



The "AmeriSeed Group" was founded in 1982 varirties selected for heat, humidity and disease tolerance.

Symbols

■Irrigation Requirement







■ Season









■ Information



Full Sun



Partial Shade





Pot & Bedding Plant













Cover Seed Lightly







Pinching



Day length has effect on plant height

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Ageratum Ageratum houstonianum

Puffy

"Puffy" is a new Ageratum series bred for uniformity and earliness. Plants have small leaves and flower up to 7 days earlier than other varieties.

General Information

Germination : 3-5 days Sowing to transplant : 35-40 days Transplantto 1st flower : 35-40 days Plant height : 10-12 cms. Plant width : 20-30 cms. Flower size : Multiple Flowers







Alyssum Lobularia maritima















The most vigourous diploid variety.



ALY010 Mix



ALY014 Lemonade



ALY011 Deep Pink



ALY015 Peach



ALY012 Deep Rose



ALY016 Violet



ALY013 Lavender



ALY017 White

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Perfume	3-5 days	30-35 days	30-35 days	0.5-1 cms.	10-25 cms.	25-30 cms.









AGE 011 Raspberry

AGE 012 White

AGE 013 Purple







AGE 014 Lavender Pink

AGE 015 Pink

AGE 016 Sky Blue









Angelonia Angelonia angustifolia F1 Angelina

"Angelina" is a dwarf Angelonia suitable for bedding and pot plants Less to no PGRS needed for cost savings. be used. Like all Angelonia, Angelina grows very well in hot and humid conditions.



AGE 010 Mix

General Information *** Heat Tolerant / Drought Tolerant / Low Maintenance

Series	Germination	Sowing to transplant	Transplant to 1st flower	Spike length	Plant height	Plant width
Angelina	4-5 days	35-40 days	55-60 days	8-12 cms.	30-35 cms.	30-35 cms.

Suggested bedding plant spacing: 20 cms.

SnapdragonAntirrhinum majus F1

















Our "Dragon" hybrid Antirrhinum can be used by both professional landscapers and home gardeners ideal for tall bedding plant.

- · Fragrant.
- · Long flowering season.
- · Attracting butterflies and hummingbirds.
- · Strong and sturdy root system.
- · Multiple uses: mixed containers, landscape or garden displays.
- · Can be used for home garden cut flower production.



ANT011 Burgundy



ANT012 Carmine



ANT013 Crimson



ANT014 Orange Scarlet



ANT015 Pink



ANT016 Rose



ANT017 White



ANT018 Yellow



ANT010 Mix

Series	Germination	Sowing to transplant	Transplant to 1st flower	Spike length	Plant height	Plant width
Dragon	5-7 days	25-30 days	75-85 days	15-20 cms.	45-60 cms.	25-30 cms.

Snapdragon *Antirrhinum majus F1*

Dwarf Dragon

· Very uniform - attractive retail displays in separate colors or in mixed combinations.



· Dwarf habit for pack and pot culture in 10 cms. pots with little or no plant growth regulator (PGR'S).

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Spike length	Plant height	Plant width
Dwarf Dragon	5-7 days	25-30 days	48-50 days	8-10 cms.	20-25 cms.	20-30 cms.

ANT315

Lavender Bicolor

SnapdragonAntirrhinum majus F1

Falling Dragon

A trailing snapdragon from seed, "Falling Dragon" is beautiful as a single color or as a mix of colors in hanging baskets, mixed containers or as a colorful ground cover.



- · Blooms under short days.
- Strong, flexible stems ship well and hold up in the garden.
- · Ideal for mixed containers.
- · Available only as multipellets.

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Falling Dragon	5-7 days	30-35 days	70-75 days	2 cms.	10-15 cms.	25-30 cms.

Page 5 : Antirrhinum









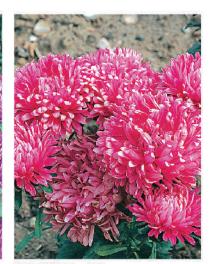


Aster Callistephus chinensis Milady

"Milady" has recently been RE-SELECTED for uniformity large incurved, bright, and highly double flowers. Excellent for bedding. Plants are robust bushy and wilt resistant.







AST011 Scarlet

AST012 Deep Blue

AST013 Red Rose







AST014 Lilac

AST016 Rose

AST017 White

 Remove dead heads to prolong flowering season. Dwarf asters make good house plants. Pot seedlings individually into 12 cm. pots and grow on in cool, well lit conditions.

General Information

Germination : 4-8 days Sowing to transplant : 25-30 days Transplant to 1st flower : 50-55 days Flower size : 7-8 cms. Plant height : 10-15 cms. Plant width : 15-20 cms.



AST010 Mix











Begonia Begonia semperflorens F1

Bronze Adam

Begonia fibrous "Bronze Adam and Green Eve" produce natural beauty in the garden. Plants have a free flowering habit and recover fast after rain. Plants are unifrom, compact and all colors flowers at the same time.







BEG032 Pink Picotee







BEG034 Rose



BEG035 White



BEG036 Deep Pink



BEG031 Mix

Begonia Begonia semperflorens F1 **Green Eve**



BEG020 Mix



BEG022 Pink



BEG023 Red



BEG024 Rose



BEG026 White



BEG028 Bicolor

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Adam & Eve	7-10 days	55-60 days	30-40 days	3-3.5 cms.	10-15 cms.	25-30 cms.

Page 7 : Begonia



*** Super size++ / Super color / Super sales

Begonia Begonia Interspecific Super Sumo F1

- · Extra large flower
- · Eye-catching in large pots & baskets.
- · Perfect for large landscape plantings.
- · Excellent in sun or shade.



BEG064 Pink **Bronze Leaf**



BEG065 Red **Bronze Leaf**



BEG066 Red **Green Leaf**



BEG067 Rose **Bronze Leaf**



BEG068 Pink **Green Leaf**



BEG069 Rose **Green Leaf**





General Information

Germination : 5-10 days Sowing to transplant : 50-55 days Transplant to 1st flower : 55-65 days Flower size : 4-5 cms. Plant height : 30-50 cms. Plant width : 30-40 cms.

Page 8 : Begonia

BegoniaBegonia boliviensis F1

Lava

"Lava" have red, bright salmon and white color. It's unique bell shaped flowers covers the wing-shaped green leaves. Upright habit during production, while cascading later. This low-maintenance Begonia is ideal for hanging baskets, containers and mass plantings.

- · Available only as pelleted seed
- Drought and rain tolerant, thrives in full sun and shade; low maintenance.



Series	Germination	Sowing to transplant	Transplant to finish	Flower size	Plant height	Plant width
Lava	7-10 days	50-60 days	50-60 days	4-5 cms.	30-40 cms.	40-50 cms.

Begonia Begonia x hybrida

Dragon Wing

"Dragon Wing" was developed from tropical Begonia varieties. Grows well in heat and shade with Vigorous growth and large bushy appearance add, these Begonia produce awesome large pots and hanging baskets. Seeds are pelleted for easy sowing.

General Information

Germination	: 7-10	days
Sowing to transplant	: 50-55	days
Transplant to 1st flower	: 55-65	days
Flower size	: 4-5	cms.
Plant height	: 30-40	cms.
Plant width	: 35-45	cms.



BEG060 Red



BEG061 Pink

Begonia Begonia truberhybrida F1 **Double Flora** · Green leaves with large, fully doubled flowers. · Early lateral branches produce a full, mounded plant habit. · Dark leaves with a full color range. · Excellent field performance.

BEG040 Green Leaf Mix BEG010 Bronze Leaf Mix

General Information

· Good branching producing more flowers.

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Double Flora	7-14 days	40-50 days	80-90 days	7.5-10 cms.	20-25 cms.	20-25 cms.

Page 10 : Begonia











Cabbage Ornamental Brassica oleracea Nagoya

- · Excellent, colorful bedding plant requiring cool temp to initiate colored leaves.
- · Uniform plant habit and growth.
- · Responds well to plant growth regulators.
- Grow in 10-15 cms. pots.









CAB021 Red CAB023 White CAB024 Rose



Cabbage Ornamental Brassica oleracea Osaka

Excellent ornamental plant for cool seasons Wavy edged leaves with very tight uniform and compact heads.





CAB062 Pink



CAB063 Red

CAB001 Mix

General Information Tip: For coloring Day Temperature 20 °C and Night Temperature 13 °C

Series	Germination	Sowing to transplant	Transplant to 1st flower	Plant height	Plant width
Nagoya	3-5 days	20-25 days	40-55 days	20-25 cms.	25-30 cms.
Osaka	o o days	20 20 days	40 00 days	20 20 0113.	20 00 0113.

Cabbage Ornamental Brassica oleracea

"Pigeon" series has a robust habit and is suitable for landscape use. The colorful plants for growing in cool climates, with a uniform plant habit and color.









CAB002 Red

CAB003 White

CAB004 Pink

CAB005 Purple

General Information

Tip: For coloring Day Temperature 20 °C and Night Temperature 13 °C

Series	Germination	Sowing to transplant	Transplant to 1st flower	Plant height	Plant width
Pigeon	3-5 days	20-25 days	40-55 days	20-25 cms.	25-30 cms.

Canna Canna generalis









Tropical

- •Canna Tropical series is a seed product and is extra dwarf
- Production period is fast and plants are characterized by readily.



CAN011 Bronze Scarlet

CAN014

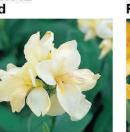
Salmon



CAN012 Red



CAN013 Rose



CAN015 White



CAN016 Yellow



Series	Germination	Sowing to transplant	Transplant to 1st flower	Plant height	Plant width
Tropical	12-15 days	50-55 days	55-60 days	60-75 cms.	35-40 cms.

Calendula











A dwarf, early flowering Calendula. These plants are very free flowering and bushy and perform well in cool weather.











CAL010 Orange

CAL011 Yellow

CAL012 Light Yellow CAL013 Apricot

CAL001 Mix

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Eclipse	3-5 days	25-30 days	30-35 days	8-10 cms.	20-25 cms.	25-30 cms.



Carnation Dianthus caryophyllus









"Lollipop" series has a robust habit and is suitable for landscape use. Colorful plants for growing in cool climates. Uniform plant habit and color.

