Cyclamen Crop
Manual

Easy to use crop guides for
• Series Assortment & Crop Timing
• Plug production
• Finished production
• Plant Protection recommendations
## Syngenta Flowers Cyclamen Assortment

<table>
<thead>
<tr>
<th></th>
<th>Height</th>
<th>Container Size</th>
<th>Crop Time (in Weeks)</th>
<th>Foliage Color</th>
<th>Vigor Within Segment</th>
<th>Scented</th>
<th>Special Notes</th>
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</thead>
<tbody>
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<tr>
<td>Winfall</td>
<td>6-10&quot;</td>
<td>2.5-4&quot;</td>
<td>24-26</td>
<td>green</td>
<td>medium - vigorous</td>
<td>yes</td>
<td>Ideal for high density production</td>
</tr>
<tr>
<td>Silverado</td>
<td>8-10&quot;</td>
<td>2.5-4&quot;</td>
<td>24-26</td>
<td>silver</td>
<td>medium - vigorous</td>
<td>yes</td>
<td>Perfect for holiday décor and gift giving</td>
</tr>
<tr>
<td>SilverHeart</td>
<td>8-10&quot;</td>
<td>2.5-4&quot;</td>
<td>24-26</td>
<td>green w/ silver heart</td>
<td>medium - vigorous</td>
<td>yes</td>
<td>Strong garden performer that handles heat and frost</td>
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<tr>
<td><strong>INTERMEDIATE</strong></td>
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</tr>
<tr>
<td>Laser Synchro</td>
<td>10-12&quot;</td>
<td>4-5&quot;</td>
<td>26-28</td>
<td>green</td>
<td>medium</td>
<td>yes</td>
<td>Featuring the most uniform and well-matched Laser colors</td>
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<tr>
<td>Laser</td>
<td>10-12&quot;</td>
<td>4-5&quot;</td>
<td>26-28</td>
<td>green</td>
<td>medium</td>
<td>yes</td>
<td>Classic colors to compliment Laser Synchro</td>
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<tr>
<td>Perfetto</td>
<td>10-12&quot;</td>
<td>4-5&quot;</td>
<td>28-30</td>
<td>green</td>
<td>medium - vigorous</td>
<td>yes</td>
<td>Large flower size with compact plant habit</td>
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<tr>
<td>Sterling</td>
<td>10-12&quot;</td>
<td>4-5&quot;</td>
<td>27-29</td>
<td>silver</td>
<td>medium - vigorous</td>
<td></td>
<td>Unique silvery foliage</td>
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<td><strong>STANDARD</strong></td>
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<tr>
<td>Sierra Synchro</td>
<td>12-14&quot;</td>
<td>5-6.5&quot;</td>
<td>28-32</td>
<td>green</td>
<td>medium</td>
<td></td>
<td>Extremely uniform and synchronized flowering</td>
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<tr>
<td>Sierra</td>
<td>12-14&quot;</td>
<td>5-6.5&quot;</td>
<td>28-32</td>
<td>green</td>
<td>medium</td>
<td></td>
<td>Classic colors to compliment Sierra Synchro</td>
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<tr>
<td>Rainer</td>
<td>14-16&quot;</td>
<td>5-8&quot;</td>
<td>31-35</td>
<td>green</td>
<td>vigorous</td>
<td></td>
<td>Well branched, vigorous habit sizes up in late winter, early spring</td>
</tr>
<tr>
<td>Winter Ice</td>
<td>12-14&quot;</td>
<td>5-8&quot;</td>
<td>28-32</td>
<td>silver</td>
<td>medium - vigorous</td>
<td></td>
<td>Distinct silver foliage on strong, full plants</td>
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<tr>
<td>Friller</td>
<td>12-14&quot;</td>
<td>5-6.5&quot;</td>
<td>29-34</td>
<td>green</td>
<td>medium</td>
<td></td>
<td>Fringed petals on early, uniform flowering plants</td>
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<tr>
<td>Fleur En Vogue</td>
<td>12-14&quot;</td>
<td>5-6.5&quot;</td>
<td>28-33</td>
<td>green</td>
<td>medium</td>
<td></td>
<td>Unique umbrella-like blooms</td>
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</table>
## Cyclamen persicum – Plug Production

