Dear Commercial Grower,

Welcome to the latest version of our Hybrid Lily Catalog. We now offer over 100 varieties of lilies from which to choose. Included are several exciting new and exclusive varieties. Whether you grow cut or pot lilies, in greenhouses, or in the field, we have the best selection for your needs based on color and type.

In addition to Lilies, Gloeckner has the following divisions to meet all of your growing needs: Young Plants & Plugs, Grower Supplies, Seeds, Bulbs and Perennials.

Please contact your Gloeckner or Ednie Sales Field Representative directly or call our offices with your questions and orders.

With Kind regards,

Your Gloeckner-Ednie Team.

Gloeckner & Ednie Overview of Catalogs

The Fred C. Gloeckner company provides a full range of products and services to the commercial horticulture industry for the entire USA, Canada, Central, and South America.
Ordering Information

TO RECEIVE THE BEST SELECTION OF VARIETIES AND SIZES, ORDERS SHOULD BE PLACED AS EARLY AS POSSIBLE

PRICING INFORMATION: PRICES ARE IN US DOLLARS
$100 minimum order per shipment. A $3.00 charge per box/crate and shipping cost will be added to all invoices.

SPECIAL NOTE: Due to unstable exchange rates between the U.S. Dollar and the European Euro please consider these prices as guidelines. Prices are subject to change without notice.

Volume discounts may apply for large orders, please ask your Gloeckner or Ednie representative for details.

Availability

ASIATIC and LA HYBRID LILY BULBS will be available PRECOOLED and ready for shipping by late December.
ORIENTAL and OT HYBRID LILY BULBS will be available PRECOOLED and ready for shipping by mid-January.
VINTAGE LILIES will be available and ready for shipping by late January.

Hybrid Lily Bulbs can be forced year-round beginning in December. Our lily bulbs are always shipped PRECOOLED, ready for planting immediately, and will start to grow upon arrival. Please see our schedule/forcing guide for details.

Shipping

For smaller shipments we use Fedex Ground or UPS, for larger palletized truck shipments your order will be shipped via an LTL carrier.
Freight Cost is Additional: F.O.B. Clackamas, Oregon or Fredon, New Jersey
Case Dimensions: 16”x9”x24” Approximate Weight per Case: 48 lbs

Substitutions

For varieties that are unavailable, we will substitute bulbs of equal or greater value, but always the same color and cultural habit as specified on your order. If substitutes are not acceptable, please specify when placing your order.
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Contact: Martin Salaberry  
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msalaberry@bersalgrouuppy.com

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+506 888 43469  
German.tencio1@gmail.com

FloraPlant SV de CV – Mexico  
Contact: Gilberto Gomez Peltier  
+7773620152  
Gilberto@floraplant.com

Incaforest E.I.R.L. – Peru  
Contact: Maria Quevedo Guillen  
Tel: +51-12712004  
incaforest@hotmail.com

Floreska Villa Guerrero (Flor de Corte) – Mexico  
Contact: Alberto Puebla  
714 1462166  
flowskavilla@hotmail.com

For the rest of your INTERNATIONAL inquires, please contact:  
Toll Free in US:  800-345-3787  
Outside the US:  914-698-2300  
Monica Alvarez  
Ext. 133  
malvarez@fredgloeckner.com  
Amparo Galarza  
Ext. 131  
agalarza@fredgloeckner.com
<table>
<thead>
<tr>
<th>Flower</th>
<th>Height</th>
<th>12-14 cm.</th>
<th>14-16 cm.</th>
<th>3-5 buds</th>
<th>4-6 buds</th>
<th>Force wks.</th>
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<tbody>
<tr>
<td><strong>Asiatic Lilies - Cut</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Black Stone</strong></td>
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<tr>
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<td>14-16 cm.</td>
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<tr>
<td>Name</td>
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<td>3-5 buds</td>
<td>4-6 buds</td>
<td>Force wks.</td>
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<td><strong>Yellow County</strong></td>
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<td><strong>AnnMarie’s Dream</strong></td>
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<td><strong>Navona</strong></td>
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<td>6-9 buds</td>
<td>13</td>
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<tr>
<td><strong>Black Eye</strong></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>35&quot;</td>
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<td>14-16 cm.</td>
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<td>5-7 buds</td>
<td>13</td>
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### Asiatic Lilies - Cut

<table>
<thead>
<tr>
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<th>14-16 cm.</th>
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<th>4-6 buds</th>
<th>Force wks.</th>
<th>Force wks.</th>
<th>Force wks.</th>
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<tbody>
<tr>
<td><strong>Cogoleto</strong></td>
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<td></td>
<td>36&quot;</td>
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<td>4-6 buds</td>
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<tr>
<td><strong>Forever Linda</strong></td>
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<tr>
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<td><strong>Heartstrings</strong></td>
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<tr>
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<td></td>
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<td></td>
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<td>5-7 buds</td>
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<td>13</td>
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<tr>
<td><strong>Must See</strong></td>
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<td>4-6 buds</td>
<td>5-7 buds</td>
<td></td>
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</tr>
</tbody>
</table>

1-888-655-0907 Oregon
Fred C. Gloeckner - Ednie Flower Bulb
1-800-243-3643 New Jersey
Asiatic Lilies - Cut

