 23°C (72°-74° F)	50 ppm N in mist	None required		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	22° - 23°C (72°-74° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 20° - 21° C (68° - 70° F)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	1.0 to 1.2	20° - 21° C (68° - 70° F)	Feed 100 to 150 ppm		Daminozide as needed		Spray at 1500 to 2500 ppm Daminozide

DANZIGER

FINISHING TIPS

Dark Matter™ & Pink Nebula™

Salvia nemorosa

For additional information and availability: Dark Matter™ & Pink Nebula™

- Cool finishing temperatures will increase quality and longevity of flowers
- Dark Matter™ & Pink Nebula™ may require additional PGR applications for quality finishing/it is a larger growing variety.

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 9 wks	Average Day	Pinch – suggested	150 - 200 ppm N	Daminozide spray application @ 2500 – 3750 ppm Paclobutrazol 1 to 2 ppm drench
10 cm (quart) 1 ppp	16° to 18°C (61°-65° F)			
9 to 11			Soil EC 1.2 – 1.5 pH 5.8 to 6.3	
15 cm (1 gallon) 1 ppp				

Finishing	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 5	5.8 to 6.3	1.0 to 1.2	16° to 18°C (61°-65° F)	feed 100 to 150 ppm			Drench fungicide after transplant	Control of Pythium & Botrytis
Week 6 to 12	5.8 to 6.3	1.2 to 1.5	16° to 18°C (61°-65° F)	feed 150 to 200 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size		

- Cool temperatures during finishing will develop high quality plants
- Maintain good airflow and allow plants to dry before nightfall.
- Scout for Aphids, Spider Mites and Whiteflies
- Drench after transplant for Botrytis and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

DANZIGER

PROPAGATION TIPS

SALLYROSA™ April Night

Salvia nemorosa

For additional information and availability: Sallyrosa™ April Night

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
4 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Optional	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 4 20° - 21° C (68° - 70° F)		Weeks 3-4 100 to 125 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible

- Salvia nemorosa Sallyrosa™ is day neutral. K-IBA spray application will hasten and even rooting response. Pinch in liner stage or at transplant to increase branching.

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 / 6.2	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist			Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 20° - 21° C (68° - 70° F)	Feed 100 ppm to 150 ppm		Daminozide as needed		
Week 4	5.8 to 6.2	1.0 to 1.2	20° - 21° C (68°- 70° F)	Feed 100 to 150 ppm	None required	Daminozide as needed		Pinch - Recommended
Week 5	5.8 / 6.2	0.80	20°- 21° C (68°- 70° F)	50 ppm N in mist				

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FINISHING TIPS

SALLYROSA™ April Night

Salvia nemorosa

For additional information and availability: Sallyrosa™ April Night

- Cool finishing temperatures will increase quality and longevity of flowers

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 9 wks	Average Day	Pinch – Optional	150 - 200 ppm N	Daminozide spray application @ 2000 – 3750 ppm Paclobutrazol 1 to 2 ppm drench
10 cm (quart) 1 ppp	(16° to 18°C)			
9 to 11			Soil EC 1.2 – 1.5 pH 5.8 to 6.3	
15 cm (1 gallon) 1 ppp				

- PGR - Spray Uniconazole 5 to 7 ppm early in crop schedule Paclobutrazol drench application at 0.5 ppm for finishing
- Spray broad spectrum fungicide after transplant
- Scout for Thrips on a regular basis
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 5	5.8 to 6.3	1.0 to 1.2	16° to 18°C (61°-65° F)	Feed 100 to 150 ppm			Drench fungicide after transplant	Control of Pythium & Botrytis
Week 6 to 12	5.8 to 6.3	1.2 to 1.5	16° to 18°C (61°-65° F)	Feed 150 to 200 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size		

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

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PROPAGATION TIPS

Ronica™

Veronica longifolia

For additional information and availability: RONICA™

Stick on priority – Number 3 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 20° - 21° C (68° - 70° F)		Weeks 3-5 100 to 150 ppm N	Day of sticking & Week 2

- **Irrigation specification –** Spray with adjuvant the day of sticking/Remove from mist as soon as possible

- IBA application will hasten and even rooting response. Veronica Ronica™ are long day flowering with the natural flowering response being June (facultative long day plant).

Rooting	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8 to 6.2	0.80	21° - 22°C (70°-72° F)	50 ppm N in mist	Not required		Day of sticking	
Week 2	5.8 to 6.2	.80 to .90	21° - 22°C (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 20° - 21° C (68° - 70° F)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	.90 to 1.0	20° - 21° C (68° - 70° F)	Feed 100 to 150 ppm		Daminozide as needed		Pinch
Week 5	5.8 to 6.2	1.0 to 1.2	20° - 21° C (68° - 70° F)	Feed 100 to 150 ppm		Daminozide as needed		

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FINISHING TIPS

Ronica™

Veronica longifolia

For additional information and availability: RONICA™

- Low fertility will reduce plant size and hasten flowering
- Allow soil to dry between irrigations

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
9 to 10 wks	Average Day	Pinch – Suggested in week4 in the liner	100 - 150 ppm N	Daminozide spray application @ 2500 – 3750 ppm Paclobutrazol 1 to 2 ppm drench
15 cm (1 gallon) 1 ppp	20° - 21° C (68° - 70° F)			
11 to 12 wks			Soil EC 0.8 - 1.0 pH 5.8 to 6.2	
20 cm (2 gallon) 1 ppp				

- PGR - Spray Daminozide at 2500 to 3750 ppm on finished plants early in crop schedule / Paclobutrazol drench application at 1 to 2 ppm for finishing if required
- Maintain good airflow and allow plants to dry before nightfall/spray against Powdery Mildew
- Scout for Aphids, Mites and Whiteflies
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora
- PGR applications are based on the label instructions of the commercial product used
- EC guidelines are based on the 2:1 water extraction method

Finishing	pH	EC	Temp.	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.8 to 6.2	0.8 to 1.0	20° - 21° C (68° - 70° F)	Feed 100 to 150 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Rhizoctonia
Week 6 to 13	5.8 to 6.2	0.8 to 1.0	20° - 21° C (68° - 70° F)	Feed 100 to 150 ppm		Paclobutrazol Drench at 1 to 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

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