**Tray Size:** 288 & 128 cell size or similar sized tray  
**Seeds per cell:** 1 seed  
**Plug crop time:** 10 - 12 weeks

<table>
<thead>
<tr>
<th>Days</th>
<th>STAGE 1</th>
<th>STAGE 2</th>
<th>PLUG BULKING</th>
<th>PLUG FINISHING</th>
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<td>1st leaf</td>
<td>54-57°F (12-14°C)</td>
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<td>51</td>
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<td>1-2 leaves</td>
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<td>81</td>
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</tbody>
</table>

**NOTES**

* Temperatures over 68°F will result in non-uniform germination
** Total Darkness required for germination
PGR: daminozide (B-nine®, Dazide®) Apply at plug bulking stage if needed to tone
Common Diseases: Botrytis, Fusarium, Erwinia, Cylindrocarpon, Gloeosporium
Common Pests: Aphids, Thrips, Cyclamen mites, Fungus gnats and Shore Flies

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* VC = vermiculite covering  
  FC = fleece covering on trays  
  L = lift off covering  
  TP = transplant (patch)
Cyclamen persicum – Plug Production

**Tray Size:** 60 - 72 cell size tray  **Seeds per cell:** 1 seed  **Plug Crop Time:** 13 -15 weeks

<table>
<thead>
<tr>
<th>Days</th>
<th>PLUG BULKING</th>
<th>PLUG FINISHING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Days 1-69, see Cyclamen plug 288-128</td>
<td></td>
</tr>
<tr>
<td>Crop Profile</td>
<td>1-2 leaves</td>
<td>3-4 leaves</td>
</tr>
<tr>
<td>Handling</td>
<td>TP</td>
<td></td>
</tr>
<tr>
<td>Temperature (ADT)</td>
<td>61-64°F (16-18°C)</td>
<td>54-57°F (12-14°C)</td>
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<tr>
<td>Darkness / Day length</td>
<td>☀ Natural day length</td>
<td></td>
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<tr>
<td>Light</td>
<td>10-15 mol/cm²/day, additional HID light is needed if light levels is &lt; 5 mol/cm²/day</td>
<td></td>
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<tr>
<td>Shading</td>
<td>600-700 W/m²</td>
<td></td>
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<tr>
<td>Humidity</td>
<td>50-70%</td>
<td></td>
</tr>
<tr>
<td>Moisture Levels</td>
<td>3-2</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>5.8-6.0</td>
<td></td>
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<tr>
<td>EC - growing medium (1:1.5 volume extraction in water)</td>
<td>0.8-1.0 mS/cm</td>
<td></td>
</tr>
<tr>
<td>EC - fertilizer (mS/cm)</td>
<td>1.8 mS/cm</td>
<td></td>
</tr>
<tr>
<td>Fertilizer (ratio of N:K)</td>
<td>N : K 1 : 3</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES**

**PGR:** daminozide (B-nine®, Dazide®) Apply at plug bulking stage if needed to tone

**Common Diseases:** Botrytis, Fusarium, Erwinia, Cylindrocarpon, Gloeosporium

**Common Pests:** Aphids, Thrips, Cyclamen mites, Fungus gnats and Shore Flies

**TP:** transplant from 288 or 128 cell tray
Cyclamen persicum – Finished Production
Miniature and Intermediate Series

Culture guideline at optimum average daily temperature 62-64°F:

<table>
<thead>
<tr>
<th>Weeks</th>
<th>Handling</th>
<th>P*</th>
<th>S</th>
<th>F</th>
<th>F</th>
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</table>

**Important:** Alter temperature set points according to light levels. In fall and winter light levels generally are low and temperature set points are best decreased for optimum plant quality. Please note that lower temperatures will increase culture.*Plant plugs with 1/3 of the corm above soil level.