**Orange Art**
- Height: 43" (110 cm)
- 12-14 cm: 4-5 buds in 14-16 cm: 5-7 buds
- Force wks.: 13

**Patricia’s Pride**
- Height: 37" (94 cm)
- 12-14 cm: 3-4 buds in 14-16 cm: 5-6 buds
- Force wks.: 11

**Pieton**
- Height: 45" (114 cm)
- 12-14 cm: 7-9 buds in 14-16 cm: 8-10 buds
- Force wks.: 13

**Purple Eye**
- Height: 45" (114 cm)
- 12-14 cm: 2-4 buds in 14-16 cm: 3-5 buds
- Force wks.: 13

**Tribal Dance**
- Height: 36" (91 cm)
- 12-14 cm: 4-6 buds in 14-16 cm: 6-8 buds
- Force wks.: 13

**Vermeer**
- Height: 35" (89 cm)
- 12-14 cm: 3-5 buds in 14-16 cm: 5-7 buds
- Force wks.: 13

Contact:
- 1-888-655-0907 Oregon
- 1-800-243-3643 New Jersey

Fred C. Gloeckner - Ednie Flower Bulb
### LA Lilies - Cut

<table>
<thead>
<tr>
<th>LA Lilies - Cut</th>
<th>Armandale</th>
<th>Bourbon Street</th>
<th>Corleone</th>
<th>Dimension</th>
<th>Original Love</th>
<th>Red Rock</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Height</strong></td>
<td>47&quot;</td>
<td>50&quot;</td>
<td>49&quot;</td>
<td>47&quot;</td>
<td>47&quot;</td>
<td>41&quot;</td>
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<tr>
<td><strong>14-16 cm.</strong></td>
<td>16-18 cm.</td>
<td>16-18 cm.</td>
<td>16-18 cm.</td>
<td>16-18 cm.</td>
<td>16-18 cm.</td>
<td>16-18 cm.</td>
</tr>
<tr>
<td><strong>5-7 buds</strong></td>
<td>6-8 buds</td>
<td>6-8 buds</td>
<td>3-6 buds</td>
<td>4-7 buds</td>
<td>3-6 buds</td>
<td>4-6 buds</td>
</tr>
<tr>
<td><strong>Force wks.</strong></td>
<td>11</td>
<td>14</td>
<td>14</td>
<td>13</td>
<td>13</td>
<td>10</td>
</tr>
</tbody>
</table>

- **Armandale**
  - Height: 47"
  - Height Range: 14-16 cm. to 16-18 cm.
  - Buds: 5-7
  - Force Weeks: 11

- **Bourbon Street**
  - Height: 50"
  - Height Range: 14-16 cm. to 16-18 cm.
  - Buds: 5-7
  - Force Weeks: 14

- **Corleone**
  - Height: 49"
  - Height Range: 14-16 cm. to 16-18 cm.
  - Buds: 5-6
  - Force Weeks: 12

- **Dimension**
  - Height: 49"
  - Height Range: 14-16 cm. to 16-18 cm.
  - Buds: 3-5
  - Force Weeks: 14

- **Original Love**
  - Height: 47"
  - Height Range: 14-16 cm. to 16-18 cm.
  - Buds: 3-6
  - Force Weeks: 13

- **Red Rock**
  - Height: 41"
  - Height Range: 14-16 cm. to 16-18 cm.
  - Buds: 3-5
  - Force Weeks: 10

---

**Contact Information**

- **Oregon**: 1-888-655-0907
- **New Jersey**: 1-800-243-3643
**LA Lilies - Cut**

- **Venetian**
  - Height: 50”
  - 14-16 cm.
  - 16-18 cm.
  - 3-5 buds
  - 4-6 buds
  - Force wks.: 14

- **Aygo**
  - Height: 49”
  - 14-16 cm.
  - 16-18 cm.
  - 3-5 buds
  - 4-6 buds
  - Force wks.: 13

- **Desert Inn**
  - Height: 49”
  - 14-16 cm.
  - 16-18 cm.
  - 3-5 buds
  - 4-6 buds
  - Force wks.: 13

- **Nashville**
  - Height: 41”
  - 14-16 cm.
  - 16-18 cm.
  - 2-4 buds
  - 3-5 buds
  - Force wks.: 15

- **Pavia**
  - Height: 53”
  - 14-16 cm.
  - 16-18 cm.
  - 4-6 buds
  - 5-7 buds
  - Force wks.: 13

- **Yellow Diamond**
  - Height: 37”
  - 14-16 cm.
  - 16-18 cm.
  - 4-6 buds
  - 5-7 buds
  - Force wks.: 12

1-888-655-0907 Oregon  Fred C. Gloeckner - Ednie Flower Bulb  1-800-243-3643 New Jersey
<table>
<thead>
<tr>
<th>LA Lilies - Cut</th>
<th>Arbatax</th>
<th>Batistero</th>
<th>Brindisi</th>
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<td>12</td>
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<td><strong>14-16 cm.</strong></td>
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<td>14-16 cm.</td>
<td>14-16 cm.</td>
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<tr>
<td><strong>3-5 buds</strong></td>
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<td>3-5 buds</td>
<td>3-5 buds</td>
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<tr>
<td><strong>4-6 buds</strong></td>
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<th>Merlet</th>
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<td>14</td>
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<tr>
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<td>14-16 cm.</td>
<td>14-16 cm.</td>
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<tr>
<td><strong>3-5 buds</strong></td>
<td>3-4 buds</td>
<td>3-4 buds</td>
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<td><strong>4-6 buds</strong></td>
<td>4-5 buds</td>
<td>4-5 buds</td>
<td>5-7 buds</td>
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</tbody>
</table>

