DANZIGER

Technical Product Pages

Annuals | Perennials | Foliage



ANNUALS

Propagation & Finishing

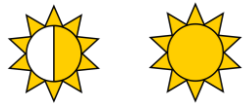
DANZIGER

PROPAGATION TIPS

AGUILERA™

Ageratum houstonianum

For additional information and availability: AGUILERA™



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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AGUILERA™

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				

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 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 Thrip on regular basis

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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 1200 to 1500 ppm
- Pinch is 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	5.8/6.2	.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		

DANZIGER

ALONIA™

For additional information and availability: ALONIA™

Angelonia Angustifolia

FINISHING TIPS

- Pinch week 4 in liner or at transplant
- 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 – Yes 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 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				

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		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

- 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 Thrip on regular basis

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ANGELIC™

Argyranthemum frutescens

For additional information and availability: ANGELIC™

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 N	Day of sticking & Week 2

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		

- **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 750 ppm week 3.

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ANGELIC™

For additional information and availability: ANGELIC™

Argyranthemum frutescens

FINISHING TIPS

- 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	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				

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	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

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- PGR - Spray Daminozide at 750 to 2000 ppm on young finished plants Paclobutrazol drench application at 1 ppm for finishing if required
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Thrip on regular basis

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PROPAGATION TIPS

LOLLIES™

For additional information and availability: LOLLIES™

Argyranthemum frutescens

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		

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LOLLIES™

For additional information and availability: LOLLIES™

Argyranthemum frutescens

FINISHING TIPS

- 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

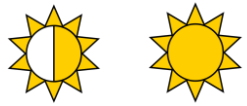
- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- PGR - Spray Daminozide at 750 to 2000 ppm on young finished plants Paclobutrazol drench application at 1 ppm for finishing if required
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Thrip on regular basis

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SCOPIA® GULLIVER™

Bacopa / Sutera

For additional information and availability: SCOPIA® GULLIVER™



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 should be 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		Day of sticking	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		Daminozide if needed		

PROPAGATION TIPS

DANZIGER

FINISHING TIPS

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

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
(12 cm) 5" pot 1 ppp	65°-68° F (18°-20° C)			
8 to 9 wks			Soil EC 0.8 - 1.0 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	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 regular basis

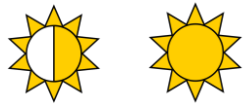
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PROPAGATION TIPS

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

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		

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.

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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
(12 cm) 5” pot 1 ppp	65°-68° F (18°-20° C)			
8 to 9 wks	65°-68° F (18°-20° C)		Soil EC 0.8 - 1.0 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 regular basis

DANZIGER

PROPAGATION TIPS

DOUBLET™

Begonia semperflorens

For additional information and availability: DOUBLET™

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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FINISHING TIPS

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 - 150 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

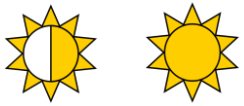
- Plant growth is based on moisture levels, temperatures and feed rates. Lower temperatures, lower soil moisture levels and lower feed rates will slow growth and finish a more compact plant.
- Drench fungicide to prevent Rhizoctonia and other water mold diseased - Maintain good airflow and allow plants to dry before nightfall
- Scout for Whitefly, Thrips and Mealybug

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 as needed		
Week 4	5.8/6.2	1.0 to 1.2	65°/68°F (18°/20°C)	Feed 100 ppm to 150 ppm		Daminozide as needed		

- **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 1500 ppm week 3.
- Pinch week 4 in the liner.

DANZIGER

FINISHING TIPS

TIMELESS™ COLLECTION

For additional information and availability: TIMELESS™

Bidens ferulifolia

- 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 – Recommended 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				

- PGR - Spray Daminozide at 1500 to 2500 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 & Thrip on regular basis

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 1500 to 2500 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 85% of desired size

DANZIGER

FRESCO™ & BRASCO

Brachyscome angustifolia

For additional information and availability: FRESCO™ BRASCO™

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 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

Brachyscome angustifolia

For additional information and availability: FRESCO™ BRASCO™

FINISHING TIPS

- 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

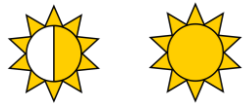
DANZIGER

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 K-IBA can hasten rooting. Daminozide at 1200 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		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 2,000 to 2,500 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

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	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 K-IBA can hasten rooting.
- Light in propagation (extension to 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 more-over under low light conditions.
- Daminozide at 1200 ppm day of sticking.

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 1200 ppm Daminozide	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	Optional	Daminozide as needed		

DANZIGER

COLIBRI™

Calibrachoa hybrida

For additional information and availability: COLIBRI™

FINISHING TIPS

- 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	Pinch - Optional No lighting necessary	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				

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- Scout for Aphids and Thrip on regular basis

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	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 Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

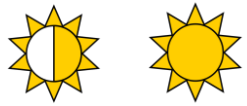
DANZIGER

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 K-IBA can hasten rooting.
- Light in propagation (extension to 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 more-over under low light conditions.
- Daminozide at 1200 to 1500 ppm day of sticking.

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		
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

EYECONIC™

Calibrachoa hybrida

For additional information and availability: EYECONIC™

FINISHING TIPS

- 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	No pinch necessary No lighting necessary	100 - 150 ppm N Soil EC 1.0 - 1.2 pH 5.5 to 6.0	In liner and finish stages
(12 cm) 5” pot 1 ppp	65° - 68° (18° - 20° C)			
8 to 9 wks				
(15 cm) 6 ½” 1 ppp				
8 to 9 wks				
(20 cm) 8” 3 ppp				
8 to 9 wks				
(25 cm) 10” 3 ppp				

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- Scout for Aphids and Thrip on regular basis

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	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

LIA™

For additional information and availability: LIA™

Calibrachoa hybrida

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 K-IBA can hasten rooting.
- Light in propagation (extension to 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 more-over under low light conditions.
- Daminozide at 1200 to 1500 ppm day of sticking. Daminozide plus Uniconazole-P tank mix week 3 to control stretch if needed.