- · Genetically compact carnation, this variety is suitable for cultivating in pots 10-15 cms.
- · Stays compact, making application of plant growth regulators and pinching unnecessary.

CAR010 Mix







CAR012 Yellow



CAR014 Purple



CAR016 Orange Bicolor



CAR018 White

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Lollipop	5-7 days	30-35 days	105-165 days	4-5 cms.	20-25 cms.	15-20 cms.

Celosia Celosia cristata Comb













- Attractive large flower heads in bright colors on robust plants with lush foliage.
- · Ideal item for hot summer gardens as well as pot use.











CEL060 Mix

CEL061 Yellow

CEL062 Red

CEL063 Purple

CEL064 Orange

Celosia Celosia plumosa

- "Castle" is semi-dwarf in height, vigorous and has a self-branching habit.
- The long-lasting flowers easily withstand summer heat and drought.
- · Excellent for landscaping, containers and gardens.











CEL310 Pink

CEL311 Scarlet

CEL312 Yellow

CEL313 Orange

CEL314 Mix

CelosiaCelosia plumosa

Flame

Large, long plumes, with numerous basal branches. Suitable for large scale outdoor landscaping. Flower colour does not fade, even under high light conditions.











CEL381 Red

CEL382 Gold

CEL383 Orange

CEL384 Yellow

CEL380 Mix

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Comb	8-10 days	20-25 days	30-35 days	15-20 cms.	30-40 cms.	20-25 cms.
Castle	3-5 days	20-25 days	25-30 days	20-25 cms.	30-35 cms.	20-25 cms.
Flame	3-5 days	20-25 days	30-35 days	20-25 cms.	30-35 cms.	25-30 cms.

Celosia

Celosia plumosa

Very large, long plumes, bright colors. Suitable for large scale outdoor cutflower production and landscaping.

- · Extra early and easy to cultivate.
- Produces large plumes measuring 20 cms. in height on strong stems with sturdy branching.
- · Suitable for cut-flowers, semi-tall flower-beds, and large containers.
- · Can be used for commercial cut flowers with tight spacing culture.



CEL110 Mix







CEL112 Red



CEL113 Rose



Yellow



CEL115 Apricot Brandy

Celosia

Celosia plumosa

The most popular dwarf series. Plumes are plump, colors are bright and appealing in garden displays. All colors bloom uniformly. Suitable for pot and bedding culture.



CEL290 Cherry Red



CEL291 Scarlet



CEL292 Rose









CEL297 Orange



CEL293 Yellow



CEL294 Red



CEL295 Salmon Pink CEL296 Cream

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Century	7-10 days	25-30 days	30-35 days	25-30 cms.	40-45 cms.	20-25 cms.
Kimono			30-40 days	15-20 cms.	15-20 cms.	20-25 cms.













"Jester" has a compact rounded plant habit and small leaves. Uniform blooms across the color range. That are perfect for cool seasons.





CIN001 mix

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Leopard	3-5 days	25-30 days	90-95 days	4-5 cms.	20-25 cms.	30-35 cms.

















Very attractive with bright flowers and uniform flowering habit. Extremely heat and rain tolerant.















CLE001 mix

CLE011 Blush

CLE012 Lavender

CLE013 Rose

CLE014 White

Series	Germination	Sowing to transplant	Transplant to 1st flower	Spike length	Plant height	Plant width
Dynamite	5-7 days	20-25 days	45-50 days	10-15 cms.	70-100 cms.	20-25 cms.



- "Shining Star" is the ideal input for grower choice. Bushy, trailing plants show off abundant, bright blooms. Also well-suited to 10-15 cms. pots, hanging baskets • Available in core solid colours. and mixed combos.



CLB001 Deep Blue



CLB002 Deep Pink



CLB003 White



CLB004 Yellow



CLB005 Strawberry Star

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Shining Star	5-7 days	45-50 days	65-70 days	3-4 cms.	20-30 cms.	25-35 cms.







COL031 Mosaic

COL032 Red



COL033 Rose



COL034 Green



COL037 Salmon Pink

COL038 Lime Sprite



This exciting series of coleus features extremely large leaves and unique patterns on well-branched plants that grow tall in the garden.

- large mixed combos and landscapes.
- · Also works in indoor plant programs.
- Prefers full shade for best performance.

Series	Germination	Sowing to transplant	Transplant to ready to use	Plant high	Plant width
Kong	5-7 days	35-40 days	30-40 days	45-50 cms.	40-45 cms.



Coleus

Solenostemon scutellarioides



Compact plants have very colorful, medium-size leaves, an excellent choice for shade plantings. "Wizard" also works well in indoor lifestyle plant programs. Low-maintenance, uniform and basal-branching plants. Ideal for bedding, baskets, containers and landscapes.

Series	Germination	Sowing to transplant	Transplant to ready to use	Plant high	Plant width
Wizard	5-7 days	25-30 days	40-45 days	25-30 cms.	25-30 cms.



















Double Sensation

"Semi-double" colorful flowers. Long and strong stems.



COS010 Mix



General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Double Sensation	2 E days	15 20 days	20 25 days	15	80-100 cms.	25 20 2002
Sansation	3-5 days	15-20 days	20-25 days	4-5 cms.	90-120 cms.	25-30 cms.

Page 20 : Cosmos

Cosmos Cosmos bipinnatus Sonata

COS024 White

This series is a unique dwarf cosmos with large flowers. Uniform and continuous flowering with high heat tolerance. Easy to grow the whole year round.

COS020 Mix





COS025 Pink Blush

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Sonata	3-5 days	15-20 days	20-25 days	4-5 cms.	45-50 cms.	25-30 cms.
Lovebird		20-25 days	25-30 days	3-4 cms.	35-40 cms.	20-25 cms.

Page 21 : Cosmos



COS050 Bright Lights

Cosmos Cosmos sulphureus

The smallest of all Cosmos series. Very bright flowers supported on strong stems. Highly adaptable to a wide range of climates, this series has recently been RE-SELECTED and improved.



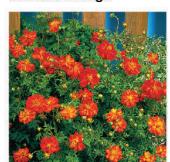
COS060 Gold



COS062 Orange



COS063 Yellow



COS064 Red



COS066 Lemon

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Bright Lights	3-5 days	20-25 days	20-25 days	4-5 cms.	75-80 cms.	25-30 cms.
Honey	0 0 days	20 20 days	20 23 days	3-4 cms.	30-35 cms.	20 00 0113.











Dahlia Dahlia X hybrida

Early Bird

"Early Bird" is compact with a dwarf habit, dark foliage and semi to fully double flowers. Suitable for bedding, borders and pots.







Dahlia Dahlia X hybrida

DAH070 Mix

Tender Heart

A bicolored dahlia with early blooms and beautiful colors. The plant grows to about 35 cms. tall. Dahlia flowers are attractive to bees and butterflies. "Tender Heart" has an extremely wide variety of colors.





"Figaro" is ideal for bedding borders as well as containers. Semi and fully double flowers with uniform flowering time on compact plants.



DAH020 Mix



DAH021 Violet Shades

DAH022 Yellow Shades

DAH023 White

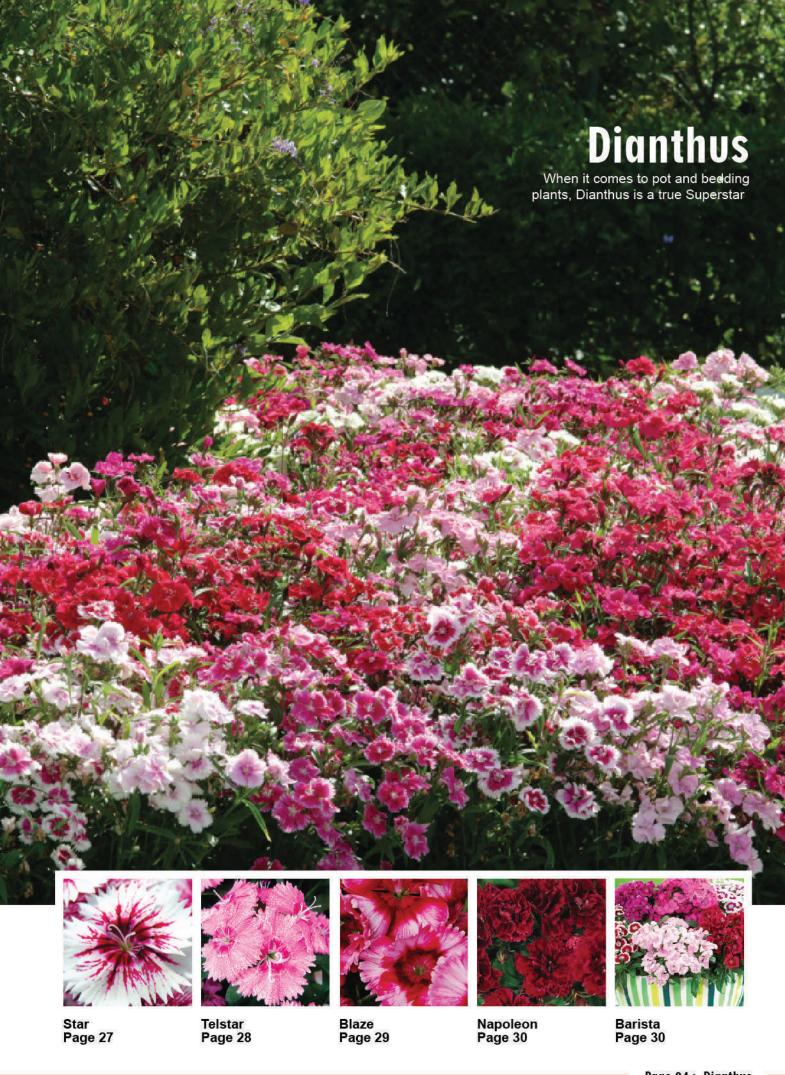
DAH024 Red Shades

DAH025 Orange Shades

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Early Bird		25.4	25 40 4		40-45 cms.	00.05
Figaro	3-5 days	20-25 days	35-40 days	5-6 cms.	20-25 cms.	30-35cms.
Tender Heart			30-35 days		30-35 cms.	15-20 cms.