1-888-655-0907 Oregon  Fred C. Gloeckner - Ednie Flower Bulb  1-800-243-3643 New Jersey
### Salmon Classic

- **Height**: 37" (~94 cm)
- **14-16 cm.**: 3-5 buds
- **16-18 cm.**: 4-6 buds
- **Force wks.**: 10

### Royal Sunset

- **Height**: 47" (~119 cm)
- **14-16 cm.**: 6-9 buds
- **16-18 cm.**: 8-11 buds
- **Force wks.**: 11

### Caesars Palace

- **Height**: 47" (~119 cm)
- **14-16 cm.**: 4-6 buds
- **16-18 cm.**: 5-7 buds
- **Force wks.**: 15

### Honesty

- **Height**: 45" (~114 cm)
- **14-16 cm.**: 4-5 buds
- **16-18 cm.**: 5-6 buds
- **Force wks.**: 11

### Millionaire

- **Height**: 47" (~119 cm)
- **14-16 cm.**: 4-6 buds
- **16-18 cm.**: 5-7 buds
- **Force wks.**: 14

### Sunderland

- **Height**: 43" (~109 cm)
- **14-16 cm.**: 4-6 buds
- **16-18 cm.**: 5-7 buds
- **Force wks.**: 12

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1-888-655-0907 Oregon

Fred C. Gloeckner - Ednie Flower Bulb

1-800-243-3643 New Jersey
LA Lilies - Cut

<table>
<thead>
<tr>
<th>Flower</th>
<th>Height</th>
<th>14-16 cm.</th>
<th>16-18 cm.</th>
<th>3-5 buds</th>
<th>4-6 buds</th>
<th>Force wks.</th>
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**White Brush**

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<td>41&quot;</td>
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**Yellow Brush**

<table>
<thead>
<tr>
<th>Height</th>
<th>14-16 cm.</th>
<th>16-18 cm.</th>
<th>5-6 buds</th>
<th>Force wks.</th>
</tr>
</thead>
<tbody>
<tr>
<td>41&quot;</td>
<td>16-18 cm.</td>
<td>6-7 buds</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>
Oriental Lilies - Cut

**Barossa**

- Height: 43" (14-16 cm. 16-18 cm.)
- 3-5 buds
- Force wks.: 14

**King Soloman**

- Height: 37" (14-16 cm. 16-18 cm.)
- 2-4 buds
- Force wks.: 14

**Red Eyes**

- Height: 37" (14-16 cm. 16-18 cm.)
- 3-5 buds
- Force wks.: 15

**Ripasso**

- Height: 39" (14-16 cm. 16-18 cm.)
- 5-7 buds
- Force wks.: 15

**Special News**

- Height: 39" (14-16 cm. 16-18 cm.)
- 4-6 buds
- Force wks.: 15

**Stargazer**

- Height: 35" (14-16 cm. 16-18 cm.)
- 2-4 buds
- Force wks.: 15

1-888-655-0907 Oregon  
Fred C. Gloeckner - Ednie Flower Bulb  
1-800-243-3643 New Jersey


**Oriental Lilies - Cut**

**Elena**
- Height: 43"
- 14-16 cm., 16-18 cm.
- 4-7 buds, 6-8 buds
- Force wks.: 15

**Grand Design**
- Height: 37"
- 14-16 cm., 16-18 cm.
- 2-4 buds, 3-5 buds
- Force wks.: 13

**Isabella**
- Height: 43"
- 14-16 cm., 16-18 cm.
- 5-6 buds, 6-7 buds
- Force wks.: 15

**Pink Zeeva**
- Height: 45"
- 14-16 cm., 16-18 cm.
- 3-5 buds, 4-6 buds
- Force wks.: 14

**Saloniki**
- Height: 35"
- 14-16 cm., 16-18 cm.
- 3-4 buds, 4-7 buds
- Force wks.: 12

**Sorbonne**
- Height: 47"
- 14-16 cm., 16-18 cm.
- 2-5 buds, 3-6 buds
- Force wks.: 15

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Fred C. Gloeckner - Ednie Flower Bulb
1-800-243-3643 New Jersey
### Oriental Lilies - Cut

<table>
<thead>
<tr>
<th><strong>Crystal Blanca</strong></th>
<th><strong>Meriva</strong></th>
<th><strong>Rialto</strong></th>
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<tr>
<td>Height</td>
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<tr>
<td><strong>Tourega</strong></td>
<td><strong>White City</strong></td>
<td><strong>White Eyes</strong></td>
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<tr>
<td>Height</td>
<td>45”</td>
<td>14-16 cm.</td>
</tr>
<tr>
<td>Height</td>
<td>43”</td>
<td>14-16 cm.</td>
</tr>
<tr>
<td>Height</td>
<td>47”</td>
<td>14-16 cm.</td>
</tr>
</tbody>
</table>

Fred C. Gloeckner - Ednie Flower Bulb
### Purple Hype
- **Height**: 47" (14-16 cm. 16-18 cm.)
- **Buds**: 4-6 buds 5-7 buds
- **Force weeks**: 14