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	Optional	Daminozide as needed	Week 5	

DANZIGER

FINISHING TIPS

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	No pinch necessary	100 - 150 ppm N	In liner and finish stages
(12 cm) 5” pot 1 ppp	65° to 68° F (18° to 20° C)			
8 to 9 wks		No lighting necessary	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				

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	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
- Scout for Aphids and Thrips on regular basis

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 K-IBA can hasten rooting.
- Light in propagation (extension to 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 more-over under low light conditions.
- Daminozide at 1200 to 1500 ppm day of sticking.

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		
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	Optional	Daminozide as needed		

DANZIGER

OMBRE™

Calibrachoa hybrida

For additional information and availability: OMBRE™

FINISHING TIPS

- 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	Pinch - Optional No lighting necessary	100 - 150 ppm N Soil EC 1.0 - 1.2 pH 5.6 to 6.0	In liner and finish stages
(12 cm) 5” pot 1 ppp	65° - 68° (18° - 20° C)			
8 to 9 wks				
(15 cm) 6 ½” 1 ppp				
8 to 9 wks				
(20 cm) 8” 3 ppp	3 plants per container			
8 to 9 wks				
(25 cm) 10” 3 ppp	3 plants per container			

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	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
- Scout for Aphids and Thrips on regular basis

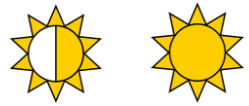
DANZIGER

PROPAGATION TIPS

CLIO™

Cleome hybrida

For additional information and availability: CLIO™



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 1500 to 2500 ppm week 4. Pinch at transplant.

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 recommended

DANZIGER

CLIO™

For additional information and availability: CLIO™

Cleome hybrida

FINISHING TIPS

- 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	1.2 to 1.5	61° to 65° F (16° to 18°C)	feed 150 to 200 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size		

- PGR - Spray Daminozide at 2000 to 3750 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

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 K-IBA- This will enable more uniform rooting.
- Daminozide at 1200 to 1500 ppm 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	Additional lighting will hasten flowering
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

FINISHING TIPS

- Pinch week 3 in liner or at transplant (according 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		Paclobutrazol 1 to 2 ppm drench 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 2000 to 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 regular basis

DANZIGER

CUBANO™

Cuphea

For additional information and availability: CUBANO™

PROPAGATION TIPS

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)		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 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		
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		

- **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

DANZIGER

FINISHING TIPS

CUBANO™

Cuphea

For additional information and availability: CUBANO™

- Pinch is required, at transplant is preferred
- 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 1500 to 2500 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
- Calcium sprays increase stem strength and reduce botrytis
- Not susceptible to Oedema

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 1500 to 2500 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		Paclobutrazol 1 to 2 ppm drench to finish high quality plants

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

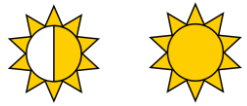
DANZIGER

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 of18 hours day started day of sticking at least 10 foot candles (2 uMol), This must be done the full life of the liner/plug. 2 week 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 1500 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			

DANZIGER

CHÉRIE™

Dahlia variabilis

For additional information and availability: CHÉRIE™

FINISHING TIPS

- 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			

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

- 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 Minors

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

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 1500 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			

- **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 , This must be done the full life of the liner/plug. 2 week longer for large pots 10 inch or larger.

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

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 1500 to 2000 ppm
- Pinch is recommended week 4 or at transplant

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™

Diascia barberae

For additional information and availability: TRINITY™

FINISHING TIPS

- Pinch week 4 in liner or at transplant
- 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 no apply
- Spray broad spectrum fungicide after transplant
- Scout for Aphids and Thrip on regular basis

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

DIWALI SHOWER™

Euphorbia hypericifolia

For additional information and availability: DIWALI™

PROPAGATION TIPS

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 hormone as dip or K-IBA spray 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		

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	150 - 200 ppm N	
(12 cm) 5" pot 1 ppp	60° - 68° (16° - 20° C)			
7 to 8 wks		No lighting necessary	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			

- Consistent soil moisture levels are best – allow soil to dry slightly between irrigations
- Scout for Aphids, Thrips and Whiteflies

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	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

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

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

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		

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			

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
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 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

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

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	.90 to 1.0	Cool to 20° - 21°C (68°-70° F)	Feed 100 ppm N				
Week 4	5.6 to 6.2	.90 to 1.0	18° - 20° C (65° - 68° F)	Feed 100 ppm N				
Week 5	5.6 to 6.2	.90 to 1.0	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 at transplant
- 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 required/ possible a second pinch if grown in larger containers	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				

- 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 / Phytophthora

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			Drench fungicide after transplant	Control of Pythium & Phytophthora
Week 6 to 13	5.8 to 6.2	0.8 to 1.2	16° - 18° C (61° - 65° 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

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 K-IBA can hasten rooting.
- Daminozide at 1200 ppm week 4 or just before transplant might be required under long days and for the vigorous varieties like SOL SEEKER™ Bronze Burst and 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 / 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 65° F (18° 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"	3 plants per container			

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	5.7 to 6.3	1.0 to 1.2	65° F (18° C)	feed 100 to 150 ppm	See above	Daminozide as needed	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

- 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 regular basis
- Paclobutrazol soil drench is effective if needed at 1 to 2ppm for finishing

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

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
- 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 Powdery Mildew
- Scout for Aphids, Leaf Miners and Thrips on regular basis

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
Week 5 Transplant	5.8 to 6.2	0.8 to 1.0	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 1.0	65° to 68° F (18° to 20° C)	feed 100 to 125 ppm				

