



## CROP MANUAL

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# Verbena hybrida Lanai

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South Europe  
Central Europe  
North Europe



Lanai

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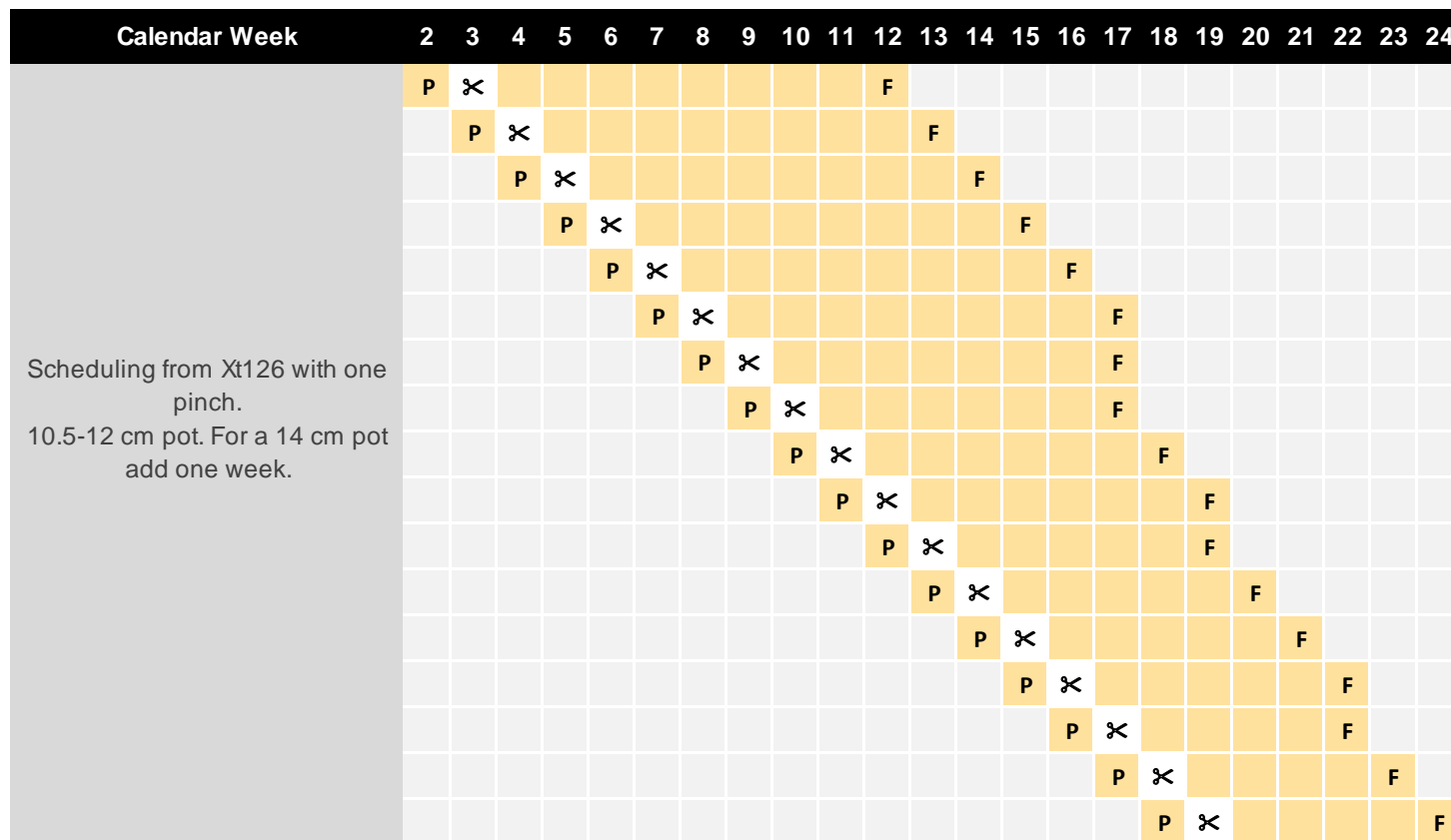
# Finished Plant Lanai 10,5 – 14 cm pot