**PGR:** If needed daminozide (B-nine, Dazide), paclobutrazol (Bonzi)

**Common Diseases:** Botrytis, Chalara, Colletotrichum, Erwinia (bacterial soft rot), Fusarium oxysporum, Phytophthora, Pythium, Rhizoctonia, Cylindrocarpon

**Common Pests:** Aphids, caterpillars (Duponchelia), Thrips, Cyclamen mites, Fungus gnats and Shore Flies

<table>
<thead>
<tr>
<th>Weeks</th>
<th>Temperature (ADT)</th>
<th>62-64°F (16-18°C)</th>
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<tbody>
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</table>

**Light**
10-15 mol/cm²/day; additional HID light is benificial to promote flowering if light level is < 5 mol/cm²/day

**Shading**
600-700 W/m²

**Humidity**
50-70%

**Moisture Levels**
3

**pH**
6.0-6.2

**EC - growing medium**
(1:1.5 volume extraction in water)
0.8-1.0 mS/cm

**EC - fertilizer (mS/cm)**
1.5 mS/cm

**Fertilizer (ration of N:K)**
N : K 1 : 2

**P = Potting**

**S = Space**

**F= Flowering**

500-600 W/m²
**Cyclamen persicum – Finished Production Standard Series**

**Culture guideline at optimum average daily temperature 62-64°F:**

| Weeks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|
| Handling | P | | S | | | | | | | | | | | | | | | | |
| Temperature (ADT) | 62-64°F (16-18°C) | | | | | | | | | | | | | | | | | | |
| Light | 10-15 mol/cm²/day, additional HID light is beneficial to promote flowering if light level is < 5 mol/cm²/day | | | | | | | | | | | | | | | | | | |
| Shading | 600-700 W/m² | | | | | | | | | | | | | | | | | |
| Humidity | 50-70% | | | | | | | | | | | | | | | | | |
| Moisture Levels | 3 | 3-2 | | | | | | | | | | | | | | | | |
| pH | 6.0-6.2 | | | | | | | | | | | | | | | | | |
| EC - growing medium (1:1.5 volume extraction in water) | 0.75-1.0 mS/cm | | | | | | | | | | | | | | | | | 1.2 mS/cm |
| EC - fertilizer (mS/cm) | 1.8 mS/cm | | | | | | | | | | | | | | | | | 2.5mS/cm |
| Fertilizer (ratio of N:K) | N : K 1 : 2 | | | | | | | | | | | | | | | | | N : K 1 : 3 |

**Important:** Alter temperature set points according to light levels. In fall and winter light levels generally are low and temperature set points are best decreased for optimum plant quality. Please note that lower temperatures will increase culture.

*Plant plugs with 1/3 of the corm above soil level

**PGR:** If needed daminozide (B-nine, Dazide), paclobutrazol (Bonzi)

**Common Diseases:** Botrytis, Chalara, Colletotrichum, Erwinia (bacterial soft rot), Fusarium oxysporum, Phytophthora, Pythium, Rhizoctonia, Cylindrocarpon

**Common Pests:** Aphids, caterpillars (Duponchelia), Thrips, Cyclamen mites, Fungus gnats and Shore Flies can be vectors for Fusarium,
# Cyclamen persicum – Plant Protection Recommendations

