



CROP MANUAL

Impatiens walleriana



Central Europe
North Europe







Imara from seed to finished

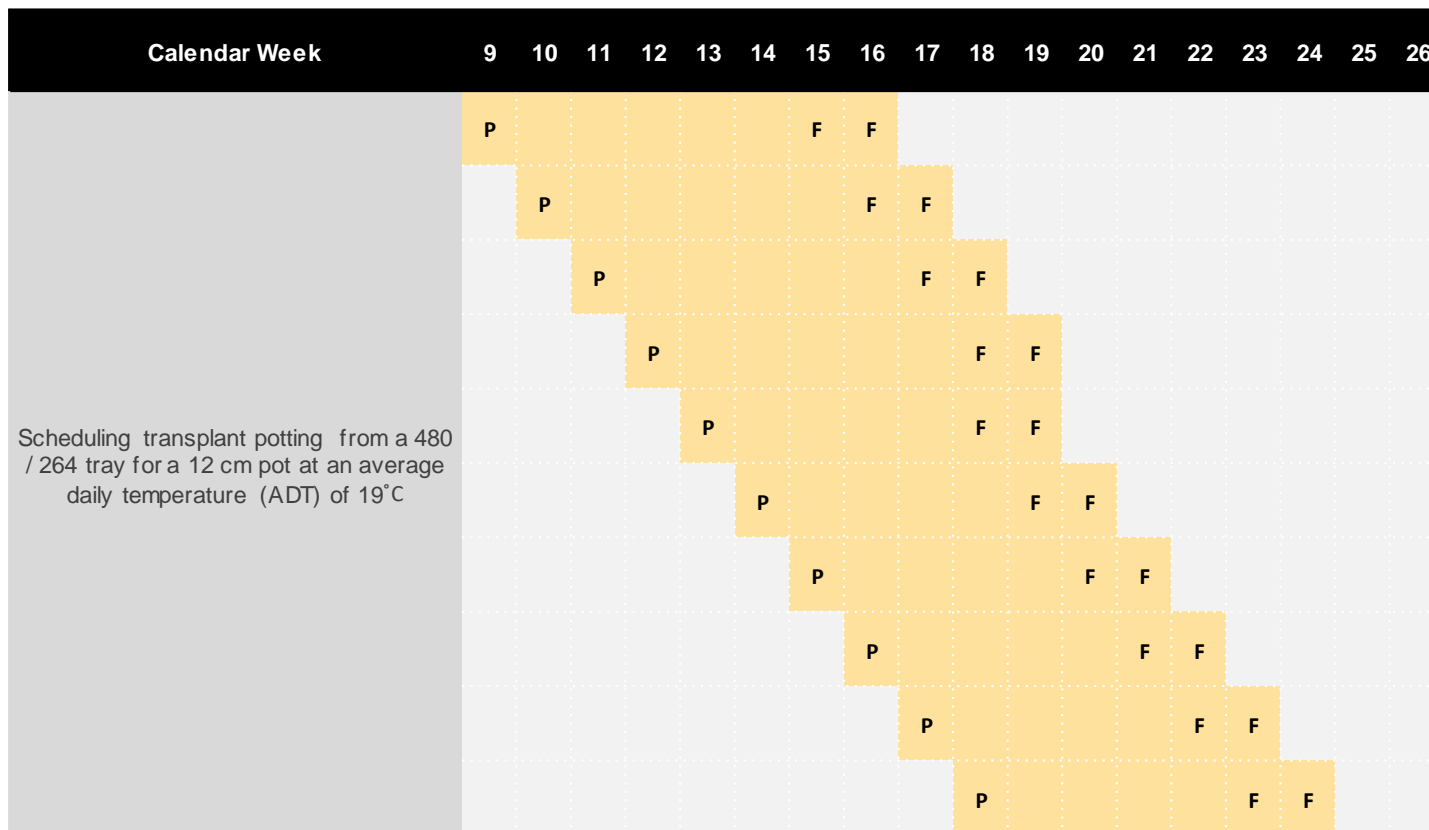
© 2020 Syngenta. All rights reserved. The publication and its content is proprietary to Syngenta. It may not be photocopied or reproduced in any form. Product names marked © or ™, Syngenta Flowers, the SYNGENTA Wordmark and the SYNGENTA Logo are trademarks of a Syngenta Group Company. Syngenta has exercised reasonable care and skill in compiling this publication. All data in this brochure is intended for general guidance only and the user should apply it only for the purposes for which it has been created and in accordance with his own knowledge and experience of local conditions. Syngenta cannot accept any liability in connection with this advice.