DANZIGER

PROPAGATION TIPS

SOL LUNA™

Impatiens hybrida

For additional information and availability: SOL LUNA™

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

- 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

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

DANZIGER

SOL LUNA™

Impatiens hybrida

For additional information and availability: SOL LUNA™

FINISHING TIPS

- 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
7 to 8 wks	Average Day	Pinch –No Daylength Neutral	100 - 125 ppm N	If required, Uniconazole at 5 to 7 ppm spray application early in crop- Paclobutrazol at 0.5 ppm drench within 3 weeks of finishing
(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		Uniconazole spray	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		Paclobutrazol Drench at 0.5 ppm		Allow plants to reach 85% of required size before PGR application

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

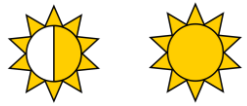
- PGR - Spray Uniconazole 5 to 7 ppm or 1250 Daminozide early in crop Paclobutrazol drench application at 0.5 ppm for finishing
- Spray broad spectrum fungicide after transplant
- Scout for Thrips and Mites on regular basis

DANZIGER

SOL LUNA PRIME™

Impatiens hybrida

For additional information and availability: SOL LUNA PRIME™



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

- 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

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	300 ppm Ethetphon Day After Stick
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

DANZIGER

SOL LUNA PRIME™

Impatiens hybrida

For additional information and availability: SOL LUNA PRIME™

FINISHING TIPS

- Maintain an EC level 0.8 to 1.2 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
5 to 7 wks	Average Day	Pinch –No Daylength Neutral	100 - 150 ppm N	If required, Uniconazole at 5 to 7 ppm spray application early in crop- Paclobutrazol at 0.5 ppm drench within 3 weeks of finishing
(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”				

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		Uniconazole spray	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		Paclobutrazol Drench at 0.5 ppm		Allow plants to reach 85% of required size before PGR application

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

- PGR - Spray Uniconazole 5 to 7 ppm, or Daminozide 1250 to 2500ppm early in crop
- Paclobutrazol drench application at 0.5 ppm for finishing
- Spray broad spectrum fungicide after transplant
- Scout for Thrips, Broad Mites, and Spider Mites on regular basis

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
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

- Spray adjuvant at sticking

- - Optional to 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 / 20 C

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

DANZIGER

SUN HARMONY™

Impatiens hybrida

For additional information and availability: SUN HARMONY™

FINISHING TIPS

- 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
7 to 8 wks	Average Day	Pinch –No Daylength Neutral	100 - 150 ppm N	If required, Uniconazole at 5 to 7 ppm spray application early in crop- Paclobutrazol at 0.5 ppm drench within 3 weeks of finishing
(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 - Spray Uniconazole 5 to 7 ppm early in crop
- Paclobutrazol drench application at 0.5 ppm for finishing
- Spray broad spectrum fungicide after transplant
- Scout for Aphids and Thrips on regular basis

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
Week 5 Transplant	5.8 to 6.2	0.8 to 1.0	68°-70° F (20°-21° C)	feed 100 to 150 ppm		Uniconazole spray	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		Paclobutrazol Drench at 0.5 ppm		Allow plants to reach 85% of required size before PGR application

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

– 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

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

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

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	If required, Uniconazole at 5 to 7 ppm spray application early in crop- Paclobutrazol at 0.5 ppm drench within 3 weeks of finishing
(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 - Spray Uniconazole 5 to 7 ppm early in crop
- Paclobutrazol drench application at 0.5 ppm for finishing
- Spray broad spectrum fungicide after transplant
- Scout for Aphids and Thrips on regular basis

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
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		Uniconazole spray	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		Paclobutrazol Drench at 0.5 ppm		Allow plants to reach 85% of required size before PGR application

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

- 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)

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

DANZIGER

FINISHING TIPS

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

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	If required, Uniconazole at 5 to 7 ppm spray application early in crop- Paclobutrazol at 0.5 ppm drench within 3 weeks of finishing
(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		Uniconazole spray	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		Paclobutrazol Drench at 0.5 ppm		Allow plants to reach 85% of required size before PGR application

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

- PGR - Spray Uniconazole 5 to 7 ppm early in crop Paclobutrazol drench application at 0.5 ppm for finishing
- Spray broad spectrum fungicide after transplant
- Scout for Thrip on regular basis

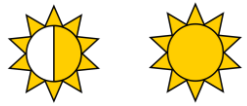
DANZIGER

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 Daminaozide in propagation @ 1500 -2000 ppm if grown warm and under low light.

Rooting	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 1	5.8/6.5	0.80	70°-72° F (21° - 22°C)	50 ppm N in mist		Daminozide day after sticking	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™

Jamesbrittenia

For additional information and availability: STARDOM™

FINISHING TIPS

- Maintain consistent soil moisture –plants should not dry to severe 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 – Recommended Not Required – Day Neutral	100 - 200 ppm N	Daminozide at 1500 to 2500 ppm on more vigorous varieties Paclobutrazol Drench at 1 - 2 ppm to finish
(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 1500 to 2500 ppm on young finished plants - Paclobutrazol drench application at 1 to 2 ppm for finishing if required for the more vigorous varieties
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Aphids & Thrips on regular basis

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	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	Paclobutrazol Drench at 1 - 2 ppm		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

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 2000 to 2500 ppm
- 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	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

FINISHING TIPS

- 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

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch –Yes Night interruption or extended day- Optional	150 - 200 ppm N	In liner and finish stages
(12 cm) 5" pot 1 ppp	73° - 75° (23° - 24° C)			
8 to 9 wks	73° - 75° (23° - 24° 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	73° to 75° F (23° to 24° 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	73° to 75° F (23° to 24° 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
	Whiteflies	PYMETROZINE, PYRIPROXYFEN, PYRIFLUQUINAZON
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- 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 Leaf Miners, Thrips and Whiteflies on regular basis

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 2000 to 2500 ppm
- 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	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			

