

Dianthus Sweet™ F₁ Series

(*Dianthus barbatus*)

Cut Flowers Culture (revised 02/24/19)

Best in class makes the best bouquets

Sweet offers the best commercial *D. barbatus* series available. With no vernalization needed for first-year-flowering, you can program for year-round production. Add to that the very uniform height and flowering, excellent retail holdability and 11 separate bright colours, and you've got one sweet series to grow and send to market!

Planting density: 4 to 6 plants/ft.² (42 to 64 plants/m²)

Best for: Greenhouse, high tunnel; also suitable for field

Floral selection guide: Filler, volume

Plug crop time: 4 to 5 weeks

Transplant to finish: Late Spring/Summer greenhouse/field, 8 to 9 weeks; Late Summer/Winter greenhouse, 9 to 13 weeks; Field, 15 to 18 weeks

- Top-notch filler series features large, fragrant and long-lasting blooms on strong, straight stems.
- Produces high yields of saleable stems.
- Taller growth comes from early, Autumn-transplanted, greenhouse-grown plants.

General Information

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Early Spring, Spring, Autumn	18-36 in. (46-91 cm)	10-12 in. (25-30 cm)	10-14 in. (25-36 cm)

Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days to Germinate	Initial Media pH/EC	Cover Seed
PEL	288	1	5-6	3-4	5.8-6.2 pH 0.75 mmhos/cm	Yes

Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 3-4	Level 3-4	Level 3
Temperature	64-68°F (18-20° C)	65-70°F (18-21°C)	60-65°F (16-18°C)	55-60°F (13-16°C)
Light	Optional	5-8 mol·m ⁻² ·d ⁻¹	8-10 mol·m ⁻² ·d ⁻¹	10 mol·m ⁻² ·d ⁻¹
Fertilizer		Less than 100 ppm N - Less than 0.7 EC	Less than 100 ppm N - Less than 0.7 EC	175 to 225 ppm N - 1.2 to 1.5 EC

Fertilizer Notation

Beginning at Stage 3, start fertilizing with 50 ppm N twice a week. As the true leaves develop, increase the fertilizer rate to 100 ppm. Maintain the plug media EC at 0.75 to 1.0 mmhos/cm and pH at 5.8 to 6.2.

Growing on to Finish

Growing on Temperature	Target Media pH/EC	Fertilizer	Daylength
Before flower development: (day) 60-72°F (16-22°C) (night) 50-60°F (10-16°C)	5.8-6.5 pH 1.5-2.0 mmhos/cm	175 to 225 ppm N - 1.2 to 1.5 EC	Facultative Long Day

Daylength Notation

Best results are achieved when plants are grown in full sun or in a high-light greenhouse. The combination of high light with high heat will result in shorter stems.

Crop Scheduling

Crop Type	Season	Density	Crop Time
-	Spring	4-6 plants/ft ² (43-65 plants/m ²)	11-15 weeks

Fertilizer Notation

After plugs are established, apply 200 ppm calcium nitrate per week.

Common Problems

Incorporating a preventative program for Fusarium is strongly recommended. In outdoor production, a preventative rust program is also recommended.

Finishing Key Tips

Sweet dianthus can be transplanted year-round in coastal California or similar climates, where mid-August to February 1 transplants will develop the best stem length. Stem length for the Sweet series from transplants April to July may not be of sufficient length for commercial production depending on the environment. Greenhouse-grown plants generally produce taller stems than plants that are field-grown. Harvest stems with at least 3 open flowers. Plants can be harvested continuously for approximately 2 to 3 weeks. If cut back, a second flush of flowers will be ready to harvest in 8 to 10 weeks. Note: A second crop is only advisable from an Autumn harvest, so the second flush develops under the cooler conditions of late Autumn and Winter and builds stronger plants. A single layer of support netting is recommended.

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



Black Cherry



Coral



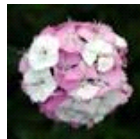
Deep Pink
Maxine



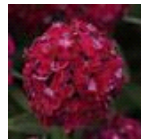
Magenta
Bicolor



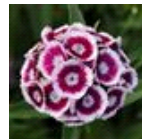
Pink



Pink Magic



Purple



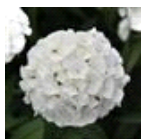
Purple White
Bicolor



Red



Scarlet



White



Mixture

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.
©2019 Ball Horticultural Company