Finished Plant Imara

Remarks:

N.A.

Series 	Type 	Leaf color 	Pot size 	Comment
Imara from seed	vigorous	dark green	Pack to 12 cm pot	Downey Mildew resistance



Cultivation Advice

Start with a complete balanced fertilizer schedule. (Crop manual)
Avoid high Ec levels. Drip Ec =1.8. with a good balance between elements. A good Ec in the pots gives dark and strong plants with healthy roots.
Avoid low phosphor levels > 0.5mmol/L.



Fertilization & Substrate

Start with a complete balanced fertilizer schedule. Avoid high Ec levels. Drip Ec =1.8 mS / cm with a good balance between elements. A good Ec in the pots gives dark and strong plants with healthy roots. Avoid low phosphor levels > 0.5mmol/L. Important to keep EC levels of the growing media in the range of 1,3 – 1,7. Measure the EC every week.



Diseases

Preventive fungicide against soil borne diseases like Phytophthora Botrytis, Pythium, Rhizoctonia, Thielaviopsis, Powdery Mildew, Downy Mildew, rust.

Preferred products depends on the country



Pests

Preventive insecticide: Against chewing insects (caterpillar) Aphid, spider mites, trips, whitefly.



Irrigation

Imara needs to be irrigated on a regular basis. The Ec given by feeding is average around 1,8 mS



PGR Applications

Be careful with PGR with the C and M type. Dazide; CCC and Bonzi can be used. PGR might delay flowering.

Recommendations

Culture guideline at optimum average daily temperature 20–22°C:

Culture week	1	2	3	4	5	6	7
Handling	TP	S	F	F	F		
Temperature D/N (warm culture)	18–20°C						
Temperature D/N (cool culture)	14–16°C						
Light	no special requirements						
Shading	500 - 550 W/m ²						
Humidity	50 - 70%						
Moisture	Alternate 3						
pH	5,5–5,8						
EC growing medium	1 - 1,25 mS / cm						
EC feeding in mS/cm	1,5 - 2,0 mS /cm						
Fertilizer	N : K 1 : 3						

Legend

Temperature zones

1	0–5°C
2	5–8°C
3	8–12°C
4	12–14°C
5	14–16°C
6	16–18°C
7	18–20°C
8	20–22°C
9	>22°C

EC zones growing medium mS/cm (Sonneveld 1:1,5)

1	0,5–0,75 mS/cm
2	0,75–1,0 mS/cm
3	1,0–1,25 mS/cm
4	1,25–1,5 mS/cm
5	1,5–1,75 mS/cm
6	1,75–2,0 mS/cm
7	2,0–2,25 mS/cm

EC zones feeding mS/cm

1	0,5–1,0 mS/cm
2	1,0–1,5 mS/cm
3	1,5–2,0 mS/cm
4	2,0–2,5 mS/cm
5	2,5–3,0 mS/cm
6	3,0–3,5 mS/cm

Light zones

1	total darkness
2	short day <12 h/short day treatment
3	shaded
4	no-shading / natural light
5	supplemental light > 14 h/long day treatment
6	night interruption

Shading

1	shading > 250 W/m ²
2	shading > 450 W/m ²
3	shading > 750 W/m ²

Soil moisture level

5	saturated: water is easily observed. When the substrate is touched, water moves out freely from top to bottom.
4	wet: water is not easily observed. When the substrate is touched, there is very little movement of water from top to bottom.
3	moist: the substrate is black but not glistening. When the substrate is touched, there is water, but virtually no water movement.
2	medium: the substrate turns from dark to medium brown. There is no water movement when touched.
1	dry: the substrate changed color to very light brown.

Culture stages Cuttings / Seeds

	callus development / germ1, radicle emergence
	root development / germ2, cotyledon expansion
	leaf development / plug bulking
	plug finishing / plug finishing

ST	sticking URC
RD	root development
SC ₀	sowing no Vermiculite cover
SC ₁	sowing plus light Vermiculite cover
SC ₂	sowing plus medium Vermiculite cover
SC ₃	sowing plus thick Vermiculite cover
RE	radicle emergence
Cot	cotyledon
M ₁	mist day and night
M ₂	mist day – dry night
W	end mist
FC	fleece cover
PC	plastic cover
L	lift cover
G	gapping
TP	transplanting
T	yp1 transplanting
C	cover to protect from frost
PGR	PGR treatment (spray)
PD	PGR treatment (drench) or heavy spray
✕	pinch
DB	disbud
P	potting
S	spacing
F	flowering
LF	leaf removal and maintenance