### Madelaine
- **Height**: 38" (14-16 cm. 16-18 cm.)
- **Buds**: 3-5 buds 4-7 buds
- **Force weeks**: 16

### Tiger Edition
- **Height**: 39" (14-16 cm. 16-18 cm.)
- **Buds**: 3-4 buds 4-6 buds
- **Force weeks**: 15

### Tiger Woods
- **Height**: 39" (14-16 cm. 16-18 cm.)
- **Buds**: 4-5 buds 6-8 buds
- **Force weeks**: 17

### San Simeon
- **Height**: 43" (14-16 cm. 16-18 cm.)
- **Buds**: 3-5 buds 4-6 buds
- **Force weeks**: 15

### Virtuoso
- **Height**: 43" (14-16 cm. 16-18 cm.)
- **Buds**: 3-5 buds 4-6 buds
- **Force weeks**: 14
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<thead>
<tr>
<th>Flower</th>
<th>Height</th>
<th>Flower Size</th>
<th>Buds</th>
<th>Force Weeks</th>
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<tr>
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<td>3-5 buds</td>
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<tr>
<td></td>
<td>18-20 cm.</td>
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<td>18-20 cm.</td>
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<tr>
<td>Empoli</td>
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<td>4-6 buds</td>
<td>13</td>
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<td>18-20 cm.</td>
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<td>18-20 cm.</td>
<td>2-4 buds</td>
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<tr>
<td>Corcovado</td>
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<td>15</td>
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<tr>
<td></td>
<td>18-20 cm.</td>
<td>4-6 buds</td>
<td></td>
<td></td>
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<tr>
<td>Saltarello</td>
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<tr>
<td></td>
<td>18-20 cm.</td>
<td>5-7 buds</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**OT Lilies - Cut**

**Forever**
- Height: 43”
- 16-18 cm.
- 4-5 buds
- Force wks.: 14

**Zambesi**
- Height: 45”
- 16-18 cm.
- 4-5 buds
- Force wks.: 14

**Flashpoint**
- Height: 49”
- 16-18 cm.
- 4-6 buds
- Force wks.: 15

**Lavon**
- Height: 36”
- 16-18 cm.
- 3-4 buds
- Force wks.: 13

**Nymph**
- Height: 53”
- 16-18 cm.
- 3-5 buds
- Force wks.: 15

Photos compliments of
Kent Miles - Illinois Willows

Fred C. Gloeckner - Ednie Flower Bulb
1-800-243-3643 New Jersey
**Cut Lily Growing Instructions**

**Helpful Recommendations**

We have put together the following suggestions to help you produce an optimum crop of lilies. They are reviewed periodically as more research become available and when the industry brings new ideas that are very helpful.

*Most of the information is derived from research by several leading universities. Our helpful recommendations are a combination of their information, our own research and trials of various cooling methods.*

**General**

Most of the following instructions are the same for lilies grown indoors as well as outdoors. If they differ attention will be made with OUTDOOR and or INDOOR. If special attention need to be made to certain group, it will be mentioned as well.

**INDOOR:** A year-round program is possible if additional lighting is available during the darker months (less than twelve hours daylight). Forcing time varies greatly. Lilies are dug in late fall or early winter, stored in our warehouse coolers at approximately 29 degrees fahrenheit and are available year-round.

If more assistance is needed or you have any questions, please feel free to contact us anytime. Your success is our success.

**Growing Medium**

**INDOOR in CRATES:** Media should be sterile, well-drained and have a pH of 6 to 6.5. Soilless mixes that are used should be checked for pH. It is imperative that the pH and the salt levels are checked weekly during the growing time. This may prevent problems. This is especially important to establish a fertilizer program.

“Clean” soil mixes are becoming more and more difficult to obtain. Several mixes can be recommended. However, each mix should be tested in the greenhouses environment, since each greenhouse has different elements such as pH of water etc.

Some growers have excellent results with Coconut Coir (special processed pith of coconut). It adds real value to the mix (soil or soilless). Results of adding Coconut Coir (up to 30%) to the medium are: cleaner, whiter roots and darker green, healthier plants.

Some recommended mixes are:

* Berger Soil BM1 plus lime, for greenhouses with lower pH’s.
* Berger Soil BM 7, for greenhouses with higher pH’s. Metro Mix 360
* Sunshine Mix
* Or any other soils that are similar

**INDOOR in GROUND BEDS and OUTDOOR:** Ground beds and outside soils should be adjusted as much as possible to create the environment mentioned for growing in crates.

**Growing (Forcing) & Temperatures**

The following information is more pertinent for indoor growing, however it will explain what happens to the outside crops as well. Most lily varieties can be grown year-round. It is important to understand that the plants will react differently in darker months than warm bright summer months. Growing time for all lilies can be divided into three phases:

**Phase 1:** This starts when plants are placed in the greenhouse until the plant completes Floral Initiation. During this time keep plants on the dry side. Cooler temperatures should be maintained to ensure heavy stem growth and leaf expansion with little space between the inter nodes. This maximizes a short sturdy plant. Floral Initiation generally occurs approximately four to seven weeks after planting, depending on the total number of forcing weeks for the variety. At this time the plant is producing stem roots.

**Phase 2:** This starts after Floral Initiation is completed and ends at Bud Visible stage. Temperatures should be raised during this phase. If the plants are behind in developing, raise the temperature more.

