

## Pansy Promise® F<sub>1</sub> Series

(*Viola x wittrockiana*)

Annuals Culture (revised 02/22/19)

**Plug crop time:** 5 weeks

**Transplant to finish:** Spring 6 to 7 weeks, Autumn 4 to 5 weeks

- Selected for European growing conditions, Promise is ideal for high-density, pot-tight Spring programs for the European market.
- Early, compact plants with large flowers will not extend beyond the edge of the pot in production.
- Excellent landscape vigour and floriferousness over a long period of time.
- Good for in-ground and container plantings.
- Wide range of classic and contemporary colours.

### General Information

Exposure	Bloom Season	Height	Spread	Spacing
Partial Sun, Sun	Early Spring, Spring, Autumn, Winter	8-12 in. (20-30 cm)	8-12 in. (20-30 cm)	6-8 in. (15-20 cm)

### Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days to Germinate	Initial Media pH/EC	Cover Seed
PRM, RAW	288	1	5	3-4	5.5-5.8 pH 0.75 mmhos/cm	Yes

### Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
<b>Moisture</b>	Level 4	Level 3-4	Level 3-4	Level 2-4
<b>Temperature</b>	65-70°F (18-21°C)	60-65°F (16-18°C)	60-65°F (16-18°C)	55-60°F (13-16°C)
<b>Light</b>	Optional	2,500 f.c. (26,900 Lux)	2,500 f.c. (26,900 Lux)	5,000 f.c. (53,800 Lux)
<b>Fertilizer</b>		Less than 100 ppm N - Less than 0.7 EC	100 to 175 ppm N - 0.7 to 1.2 EC	100 to 175 ppm N - 0.7 to 1.2 EC
<b>PGR</b>			ancymidol/5-10 ppm/Spray daminozide/1,500-2,500 ppm/Spray	ancymidol/5-10 ppm/Spray daminozide/1,500-2,500 ppm/Spray

### Fertilizer Notation

It is best to use a nitrate-based fertilizer with low phosphorus to reduce stretch. Maintain a media pH of 5.5 to 5.8 and EC at 0.7 to 1.0 mS/cm (1:2 extraction). A higher pH (greater than 6.2) can induce Boron deficiency and also encourages fungal black root rot caused by *Thielaviopsis* sp.

### Propagation Key Tips

Adjust PGR rates and frequency of application depending on local conditions in Stages 3 and 4.

### Growing on to Finish

Growing on Temperature	Target Media pH/EC	Fertilizer	Daylength
(day) 60-70°F (16-21°C) (night) 50-55°F (10-13°C)	5.5-5.8 pH 1.5-2.0 mmhos/cm	175 to 225 ppm N - 1.2 to 1.5 EC	Facultative Long Day

## Crop Scheduling

Container Size	Plugs/Pot	Crop Time	Season	PGR
Cell Pack	1 (ppp)	6-7 (weeks)	Early Spring	daminozide/chlormequat chloride tank mix 1,500/500 ppm Spray
4"/4.5"/Quart	1 (ppp)	6-7 (weeks)	Early Spring	daminozide/chlormequat chloride tank mix 1,500/500 ppm Spray
10" Pot or HB/3 Gallon	7-9 (ppp)	6-7 (weeks)	Early Spring	daminozide/chlormequat chloride tank mix 1,500/500 ppm Spray

### Common Problems

Insects: Fungus Gnats and Shore Flies in plug stage and Aphids in early stages after transplant. Disease: Damping off, Black Root Rot, Foliar Leaf Spots, Botrytis

### Finishing Key Tips

Adjust PGR rates and frequency of application depending on local conditions. If growing frost-free (northern overwinter culture from Autumn transplant) plan for crop times of 17 to 18 weeks from transplant to finish.

**NOTE:** Growers should use the information presented here as guidelines only. PanAmerican Seed recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on the climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by PanAmerican Seed of any products listed herein. PanAmerican Seed's terms and conditions of sale shall apply to all products listed herein.

## Variety Pictures



Antique Shades



Beaconsfield



Blue Blotch Improved



Blue White Whiskers



Denim



Marina



Moonlight



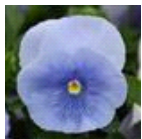
Outback Fire



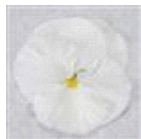
Pure Lemon



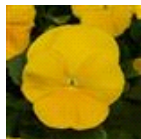
Pure Lilac Shades



Pure Silver Azure



Pure White



Pure Yellow



Red Blotch



Rose Blotch



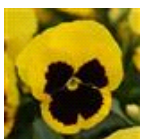
Sunset



True Blue



White Blotch



Yellow Blotch



Yellow Red Wing



Mixture Improved

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