DANZIGER

GEM™ Compact

Lantana camara

For additional information and availability: GEM™ Compact

FINISHING TIPS

- 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
- Gem Compact may be too compact for cooler growing regions

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
6 to 7 wks	Average Day	Pinch –Yes Night interruption or extended day- Optional	150 - 200 ppm N	During finishing stage
(12 cm) 5” pot 1 ppp	73° - 75° (23° - 24° C)			
8 to 9 wks	73° - 75° (23° - 24° 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	73° to 75° F (23° to 24° C)	feed 100 to 150 ppm		B-9 as needed	Spray fungicide after transplant	
Week 6 to 12	5.8 to 6.2	1.0 to 1.2	73° to 75° F (23° to 24° 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
	Whiteflies	PYMETROZINE, PYRIPROXYFEN, PYRIFLUQUINAZON
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- 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 Leaf Miners, Thrips and Whiteflies on regular basis

DANZIGER

LAVEANNA™

Lavendula stoechas

For additional information and availability: LAVEANNA™

PROPAGATION TIPS

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)	Recom mended	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™

Lavendula 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

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

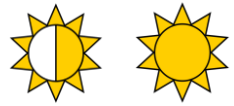
DANZIGER

PROPAGATION TIPS

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 1500 to 2000 ppm on week 4 or 5 if needed.

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 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				
Week 5	5.8 to 6.2	1.0 to 1.2	70°-72° F (21° - 22°C)	Feed 100 to 150 ppm				

DANZIGER

GLOW™

Lobelia erinus

For additional information and availability: GLOW™

FINISHING TIPS

- 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 1.2 to 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 5	5.6 to 6.0	1.2 to 1.5	65° to 68° F (18° to 20° C)	feed 100 to 150 ppm		Daminozide at 2,000 to 2,500 ppm	Spray fungicide after transplant	
Week 6 to 12	5.6 to 6.0	1.2 to 1.5	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

- 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

DANZIGER

PROPAGATION TIPS

STREAM™

Lobularia hybrida

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 K-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 hybrida

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	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 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	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- 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 regular basis

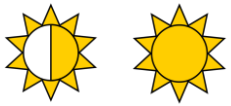
DANZIGER

PROPAGATION TIPS

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 K-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

FINISHING TIPS

STREAM™ Compact

Lobularia hybrida

For additional information and availability: STREAM™ Compact

- 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 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	PROPAMOCARB
	Phytophthora	PROPAMOCARB

- 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 regular basis

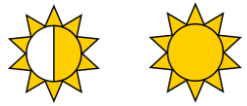
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PROPAGATION TIPS

GARDEN FRECKLES™

Marcadonia 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

Marcadonia 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	5.8/6.2	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				

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GARDEN FRECKLES™

Marcadonia 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

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	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				

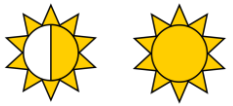
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PROPAGATION TIPS

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 K-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
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 will be required (leave 4 to 5 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 as needed	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

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 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

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
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	Paclobutrazol Drench at 2 ppm		Paclobutrazol 2 ppm drench when plants reach 85% of desired size

- 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

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		Daminozide as needed	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				
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

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.
- Areas of high radiation/warm temperatures – spray PGR's to control plant height.

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

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 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	Paclobutrazol Drench at 2 ppm		Paclobutrazol 2 ppm drench when plants reach 85% of desired size

- PGR - Spray Daminozide at 2500 ppm on young finished plants - Paclobutrazol drench application at 2 ppm for finishing if required for the more vigorous varieties
- Maintain good airflow and allow plants to dry before nightfall
- **Scout** for Aphids, Thrips, Mites and Whitefly

FINISHING TIPS

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 or K-IBA can hasten rooting. Daminozide at 2500 ppm day of sticking. Lighting in propagation will hasten flowering response - Night interruption or extended day. Pinch is not recommended.

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		Daminozide day of sticking	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		
Week 5	5.8 to 6.2	1.0 to 1.2	65° - 68° (18° - 20° C)	Feed 100 ppm to 150 ppm				

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

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 or K-IBA can hasten rooting. Daminozide at 2500 ppm week 3 or 4 if stretching occurs . Pinch is optional in warm countries above 5-6 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		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		
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		

DANZIGER

OSTICA™

For additional information and availability: OSTICA™

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"				
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			

- Consistent soil moisture levels are best – allow soil to dry slightly between irrigations
- Scout for Aphids and Whiteflies

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	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

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 or K-IBA can hasten rooting. Daminozide at 2500 ppm week 3 if stretching occurs . Pinch is optional in warm countries above 5-6 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		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		
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		

DANZIGER

OSTICADE™

Osteospermum ecklonis

For additional information and availability: OSTICADE™

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			

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	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

- Consistent soil moisture levels are best – allow soil to dry slightly between irrigations
- Scout for Aphids and Whiteflies

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		Daminozide day after sticking	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™

Pericallis hybrida

For additional information and availability: PRIMAVERA™

- 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 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 1.0 - 1.2 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 Aphids, Mites and Whiteflies

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	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.8 to 6.2	1.0 to 1.2	55° to 60° F (13° to 15° C)	feed 100 to 150 ppm		Daminozide as needed	Drench fungicide after transplant	
Week 6 to 12	5.8 to 6.2	1.0 to 1.2	55° to 60° F (13° to 15° C)	feed 100 to 150 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

DANZIGER

AMAZONAS™

Petunia

For additional information and availability: AMAZONAS™

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 3-5 100 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. Daminozide at 1500 ppm the day after sticking. 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	Additional lighting is optional depending on region(complete 12 -14 h daylength)	Daminozide day after sticking	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

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

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 stage Daminozide @ 1500 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			

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 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 ppm if needed		

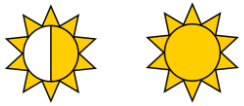
- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- PGR – Amazonas genetics are naturally more compact. Spray Daminozide at lower rates if needed.