Page 23 : Dahlia















Dianthus

Dianthus chinensis x barbatus

Star

"Star" has been selected for heat tolerance and has a wide range of colors. Earlier blooming than Telstar, Star matches well with other flowers in mixed containers.



General Information

pot programs for cool season.

as an annual or biennial. Star offers the best colors of the original Ideal series. Well-suited to high-density pack and small

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Star	4-5 days	25-30 days	25-30 days	3-3.5 cms.	15-20 cms.	20-25 cms.

Dianthus

Dianthus chinensis x barbatus

Telstar

This popular variety with strong bushy plants is well adapted to tropical climates and lways gives good garden performance.





- Telstar is floriferous with excellent pack and garden performance, and also recommended for bedding and landscaping use.
- The series produces vibrant flowers on well-branched plants.
- Telstar was developed to have a high degree of resistance to Phytophthora damp-off pathogens, and also resistant to both heat

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Telstar	4-5 days	25-30 days	25-30 days	2.5-3 cms.	15-20 cms.	15-20 cms.

Large flowers on healthy and compact plants. "Blaze" has many varietal colors.















Strawberry











Crimson



DIA363 Crimson Picotee

DIA364 Purple with White

DIA365 Red with White

Red Pepermint















DIA375 Crimson with White

DIA374 Lavender Picotee

DIA376 Pink

DIA367

Scarlet

DIA370 Mix

DIA369

White

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Blaze	4-5 days	25-30 days	45-50 days	4-5 cms.	15-20 cms.	15-20 cms.



















Dichondra repens, Dichondra argentea

"Dichondra" is heat and drought tolerant and should be grown in well drained soil or media. Pinching or chemical growth regulators (GR) are not necessary. Growth is fast and covers ground or containers quickly. Dichondra can be used as either ground cover, in mixed pots or in hanging baskets.



Medium green and rounded leaves."Emerald" creates a denser, tighter and shorter performance.

DIC002 Emerald (Dichondra repens)

General Information

Germination : 4-5 days Sowing to transplant : 35-40 days Transplant to ready to use : 50-55 days Plant high : 5-10 cms. Plant width : 100-120 cms.

Tips: Grows best in warm and dry conditions. Under hot climate "Emerald" should grow in partial shade to avoid leaf burn.



DIC001 Silver Fall (Dichondra argentea)











Cineraria maritima / Senecio cineraria

Silver white, velvety foliage on uniform plants. The striking leaves are superb for adding contrast and texture to beds, borders and mixed baskets.

General Information

Germination	: 5-7	days
Sowing to transplant	: 35-40	days
Transplant to ready to use	: 35-40	days
Plant high	: 20-30	cms.
Plant width	: 25-30	cms.



DUS001 Silver Dust

"Silver Dust" has lacy and deeply cut. Finely fringed silver leaves, for adding contrast and texture to borders and mixed baskets. beds, borders and mixed baskets.



DUS005 New Look

Soft, oval, silvery white leaves with wooly hairs. "New Look" velvety foliage on uniform plants. is one of the great all-purpose The striking leaves are superb foliage fillers. Ideal for beds,











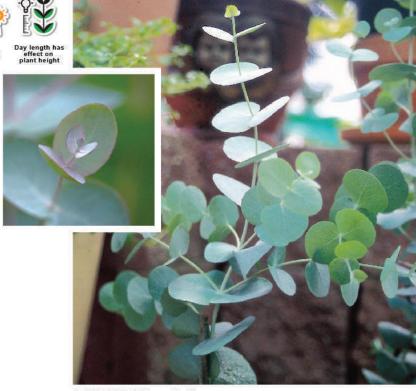


EucalyptusSilver Dollar

Versatile, fragrant variety for multiple uses. Suitable for year-round greenhouse or out door production, "Silver Dollar" is also suited for cut flower foliage production and is often used in mixed bouquets.

General Information

Germination : 4-5 days Sowing to transplant : 35-40 days Transplant to ready to use : 85-90 days Plant high : 50-60 cms. Plant width : 30-40 cms.



EUC008 Silver Dollar

Gaillardia Gaillardia x grandiflora







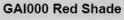






Daisy like petals in Red, Gold and Yellow Shades. Continuous blooming all summer long. Flowers are very attractive to butterflies. Compact, eye-catching plants for borders and pots. Prefers full sun.







GAI002 Apricot



GAI001 Sun

General Information

OULDI MI IIIIOI III MIIOI		
Germination	: 5-7	days
Sowing to transplant	: 25-30	days
Transplant to 1st flower	: 60-70	days
Flower size	: 6-7	cms.
Plant height	: 20-25	cms.
Plant width	: 25-30	cms.

Feature

- · Let the Sunshine.
- · Flowers the first year without vernalization.
- · Excellent branching habit.
- · Unique flower color and masses of flowers.
- · Great impact in pots, mixed containers.



Gazania Gazania rigens New Day

Bred to deliver larger flowers, shorter apeduncles and strong looking plants. "New Day Series" is compact and easy to produce. Suitable for high density pack production.



GAZ020 Mixture



GAZ021 Bronze



GAZ022 Pink Shades



GAZ023 Clear Orange



GAZ024 White



GAZ025 Yellow



GAZ026 Red Shades



GAZ027 Rose Stripe



GAZ028 Red Stripe

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
New Day	5-7 days	25-30 days	25-30 days	6-7 cms.	10-15 cms.	25-30 cms.



Gazania Gazania rigens Kice

"Kiss" is very uniform and compact, so growth regulators (GR) are not required. Large, daisy-like flowers on top of short, sturdy stems with beautifully formed, mounding plants.

General Information

Germination : 5-7 days Flower size : 6-7 cms.

Sowing to transplant : 25-30 days Plant height : 10-15 cms.

Transplant to 1st flower : 25-30 days Plant width : 25-30 cms.

Page 30 : Gazania

Gazania Gazania rigens









Extremely large flowers. Full, bushy plants fill large containers quickly. A unique, heat-loving product.

General Information

Germination : 5-7 days : 25-30 Sowing to transplant days Transplant to 1st flower : 25-30 days Flower size : 7.5-8.5 cms. Plant high : 10-15 cms. Plant width : 30-35 cms.



GAZ072 White Flame



GAZ071 Yellow Flame



GAZ073 Yellow



GAZ074 White



GAZ075 Red



GAZ070 Mix











Gerbera



Very popular as a pot plant with a dwarf and compact habit. Medium flower size with many flowers per plant. Colorful flowers appear above deep green foliage. This variety requires application of growth regulators (GR) to achieve compact plants.



GEB100 Pride Mix

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Pride	5-7 days	35-40 days	45-50 days	8-10 cms.	20-30 cms.	20-25 cms.

Page 31 : Gazania & Gerbera





GER100 Mix







GER101 Light Pink GER102 Red

GER103 Salmon

Geranium F1 Pelargonium x hortorum

Geranium F1 "Quantum" has outstanding heat tolerance and long flowering in regions with high temperatures. Star-shaped flowers are less prone to shattering therefore giving a great display of colour for much longer. With the added attraction of serrated foliage, this new variety really can add something new to your assortment.

GeraniumPelargonium peltatum **Twister**

Trailing type Ivy leaved Geranium. No pinching or growth regulators (GR) needed- naturally trailling and free flowering with excellent lateral branching.



GEB178 Twister Mix

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Quantum	5-7 days	30-35 days	90-100 days	10-12 cms.	30-40 cms.	30-40cms.
Twister	4-5 days	20-25 days	70-80 days	10-12 cms.	25-30 cms.	25-30 cms.

Page 32 : Geranium



GLX003 Mix











Double Brocade

Dwarf and compact with small leaves. Suitable to grow the whole year round.

· 100% double flowering series

Gloxinia

Sinningia speciosa

- · Compact series with small leaves for easy packing and shipping
- · Recommended for 10-12 cm pot prodaction

General Information

Germination : 8-10 days Flower size : 4-5 cms.

Sowing to transplant : 50-55 days Plant height : 15-20 cms.

Transplant to 1st flower : 80-85 days Plant width : 20-25 cms.



GLX004 Red



GLX005 Blue&White



GLX006 Blue



GLX007 Red&White





GOM030 Purple



GOM031 White



GOM032 Rose Pink

Gomphrena Gomphrena globosa

Gnome

A very compact type of Gomphrena, producing many flowers on a single plant. Excellent for hot climates.

- · Easy grow in pots and packs even under hot conditions
- · Flowers tirelessly throughout the summer
- No fading under strong sunshine in hot or cool climates











Bedding Cover Se ant Lightly

General Information

Germination : 4-5 days Sowing to transplant : 20-25 days Transplant to 1st flower : 40-45 days Flower size : 1-2 cms. Plant height : 20-25 cms. Plant width : 25-30 cms.

Gypsophila *Gypsophila muralis*

Garden Bride

"Garden Bride" has masses of single flowers on each plant. Beautiful light pink colored flowers. Easy to grow the whole year round. Suitable for hanging baskets and mixed pots.



Gypsophila *Gypsophila muralis*











Double flowered variety. Unique pink and deep rose colored flowers. Easy to grow the whole year round. Suitable for hanging baskets and mixed pots.





Deep Rose

GYP005 Pink

General Information

Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
5-7 days	25-30 days	30-40 days	0.5 cms.	10-15 cms.	15-20 cms.









HYP001 Dottie Pink

HYP002 Dottie White

HYP003 Dottie Rose

HYP004 Dottie Red

Hypoestes

Hypoestes phyllostachya











Excellent shipping tolerance and shelf life. Often grown as an indoor lifestyle plant, Hypoestes is also ideal for shaded garden beds.

General Information Tips: High temperature with too much light will cause leaves to curl.

Series	Germination	Sowing to transplant	Transplant to ready to use	Plant high	Plant width
Dottie	3-5 days	25-30 days	30-35 days	15-20 cms.	15-20 cms.

