

< Takii's Lisianthus flowering earliness >

I Early-Middle	II Middle	III Middle-Late	IV Late
Arena I	Arena II	Arena III	Arena IV
Croma I	Croma II	Croma III	Croma IV
	Corelli II	Corelli III	
Super Magic	Advantage		
	Vulcan II		
	Falda II		

< Variety Comparison among Series >

	Flower Size		Branching	Plant Height	Stem Strength*	Flower Abortion	Flower Petal	Flower Color	Rosette	Special Attention
	cm	inch								
F1 Croma I Green	6.0	2.4	Good	Short	Normal*					
F1 Croma II Snow	6.0	2.4	Good	Medium	Hard					There may be some percentage of ivory flower
F1 Croma III Blue Picotee	6.0	2.4	Excellent	Medium	Hard					
F1 Croma III Green (TU773)	6.0	2.4	Excellent	Tall	Normal					
F1 Croma III Pink Picotee	7.0	2.8	Good	Medium	Normal					There may be some percentage of pink flower
F1 Croma III Silky White	7.0	2.8	Good	Medium	Hard					
F1 Croma III White	7.0	2.8	Good	Medium	Hard					
F1 Croma III Yellow	6.0	2.4	Good	Tall	Hard*					
F1 Croma IV Lavender	6.0	2.4	Excellent	Short	Very Hard				●	Relatively shorter height for IV group
F1 Croma IV Lavender Imp	7.0	2.8	Excellent	Medium	Very Hard				●	
F1 Corelli II Light Pink (TU772)	9.5	3.2	Good	Medium	Very Hard					Fringe is less compared to other colors in this series
F1 Corelli II White	9.5	3.2	Good	Medium	Normal*	●				There may be some percentage of less fringed flower
F1 Corelli II White Imp (TU769)	9.5	3.2	Good	Medium	Hard					
F1 Corelli III Apricot	8.5	3.2	Good	Medium	Hard					
F1 Corelli III Blue	8.5	3.2	Good	Short	Normal		●			There may be some percentage of less fringed flower
F1 Corelli III Light Pink	8.5	2.8	Good	Very Tall	Normal					Fringe is less compared to other colors in this series
F1 Corelli III Rose	8.0	3.0	Good	Tall	Very Hard*					
F1 Corelli III Yellow	8.5	2.8	Good	Medium	Normal		●			
F1 Arena I Light Pink	7.5	3.0	Excellent	Medium	Normal	●				
F1 Arena II Apricot	8.0	3.2	Good	Tall	Normal*					
F1 Arena II Kilimanjaro	8.0	3.2	Excellent	Medium	Very Hard	●				There may be some percentage of ivory flower
F1 Arena II Light Pink	7.5	3.0	Good	Medium	Hard					
F1 Arena II White	8.0	3.2	Good	Medium	Very Hard	●				There may be some percentage of ivory flower
F1 Arena III Apricot	8.0	3.2	Good	Tall	Hard				●	
F1 Arena III Baby Pink	8.0	3.2	Good	Medium	Hard					
F1 Arena III Blue Picotee	7.5	3.0	Good	Tall	Very Hard					
F1 Arena III Champagne	8.0	3.2	Good	Medium	Hard			●		
F1 Arena III Gold	8.0	3.2	Good	Tall	Hard					
F1 Arena III Green	7.5	3.0	Excellent	Medium	Hard					
F1 Arena III Hot Pink	8.0	3.2	Good	Tall	Hard					
F1 Arena III Pink	8.0	3.2	Good	Tall	Hard		●			Bright pink under fluorescent light
F1 Arena III Pink Flash	8.0	3.2	Good	Tall	Very Hard			●		
F1 Arena III Purple (TU771)	7.5	3.0	Good	Medium	Hard			○		
F1 Arena III Red	6.0	2.4	Good	Tall	Hard			○	●	
F1 Arena IV Rose	7.0	2.8	Good	Very Tall	Very Hard				●	
F1 Arena IV White	8.0	3.2	Good	Very Tall	Very Hard				●	
F1 Super Magic Apricot	8.0	3.2	Good	Medium	Hard					
F1 Super Magic Capri Blue Picotee	7.0	2.8	Good	Medium	Normal					
F1 Super Magic Champagne	9.0	3.6	Good	Medium	Normal		●			
F1 Super Magic Deep Blue	7.0	2.8	Good	Medium	Normal		●	○		
F1 Super Magic Green	9.0	3.6	Good	Medium	Normal					
F1 Super Magic Light Green	8.0	3.2	Good	Medium	Normal					
F1 Super Magic Lilac	8.0	3.2	Good	Medium	Hard					
F1 Super Magic Pink	9.0	3.6	Good	Medium	Normal					
F1 Super Magic Pure White	10.5	4.2	Good	Medium	Hard					
F1 Super Magic Rose	10.0	4.0	Good	Medium	Hard					
F1 Super Magic White	11.0	4.4	Good	Medium	Hard					
F1 Super Magic Yellow	10.0	4.0	Good	Medium	Normal					
F1 Advantage Cherry Sorbet	8.0	3.2	Good	Medium	Hard					
F1 Advantage Green	7.0	2.8	Good	Tall	Hard					
F1 Advantage Pink	6.0	4.0	Good	Medium	Normal					
F1 Advantage Purple	8.0	4.0	Good	Medium	Hard		●	○		
F1 Advantage Yellow	7.0	2.8	Good	Tall	Normal					
F1 Falda II Light Apricot	5.0	2.0	Good	Medium	Hard					
F1 Falda II Salmon	5.0	2.0	Good	Medium	Hard					
F1 Falda II Yellow	5.0	2.0	Normal	Medium	Hard					
F1 Vulcan II Champagne	4.0	1.6	Excellent	Tall	Hard					
F1 Vulcan II Deep Violet	4.5	1.8	Good	Medium	Hard				●	
F1 Vulcan II Pink Picotee	5.0	2.0	Good	Tall	Very Hard				●	
F1 Vulcan II Purple Picotee	5.5	2.2	Good	Tall	Very Hard					
F1 Vulcan II White (Imp)	4.0	1.6	Good	Medium	Very Hard					Improved for top flowering habit

