



## CROP MANUAL

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# Leucanthemum maximum

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Central Europe



Western Star

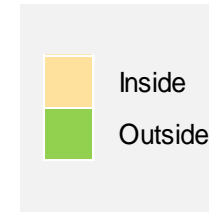
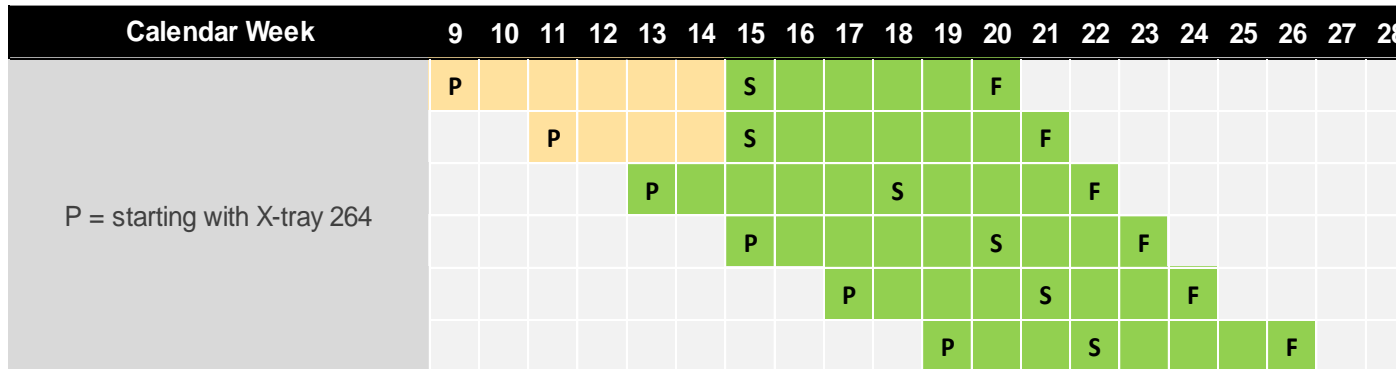
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# Finished Plant **Leucanthemum**

Series 	Type 	Leaf colour 	Pot size 	Plants/pot	Potting week	Flowering weeks
Western Star Leo	cutting	dark green	12–14 cm	1-3	9-23	June - August
Western Star Taurus & Libra	cutting	dark green	15–19 cm	1-3	9-23	June - August
Western Star Vanilla	cutting	dark green	12–19 cm	1-3	9-23	June - August

## Remarks

Next to Western Star Series also available: Broadway Lights - light yellow flowers on dark green leaves, 2 to 4 weeks later than Western Star, only for 15 to 19 cm pot



# Cultivation Advice

"Taurus" and "Libra" for bigger pots (15 to 19 cm), "Leo" for smaller pots (12 to 14 cm). Taurus and Libra can fill 19 cm pot with 1 YPL (X-tray 128) but have to be pinched, 3 YPL for a premium product without pinching (earlier flowering). New "Vanilla" is a medium type. Light yellow can turn into white in difficult circumstances (e.g. too much radiation). Outdoor production from week 15-16 onwards gives much more compact, "strong" quality than finishing indoor. Finishing indoor needs more PGR. Complete outdoor production works well without PGR.



## Fertilization & Substrate

Well drained substrate, 3-4 kg slow release fertilizer



## Spacing

Spacing as soon as possible, especially when starting early in greenhouse.



## Light

Always full sunlight but be aware of Vanilla: Color might switch to white in case of too much radiation



## Pests

Aphids, Spider Mites, Thrips



## Diseases

Powdery Mildew






# Recommendations

## Culture guideline subject to temperature





Culture week	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Handling	P		S	S				F	F	F	F	F		
Temperature D/N	protect against frost													
Light	not required													
Shading	full sun, after hardening off, plants can handle full sunlight													
Humidity	<80%													
Moisture	3													
pH	5,8–6,8													
EC growing medium 1: 1.5 volume extraction in water	1,25 - 1,50 mS/cm													
EC feeding in mS/cm	1,5-2,0 mS/cm													
Fertilizer	NPK 10-52-10						NPK 18-10-18							

## 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>&gt;C</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