

Lobelia Starship™ F₁ Series

(*Lobelia x speciosa*)

Perennials Culture (revised 02/15/18)

Plug crop time (288 tray): Scarlet, 7 to 9 weeks; Deep Rose, 8 to 10 weeks

Transplant to finish: 13 to 17 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)	6-8 in. (15-20 cm)	12-14 in. (30-36 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
Moisture	Level 4	Level 3		
Temperature	65-72°F (18-22° C)	65-68°F (18-20°C)	65-68°F (18-20°C)	60-65°F (16-18°C)
Light	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)
Fertilizer		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
PGR			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 media uniformly moist. Avoid too dry or too wet. Starship Deep Rose has 7 to 10 days longer plug lead time, due to 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

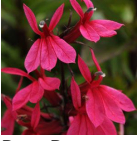
For early sales, it needs to be bulked 13 to 15 wks (from sowing) in 10-hour short day to 10 true leaves; then possible to finish for Mother's day (week 19). See Quick Study Forcing in this Product Information Guide.

Finishing Key Tips

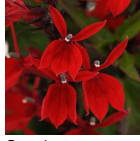
Avoid drought stress. Grow evenly moist but not wet. Monitor for Snails, Slugs, Root and Crown Rot, Pythium, Phytophthora (if too wet). Control Thrips, as Lobelia is very susceptible to INSV damage.

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 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



Deep Rose



Scarlet

PanAmericanSeed™

PanAmerican Seed Co.
622 Town Road, West Chicago, Illinois, USA, 60185-2698
630 231-1400 Fax: 630 231-3609 PanAmSeed.com

™ denotes a trademark of and ® denotes a registered trademark of Ball Horticultural Company in the US. It may also be registered in other countries.
©2018 Ball Horticultural Company