CROP MANUAL

Leucanthemum maximum

Central Europe

Western Star

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**Finished Plant** **Leucanthemum**

<table>
<thead>
<tr>
<th>Series</th>
<th>Type</th>
<th>Leaf colour</th>
<th>Pot size</th>
<th>Plants/pot</th>
<th>Potting week</th>
<th>Flowering weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Star Leo</td>
<td>cutting</td>
<td>dark green</td>
<td>12–14 cm</td>
<td>1-3</td>
<td>9-23</td>
<td>June - August</td>
</tr>
<tr>
<td>Western Star Taurus &amp; Libra</td>
<td>cutting</td>
<td>dark green</td>
<td>15–19 cm</td>
<td>1-3</td>
<td>9-23</td>
<td>June - August</td>
</tr>
<tr>
<td>Western Star Vanilla</td>
<td>cutting</td>
<td>dark green</td>
<td>12–19 cm</td>
<td>1-3</td>
<td>9-23</td>
<td>June - August</td>
</tr>
</tbody>
</table>

**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

**Calendar Week**

| Calendar Week | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|---------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| P             |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
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| P             |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| P             |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

P = starting with X-tray 264

**Inside**

**Outside**
"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

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# Recommendations

## Culture guideline subject to temperature

<table>
<thead>
<tr>
<th>Culture week</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
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</thead>
<tbody>
<tr>
<td>Handling</td>
<td>P</td>
<td>S</td>
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<tr>
<td>Temperature D/N</td>
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<td>protect against frost</td>
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<tr>
<td>Light</td>
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<td>not required</td>
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<tr>
<td>Shading</td>
<td>full sun, after hardening off, plants can handle full sunlight</td>
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<tr>
<td>Humidity</td>
<td>&lt;80%</td>
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<td>Moisture</td>
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<tr>
<td>pH</td>
<td>5.8–6.8</td>
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<tr>
<td>EC growing medium 1: 1.5 volume extraction in water</td>
<td></td>
<td>1.25 - 1.50 mS/cm</td>
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<tr>
<td>EC feeding in mS/cm</td>
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<td>1.5-2.0 mS/cm</td>
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<tr>
<td>Fertilizer</td>
<td>NPK 10-52-10</td>
<td>NPK 18-10-18</td>
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</table>

## Legend

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

### Culture stages Cuttings / Seeds
- **cutting 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

### Temperature zones
- **1** 0–6°C
- **2** 6–12°C
- **3** 12–14°C
- **4** 14–16°C
- **5** 16–18°C
- **6** 18–20°C
- **7** 20–22°C
- **8** >22°C

### Shading
- **1** shading > 250 W/m²
- **2** shading > 450 W/m²
- **3** shading > 750 W/m²

### 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

### 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

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**Leucanthemum maximum**