**Phase 3:** This phase starts when buds are visible and ends when the first flowers open. The plant can run warmer if needed or cooler (step-by-step schedule) if possible, to obtain optimum quality.

**OUTDOOR:** It is difficult or sometimes not possible to regulate temperatures outside. However during hot summer months lilies can be grown under shade cloth or afternoon shade. This will greatly reduce the plant temperature.

**INDOOR:** During the bright and hot months, shading should be applied. Even during winter months leaf scorch can be prevented by pulling shade curtains on very bright sunny days after a period of dark and grey days. Also see section “Sprays”.

**Plant Densities**

<table>
<thead>
<tr>
<th>By Group</th>
<th>Planted Per</th>
<th>Size 12/14</th>
<th>Size 14/16</th>
<th>Size 16/18</th>
<th>Size 18/20</th>
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<tbody>
<tr>
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<td>Crate</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>15</td>
</tr>
<tr>
<td>Asi-Florums &amp; LA Type</td>
<td>Crate</td>
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<td>20</td>
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<td></td>
</tr>
<tr>
<td>Longiflorum &amp; LO’s</td>
<td>Crate</td>
<td>20</td>
<td>20</td>
<td>15</td>
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</tr>
<tr>
<td>Orientals &amp; OT’s</td>
<td>Crate</td>
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<td>20</td>
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</tr>
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<td>50-60</td>
<td>40-50</td>
<td>35-45</td>
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<tr>
<td>Asi-Florums &amp; LA Type</td>
<td>Sq Yard</td>
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<td>40-50</td>
<td>30-40</td>
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<tr>
<td>Longiflorum &amp; LO’s</td>
<td>Sq Yard</td>
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<td>35-45</td>
<td>30-40</td>
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<tr>
<td>Orientals &amp; OT’s</td>
<td>Sq Yard</td>
<td>40-50</td>
<td>35-45</td>
<td>30-40</td>
<td></td>
</tr>
</tbody>
</table>
Cut Lily Growing Instructions

Lights for Indoor Forcing
Lilies require a medium-to-high light intensity which occurs normally in brighter greenhouses. If plastic houses are used and the plastic is yellowing, stretching may occur. Growth regulators may be needed to control the height in potted lilies. For forcing in darker months, most lilies will need additional lighting in order for the plants to bloom. There are two types of lighting:

1. Assimilation Lighting
This is to increase the quality of the plant during the low light times of the year. After the buds reach 0.5 inch (1.5 centimeters) until harvesting, additional lighting will prevent bud drop, a weaker crop, lighter colored foliage and shorter vase-life. HID lights or equivalent lights are highly recommended. A minimum of 7,500 Lux is needed.

2. Long Day Lighting
This will advance the flowering time. Varieties that take 100 days or longer to force into bloom will especially benefit from this type of lighting. Since the optimum number of daylight hours per day is twelve to sixteen, any difference in the winter months can be made up with artificial lights. The lights can be turned on prior to daylight or at the end of the day. It is recommended to do this only with new crops for spring forcing. The amount of lighting recommended is 20 to 30 watts per square meter. The best time is from emergence of the sprouts until Bud Visible Date or approximately six weeks.

Lilies have two types of roots:

1. Basal Roots: The bulb arrives to you with these roots need to be developed. For best result (see the section on water).
2. Stem roots: Stem roots develop later and are located above the bulb. These usually develop at the time that floral initiation is started.

INDOOR in POTS: There needs to be at least 1 1/2” of soil below the bulb and 3-4” of soil above the bulb when planted.

INDOOR in CRATES: it is recommended to store the crates of planted bulbs in a cool area (48 °F is preferred) for several weeks until sprout emerges. After that, crates should be placed in full light immediately to prevent stretching of sprout, and causing weak plants to develop.

OUTDOORS in FIELD: It is recommended to plant the bulbs 6 inches below soil level, especially during the warm summer months. This will keep the bulbs cooler and prevents the new shoot from developing too fast.

Water
The soil should be kept on the dry side in the beginning to stimulate root growth. This will also keep the plants shorter. Afterwards, the plants should not dry out, but never be overwatered. This could cause rotting of the roots, which in turn invites insects and diseases. This is easier to regulate by indoor growing than by outdoor growing.

Fertilizer
To grow quality plants, a complete feeding program should be followed. Check if the plant is receiving the correct nutrients by doing a leaf test and soil test. One of the most necessary fertilizers is Calcium Nitrate. After the first watering, a dosage of 300-400 ppm is recommended. Also, prior to Floral Initiation and prior to Bud Visible Date, the plants should have enough calcium available. This will minimize the risk of yellowing and scorching of the leaves. Calcium is also needed when the buds are growing. See next section.

Fertilizer Sprays for Oriental Lilies
Some of the leaf scorching of Oriental Lilies is a direct result of Calcium deficiency. Preventive sprays of Calcium Chloride should be applied. Prior to Bud Visible, (especially when plants are subject to darker days followed by a very bright day) the plant cannot always take up the Calcium as fast needed. A weekly spray of 300 ppm should be applied as soon as the plants are established until the buds are fully visible or fully developed (colored). The weekly rate should be increased to 400 ppm (or 2 sprays of 300 ppm) from the period just before bud visible until after the buds are visible.