**Stem Length \*** For varieties with \*, keep away from steep rise of water level to prevent stem break after flower bud formation.

**Flower Abortion ●** Flower abortion may happen when sunlight is insufficient. Suitable to be grown in places with rich sunlight.

**Flower Petal ●** Flower may have less petals under long day and high temperature conditions at the flower initiation stage.

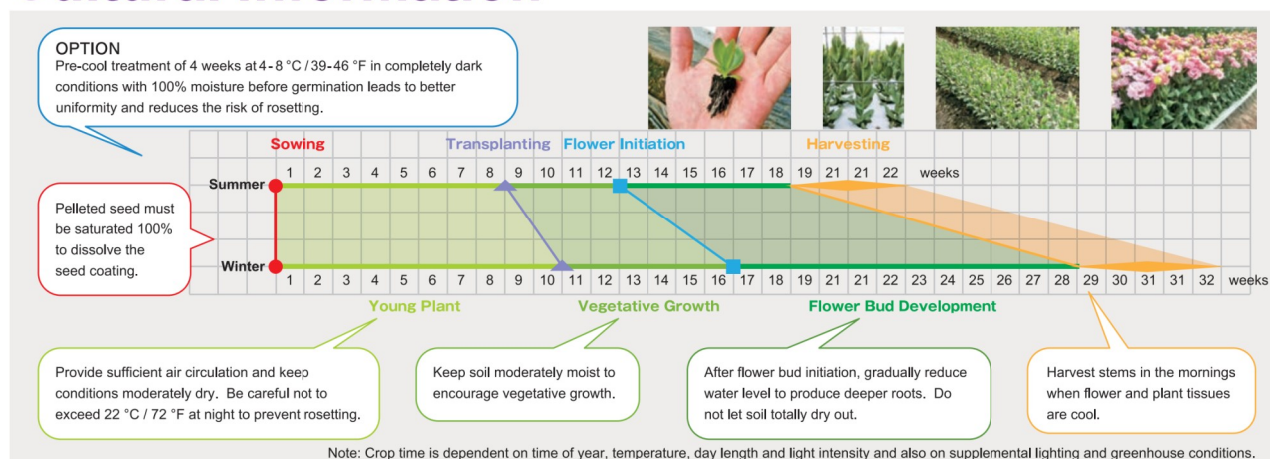
**Flower Color ●** Color of petals may fade under short day length and low temperature. This tends to occur in autumn.

