



CROP MANUAL

Verbena hybrida Lanai








South Europe
Central Europe
North Europe



Lanai

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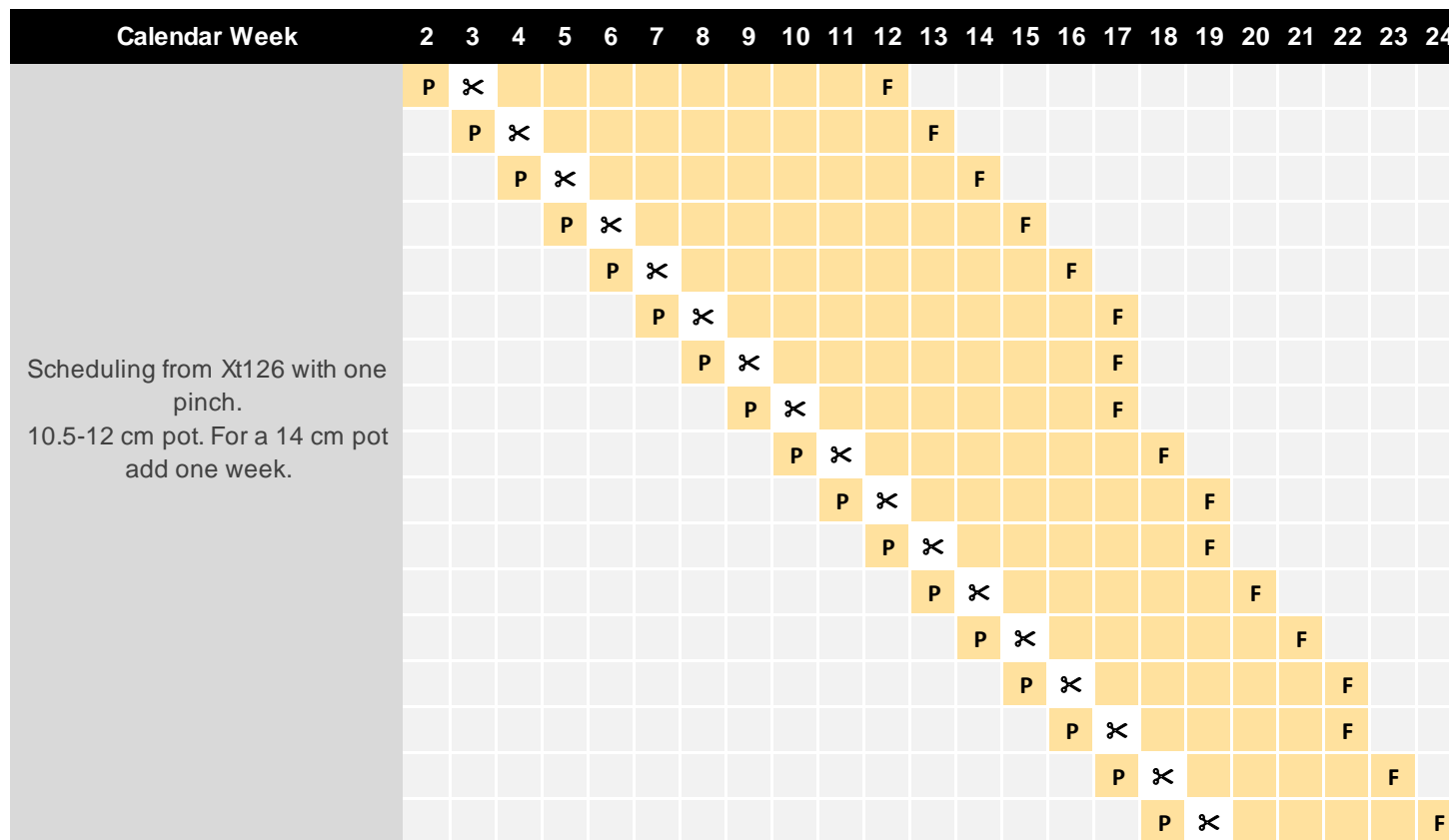
Finished Plant Lanai 10,5 – 14 cm pot

Series 	Type 	Leaf colour 	Pot size 	Plants/m ² finished 
Lanai®	Trailing	green	10.5–14 cm- H.Basket	50 - 20 plants/m ²
Lanai® Up	Erect	green	10.5–14 cm	50 - 20 plants/m ²
Magelana	Compact	green	10,5–12 cm	50 - 30 plants/m ²






Remarks

Schedule depends on temperature and light and can vary from on 1 to 2 weeks depending on those factors.

Lanai young plants from Syngenta Flowers are delivered unpinched compared to Lanai Up which are pinched.