DANZIGER

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. Daminozide at 1500 ppm the day after sticking. Week 4 – Daminozide @ 2500 ppm / Uniconazole @ 10 ppm tank mix if plants are aggressively growing. Amore® Fiesta, Heart & Soul and Queen of Heart are 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	Additional lighting is optional depending on region (complete 12 -14 h daylength)	Daminozide day after sticking	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		Daminozide @ 2500 ppm		

PROPAGATION TIPS

DANZIGER

AMORE®

Petunia Hybrida

For additional information and availability: AMORE®

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 -14 h daylength)	100 – 150 ppm N	Finish stages Daminozide @ 2500 to 3200 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			

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 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

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- PGR - Spray Daminozide at 2,500 to 3,200 ppm and / or Paclobutrazol drench application at 1 to 2 ppm for finishing if required

DANZIGER

BLUE DIAMOND™

Petunia Hybrida

For additional information and availability: BLUE DIAMOND™

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

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	Additional lighting is optional depending on region (complete 12 - 14 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

FINISHING TIPS

BLUE DIAMOND™

Petunia Hybrida

For additional information and availability: BLUE DIAMOND™

- 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			

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- PGR - Spray Daminozide 2,500 to 3,200 ppm and/or Paclobutrazol drench application at 1 to 2 ppm for finishing if required

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 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		Paclobutrazol 1 to 2 ppm drench when plants reach 85% of desired size

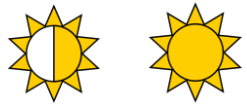
DANZIGER

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. Daminozide at 1500 ppm the day after sticking. Week 4 – Daminozide @ 2000 to 2500 ppm

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	Additional lighting is not required	Daminozide day after sticking	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		Daminozide spray application @ 2000 to 2500 ppm		

DANZIGER

CAPELLA™

Petunia Hybrida

For additional information and availability: CAPELLA™

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	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		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			

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 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

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- PGR - Spray Daminozide 2,000 to 2,500 ppm and / or Paclobutrazol drench application at 1 to 2 ppm for finishing if required

DANZIGER

CASCADIAS™

Petunia Hybrida

For additional information and availability: CASCADIAS™

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. Daminozide at 1500 ppm the day after sticking. Week 4 – Daminozide @ 2500 ppm 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	Additional lighting is optional depending on region (complete 12 -14 h daylength)	Daminozide day after sticking	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		Daminozide spray application at 2500 ppm		

DANZIGER

FINISHING TIPS

CASCADIAS™

Petunia Hybrida

For additional information and availability: CASCADIAS™

- 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 stage - Daminozide @ 2500 ppm
(12 cm) 5” pot	68°-72° F (20°-22° 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			

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 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/ Uniconazole tank mix if required	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

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- PGR - Spray Daminozide at 2,500 to 3,000 ppm and/or Paclobutrazol drench application at 1 to 2 ppm for finishing if required

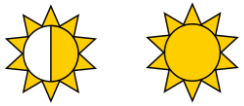
DANZIGER

PROPAGATION TIPS

LITTLETUNIA®

Petunia Hybrida

For additional information and availability: LITTLETUNIA®



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. Daminozide at 1500 ppm the day after sticking. Week 4 – Daminozide @ 1500 to 2000 ppm should be sufficient to control growth on Littletunia™ 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	Additional lighting is optional depending on region (complete 12 -14 h daylength)	Daminozide day after sticking	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		Daminozide as required		

DANZIGER

LITTLETUNIA®

Petunia Hybrida

For additional information and availability: LITTLETUNIA®

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	In liner and finish stages. Daminozide @ 1500 to 2000 ppm
(12 cm) 5" pot	65° to 68° F (18° to 20° C)			
7 to 8 wks	1 plant per pot		Soil EC 1.2 - 1.5 pH 5.6 to 6.0	
(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
- PGR - Spray Daminozide at 1500 to 2000 ppm for height control

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 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			

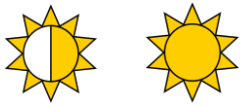
DANZIGER

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.
Daminozide at 1500 ppm the day after sticking.
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	Additional lighting is optional depending on region (complete 12 -14 h daylength)	Daminozide day after sticking	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		Daminozide spray application at 2500 ppm		

DANZIGER

RAY™

For additional information and availability: RAY™

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 -14 h daylength)	150 - 200 ppm N	Finish stages Daminozide @ 2500 to 3200 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			

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 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 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 2,500 to 3,200 ppm and / or Paclobutrazol drench application at 1 to 2 ppm for finishing if required

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 need for a quality finish.
Daminozide at 1500 ppm the day after sticking.
Week 4 – Daminozide @ 2500 ppm spray application

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	Additional lighting is optional depending on region (complete 12 -14 h daylength)	Daminozide day after sticking	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		Daminozide @ 2500 ppm		

DANZIGER

SPLASH DANCE®

Petunia Hybrida

For additional information and availability: SPLASH DANCE®

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 -14 h daylength)	150 - 200 ppm N	Finish stages Daminozide @ 2500 to 3200 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			

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 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/ Uniconazole tank mix if required	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

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- PGR - Spray Daminozide at 2,500 to 3,200 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

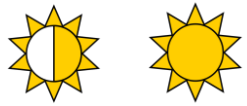
DANZIGER

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 @ 1500 ppm	Spray for Powdery Mildew	

DANZIGER

FINISHING TIPS

PHLOXSTAR™

Phlox drummondii

For additional information and availability: PHLOXSTAR™

- 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			

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	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 @ 2000 to 2500 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

- PGR - Spray Daminozide at 2000 to 2500 ppm on finished plants early in crop schedule / Paclobutrazol drench application at 1 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