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>APPLICATION</th>
<th>TARGET</th>
<th>RATE</th>
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<tbody>
<tr>
<td><strong>Fungicides</strong></td>
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<tr>
<td>Daconil Ultrex® or Daconil Weatherstik®</td>
<td>Spray</td>
<td>Anthracnose, Botrytis, Fusarium, Leaf spots (Phyllosticta &amp; Ramularia)</td>
<td>22 oz/100 gal</td>
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<tr>
<td>Heritage®</td>
<td>Spray</td>
<td>Anthracnose, Fusarium</td>
<td>1-4 oz/100 gal</td>
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<tr>
<td>Heritage</td>
<td>Spray</td>
<td>Botrytis</td>
<td>4-8 oz/100 gal</td>
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<tr>
<td>Heritage</td>
<td>Drench</td>
<td>Fusarium, Rhizoctonia</td>
<td>0.2-0.9 oz/100 gal</td>
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<td>Medallion® WDG</td>
<td>Spray</td>
<td>Botrytis, Rhizoctonia</td>
<td>1-4 oz/100 gal</td>
</tr>
<tr>
<td>Medallion WDG</td>
<td>Drench</td>
<td>Fusarium, Rhizoctonia, Thielaviopsis</td>
<td>1-2 oz/100 gal</td>
</tr>
<tr>
<td>Micora®</td>
<td>Spray/Drench</td>
<td>Phytophthora</td>
<td>4-8 floz/100 gal</td>
</tr>
<tr>
<td>Palladium®</td>
<td>Spray</td>
<td>Leafspots, Rhizoctonia aerial blight</td>
<td>2-4 floz/100 gal</td>
</tr>
<tr>
<td>Palladium</td>
<td>Spray</td>
<td>Botrytis</td>
<td>4-6 floz/100 gal</td>
</tr>
<tr>
<td>Subdue Maxx®</td>
<td>Drench</td>
<td>Phytophthora, Pythium</td>
<td>1 floz/100 gal</td>
</tr>
<tr>
<td><strong>Insecticides</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Avid®</td>
<td>Spray</td>
<td>Aphids, Cyclamen mite and other species, Thrips</td>
<td>8 floz/100 gal (8-16 floz/Acre)</td>
</tr>
<tr>
<td>Flagship® 25WG</td>
<td>Spray/Drench</td>
<td>Aphids, Fungus gnats, Thrips</td>
<td>4-8 oz/100 gal</td>
</tr>
<tr>
<td>Citation®</td>
<td>Spray/Drench</td>
<td>Fungus gnats, Shore flies</td>
<td>2.66 oz/100 gal</td>
</tr>
<tr>
<td>Endeavor®</td>
<td>Spray</td>
<td>Aphids</td>
<td>2.5-5 oz/100 gal</td>
</tr>
<tr>
<td>Mainspring™</td>
<td>Spray</td>
<td>Aphids, Thrips</td>
<td>1-16 floz/100 gal</td>
</tr>
<tr>
<td>Mainspring</td>
<td>Drench</td>
<td>Aphids, Thrips</td>
<td>12 floz/100 gal</td>
</tr>
</tbody>
</table>

**Common Diseases:** Leaf spots (Phyllosticta, Ramularia), Anthracnose (Gloeosporium, Glomerella, Colletotrichum), Botrytis, Fusarium (Nectria), Rhizoctonia, Thielaviopsis, Erwinia,

**Tospovirus:** INSV

**Common Pests:** Aphids, cyclamen mites, fungus gnats, shore flies, thrips
## Cyclamen persicum – Bioline Recommendations

<table>
<thead>
<tr>
<th>TARGET PEST</th>
<th>BIOLOGICAL CONTROL AGENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thrips, Cyclamen mites</td>
<td>Amblyline (Amblyseius cucumeris) CRS mini sachets (one sachet per pot/once) or broadcast loose from bottle (10 mites per sq foot weekly)</td>
</tr>
<tr>
<td></td>
<td>In propagation: 1 Amblyline CRS mini per plug tray</td>
</tr>
<tr>
<td>Aphids (green peach, potato aphid and foxglove aphid)</td>
<td>Aphiline ACE: Contains 3 different species of wasps</td>
</tr>
<tr>
<td></td>
<td>Aphiline C (Aphidius colemani – GP aphid)</td>
</tr>
<tr>
<td></td>
<td>Aphiline E (Aphidius ervi – PA and FG aphids)</td>
</tr>
<tr>
<td></td>
<td>0.05 – 0.1 wasp per sq foot weekly until controlled</td>
</tr>
<tr>
<td>Fungus gnats and shore fly</td>
<td>Hypoline (Hypoaspis miles) 10 mites per sq foot + Staphyline (Atheta coriaria) 0.2 beetles per sq foot</td>
</tr>
<tr>
<td></td>
<td>One release in propagation, once again after transplanting</td>
</tr>
<tr>
<td>Fungus gnats</td>
<td>Exhibitline SF (Steinernema feltiea) 25000 S.f. per sq foot as drench in propagation (250 million per 10000 sq feet)</td>
</tr>
<tr>
<td>Plug tray dip for thrips and fungus gnats just prior to transplant</td>
<td>Exhibitline – 50 Million in 12 – 13 gallons of water</td>
</tr>
<tr>
<td></td>
<td>Often combined with Botanigard WP and Rootshield WP (fungicide for Fusarium/Pythium)</td>
</tr>
</tbody>
</table>

**Common Pests:** Aphids, cyclamen mites, fungus gnats, shore fly, thrips
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