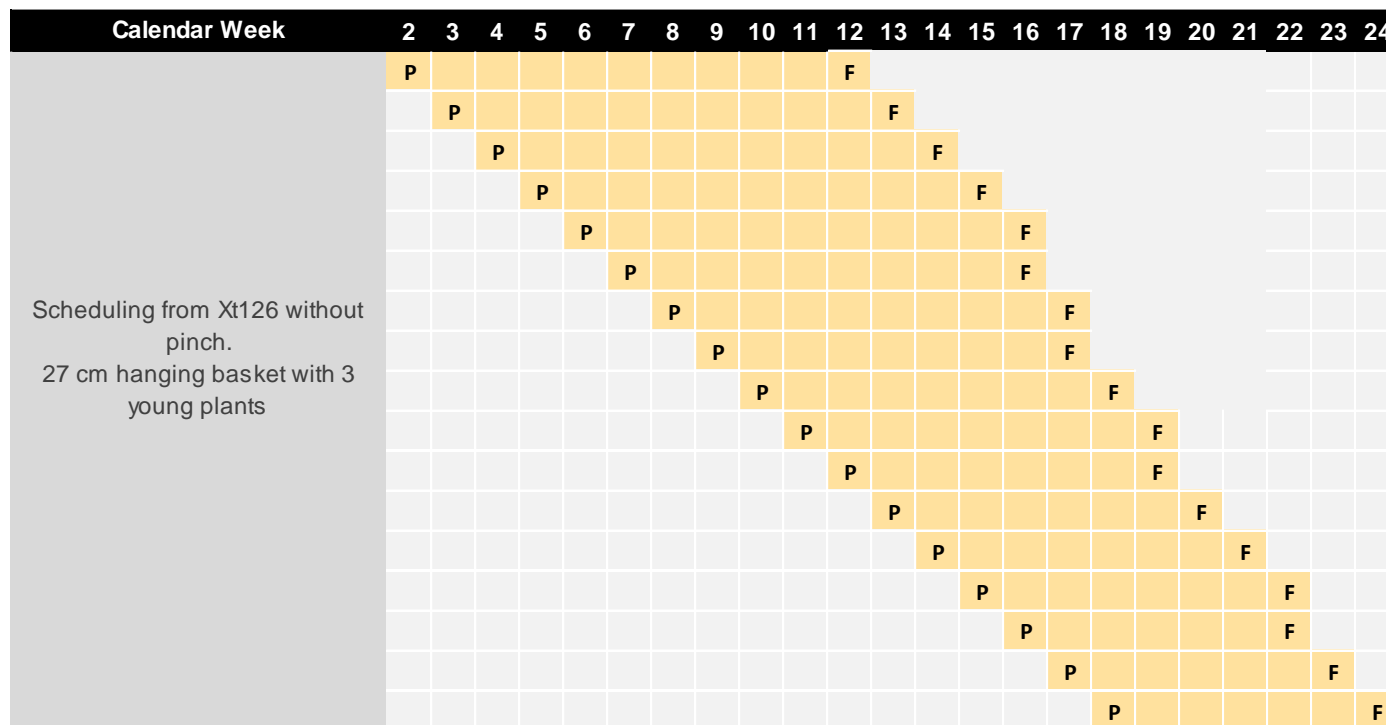
Finished Plant Lanai Hanging Basket

Series 	Type 	Leaf colour 	Pot size 	Plants/m ² finished 
Lanai®	Trailing	green	10.5–14 cm- H.Basket	50 - 20 plants/m2
Lanai® Up	Erect	green	10.5–14 cm	50 - 20 plants/m2
Magelana	Compact	green	10,5–12 cm	50 - 30 plants/m2

Remarks

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Cultivation Advice

Select your genetic based on the final use. Magelana and Lanai Up are preferred in small pots. Lanai Up is recommended for high density. Lanai is a trailing variety and will express better in hanging basket but is also usable in pots with one pinch and/or peltaclip.



Fertilization & Substrate

Important to keep EC levels of the growing media in the range of 1.5 - 2.0. Measure the EC every week. If EC in the substrate is above 2,0 - use clear water or fertilize with EC < 1,0 until the EC in the substrate is at desired level. Increase the N:K relation to 1:3 after 4 weeks to improve the compact habit of the crop. The use of potassium phosphite (KH_2PO_3) will strengthen the plant against disease. Use a well drained substrate.



Diseases

Common diseases : Botrytis, Powdery Mildew : although Syngenta varieties are powdery mildew tolerant, keep an eye on it.



Pests

Common pests : Aphids, Thrips, Spider Mites



Irrigation

To increase the control of the growth and plant habit, the culture needs to be kept on the dry side moisture level 2 - 3, instead of 3 - 4, after the plants have established sufficient root mass.



PGR Applications

PGR are not necessary in hanging baskets. In pots prefer colder temperature or DIF. If needed you can use Alar/daminozide.






Recommendations

Culture guideline at optimum average daily temperature 12-14°C :





Culture week	1	2	3	4	5	6	7	8	9	10
Handling										
Temperature D/N	16-18°C		12-14°C							
Light						☀				
Shading					full light					
Humidity					50-70%					
Moisture					3-2					
pH					5.8-6.0					
EC growing medium	1-1.25 mS/cm		1.5 mS/cm							
EC feeding in mS/cm	1.5 mS/cm		2,0 mS/cm							
Fertilizer	K 1 : 1				N : K 1 : 1,5					

Legend







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










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







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




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

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/m2
	2 shading > 450 W/m2
	3 shading > 750 W/m2

ST	sticking URC	PC	plastic cover
RD	root development	L	lift cover
SC₀	sowing no Vermiculite cover	G	gapping
SC₁	sowing plus light Vermiculite cover	TP	transplanting
SC₂	sowing plus medium Vermiculite cover	T	ypl transplanting
SC₃	sowing plus thick Vermiculite cover	C	cover to protect from frost
RE	radicle emergence	PGR	PGR treatment (spray)
Cot	cotyledon	PD	PGR treatment (drench) or heavy spray
M₁	mist day and night	<	pinch
M₂	mist day – dry night	DB	disbud
W	end mist	P	potting
FC	fleece cover	S	spacing
PC	plastic cover	F	flowering
		LF	leaf removal and maintenance