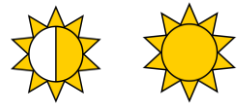
DANZIGER

PROPAGATION TIPS

MEGA PAZZAZ ™

Portulaca oleracea

For additional information and availability: MEGA PAZZAZ™



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 1500 ppm 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	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		

DANZIGER

MEGA PAZZAZ ™

Portulaca oleracea

For additional information and availability: MEGA PAZZAZ™

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 1 to 2 times Additional lighting will hasten flowering under short days	100 to 150 ppm N	Daminozide @ 2500 ppm or tank mix of Daminozide / Uniconazole for finishing
(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 - Spray Daminozide / Uniconazole tank mix to control height
- Scout for Aphids, Thrips and Whiteflies

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	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 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		Daminozide @ 2500 ppm or tank mix of Daminozide / Uniconazole for finishing		

DANZIGER

PAZZAZ NANO™

Portulaca oleracea

For additional information and availability: PAZZAZ NANO™

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 1500 ppm 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	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		

DANZIGER

PAZZAZ NANO™

Portulaca oleracea

For additional information and availability: PAZZAZ NANO™

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	Daminozide @ 2500 ppm for finishing if required
(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 - Spray Daminozide control height
- Scout for Aphids, Thrips and Whiteflies

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	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 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		Daminozide @ 2500 ppm for finishing		

DANZIGER

PROPAGATION TIPS

PAZZAZ™

Portulaca oleracea

For additional information and availability: PAZZAZ™

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 1500 ppm 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	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		

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	Daminozide @ 2500 ppm for finishing
(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			

- PGR - Spray Daminozide control height
- Scout for Aphids, Thrips and Whiteflies

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	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 as needed	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		Daminozide @ 2500 ppm for finishing		

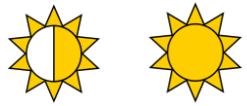
DANZIGER

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 2000 ppm 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	21° - 22°C (70°-72° F)	50 ppm N in mist	Netural		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 Paclobutrazol 1 to 2 ppm drench to hold plants
(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	
(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			

- PGR - Spray Daminozide for height control / Paclobutrazol drench for holding
- Scout for Aphids, Leafminors and Whiteflies

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 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

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 overmisting

- 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	

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

- 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 regular basis

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 2000 to 2500 ppm or apply Uniconzole 2-5 ppm if required
- 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 Paclobutrazol drench @ 1 to 2 ppm
(12 cm) 5" pot	68°-70° F (20°-21° C)			
8 to 9 wks	1 plant per pot	Night interruption or extended day- Optional	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			

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
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		Paclobutrazol drench @ 1 to 2 ppm

- 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

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 Paclobutrazol drench @ 1 to 2 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			

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
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		Paclobutrazol drench @ 1 to 2 ppm

- 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

DANZIGER

TOUCH™

Scaevola aemula

For additional information and availability: TOUCH™

PROPAGATION TIPS

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™

Scaevola aemula

For additional information and availability: TOUCH™

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 Paclobutrazol drench @ 1 to 2 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			

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
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		Paclobutrazol drench @ 1 to 2 ppm

- 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

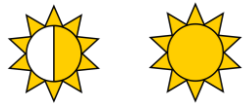
DANZIGER

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 2000 ppm the day after sticking
  No pinch is necessary for producing an excellent 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	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

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

FINISHING TIPS

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			

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
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

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

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

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	Netural	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 temps are cooler than night temps)
- 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			

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
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

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

DANZIGER

PERENNIALS

Propagation & Finishing

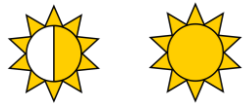
DANZIGER

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 @ 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 / 6.3	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				
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		Pinch at transplant

DANZIGER

FINISHING TIPS

CELESTIA™

Agastache foeuiculum

For additional information and availability: CELESTIA™

- 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 –Suggested day of transplant	150 - 200 ppm N	Daminozide spray application @ 2000 – 2500 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				

- PGR - Spray Daminozide at 2000 to 2500 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

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	5.5 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				

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		

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 required/ long day flowering response	100 - 150 ppm N	Daminozide spray at 2,000 to 2,500 ppm
15 cm (1 gallon)	(16°-18° C)			
10 to 12 wks	1-2 plants per container		Soil EC 0.8 - 1.0 pH 5.6 to 6.5	
20 cm (2 gallon)				

- Facultative Long Day Flowering Response – June through September
- Natural foliar disease tolerance
- Maintain good airflow and allow plants to dry between irrigations
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora

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	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.6 to 6.2	0.8 to 1.0	65° to 68° F (18° to 20° C)	feed 100 to 150 ppm			Drench fungicide after transplant	Control of Pythium & Phytophthora
Week 6 to 12	5.6 to 6.2	0.8 to 1.0	60° to 65° F (16° to 18° C)	feed 150 to 200 ppm		Daminozide spray at 2,000 to 2,500 ppm	Spray fungicide in finishing protocols	Control of Bacterial Leaf Blights

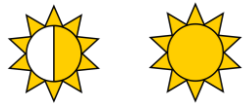
DANZIGER

PROPAGATION TIPS

SUNNY SPARKS™

Agastache aurantiace

For additional information and availability: SUNNY SPARKS™



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 @ 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	5.5 / 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 –Suggested day of transplant	150 - 200 ppm N	Daminozide spray application @ 2000 – 2500 ppm
15 cm (1 gallon) 1 ppp	61° to 65° F (16° to 18° C)			
10 to 12 wks			Soil EC 1.0 - 1.2 pH 5.5 to 6.3	
20 cm (2 gallon) 1 ppp				

- PGR - Spray Daminozide at 2000 to 2500 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

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 5	5.5 to 6.3	1.0 to 1.2	61° to 65° F (16° to 18° C)	feed 150 to 200 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Rhizoctonia
Week 6 to 13	5.5 to 6.3	1.0 to 1.2	61° to 65° F (16° to 18° C)	feed 150 to 200 ppm				

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 1500 to 2500 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		Pinch at transplant

DANZIGER

PAVILION™

Caryopteris incana

For additional information and availability: PAVILION™

FINISHING TIPS

- 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 – Suggested day of transplant	150 - 200 ppm N	Daminozide spray application @ 2000 – 2500 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 2000 to 2500 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.