Page 34 : Gypsophila & Hypoestes

Hibiscus

Hibiscus moscheutos

New Moon















Hibiscus New moon is available as 3 distinct colours including the deepest red ever introduced, Honeymoon is a truly eyecatching variety with real shelf appeal. It creates a naturally well branched plant, reaching 2 - 2½ feet which is ideal for large containers or for planting out directly in the garden. New moon is a very heat tolerant variety and will enjoy a sunny spot in the garden. Hibiscus responds very well to growth regulators, and with the correct programme will make a very saleable, bushy, flowering plant in as little as 14 weeks from sowing.



HIB041 Deep Red



HIB042 White

General Information

Germination	: 5-7	days
Sowing to transplant	: 25-30	days
Transplant to 1st flower	: 60-70	days
Flower size	: 15-20	cms.
Plant height	: 60-80	cms.
Plant width	: 50-60	cms.

Tip: "Disco Belle" increasing daylength (14-16 hrs.) will promote early flowering



HIB043 Light Rose



HIB040 Mix

Hibiscus

Hibiscus moscheutos

Disco Belle

All varieties have very good basal branching habits bearing numerous large sized flowers. Early flowering and excellent for growing the whole year round.



- True landscape item adding height to flower beds in the warm climates
- Excellent patio plant in cool climates with use of plant growth regulator
- · Ideal for perennial plant assortment
- Scarified seed is offered to precipitate germination, making further treatment unnecessary

General Information

Germination	: 5-7	days
Sowing to transplant	: 25-30	days
Transplant to 1st flower	: 60-65	days
Flower size	: 20-25	cms.
Plant height	: 60-70	cms.
Plant width	: 45-60	cms.

Tip: "Disco Belle" increasing daylength (14-16 hrs.) will promote early flowering













Helianthus Helianthus annuus

Solar Angel



HLS007 Solar Angel

Very compact, well branched plants produce lemon-yellow flowers with dark chocolate brown centers over very dark green leaves. Sets a large bloom on the central stalk, with several smaller flowers on side shoots.

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Choco Sun	2-3 days	2-3 days 15-20 days	45-50 days	13-15 cms.	25-30 cms.	30-25 cms.
Big Smile		13-20 days	35-40 days	8-12 cms.	20-25 cms.	30-23 CHS.

Hollyhock Alcea rosea annua











Spring Celebrities

Double to semi double dwarf Hollyhock with excellent basal branching. Flowers in the first year and will continue to flower for 3 months.

General Information

Germination	: 3-5	days
Sowing to transplant	: 20-25	days
Transplant to 1st flower	: 130-150	days
Spike length	: 55-80	cms.
Plant height	: 100-150	cms.
Plant width	: 45-60	cms.

Helianthus Helianthus annuus Big Smile



HLS001 Big Smile

"Big Smile" is a popular Pot Helianthus with a large flowers on a compact plant.

- · Big Smile is a dwarf OP variety
- Ideal for spring to summer production, but can also be used for production any time of year with suffi cient temperature
- Big Smile is suitable for pots and containers, good for impulse sales at retail



Page 36 : Helianthus & Hollyhock





Impatiens Summer

Summer Series is the standard type of Impatiens selected for warm growing conditions. "Summer" has a wide color range, is early and uniform blooming, growing well in shady conditions resulting in a strong garden performance.

General Information

Germination : 4-5 days Sowing to transplant : 20-25 days Transplant to 1st flower : 30-35 days Flower size : 3-4 cms. Plant height : 25-30 cms. Plant width : 25-30 cms.















IMP104 Scarlet



IMP105 White



IMP107 Lilac



IMP108 Red



IMP111 Salmon



IMP116 Ruby



IMP117 Orange



IMP118 Violet



Impatiens Cashmere

Cashmere brings to the market the great impact of consistently semidouble blooms on a high quality product suitable for industrial production. Cashmere's spreading habit makes it well suited for hanging baskets. The fantastic colour range gives it superb point of sale appeal and makes it stand out in the landscape. Cashmere is the only semidouble seed raised Impatiens on the market.



IMP083 Appleblossom



IMP081 Red

IMP082 Red Flash



IMP084 Orange



IMP085 Orange Flash



IMP086 Bright Purple

IMP087 Coral Pink

General Information

Germination	: 4-5	days
Sowing to transplant	: 20-25	days
Transplant to 1st flower	: 30-40	days
Flower size	: 4	cms.
Plant height	: 25-30	cms.
Plant width	: 35-40	cms.



length and good soil coverage combine to produce easy-to-manage plants that have less upward stretch and need fewer growth regulator (GR) applications.

General Information

Germination : 4-5 days Sowing to transplant : 20-25 days Transplant to 1st flower : 30-35 days Flower size : 3-4 cms. Plant height : 15-20 cms. Plant width : 30-35 cms.



Page 39 : Impatiens



Lavender Lavandula angustifolia

Wonderland













Bred for large-scale, first year flowering pot production, excellent branching to fill the pot quickly and finish with large, dense flower spikes and very strong stems. High tolerance to foliar diseaes when compared to other Lavenders.







LAV012 Purple

LAV014 Snow

LAV016 Pink







General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Plant height	Plant width
Wonderland	15-20 days	40-50 days	75-110 days	30-35 cms.	25-30 cms.













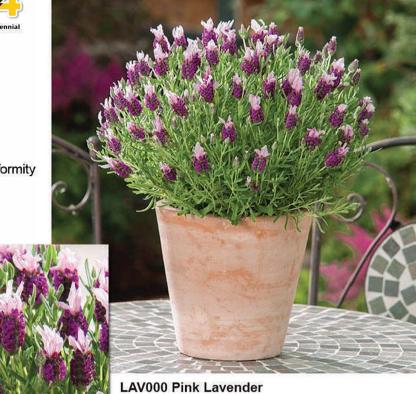
LavenderLavandula stoechas

Spanish

- · Compact to medium habit with good branching and uniformity
- · Flowers heavily to almost cover the plant.
- · Short harvest window fits bench run programs.
- · Long-flowering and self-cleaning
- · Flowers heavily to almost cover the plant.

General Information

Germination : 15-20 days : 40-50 days Sowing to transplant Transplant to 1st flower : 90-120 days Plant height : 25-30 cms. Plant width : 25-30 cms.















Linaria

Linaria maroccana

arvelous

"Marvelous Mix" produces dwarf and compact plants. It is a very colorful mix which is also available in separate colors by special order. Cool growing conditions will help promote deeper colored flowers.

General Information

Germination	: 5-7	days
Sowing to transplant	: 25-30	days
Transplant to 1st flower	: 30-40	days
Flower size	: 1-1.5	cms.
Plant height	: 20-25	cms.
Plant width	: 20-25	cms.
Spike length	: 5-6	cms.



LIN020 Mix

Lisianthus Eustoma grandiflorum













Rosie

"Rosie" produces very attractive fully double, long lasting flowers. Ideal for pot plant production.









LIS261 Lavender Blue

LIS262 Rose Picotee

LIS263 White

LIS264 Pink

General Information

· Genetically dwarf pot Lisianthus with improved root quality

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Rosie	8-10 days	55-60 days	105-110 days	8-10 cms.	20-25 cms.	15-20 cms.















Millet Ornamental

Pennisetum glaucum

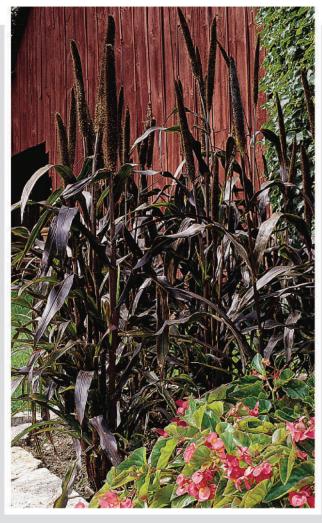
Purple King

An ornamental plant with deep purple foliage, stems and flower plumes. A striking backdrop plant and excellent choice for mass planting, large mixed containers and borders. Also makes a good cut flower.

Tips: We recommended sowing seed directly into final containers, 128 plug trays or larger cells.

General Information

Germination : 2-3 days Sowing to transplant : 20-25 days Transplant to ready to use : 50-55 days Spike length : 20-25 cms. Plant height : 120-150 cms. Plant width : 20-30 cms.



MIL001 Purple King



















Marigold Tagetes erecta

Little Duck

The most compact American Marigold. Tidy plants with many fully double flowers. Outstandingly bright flowers sit on top of deep green foliage. High uniformity with strong peduncles enabling easier transportation.

"Little Duck" has tube shaped, tightly clustered petals and is suitable for pots, bedding and landscapes.



General Information

Germination : 3-5 days Sowing to transplant : 15-20 days Transplant to 1st flower : 20-25 days Flower size : 6-7 cms. Plant height : 10-15 cms. Plant width : 15-20 cms.





Marigold Tagetes erecta

Taishan

"Taishan" have large flowers the hold their doubleness and shed water well. Good branching with more aggressive side branching help fill packs quickly. Good tolerance of overhead watering and promoting a longer shelf life.







MAR021 Yellow

MAR022 Gold

MAR023 Orange

The better dwarf African marigold gets even better!

Improved Orange and Yellow kick it up a notch with more uniform timing and habit to match Gold. With 20% shorter peduncles and 15% thicker stems than the market leader, Taishan stands tall with less stretch and less breakage. The result: full plants and season-long shows of big colour.

MAR020

Mix

- Better branching with more aggressive side branching fills packs quickly and delivers a healthier look.
- · Larger flowers hold their doubleness and shed water well.

General Information

Germination : 3-5 days Sowing to transplant : 15-20 days Transplant to 1st flower : 30-35 days Flower size : 7-8 cms. Plant height : 30-40 cms. Plant width : 25-30 cms.









MAR045 Gold

MAR046 Orange

MAR047 Yellow

MAR048 Mix

Marigold Tagetes erecta

Big Bloom

Large, fully double, firm, ball shaped flowers. Super bright colors supported by strong stems. Extra-sturdy stems won't break during shipping. Compact habit with deep green foliage makes "Big Bloom" an ideal pot, bedding and landscape product.

General Information

Germination	: 3-5	days
Sowing to transplanting	: 15-20	days
Transplant to 1st flower	: 35-40	days
Flower size	: 8-10	cms.
Plant height	: 25-30	cms.
Plant width	: 40-50	cms.