**Flower Color ○** Under strong sunlight, flower petals get burning from its edge, in which case shading is necessary.

**Rosette ●** Rosette may happen when young plant grows or is transplanted under high temperature conditions.

All data in page 10 and 11 is based on trials completed in Japan and the Netherlands. Actual results are dependent upon environmental conditions and local practices that may affect variety characteristics and performance.

# Cultural Information



## Sowing

### Light required for germination

Germination Temperature : 15-25°C / 60-77°F  
 Plug Media EC / pH : 0.5 mS/cm / pH6.5  
 Recommended Plug Size : #200, #288, #406 cell tray filled with well-drained media  
 Keep even moisture until germination period

### < Tips for handling pelleted seeds >

After sowing pelleted seeds, provide enough water to dissolve the coating material completely. If the surface of the soil dries before the coating dissolves, it will seriously decrease germination. Watering by shower on top is recommended to dissolve coating completely.



## Young Plant

### After germination, place seedlings where there is adequate air circulation

Temperature : 25°C / 77°F days, 15°C / 60°F nights  
 Be careful not to exceed 22°C / 72°F at night to prevent rosetting.  
 Young seedlings are very sensitive to high temperatures.  
 Additional Fertilizer : 100-150 ppm of nitrogen; check that the color of the leaves does not fade. Low fertilization level may stall plant growth.

### < Intensity of light and soil temperature >

Young Plants	Light	Soil temperature
Stage 1	10 f.c. (100 Lux) or more <sup>*1</sup>	20-22 °C / 68-72 °F
Stage 2	Up to 2,500 f.c. (26,900 Lux)	20-22 °C / 68-72 °F
Stage 3	Can be up to 2,500 f.c. (26,900 Lux)	18-20 °C / 65-68 °F
Stage 4	Up to 5,000 f.c. (53,800 Lux)	17-18 °C / 62-65 °F
Growing	4,000 to 6,000 f.c. <sup>*2</sup> (40,000 to 60,000 Lux)	

<sup>\*1</sup> 10 f.c. (100 Lux) is required for germination  
<sup>\*2</sup> Higher light promotes high bud count and good flower development. However, excessive light (over 70,000 Lux) could reduce stem length.

Keep conditions moderately dry to establish healthy root systems. When the third pair of true leaves starts opening, it is time to transplant into a cut flower bed. Lisianthus has a very sensitive root system, check root condition constantly. Stress from holding in the plug tray too long before field planting can lead to poor root development and shorter stems especially under long day conditions.



## Preparing Beds

### Pre-watering deep into the soil is recommended to encourage producing deeper roots for better growth

It is desirable to plow deeply, a minimum depth of 12 inches (30 cm) because Lisianthus has one primary long root.  
 Beds need ample soil moisture and fertility levels to allow the development of a strong, deep root system that can sustain later healthy growth and readily access ground moisture and nutrition.  
 Over acidic soil condition may cause delay of growth, so pH6.5-7.0 and EC 0.3-0.4 dS/m are recommended.  
 There is some possibility of soil borne pathogens if you continue to grow Lisianthus on the same field for multiple years. Crop rotation and / or disinfecting the field before transplanting is recommended.



## Transplant

### Transplanting in the morning or early evening is recommended to avoid strong daytime sun

Young plants get stressed if the cultural condition between plug stage and transplanted stage is greatly changed.  
 About a week before transplanting, gradually acclimate seedlings to the new environment.  
 Planting young plants unnecessarily deep may cause physiological disorders.  
 Transplant into bed with planting distance of 12 cm x 12 cm / 5 inches x 5 inches or 10 cm x 15 cm / 4 inches x 6 inches.



## Growing

### Provide enough water until flower bud initiation stage

After flower bud initiation, gradually reduce the amount of watering to prevent soft growth and encourage strong stems.  
 Moderate air circulation in greenhouse will help prevent tip-burning as well as fungal diseases.  
 High temperatures over 35°C / 95°F may cause improper flower development and reduce the number of petals.