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 6.2	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				

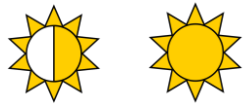
DANZIGER

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

- Coreopsis respond to long days for flowering (obligate long day plant). The Solanna™ series flower response is late May / early June. Daminozide at 1000 to 1500 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 for Powdery Mildew
- Scout for Aphids, Thrips and Whiteflies
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora

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 6.2	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

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

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

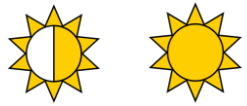
Finishing	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.8 to 6.5	0.8 to 1.0	18° - 20° C (65°- 68° F)	feed 100 to 150 ppm			Drench fungicide after transplant	Control of Pythium & Rhizoctonia
Week 6 to 13	5.8 to 6.5	0.8 to 1.0	18° - 20° C (65°- 68° F)	feed 150 to 200 ppm			Spray fungicide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

TERRA NOVA NURSERIES, INC. DANZIGER

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 prefers bright light conditions for maximum flowering. Daminozide at 1500 to 2000 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		

PROPAGATION TIPS

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 @ 2000 – 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				

- PGR - Spray Daminozide at 2000 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

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
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				

DANZIGER

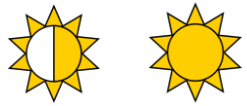
PROPAGATION TIPS

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 prefers bright light conditions for maximum flowering. Daminozide at 1500 to 2000 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				

- 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

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	5.5 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				

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

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

- KIBA rooting hormone spray applications will hasten and improve uniformity of rooting. Daminozide at 1500 to 2000 ppm week 3 if required in warm greenhouse conditions.
- Pinch –Should not be required unless liners are elongated.

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

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 is not required- only to cut the flower buds from the top (but not the whole stem). Extend daylength to 12 hours for early flowering	100 - 150 ppm N	Daminozide spray application @ 2000 – 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)				

- PGR - Spray Daminozide at 2000 to 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

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		

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

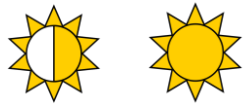
DANZIGER

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

- K-IBA spray application will hasten and even rooting response. Echinacea Panama™ are long day flowering with the natural flowering response being June (facultative long day plant).
- 12-14 hour 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 12-14 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				
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		1500 to 2000 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. Extend daylength to 12-14 hours to promote growth	100 - 150 ppm N	Daminozide spray application @ 2000 – 2500 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				

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

- 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
- PGR - Spray Daminozide at 2000 to 2500 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

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	Extend daylength to 12-14 hours to promote growth	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

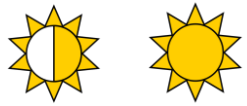
DANZIGER

PROPAGATION TIPS

SUNSTRONG™

Erysimum linifolium

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 1500 to 2500 ppm week 4. Pinch week 4 or at transplant.

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 linifolium

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 or day of transplant	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 2000 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

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

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.
- Over wet 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 1000 to 1500 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		
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

- 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
7 to 9 wks	Average Day	Pinch –Suggested day of transplant	100 - 150 ppm N	Daminozide spray application @ 2000 – 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				

- PGR - Spray Daminozide at 2000 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

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

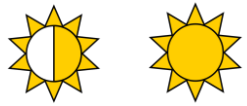
DANZIGER

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 1500 to 2500 ppm week 4. Pinch at transplant 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	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		Damino zide as needed		
Week 5	5.8 to 6.2	.80 to .90	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Damino zide as needed		Pinch recomm ended

DANZIGER

STEFFI™

For additional information and availability: STEFFI™

Gaura lindheimeri

FINISHING TIPS

- 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	100 - 150 ppm N	Daminozide spray application @ 2000 – 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				

- PGR - Spray Daminozide at 2000 to 3750 ppm on finished plants early in crop schedule
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Aphids, Leafminors, Mites and Thrips
- Drench after transplant for Botrytis and Pythium / Phytophthora

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				

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 KIBA 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		
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

FINISHING TIPS

FESTIVAL™

For additional information and availability: FESTIVAL™

Gypsophila paniculata

- 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 day of transplant with possible second pinch	150 - 200 ppm N	Daminozide spray application @ 2000 – 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				

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

- PGR - Spray Daminozide at 2000 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

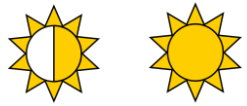
Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID,DICHLORVOS
	Thrips	METHIOCARB,ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

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

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 develop
- Scout for Aphids, Spider Mites and Thrips on regular basis along with Leaf Minors.

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
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

FINISHING TIPS

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/Remove from mist as soon as possible

- Heuchera & Heucherella 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™

For additional information and availability: KIRA™

Heuchera hybrida

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

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

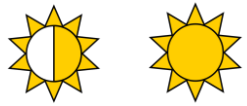
DANZIGER

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

- K - IBA spray 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 is recommended week 4 or at transplant. Daminozide spray application at 1500 to 2500 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

FINISHING TIPS

FIRST FLUSH™

Iberis sempervirens

For additional information and availability: FIRST FLUSH™

- Evenly moist soil conditions is best
- High quality plants are finished with high light and cool temperatures
- May require two pinches, depending on production schedule for larger containers

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 @ 2000 – 3750 ppm Paclobutrazol at 2 ppm drench
15 cm (1 gallon)	65°F (18°C)			
9 to 10 wks			Soil EC 1.0 - 1.2 pH 5.6 to 6.0	
20 cm (2 gallon)				