Page 46 : Marigold

Marigold Tagetes erecta

Good branching performance, compact, early flowering-even under long day length. Provides fast and reliable flowering to meet the growing demand for larger color containers. Also suitable for bedding and landscapes.











MAR050 Mix

MAR051 Yellow

MAR052 Gold

MAR053 Orange

MAR054 Primrose

Marigold Iceberg

The only F1 White Marigold variety. Firm flowers with a high percentage of fully double blooms. Outstandingly compact with deep green foliage. Heat will decrease the percentage of fully double flowers.

Marigold Antigua Tagetes erecta

"Antigua" is unifrom and continuous flowering. Flowers are compact with deep green foliage. Flower are initiated faster than other dwarf varieties. Tightly mounded plants shine in landscape plantings.



MAR055 Gold



MAR056 Yellow



MAR057 Primrose







MAR059 Mix

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant high	Plant width
Inca			30-40 days	7-8 cms.	50-70 cms.	30-40 cms.
Iceberg	3-5 days	15-20 days	50-60 days	6-7 cms.	20-30 cms.	05.00
Antigua			45-55 days	7-8 cms.	25-35 cms.	25-30 cms.

Page 47: Marigold



Yes, you can fire up your marigold sales!

Say hello to Hot Pak, the first French Marigold series bred to bloom all Summer long, even in the highest temperatures and humidity. Developed IN the heat FOR the heat, these perfectly matched plants stay compact and keep on flowering without stretching or falling open.

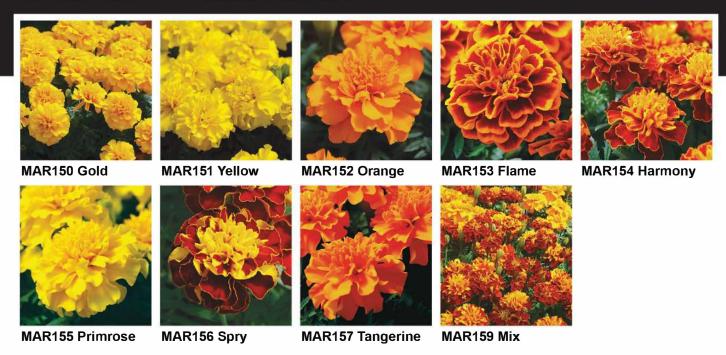
- Hot Pak extends the marigold season in areas with high temperatures and high humidity.
- First-ever launch of a full French Marigold series with all the key colours, perfectly genetically matched.
- Ideal for pack programs and landscapes.



French Marigold Tagetes patula

Lucifer

Medium sized 'Crested' flowers. The most heat tolerant French Marigold. Continuous flowering.



French Marigold Tagetes patula

Giant Lucifer

"Giant Lucifer" has a larger flower than Lucifer, and is more vigorous. Suitable for spring and autumn planting.

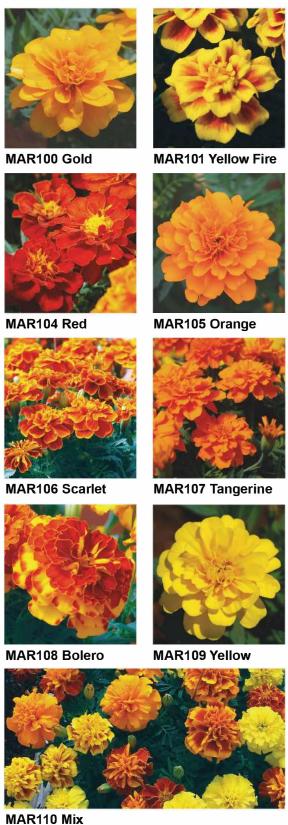


Page 49 : Marigold



French Marigold Tagetes patula

Large sized 'Anemone' flowers. Uniform and rich. Strong plant habit with long garden life.



Page 50 : Marigold

Marigold Information

Series	Flower Size (cms.)		Height ns.)		Weidth ns.)		o 1st flower lys)
	1752 65	Long days	Short days	Long days	Short days	Long days	Short days
Dwarf : Pot and Be	dding						
Little Duck New!	7-8	30-35	15-20	20-25	15-20	60-65	50-55
Taishan	7-8	30-40	15-20	25-30	20-25	60-65	50-55
Iceberg	6-7	30-40	20-30	25-30	20-25	60-65	50-55
Antigua	7-8	30-40	20-25	30-35	20-25	50-55	45-50
Intermediate Pot, I	Bedding & C	ut Flow	er Type	S			
Big Bloom	8-10	60-80	25-30	45-50	35-40	65-70	60-65
Inca II	7-8	60-80	25-30	45-50	25-30	55-60	50-55
Pagoda	11-12	60-80	25-30	45-50	35-40	65-70	55-60

French Marigold

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant high	Plant width
Hotpak		15-20 days	25-30 days	3-4 cms.	15-20 cms.	15-20 cms
Lucifer	3-5 days 20-2	20-25 days	20-25 days	5-4 GHI3.	20-25 cms.	15-25 cms
Giant Lucifer	30,0	20 20 00,0	05 00 days	5.0	25-30 cms.	20-30 cms.
Royal		20-25 days	25-30 days	5-6 cms.	30-35 cms.	25-30 cms.

Page 51 : Marigold

Melampodium Melampodium paludosum















Uniform with small bright yellow flowers, "Golden Globe" is the dwarfest variety, While "Show Star" and "Derby" are the most vigorous.

General Information

: 3-5	days
: 25-30	days
: 40-45	days
: 2-2.5	cms.
: 25-30	cms.
: 25-30	cms.
	: 25-30 : 40-45 : 2-2.5 : 25-30



MEL001 Show Star



MEL002 Derby



MEL003 Golden Globe



Mimulus Mimulus hybridus

lonkey Face

Mimulus Monkey Face F1 is a compact, floriferous large flowered series offered in eleven colors and a mix.

General Information

Germination : 5-7 days Sowing to transplant : 30-40 days : 35-40 Transplant to 1st flower days Flower size : 5 cms. : 15-20 Plant height cms. Plant width : 15-20 cms.



MIM010 Mix















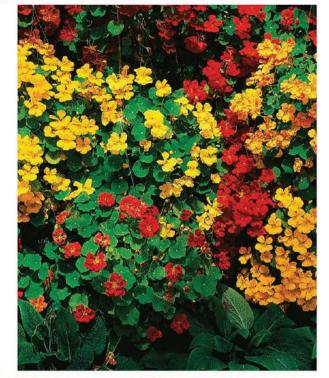
Nasturtium Spray
Tropaeolum majus

Large, spurless, semi-double, edible flowers that face upwards solid green leaves.

General Information

Germination : 3-5 days Sowing to transplant : 20-25 days Transplant to 1st flower : 50-55 days Flower size : 4-5 cms. : 25-30 cms. Plant height : 30-35 cms. Plant width

Tip: Sow directly into final containers or into garden flower beds.





NAS041 Gold

NAS042 Scarlet

NAS046 Cream

NAS047 Mahogany Red

NAS040 Mix













Osteospermum Passion Osteospermum ecklonis

- · Passion Mix is a heavily-branched, compact and bushy variety which does not need pinching.
- Unlike the vegetative varieties, seed-raised Passion series retain its compact habit very well.
- They grow and flower almost year-round in mild areas, with the heaviest blooming period in early spring through early summer.
- · Plants are well adapted to container culture such as color bowls and combination planters.

General Information

Germination : 4-5 days Sowing to transplant : 20-25 days Transplant to 1st flower : 65-75 days Flower size : 6-7 cms. Plant height : 15-25 cms. : 25-30 Plant width cms.



OST020 Mix

Tip: Providing a night-cold treatment(10-13 °C) to increase flower buds













Pansy

Viola x wittrockiana



Medium flower sized Pansies with 19 attractive colors that will be sure to put a smile on your face. A Compact and bushy plant habit with early flowering and continuous blooming with peduncles that do not stretch.



PAN208 Rose Blotch



PAN210 Red Blotch



PAN220 Orange Blotch



PAN252 Pink Shade



PAN253 Porcelain
Blue Shades



PAN255 Orange



PAN256 Purple Bicolor



PAN271 Scarlet



PAN272 White Blotch



PAN275 Purple



PAN276 Red Wing



PAN278 Beaconsfield



PAN279 Blue Blotch



PAN281 Clear Blue



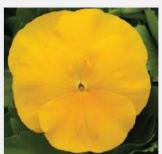
PAN282 Primrose



PAN200 Mix



PAN283 White



PAN284 Yellow



PAN285 Yellow Blotch

Page 54 : Pansy & Viola

Pansy Viola x wittrockiana

Free Fall

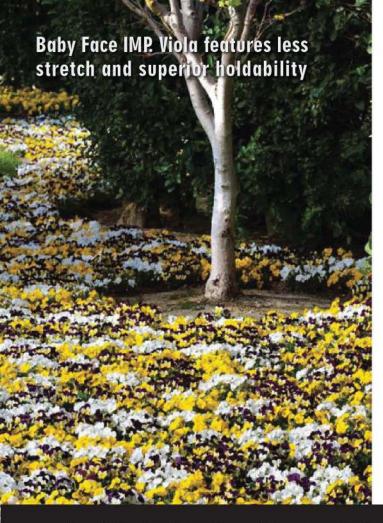
A real trailing pansy from seed with true winter flowering performance. The low spreading habit is ideal for use in late summer production. This day-neutral species ensures greater color even through the winter months.



General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width	
Smile		ays 25-30 days	40. 50 dovs	7-8 cms.	20-25 cms.	15 20 oma	
Sona	4-5 days		25-30 days	40-50 days	7-0 CIIIS.	20-25 CIIIS.	15-20 cms.
Free Fall			35-45 days	2.5-3.5 cms.	12-15 cms.	20-25 cms.	

Page 55: Pansy & Viola



Send the best-looking violas to retail

Baby Face IMP. genetics deliver a uniform plant habit and the tightest bloom window, so are able to you grow and ship the highest-quality violas. Plants cover the soil at flowering, with more blooms on every plant and less stretching. Grower to retailer to landscaper to garden...everyone's satisfied with Baby Face IMP.