Watch for Salt Build Up
Checking your salt levels is very important. This is very simple to do. Salt damage can be prevented by thoroughly watering with clear water every 3rd or 4th watering. Damage will be seen at the tip of the leaves.

Covering Bulbs
OUTDOOR or INDOOR: Bulbs that are planted could be covered with any type of material such as straw, hay, or mulch to keep the soil temperature as cool as possible. This will help increase the quality of the plant. Also, irrigation during warm months will keep the soil temperature lower.

Herbicides
Since clean or steamed soils should be used by indoor growing, outdoors may be a different story. There are several chemicals on the market that can be used to prevent weeds. However any chemical must be applied carefully so not to damage the plant. Especially when the sprouts emerge and the plant is very tender. One recommendation is Direx, always read label first for rates and whether or not it is permitted in your State.

Ventilation
Horizontal air flow is extremely important with indoor growing. This will keep the relative humidity at proper levels. High humidity will stagnate growth and result in poor quality plants. It may cause possible bud drop or weak stems that cannot hold up flowers.
Pot Lily Growing Instructions

Growth Regulators
Since most Lilies are naturally tall, some varieties up to 45 inches (110 centimeters) require a growth regulator. The best growth regulator for dipping and spraying is Sumagic. The quantity of the chemical used depends not only on the greenhouse, but also on the time of year. Darker winter months or darker (plastic covered) greenhouses will demand stronger solutions than bright summer months or bright greenhouses. For higher elevations such as Colorado, growth regulators may hardly be needed. The chemical can be applied as follows:
- Bulb dip:bulbs should be dipped for one (1) minute in a Sumagic solution. This can be done the day before the bulbs are planted, but it is not necessary. From May on, bulbs should be dipped in water first (for 30 to 60 minutes) to hydrate the bulbs prior to the Sumagic dip. This may result in more even forcing. The strength of the solution depends entirely upon completion. This can be done just before storing the plants or before shipping the plants. Benefits are increased shelf life of the plant and overall quality of the plant. Flowers increase in size as well. At this time the whole plant must be sprayed.
- Run-Off Spray: If bulbs are not dipped, height can be controlled with Sumagic sprays. Also, if bulbs are dipped and plants are still stretching, additional Sumagic can be applied. Plants should be closely monitored, especially during the first four to six weeks of forcing time. 2.5 to 5 ppm solution can be applied up to three or four times during the growing season. Again, for darker greenhouses a stronger solution is needed. Grower should be sure that the stems are coated with the solution. DO NOT SPRAY THE CENTER OF THE PLANT TO AVOID DAMAGE TO THE BUDS! Generally after two applications the chemical takes effect.

Growth Enhancers
Growth Enhancers, such as Fascination (Promalin) or Provide, are gibberellic acids (C19H22O6). These substances are produced from a fungus (Gibberella fujikuroi) that stimulates plant growth. The benefit to using this is eliminating yellowing of leaves and maintaining quality during storage.
- Yellowing leaves: In order to eliminate leaf yellowing, plants should be sprayed right before the buds are visible. It is recommended to spray only the lower part of the plant, since plants do stretch from this. A follow-up spray of Sumagic may be needed to control height of plant.

Fungicides
Although a clean environment, fresh soil and healthy planting stock will prevent most problems, weather is something no one can control. Indoor sun can be manipulated, water applications can be monitored, but many cloudy days (even with additional lighting) can cause bothrytis and other diseases.
- Outdoors it is more difficult to monitor or control any of the elements. Also here bothrytis can set in. Brown spots appear on the leaves and flowers. In some cases, most of the leaves will turn brown.
- Preventive spraying, or spraying immediately after the first symptoms are noticed, can help save the crop. One of the important items of any fungicides is the possible residue it may leave on the plants. This may reduce appeal of the foliage when selling.
- Daconil with a weather stick will not leave any residue. Chipco 26GT may leave a light white residue. A mix of the two fungicides may be very beneficial. Decree © fungicide is effective against bothrytis.

Shading
During strong sun light or warm summer months, shading is recommended, either by shade cloth or white wash for inside growing. Shading of outside crops may be beneficial as well, especially in the very warm areas. This will keep the plants cooler, improve the quality, and to help eliminate bud blasting as well.

* These growing recommendations is presented for information only. No endorsement is intended for products mentioned, nor is criticism meant for products not mentioned. Before purchasing and using any pesticides or growth regulators, you must check all labels for registered use, ratios and application frequency.
Pot Lilies
<table>
<thead>
<tr>
<th><strong>Festive Joy</strong></th>
<th><strong>Latin Joy</strong></th>
<th><strong>Matrix</strong></th>
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<tr>
<td>Height</td>
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<td>12-14&quot;</td>
</tr>
<tr>
<td></td>
<td>14-16 cm.</td>
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<tr>
<td>3-5 buds</td>
<td>4-6 buds</td>
<td>4-6 buds</td>
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<td>Force wks.</td>
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<table>
<thead>
<tr>
<th><strong>Red Matrix</strong></th>
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<td>12-14&quot;</td>
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<td>14-16 cm.</td>
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<td>4-6 buds</td>
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<td>14-16 cm.</td>
<td>3-5 buds</td>
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<tr>
<td>**14-16 cm.</td>
<td>12-14 cm.</td>
<td>14-16 cm.</td>
<td>4-5 buds</td>
<td>6-8 buds</td>
<td>11</td>
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<tr>
<td><strong>4-6 buds</strong></td>
<td>3-5 buds</td>
<td>4-6 buds</td>
<td>11</td>
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<tr>
<td><strong>5-7 buds</strong></td>
<td>4-6 buds</td>
<td>5-7 buds</td>
<td>10</td>
<td>10</td>
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<tr>
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<th><strong>14-16 cm.</strong></th>
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<th><strong>Force wks.</strong></th>
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<tr>
<td><strong>12-14&quot;</strong></td>
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<td>4-5 buds</td>
<td>6-8 buds</td>
<td>11</td>
</tr>
<tr>
<td><strong>4-6 buds</strong></td>
<td>3-5 buds</td>
<td>4-6 buds</td>
<td>11</td>
<td>10</td>
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</tr>
<tr>
<td><strong>5-7 buds</strong></td>
<td>4-6 buds</td>
<td>5-7 buds</td>
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**Asiatic Lilies - Pots**

