Pelargonium x hortorum

Central Europe
North Europe

Hortorum varieties from seed to finished
## Finished Plant Pelargonium

<table>
<thead>
<tr>
<th>Series</th>
<th>Leaf colour</th>
<th>Minimum germ</th>
<th>Seeds per plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tornado</td>
<td>green</td>
<td>90%</td>
<td>1</td>
</tr>
<tr>
<td>Bulls eye</td>
<td>bronze</td>
<td>90%</td>
<td>1</td>
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<tr>
<td>Maverick</td>
<td>green</td>
<td>90%</td>
<td>1</td>
</tr>
<tr>
<td>Multibloom</td>
<td>green</td>
<td>90%</td>
<td>1</td>
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<tr>
<td>Orbit</td>
<td>green</td>
<td>90%</td>
<td>1</td>
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<tr>
<td>Pinto</td>
<td>green</td>
<td>90%</td>
<td>1</td>
</tr>
<tr>
<td>Ringo 2000</td>
<td>green</td>
<td>90%</td>
<td>1</td>
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</tbody>
</table>

### Remarks

Coated seed.

### Temperature dependent culture weeks

<table>
<thead>
<tr>
<th>Calendar Week</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
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<th>14</th>
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Temperature dependent culture weeks:

- Weekly
Cultivation Advice

Alter temperature setpoints according to light levels. In fall and winter, light levels are generally low and temperature setpoints are best decreased for optimum plant quality. Please note that lower temperatures will increase culture time.

Finish Bulking/Flower Initiation: Optimum conditions during the vegetative period, beginning at transplant, needed for the root to reach the edge of the container AND to make the plant receptive to flower initiation.

Fertilization & Substrate
pH: 6.2 – 6.5. Low pH symptoms include yellowing of leaves, interveinal chlorosis and necrosis. EC: 1.2 – 1.5 High salts may encourage roots to become very brittle.

Tips & Tricks
Time frame when plants are receptive to flower initiation: Days 18 – 24; 4 – 6 leaves present.

Light
Light and temperature trigger flowering. Geraniums are light accumulators, the more light received, the faster the growth and earlier the flowering. DIF treatments may negate flowering.

Irrigation
Alternate between moisture levels wet (4) and moist (3). Allow media to approach level (3) before re-saturating to level (4). Excessive drying of the media moisture level will concentrate salts around the root system and burn the root hairs. Symptoms of excessive drying include lower leaves turning reddish to yellow, and root tip die-back.

PGR Applications
CCC 1,5 g/l, 1-3 times/week, NOTE: Do not apply Cycocel after the buds have emerged above the foliage. Small and/or malformed flowers will result from late applications of Cycocel. Also responds to Bonzi (paclobutrazol), BNine/Cycocel (chlormequat chloride) tank mix.

Pests
Preventive insecticide:Thrips

Diseases
Preventive fungicide against soil borne diseases like, Pythium, Rhizoctonia, rust and alternaria. Preferred products depend on the country.

Pelargonium x hortorum
## Recommendations

<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>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
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<tbody>
<tr>
<td>Handling</td>
<td>P</td>
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<tr>
<td>Temperature D/N</td>
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<td>16–18°C</td>
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<td>Temperature D/N</td>
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<td>10–14°C</td>
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<td>Light</td>
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<td>15 – 20 total mols</td>
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<td>Shading</td>
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<td>pH</td>
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<td>6,0–6,5</td>
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<td>EC growing medium</td>
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<td>0.75 - 1.0 mS/cm</td>
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<td>EC feeding in mS/cm</td>
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<td>1,0-1,5 mS/cm</td>
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<tr>
<td>Fertilizer</td>
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<td>N : K 1 : 1,5-1 : 2</td>
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### Legend

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

- **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

### Shading

- 1: shading > 250 Wm2
- 2: shading > 450 Wm2
- 3: shading > 750 Wm2

### Pelargonium x hortorum