- Baby Face needs fewer PGRs, with superior hold ability and less shrinkage.
- F1 vigour assures greater germination, earliness, and excellent plug and garden performance.
- Early-blooming plants remain compact in both hot and cold climates.
- Free-flowering plants perform across a wide range of climatic conditions and have excellent overwintering.
- Includes a wide range of clear colours, which allow landscapers to produce custom mixes.

General Information

Germination : 4-5 days Sowing to transplant : 25-30 days Transplant to 1st flower : 30-40 days Flower size : 2-3 cms. Plant height : 10-15 cms. Plant width : 8-10 cms.

Viola

Viola cornuta

Baby Face

Small sized flowers with great outdoor performance. Can be used in pots, bedding or landscapes. Many flowers per plant with a continuous flowering habit. "Baby Face" does not stretch under warm conditions. Violas are usually more heat tolerant than Pansies.



VIO120 Harvest Mixture



VIO200 Mix



VIO130 jump up mix



VIO010 Blueberry Frost Mixture



Pansy & Viola Growing Information

Production time will vary depending on whether the crop is grown under warm or cool conditions. Crop time for Spring plant sales is longer due to cooler temperatures during the Winter months.

Seeds & Crop information: Pansy

Seed Count:

Approximately 700-800 raw seeds per gram.

Time from sowing to transplanting: 25-30 days.

Time from transplanting to first flower: 35-45 days.

Seeds & Crop information: Viola

Seed Count:

Approximately 1,000-1,400 raw seeds per gram. Time from sowing to transplanting : 25-30 days. Time from transplanting to first flower : 30-35 days.

Growth Stage	Stage 1	Stage 2	Stage 3	Stage 4	
Visual	At the end of Stage 1, germination is complete, the radicle will have emerged and roots are beginning to form.	At the end of Stage 2, The roots are developing, a stem is present and the cotyledons have expanded.	At the end of Stage 3, the roots should be penetrating the plug cell and the first true leaves have developed.	At the end of Stage 4, the roots should hold the plug mass together easily. The shoots should have 2-3 sets of true leaves.	
Moisture	Cover seeds lightly with coarse vemiculite to maintain moisture levels. Level 4**	Alternate betwe	avoid disease.		
Growing Environment	Sow under 70% plastic shade net.	Warm : Under 50 % shading. Cool : Full sun.			
Lighting	Light is not necessary for germination.	Light 1,000-1,200 foot candles(10,000-12,000 lux) total.	Light 3,500 foot candles(35,000 lux) total.	Normal light (full sun)	
Media Temperature	Temp 20-21 degrees centigrade.	Temp 18-22 degrees centigrade.		Temp 16-18 degrees centigrade is ideal.	
Fertilizer	No fertilizer necessary for germination.	Use a nitrate based fertilizer at about 50-75 ppm.	Feed established seedlings at 75-100 ppm nitroge with a fertilizer formulated for pansies.		
Media EC (Electro Conductivity	EC<0.5 mS/cm.	EC 0.5-0.75 mS/cm.	EC 0.75-1.0 mS/cm.		

**Refer to page 129

Plug Germination Stages



Stage 1: 4-5 days



Stage 2 : 5-10 days



Stage 3: 10-15 days



Stage 4: 15-30 days

Page 57 : Pansy & Viola















Pentas

Pentas lanceolata Morning Star

This F1 Pentas offers an excellent performance for growers and gardeners. Large, star-shaped flowers with hybrid vigour that provides better stress tolerance than OP varieties.

- Hybrid vigour provides better stress tolerance than open pollinated varieties.
- Gives pro landscapers and gardeners alike a mid-size, full-sun series that flourishes in high heat/humidity and tolerates Summer rains well while still showing colour.





PEN022 Red



PEN023 Light Lavender



PEN024 White



PEN025 Deep Pink



PEN026 Deep Rose



PEN028 Orchid

General Information

Germination : 7-10 days Sowing to transplant : 35-40 days Transplant to 1st flower : 40-45 days Flower size : 0.5 cms. Plant height : 40-45 cms. Plant width : 30-45 cms.















Pepper Ornamental

Capsicum annuum

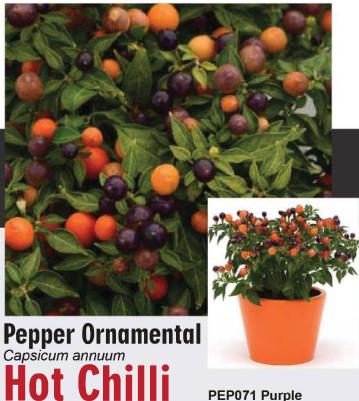
Hyper series has a very elegant plant habit with many pointed fruits. Fruits are initially green turning to red, yellow and Orange depending on the variety.



PEP010 Mix

General Information

Series	Germination	Sowing to transplant	Transplant to ready to use	Fruit size	Plant height	Plant width
Hyper	5-7 days	25-30 days	65-70 days	2.5-3 cms.	10-15 cms.	15-20 cms.





Pepper Ornamental
Capsicum annuum

PEP016 Cream Red

er Cream

- · Slim fruit on medium sized plants with unique, variegated foliage
- · Fruit is cream colored at the beginning

PEP071 Purple

- · Small, round peppers of both purple and orange simultaneously make a highimpact display for outdoor and indoor decorating.
- · Compact, heavily branched plants work well in mixed containers, colour bowls and Mum Pal programs.

General Information

Series	Germination	Sowing to transplant	Transplant to ready to use	Fruit size	Plant height	Plant width
Hot Chilli	5-7 days	30-35 days	55-85 days	1-1.5 cms.	10-15 cms.	15-20 cms.
Hyper Cream	5-7 days	25-30 days	55-60 days	3-3.5 cms.	15-20 cms.	20-25 cms.

Page 59: Pepper Ornamental

PET159 Salmon



HOTUNIA ADIANCE Petunia x hybrida

HOTUNIA "RADIANCE" is the first F1 Trailing Petunia to be bred and produced under Tropical, hot & Humid conditions. A Heat Lover with good disease tolerance.

HOTUNIA™ "RADIANCE" has a mounding plant habit with large flowers in 10 colors.

General Information

Germination : 5-6 days

Sowing to transplanting: 25-30 days

Transplanting to 1st flowering

Short day length : 40-45 days

Long day length : 35-40 days

Flower size : 2-3 in. (6-7 cm.)

Plant height : 6-8 in. (15-20 cm.)

Plant width : 2.5-3 ft. (75-90 cm.)

Page 60: Petunia

F1 Trailing Petunia TM ADIANCE Petunia x hybrida



PET152 Blue



PET153 Salmon Morn



PET154 Pink



PET155 Pink Morn





PET157 Purple



PET158 Red



PET159 Salmon



PET156

Lilac

PET160 Grape



PET161 Neon Rose



PET162 White



PET150 Mix



Petunia-Grandiflora

Petunia x hybrida

Jumbo is very early flowering with massive bloom size, setting it apart from the competition. Add to that a naturally compact habit and uniform finishing across an outstanding colour range and Jumbo is the best series of standard grandiflora Petunia to choose for your programme.



General Information

PET037

Violet

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Jumbo	4-5 days	25-30 days	25-30 days	5.5-6.5 cms.	10-20 cms.	25-30 cms.

Mix

PET035

White

Petunia-GrandifloraPetunia x hybrida

The best selling and only full series of veined Grandiflora Petunias available. Early blooming and dependable with high-quality pack habit.



PET060 Mix Vein

PET057

Light Pink Vein



PET055 Red Vein



PET056 Pink Vein



PET059 Blue Vein



PET061 Purple Vein

Petunia-GrandifloraPetunia x hybrida

nbo Frost

White picotee edged flowers provide striking contrast to the inner color of each flowers. Eye catching when displayed in garden beds.



PET080 Fire Frost



PET081 Velvet Frost



PET082 Blue Frost



PET083 Cherry Frost



PET085 Red Frost



PET087 Burgundy Frost







PET063 Orchid Vein



PET089 Frost Mix

Petunia-Grandiflora

Petunia x hybrida

Attractive with white stars, lower temperatures will induce larger white stars. Performs well in packs and landscapes.













PET070 Mix Star

PET071 Blue Star

PET072 Red Star

PET073 Crimson Star

PET074 Rose Star

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Jumbo Vein				7-8 cms.	10-20 cms.	
Jumbo Frost	4-5 days	25-30 days	30-35 days	8-9 cms.	15-25 cms.	30-40 cms.
Jumbo Star					20-25 cms.	



Petunia-Grandiflora

Petunia x hybrida

The early flowering, naturally dwarf "Grandis series" combines huge flowers with a unique genetically dwarf plant habit. Does not require any growth regulators (GR).

General Information

Germination : 4-5 days : 25-30 Sowing to transplant days Transplant to 1st flower : 30-35 days Flower size : 8-9 cms. Plant height : 15-25 cms. Plant width : 25-30 cms.



PET201 Blue



PET202 Rose



PET203 Deep Purple



PET204 Purple



PET205 Violet



PET206 Salmon



PET207 White



PET208 Burgundy



PET209 Peach



PET219 Plum



PET233 Pink Morn



PET234 Red



PET235 Red Vein



PET236 Rose Morn



PET237 Rose Vein



PET238 Salmon Morn PET239 Sweet Pink





PET200 Mix

Page 64 : Petunia

Petunia-Trailing

ini Spready

Extremely prolific with petite flowers. Fast flowering and strong branching, filling baskets quickly.





PET111 White

PET113 Rose

PET114 Pink



PET112 Coral Red

PET115 Pink Vein

PET116 Red

PET117 Blue Shades

General Information

Germination	: 4-5	days
Sowing to transplant	: 40-45	days
Transplant to 1st flower	: 35-40	days
Flower size	: 4-5	cms.
Plant height	: 20-25	cms.
Plant width	: 40-55	cms.





PET118 Deep Purple PET119 Yellow

PET120 Mix

Petunia-Trailing Petunia x hybrida

Spready II

"Spready II" is an exciting choice for landscapes and ground cover as well as baskets and patios. Masses of flowers form along the entire length of each branch. "Spready II Petunias" are more Botrytis-tolerant than most Petunias and stand up well to both heat and cooler conditions.