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<tr>
<td>4-5 buds</td>
<td>6-8 buds</td>
<td>4-7 buds</td>
</tr>
<tr>
<td>Force wks.</td>
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<td>11</td>
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</table>

**Height** | **12-14 cm.** | **14-16 cm.** | **4-7 buds** | **5-8 buds** | **Force wks.** |
<table>
<thead>
<tr>
<th></th>
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<tbody>
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<td><strong>16-18&quot;</strong></td>
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<td>**14-16 cm.</td>
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<td>14-16 cm.</td>
<td>5-7 buds</td>
<td>7-9 buds</td>
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<tr>
<td><strong>4-7 buds</strong></td>
<td>3-5 buds</td>
<td>4-6 buds</td>
<td>11</td>
<td>10</td>
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<tr>
<td><strong>5-8 buds</strong></td>
<td>4-6 buds</td>
<td>5-7 buds</td>
<td>10</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>
**Asiatic Lilies - Pots**

**Fancy Joy**
- Height: 14-16" (35-41 cm)
- Buds: 4-6
- Force weeks: 10

**Golden Joy**
- Height: 16-18" (40-46 cm)
- Buds: 5-7
- Force weeks: 12

**Golden Matrix**
- Height: 12-14" (30-36 cm)
- Buds: 4-6
- Force weeks: 10

**Pippa Joy**
- Height: 14-16" (35-41 cm)
- Buds: 3-5
- Force weeks: 10

**Apricot Joy**
- Height: 12-14" (30-36 cm)
- Buds: 4-6
- Force weeks: 10

**Freckled Joy**
- Height: 15-17" (38-43 cm)
- Buds: 4-6
- Force weeks: 12

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**Asiatic Lilies - Pots**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Height</th>
<th>Buds</th>
<th>Force wks.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junior Joy</td>
<td>12-14&quot;</td>
<td>4-6 buds</td>
<td>10</td>
</tr>
<tr>
<td>Matrix Orange</td>
<td>12-14&quot;</td>
<td>4-6 buds</td>
<td>10</td>
</tr>
<tr>
<td>Orange Joy</td>
<td>16-18&quot;</td>
<td>4-8 buds</td>
<td>10</td>
</tr>
<tr>
<td>Victory Joy</td>
<td>12-14&quot;</td>
<td>3-5 buds</td>
<td>11</td>
</tr>
<tr>
<td>Mountain Joy</td>
<td>14-16&quot;</td>
<td>4-6 buds</td>
<td>11</td>
</tr>
<tr>
<td>Sparkling Joy</td>
<td>14-16&quot;</td>
<td>3-5 buds</td>
<td>11</td>
</tr>
</tbody>
</table>

