

## Lobelia Starship™ F<sub>1</sub> Series

(*Lobelia x speciosa*)

Perennials Culture (revised 11/04/19)

**Plug crop time (288 tray):** Scarlet, 7 to 9 weeks; all others, 8 to 10 weeks

**Transplant to finish:** 14 to 18 weeks

- Earlier flowering; improved branching; low stretch; uniform, controlled habit; and huge flower power assure a better-quality finished plant than the competition.
- Good Summer crop for landscape programs – prefers higher temperatures, humidity and moisture.
- Good germination and plug yield.
- Versatile series works well from 5-in./13-cm pots to higher-value 1 and 2-gallon containers.
- Performs well in both annual and perennial combos.
- Attracts hummingbirds and butterflies.

### General Information

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Summer, Late Summer, Autumn	20-24 in. (51-61 cm)	8-12 in. (20-30 cm)	14-16 in. (36-41 cm)

### Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days to Germinate	Initial Media pH/EC	Cover Seed
PEL	288	1	8-10	6-10	5.8-6.2 pH 0.75 mmhos/cm	Light cover

### Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
<b>Moisture</b>	Level 4	Level 4-3	Level 3	Level 3-2
<b>Temperature</b>	65-72°F (18-22°C)	65-68°F (18-20°C)	65-68°F (18-20°C)	60-65°F (16-18°C)
<b>Light</b>	Light	2,000-2,500 f.c. (21,500-26,900 Lux)	2,000-2,500 f.c. (21,500-26,900 Lux)	4,000-5,000 f.c. (43,100-53,800 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>			daminozide/1,500-2,500 ppm/Spray	daminozide/1,500-2,500 ppm/Spray

### Vernalization

No

### Propagation Key Tips

Critical Daylength: 13 hours.

Short day (10 hours) bulk needed for forcing.

Spring forcing for Week 19 sales: Use 72 plug.

Fall forcing for Week 36 sales: Use 288 plug.

For more forcing info: See Perennials Forcing Guide.

Needs light for germination, but avoid drying out (light vermiculite cover advised). Grow plugs at 10 hours or less for at least the first 8 weeks from sowing to keep vegetative. Keep medium moisture level 4 and RH 80% on Stage 1; not too wet!! Upon removal from Germ chamber, place in prop house with bottom heat (70°F/21°C). Use very light mist to maintain high humidity (70%+) , when media reaches level 3, trays need to be mist watered again. Trays would stay in propagation under mist up to 3 weeks. Starship Deep Rose has 7 to 10 days longer plug lead time, due to a slower start.

## Growing on to Finish

Growing on Temperature	Target Media pH/EC	Fertilizer	Daylength
(day) 65-70°F (18-21°C) (night) 60-65°F (16-18°C)	5.8-6.6 pH 1.1-1.3 mmhos/cm	175 to 225 ppm N - 1.2 to 1.5 EC	-

## Crop Scheduling

Crop Type	Container Size	Plugs/Pot	Crop Time	Season	PGR
Annual	4"/4.5"/Quart	1 (ppp)	13-17 (weeks)	Summer	paclobutrazol 30 ppm Spray
Annual	4"/4.5"/Quart	1 (ppp)	13-17 (weeks)	Summer	uniconazole 5 ppm Spray
Annual	5"/6"/1 Gallon	2-3 (ppp)	13-17 (weeks)	Summer	paclobutrazol 30 ppm Spray
Annual	5"/6"/1 Gallon	2-3 (ppp)	13-17 (weeks)	Summer	uniconazole 5 ppm Spray
Forcing	5"/6"/1 Gallon	2-3 (ppp)	11-13 (weeks)	Spring, ADT 68°F (20°C)	-
Forcing	5"/6"/1 Gallon	2-3 (ppp)	9-10 (weeks)	Autumn, ADT 68°F (20°C)	-
Forcing	8"/2 Gallon	4-6 (ppp)	11-13 (weeks)	Spring, ADT 68°F (20°C)	-
Forcing	8"/2 Gallon	4-6 (ppp)	9-10 (weeks)	Autumn, ADT 68°F (20°C)	-

### Fertilizer Notation

Starship generally needs moderate fertilization. Apply fertilizer at rate 2 (between 100 to 190 ppm N; 0.7 to 1.3 mmhos/cm). Maintain soil pH at 5.8 to 6.4 and soil EC at 1.1 to 1.3 mmhos/cm.

### Common Problems

Insects: Leafminer, Aphids, Thrips, Snails, Slugs. Control Thrips, as Lobelia is very susceptible to INSV damage. Disease: INSV, Pythium, Phytophthora, Root and Crown Rot

### Bulking Strategy

For early sales, it needs to be bulked 13 to 15 wks (from sowing ) in 10-hour short day to 10 true leaves; then possible to finish for Mother's day (week 19). See Quick Study Forcing in this Product Information Guide.

### Finishing Key Tips

Avoid drought stress. Grow evenly moist but not wet. Monitor for Snails, Slugs, Root and Crown Rot, Pythium, Phytophthora (if too wet). Control Thrips, as Lobelia is very susceptible to INSV damage.

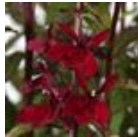
NOTE: Growers should use the information presented here as guidelines only. PanAmerican Seed recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on the climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to confirm the treatment is available in their region as well as 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

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Blue



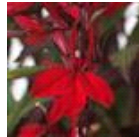
Burgundy



Deep Rose



Scarlet



Scarlet Bronze Leaf

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