PET191 Pearl

PET192 Lavender

PET195 Pink

PET194 Purple

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Spready II	4-5 days	35-40 days	50-60 days	5-6 cms.	10-15 cms.	55-65 cms.

Page 65 : Petunia

Petunia Growing Information

Most Petunia varieties are available as both raw and pelleted seed. Pelleted seed takes a little longer time (1-2 days) to germinate compared to raw seed and requires more initial moisture. Pelleted seed is easier to handle especially when using seed sowing machines. Germinate seed in a loose, sterile, well draining media, preferably an imported peat, with a minimum media depth of 5-6 cms. If sowing in a seed tray, seed should be sown 0.5 cms. apart on the surface of the media and in rows 5 cms apart. If sowing seed in Plug trays use a 288 plastic tray. Seed must be sown on the surface of the media and MUST NOT BE COVERED. Spray the peat media after sowing with Previcur-N (Previcur-N = Propamocarb hydrochloride) to prevent damping off disease at the rate of 1 cc Prevacure to 1 liter of water and allow to soak into the upper level of the media.

Seeds & Crop information:

Available as raw seed.

Seed Count: approximately 10,000 seeds per gram.

Time from sowing to transplanting: 25-30 days Time from transplanting to first flower: 40-45 days

Growth Stage	Stage 1	Stage 2	Stage 3	Stage 4	
Visual	At the end of stage 1, the roots of the seedlings should be 0.5-0.75 cms long and the cotyledons will have started to emerge.	At the end of stage 2, the roots should be 1.25-2.0 cms long and the first true leaves should be emerging.	At the end of stage 3, the roots should be over 2.5 cms long and well branched. There should be 2-3 sets of true leaves present.	At the end of stage 4, the Petunia plug should have an active root system that binds the media together. So that, the whole plug can easily be removed from the tray without loosing roots or media.	
Moisture	Sow seed on saturated media. When media is lightly touched, water should be observed on the top surface. Level 5**	Reduce moisture level to encourage roots to penetrate the media. Media should be moist to touch but not saturated. Level 3**	Alternate between moisture level 4 and 2 to avoid disease.		
Growing Environment	Sow under 70% plastic shade net.	Keep under 50% plastic shade net.	No shading required.		
Lighting	Light is essential for good germination, 10-100 foot candles (100-1,000 lux), Do not try to germinate Petunia seed in darkness.	Light 1,000-2,500 foot candles.(10,000-25,000 lux)	Normal light. (Full sun)		
Media Temperature	Temp 22-24 degrees centigrade.	Temp 20-24 degrees centigrade.	Temp 18-21 degrees centigrade.	Temp 16-18 degrees centigrade is ideal.	
Fertilizer	No fertilizer	Use a nitrate based fertilizer at about 50-75 ppm.	er Use a nitrate based fertilizer at about 75-100 ppm.		
Media EC (Electro Conductivity	EC<0.75	i mS/cm.	EC 0.75-1.0 mS/cm		

**Refer to page 129

Plug Germination Stages



Stage 1: 4-5 days



Stage 2:5-8 days



Stage 3: 8-12 days



Stage 4: 12-30 days

Page 66 : Petunia





This versatile F1 series maintains a compact growth habit across a wide range of conditions. Vigorous lateral branching produces full, mounded plants with strong flower power. These easy-to-grow plants are day length neutral.





PHL040 Mix



PHL043 Pink



PHL044 Scarlet



PHL046 Blue



PHL048 Crimson



PHL049 White

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
21st Century	4-5 days	25-30 days	40-45 days	2-2.5 cms.	20-25 cms.	25-30 cms.













PlatycodonPlatycodon grandiflorus

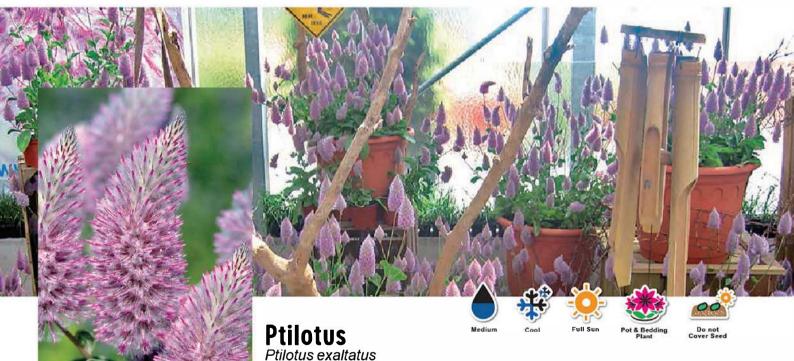
Astra

"Astra" has large star shaped flowers with thick, long lasting petals. Excellent basal branching and continuous blooming. "Astra" can be used as an indoor pot plant, patio plant or garden perennial.

General Information

Germination	: 4-5	days
Sowing to transplant	: 25-30	days
Transplant to 1st flower	: 40-50	days
Flower size	: 4-5	cms.
Plant height	: 20-25	cms.
Plant width	: 15-20	cms.





PTI001 joey

Joey

Sun loving flowers, that are a completely new genus from Australia. Thrives in hot and dry conditions.

General Information Tip: Do not let plugs get root bound.

Series	Germination	Sowing to transplant	Transplant to 1st flower	Spike length	Plant height	Plant width
Joey	5-7 days	20-25 days	75-80 days	10-15 cms.	25-35 cms.	25-35 cms.

Page 68: Platycodon & Ptilotus















Portulaca Portulaca grandiflora

Beauty Hanging

- Trailing portulaca series has the shortest photoperiod on the market today - 10 hours.
- Sow up to 2 weeks earlier than any other trailing portulaca to meet market demands.
- Delivers brilliant colours and fantastic spread in the garden.



General Information Tip: Do not let plugs get root bound.

Series	Germination	Sowing to transplant	Transplant to 1st flower	Spike length	Plant height	Plant width
Happy Trails	4-5 days	30-35 days	40-45 days	3-4 cms.	15-20 cms.	30-35 cms.



POR005 Mix

Portulaca Portulaca grandiflora

- · Uniform plant habit and earliness in series
- Flowers keep flowering from morning to sunset

General Information

Germination	: 4-5	days
Sowing to transplant	: 30-35	days
Transplant to 1st flower	: 20-25	days
Flower size	: 3-4	cms.
Plant height	: 20-30	cms.
Plant width	· 25-30	cms

Page 69 : Portulaca













Ranunculus Ranunculus asiaticus

loomingdale

- · Early flowering
- · Less stretching habit
- · Better basal branching
- · Large and more round shaped foliage can cover pot easily

General Information

Germination : 15-20 days Sowing to transplant : 45-50 days Transplant to 1st flower : 95-100 days : 7-8 Flower size cms. Plant height : 20-25 cms. Plant width : 20-25 cms.













Rudbeckia

Extremely uniform on the bench and very strong in the garden. Excellent growth regulator (GR) response.



RUD025 Tiger Eye Gold

Rudbeckia Rudbeckia hirta

Fully double flowers with strong stems. Plants can be used for home garden cut flowers. Prefers warm climates with full sun for optimum growth.

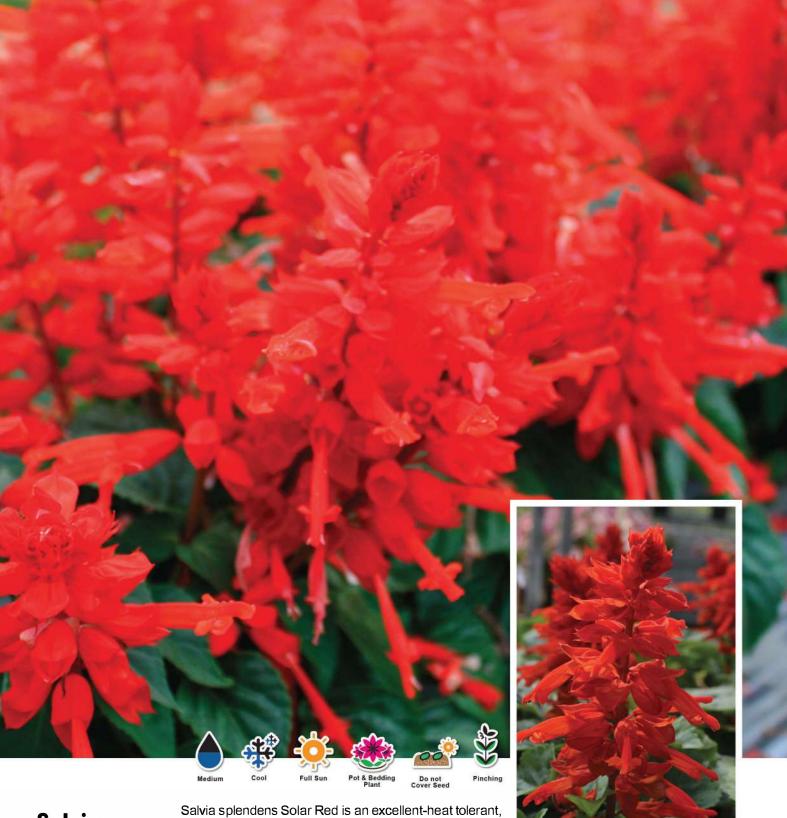


RUD010 Maya

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Tiger Eye	4-5 days	20-25 days	60-90 days	7-8 cms.	40-60 cms.	40-60 cms.
Maya			65-90 days	10-12 cms.	45-50 cms.	35-40 cms.





Salvia Salvia splendens

Solar

Salvia splendens Solar Red is an excellent-heat tolerant, compact variety, well suited to pack culture with excellent outdoor bedding and garden performance. Solar Red is very strong and does not easily fade under hot conditions.

The rich flower color is complemented by the dark green foliage. The plants produce many compact spikes and do not stretch under hot conditions.

General Information

SAL001 Solar Red

Series	Germination	Sowing to transplant	Transplant to 1st flower	Spike length	Plant height	Plant width
Solar	4-5 days	20-25 days	35-45 days	12-15 cms.	25-30 cms.	25-30 cms.