**Contact Information**

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Asiatic Lilies - Pots

**Bright Joy**
- Height: 14-16" (14-16 cm.)
- Buds: 3-5 buds
- Force weeks: 10

**Burning Joy**
- Height: 15-18" (14-16 cm.)
- Buds: 4-6 buds
- Force weeks: 10

**Century Joy**
- Height: 14-16" (14-16 cm.)
- Buds: 3-5 buds
- Force weeks: 11

**Confetti Joy**
- Height: 12-14" (14-16 cm.)
- Buds: 4-6 buds
- Force weeks: 9

**Delicate Joy**
- Height: 14-16" (14-16 cm.)
- Buds: 4-6 buds
- Force weeks: 10

**Elegant Joy**
- Height: 15-17" (14-16 cm.)
- Buds: 5-7 buds
- Force weeks: 12

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Asiatic Lilies - Pots

Joseph Joy

Height 14-16" 12-14 cm. 3-5 buds Force wks. 11

Juliette Joy

Height 12-14" 12-14 cm. 4-6 buds Force wks. 11

Majestic Joy

Height 15-17 12-14 cm. 3-5 buds Force wks. 12

Panda Joy

Height 14-16" 14-16 cm. 4-6 buds Force wks. 11

Peppermint Joy

Height 14-16" 12-14 cm. 5-7 buds Force wks. 11

Perfect Joy

Height 14-16" 12-14 cm. 5-7 buds Force wks. 11

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Asiatic Lilies - Pots

Secret Joy
- Height: 14-16" (12-14 cm. - 14-16 cm.)
- 3-5 buds
- Force weeks: 11

Sunset Joy
- Height: 12-14" (12-14 cm. - 14-16 cm.)
- 3-5 buds
- Force weeks: 10

Bright & Fancy

Perfect & Sparking

Classic & Pippa

NEW

Combination Pots
# LA Lilies - Pots

<table>
<thead>
<tr>
<th>Variety</th>
<th>Height (in)</th>
<th>14-16 cm.</th>
<th>16-18 cm.</th>
<th>3-5 buds</th>
<th>4-6 buds</th>
<th>Force wks.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Original Love</strong></td>
<td></td>
<td>14-16 cm.</td>
<td>16-18 cm.</td>
<td>3-6 buds</td>
<td>4-7 buds</td>
<td>13</td>
</tr>
<tr>
<td><strong>Pavia</strong></td>
<td></td>
<td>14-16 cm.</td>
<td>16-18 cm.</td>
<td>4-6 buds</td>
<td>5-7 buds</td>
<td>13</td>
</tr>
<tr>
<td><strong>Brindisi</strong></td>
<td></td>
<td>14-16 cm.</td>
<td>16-18 cm.</td>
<td>3-5 buds</td>
<td>4-6 buds</td>
<td>12</td>
</tr>
<tr>
<td><strong>Salmon Classic</strong></td>
<td></td>
<td>14-16 cm.</td>
<td>16-18 cm.</td>
<td>3-5 buds</td>
<td>4-6 buds</td>
<td>10</td>
</tr>
<tr>
<td><strong>Royal Sunset</strong></td>
<td></td>
<td>14-16 cm.</td>
<td>16-18 cm.</td>
<td>6-9 buds</td>
<td>8-11 buds</td>
<td>11</td>
</tr>
<tr>
<td><strong>Millionaire</strong></td>
<td></td>
<td>14-16 cm.</td>
<td>16-18 cm.</td>
<td>4-6 buds</td>
<td>5-7 buds</td>
<td>14</td>
</tr>
</tbody>
</table>

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**Ercolano - Grown for Easter**

**LA - Hybrids for Pot Forcing**

LA Hybrids are a cross between Longiflorum and Asiatic lilies. The long leaves and larger flowers come from the Longiflorum, and the bright colors are from the Asiatics. These naturally taller varieties can be used to make excellent pot plants. A spray or bulb dip is necessary to control the height. We recommend Sumagic or Concise as the preferred PGR. Please see our Flowering Schedules or Forcing Guides for further information.

**LA Hybrid greenhouse production**

<table>
<thead>
<tr>
<th>Height</th>
<th>Force wks.</th>
<th>3-5 buds</th>
<th>4-6 buds</th>
</tr>
</thead>
<tbody>
<tr>
<td>35-39”</td>
<td>12</td>
<td>14-16 cm.</td>
<td>16-18 cm.</td>
</tr>
<tr>
<td>14-16 cm.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16-18 cm.</td>
<td></td>
<td></td>
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</tbody>
</table>

PGR’s are available in the Gloeckner Grower Supplies Catalog on page 54.
<table>
<thead>
<tr>
<th>Varieties</th>
<th>Height</th>
<th>14-16 cm.</th>
<th>16-18 cm.</th>
<th>3-4 buds</th>
<th>4-6 buds</th>
<th>Force wks.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Magny Cours</strong></td>
<td>14-16&quot;</td>
<td>14-16 cm.</td>
<td>16-18 cm.</td>
<td>3-4 buds</td>
<td>4-6 buds</td>
<td>15</td>
</tr>
<tr>
<td><strong>Starlight Express</strong></td>
<td>14-16&quot;</td>
<td>14-16 cm.</td>
<td>16-18 cm.</td>
<td>3-5 buds</td>
<td>4-6 buds</td>
<td>15</td>
</tr>
<tr>
<td><strong>Star Romance</strong></td>
<td>17&quot;</td>
<td>14-16 cm.</td>
<td>16-18 cm.</td>
<td>3-5 buds</td>
<td>4-6 buds</td>
<td>14</td>
</tr>
<tr>
<td><strong>Entertainer</strong></td>
<td>16&quot;</td>
<td>14-16 cm.</td>
<td>16-18 cm.</td>
<td>4-6 buds</td>
<td>5-7 buds</td>
<td>14</td>
</tr>
<tr>
<td><strong>Farolito</strong></td>
<td>16-18 cm.</td>
<td>14-16 cm.</td>
<td>16-18 cm.</td>
<td>3-6 buds</td>
<td>4-8 buds</td>
<td>11</td>
</tr>
<tr>
<td><strong>First Romance</strong></td>
<td>16&quot;</td>
<td>14-16 cm.</td>
<td>16-18 cm.</td>
<td>3-4 buds</td>
<td>4-5 buds</td>
<td>14</td>
</tr>
</tbody>
</table>
Oriental Lilies - Pots

Gentle Romance
- Height: 16”
- 14-16 cm., 4-6 buds
- Force wks.: 14

Pink Romance
- Height: 16”
- 14-16 cm., 3-5 buds
- Force wks.: 14

Rich Romance
- Height: 16”
- 14-16 cm., 4-6 buds
- Force wks.: 14

Rosy Romance
- Height: 20”
- 14-16 cm., 4-6 buds
- Force wks.: 14

Smart Romance
- Height: 14-16”
- 16-18 cm., 4-6 buds
- Force wks.: 11

Spring Romance
- Height: 16”
- 14-16 cm., 4-7 buds
- Force wks.: 12

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Romance Series