- PGR - Spray Daminozide at 2000 to 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

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

LAMI™ Dark Purple

Lamium maculatum

For additional information and availability: LAMI™ Dark Purple

PROPAGATION TIPS

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 1500 – 2000 ppm week 3 and/or 5 as required
- Pinch at transplant

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		Damino zide as needed		
Week 4	5.8 to 6.2	.90 to 1.0	65° - 68° (18° - 20° C)	feed 100 to 125 ppm N				
Week 5	5.8 to 6.2	.90 to 1.0	65° - 68° (18° - 20° C)	feed 100 to 125 ppm N	None required	Damino zide as needed		Pinch at transplant

DANZIGER

LAMI™ Dark Purple

For additional information and availability: LAMI™ Dark Purple

Lamium maculatum

FINISHING TIPS

- Pinch at transplant or soon after transplant
- 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 –Required	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 1500 to 2500 ppm early on finished plants
•Maintain good airflow and allow plants to dry before nightfall
•Scout for Aphid and Slugs/Snail on regular basis

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

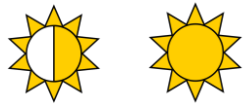
DANZIGER

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.

K IBA spray application or IBA dip will hasten and even off rooting. Pinch is recommended week 4 or at transplant.

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 recommended

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 – Suggested day of transplant and 2nd pinch might be required	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 period, it might be required –
  Spray Daminozide at 2000 to 2500 ppm .
- Maintain good airflow and allow plants to dry before nightfall
- Scout for Aphids, Leaf Minors, Mites and Thrips
- Drench after transplant for Botrytis and Pythium / Phytophthora

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

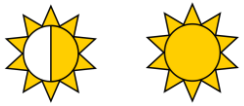
DANZIGER

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)	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.

- K IBA spray application will hasten and even rooting. Do not over saturate media during propagation.

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		Damino zide as needed		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	Daminozide spray application @ 2500 – 3750 ppm
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)				

Finishing	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Transplant to Week 6	5.8 to 6.2	1.0 to 1.2	18° - 20° C (65° - 68° F)	feed 150 to 200 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		Daminozide as needed	Control of Pythium & Phytophthora	

- PGR - Spray Uniconazole 5 to 7 ppm early in crop Paclobutrazol drench application at 0.5 ppm for finishing
- Spray broad spectrum fungicide after transplant
- Scout for Thrip on regular basis
- Do not spray Abamectin (Avid) on Leucanthemum - test spray any pesticide

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

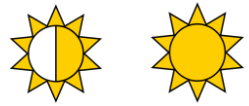
DANZIGER

PROPAGATION TIPS

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)	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 3-5 100-150 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
- K-IBA spray application will hasten and even rooting response. 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 @ 2000 – 2500 ppm if needed under low light conditions
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	Daminozide spray application @ 2000 – 2500 ppm if needed under low light conditions

- Long Day Flowering Response Natural flowering time is weeks 26 - 28
- PGR - Spray Daminozide at 2000 to 2500 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

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

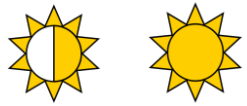
DANZIGER

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

- K-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				
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 @ 2000 – 2500 ppm if needed under low light conditions
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	Daminozide spray application @ 2000 – 2500 ppm if needed under low light conditions

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 2000 to 2500 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

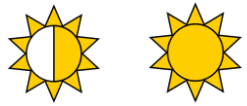
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PROPAGATION TIPS

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. K-IBA spray 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 1500 to 2500 ppm Daminozide

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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 – Optional	150 - 200 ppm N	Spray at 1500 to 2500 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				

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				

- 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

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

Dark Matter™ & Pink Nebula™

Salvia nemorosa

For additional information and availability: Dark Matter™ & Pink Nebula™

Stick on priority – umber 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 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 @ 2000 – 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		May require additional applications		Daminozide spray application @ 2000 – 3750 ppm Paclobutrazol 1 to 2 ppm drench

- 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

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™ 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 / 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				

DANZIGER

FINISHING TIPS

For additional information and availability: SALLYROSA™ April Night

SALLYROSA™ April Night

Salvia nemorosa

- 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				

Finishing	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 5 Transplant	5.8 to 6.3	1.0 to 1.2	16° to 18°C	feed 100 to 150 ppm			Drench fungicide after transplant	Control of Pythium & Botrytis
Week 6 to 13	5.8 to 6.3	1.2 to 1.5	16° to 18°C	feed 150 to 200 ppm		Dark Matter may require additional applications		Daminozide spray application @ 2000 – 3750 ppm Paclobutrazol 1 to 2 ppm drench

- PGR - Spray Uniconazole 5 to 7 ppm early in crop Paclobutrazol drench application at 0.5 ppm for finishing
- Spray broad spectrum fungicide after transplant
- Scout for Thrip on regular basis

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

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

- K-IBA spray 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		
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		

DANZIGER

RONICA™

Veronica longifolia

For additional information and availability: RONICA™

FINISHING TIPS

- 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 day of transplan	100 - 150 ppm N	Daminozide spray application @ 2000 – 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 2000 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 for Powdery Mildew
- Scout for Aphids, Mites and Whiteflies
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora

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	5.8 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

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FOLIAGE

Propagation & Finishing

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Emerald Charm™

Asarum

For additional information and availability: FLORESTA™ CATALOG

PROPAGATION TIPS

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		

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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			

- Additional Iron (Fe) or Manganese (Mn) may be required depending on water quality and alkalinity
- Scout for Aphids and Thrips on regular basis

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

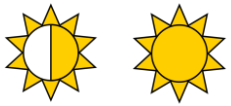
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PROPAGATION TIPS

Nematanthus

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

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Nematanthus

Nematanthus gregarius

For additional information and availability: FLORESTA™ CATALOG

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

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