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






## 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.



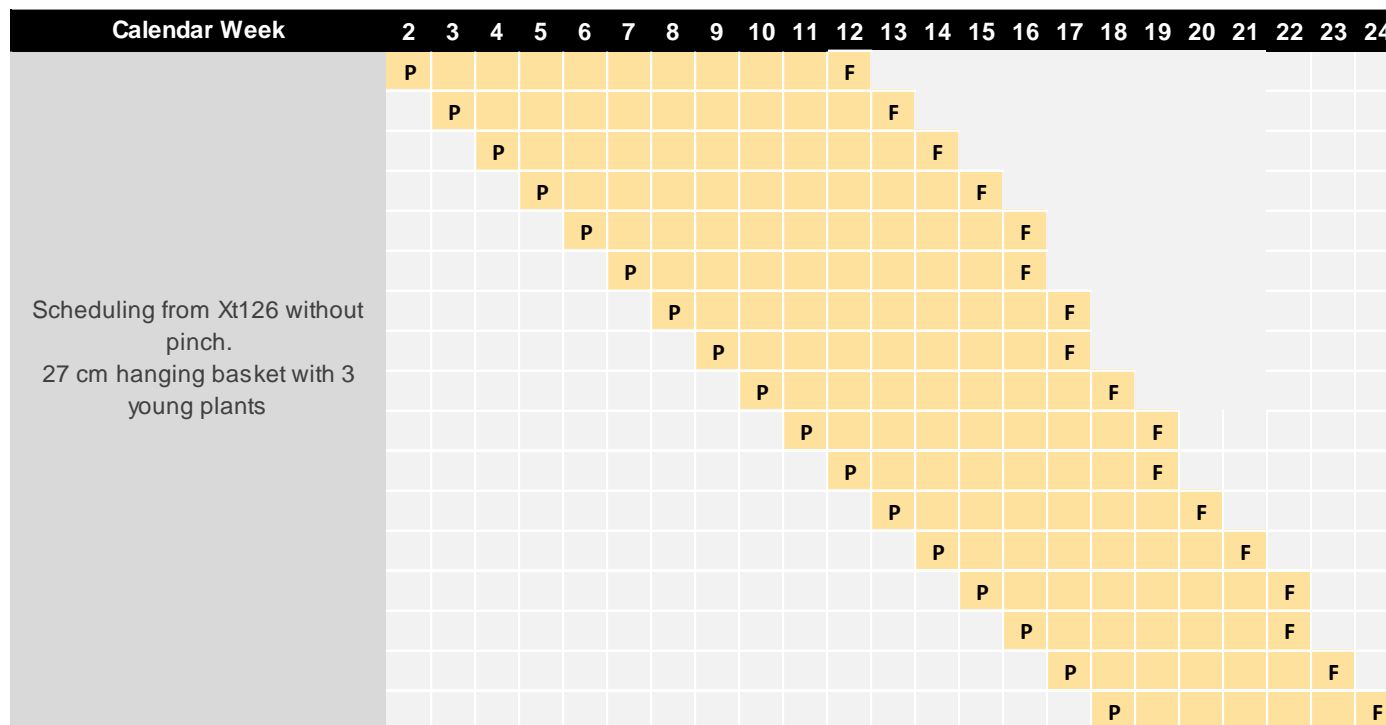
# Finished Plant Lanai Hanging Basket

Series 	Type 	Leaf colour 	Pot size 	Plants/m <sup>2</sup> 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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Lanai young plants from Syngenta Flowers are delivered unpinched compared to Lanai Up which are pinched.



# 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 ( $\text{KH}_2\text{PO}_3$ ) 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

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

	<b>1</b> 0,5-1,0 mS/cm
	<b>2</b> 1,0-1,5 mS/cm
	<b>3</b> 1,5-2,0 mS/cm
	<b>4</b> 2,0-2,5 mS/cm
	<b>5</b> 2,5-3,0 mS/cm
	<b>6</b> 3,0-3,5 mS/cm







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

	<b>1</b> 0,5-0,75 mS/cm
	<b>2</b> 0,75-1,0 mS/cm
	<b>3</b> 1,0-1,25 mS/cm
	<b>4</b> 1,25-1,5 mS/cm
	<b>5</b> 1,5-1,75 mS/cm
	<b>6</b> 1,75-2,0 mS/cm
	<b>7</b> 2,0-2,25 mS/cm




### Temperature zones

	<b>1</b> 0-5°C
	<b>2</b> 5-8°C
	<b>3</b> 8-12°C
	<b>4</b> 12-14°C
	<b>5</b> 14-16°C
	<b>6</b> 16-18°C
	<b>7</b> 18-20°C
	<b>8</b> 20-22°C
	<b>9</b> >22°C

### Light zones

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

### Shading

	<b>1</b> shading > 250 W/m2
	<b>2</b> shading > 450 W/m2
	<b>3</b> shading > 750 W/m2

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