Page 72: Salvia



SAL000 Desert Red



Similar to Mexicana, but with superior basal branching and bright red flower spikes on dark green leaves.



SAL004 Pico Red

Salvia Salvia splendens

The best compact basal branching and early flowering variety. Perfect landscaping. Plants are highly uniform variety for plug and pack production. with deep green leaves. Day length The non-stretching plant habit allows neutral with high seed quality. "Oasis" a long shelf life. High density and bright is the tallest Salvia Splendens. color flowers above dark green foliage.



SAL005 Oasis

Salvia Salvia splendens

A Vigorous Red Salvia suitable for



Salvia splendens

An exceptionally great garden performer. A special variety with tolerance to heat and humidity. Plants are very uniform with a bright red color and firm spikes on top of deep green heart shape leaves.

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Spike length	Plant height	Plant width
Desert Red			35-45 days	12-15 cms.	20-30 cms.	00.05
Pico Red	4.5.455		25-35 days	10-12 cms.	20-25 cms.	20-25 cms.
Oasis	4-5 days	4-5 days 20-25 days	45-55 days	15-20 cms.	30-35 cms.	05.00
Mexicana			35-45 days	12-15 cms.	25-30 cms.	25-30 cms.

Page 73 : Salvia





SAL033 Purple

SAL034 Salmon





SAL036 Red & White

SAL039 Rose





SAL009 Red SAL040 White

SAL046 Lavender

Salvia Spiky

Selected especially for Asia, this Salvia has a wide range of colors from solids to bicolors. "Spiky" is recommended for cooler climates as the spike will last longer with a deeper color. Plants are uniform, early and continuously flower.

- Dense spikes and dark green foliage hold their colour all season.
- · Well-matched in heat tolerance, habit and earliness.
- With a 5 to 7-day flowering window across the series in the greenhouse, Vista can finish 2 to 5 days after other commercial series depending on light conditions, but has better outdoor performance.



SAL010 Mix

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Spike length	Plant height	Plant width
Spiky	4-5 days	20-25 days	45-55 days	15-20 cms.	30-35 cms.	30-35 cms.

Page 74 : Salvia

Salvia Salvia Farinacea Victoria

A very attractive and uniform type of Salvia that is early to flower on compact plants. Heat and rain tolerant.









SAL050 Blue

SAL112 Rhea Blue

SAL063 Bicolour

SAL064 White

Salvia Salvia Coccinea

Summer Jewel Early, easy, fast and compact are key features that will attract growers to the new Salvia Coccinea









SAL066 Red

SAL067 Pink

SAL068 Lavender

SAL069 White

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Spike length	Plant height	Plant width
Victoria	4.5 days	20.25 days	25 40 days	10-12 cms.	40-45 cms.	20-25 cms.
Summer Jewel	4-5 days	20-25 days	35-40 days	15-20 cms.	30-45 cms.	25-30 cms.

Page 75 : Salvia =

Salvia Growing Information

Seeds & Crop information:

General Information	Salvia Splendens	Salvia Farinacea	Salvia Cocinea
Seed Count	250 Seeds	900-1,000 Seeds	550 Seeds
Time from sowing to transplanting	20-25 days	20-25 days	20-25 days
Time from transplanting to first flower	35-55 days	35-40 da y s	35-40 days

Growth Stage	Stage 1	Stage 2	Stage 3	Stage 4
Visual	At the end of Stage 1 germination is complete, the radicle will have emerged and roots are beginning to form.	At the end of Stage 2, the roots are developing, a stem is present and the cotyledons have expanded.	At the end of Stage 3, the roots should be penetrating the plug cell and the first true leaves have developed.	At the end of Stage 4, the roots should hold the plug mass together easily. The shoots should have 2-3 set of true leaves.
Moisture	Sow seed on saturated media. When media is lightly touched, water should be observed on the top surface. Level 5**	Alterna	te between moisture level 4 a avoid disease.	and 2 to
Growing Environment	Germinate under 70% plastic shade net.	Warm : Ke	ep under 50% shading. // Coo	ol : Full Sun
Lighting		germination. Provide es (100-1,000 lux)	Normal ligh	nt (full sun)
Media Temperature	Temp 23-25 degrees centigrade.	Temp 22-23 degrees centigrade.	Temp 20-21 degrees centigrade.	Temp 18-20 degrees centigrade.
Fertilizer	No fertilizer required for germination.	Fertilizer 40-50 ppm N containing a calcium : Use a nitrate based fertilizer at about 75-100 ppm. 1-2 times/week.		
Media EC (Electro Conductivity	0.5-	0.75	0.75	5-1.0

**Refer to page 129

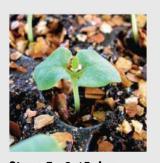
Plug Germination Stages



Stage 1: 4-5 days



Stage 2 : 5-8 days

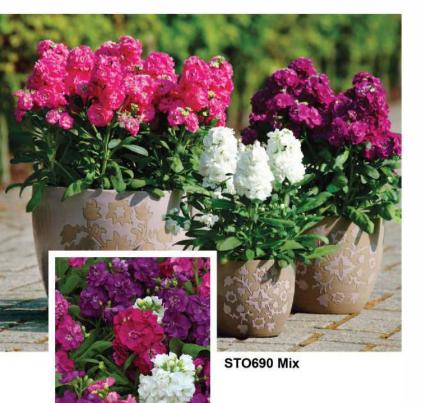


Stage 3: 8-15 days



Stage 4: 15-25 days

Page 76 : Salvia













Stock *Matthiola incana*

Umbrella

To select double flower from plug stage is important for growers. "Umbrella Series" has been bred for easy-to-select concept. You can decide which plug is given double flower. Very well-branched, dwarf plants have highly fragrant, brightly colored blooms.

General Information

Germination : 3-5 days
Sowing to transplant : 20-25 days
Transplant to 1st flower : 40-55 days
Spike length : 15-20 cms.
Plant height : 25-35 cms.
Plant width : 15-20 cms.





THU001 White Black Eye



THU002 Orange Black Eye













Thunbergia

Thunbergia alata

Thunder

An excellent choice for hanging baskets. Plants can be "trained" into many different shapes.

General Information

Germination : 4-5 days
Sowing to transplant : 20-25 days
Transplant to 1st flower : 20-25 days
Flower size : 4-5 cms.

Tip: Pre-soak seed overnight for faster germination.



Torenia

















Temptation

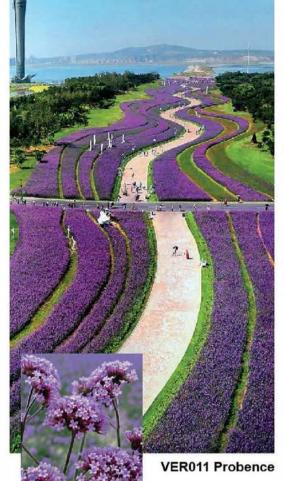
This new compact series is more manageable on the bench and offers the fullest complement of the most vivid colors. Advantages include, extreme heat and humidity tolerance, exotic apperance in small garden settings and perfect suitability for mixed combos and color bowls.

- Compact series offers the fullest complement of the most vivid colours.
- Crop management is easier and more cost-effective with this compact torenia.
- · Superior performance in extreme heat and humidity

TOR037 Blue&White

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Temptation	4-5 days	25-30 days	40-50 days	2.5-3 cms.	15-20 cms.	20-25 cms.













Verbena

Verbena Bonariensis Probence

- Easy to grow
- · Long flowering time
- Heat and rain tolerant
- Amazing flower power
- Bright lavender-purple flower spikes
- Blooming from mid-summer until fall frost

General Information

Germination : 15-20 days Sowing to transplant : 30-35 days Transplant to 1st flower : 35-40 days Flower size : 3-4 cms. Plant height : 100-120 cms. Plant width : 30-35 cms.

Verbena Verbena Bonariensis

Serenity

Dainty branches with a spreading ground cover habit. Masses of delightful little flowers of intense violet blue.



VER020 Mix

Verbena Verbena X hybrida

Naturally compact and well branched pot Verbena. Uniform germination, habit and flowering time. Tolerant of moist media after transplanting. High mildew tolerance.



VER060 Mix

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Serenity	5-7 days	25-30 days	40-50 days	1-2 cms.	20-30 cms.	30-35 cms.
Globe	4-5 days	25-30 days	40-45 days	1.5-2 cms.	15-20 cms.	20-25 cms.

Page 79: Verbena





Verbana Zola

Strong garden performance, with good uniformity and proven mildew tolerance. The spreading mounded plants display huge umbels of large, beautiful florets. Excellent for bedding, hanging baskets and mixed plantings.

General Information

Germination	: 5- 7	days
Sowing to transplant	: 25-30	days
Transplant to 1st flower	: 45-50	days
Flower size	: 1.5-2	cms.
Plant height	: 12-15	cms.
Plant width	: 20-25	cms.



VER031 Red



VER034 Blue with Eye



VER039 Lavender



VER047 Purple



VER032 White



VER036 Burgundy with Eye



VER044 Red with Eye



VER048 Violet with Eye



VER030 Mix

Page 80 : Verbena





















BL®®M

Vinca "MEGA BLOOM" is the largest flowered F1 Vinca from seed. Bred in South East Asia under tropical conditions. "MEGA BLOOM" is exceptionally Heat, Rain and Disease Tolerant

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Mega Bloom	5-6 days	25-30 days	40-45 days	7-8 cms.	20-25 cms.	25-30 cms.

Page 82: Vinca

MEGA® BL#M

F1-Upright Vinca





With its wide range of colors and compact bush habit, "Tropic" has been the choice for most growers in Asia. "Tropic" is highly recommended for regions with warm climates and lowland growing areas. "Tropic" is early flowering with large sized flowers. A true winner suitable for bedding and landscapes.

- Outstanding in hot, dry and sunny conditions and tolerant of cool, wet growing conditions.
- Very floriferous and well-branched plants show off bright flowers with an overlapping, fully rounded form that won't show gaps in hot temperatures



General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Tropic	4-5 days	25-30 days	25-30 days	3.5-4.5 cms.	15-20 cms.	20-25 cms.







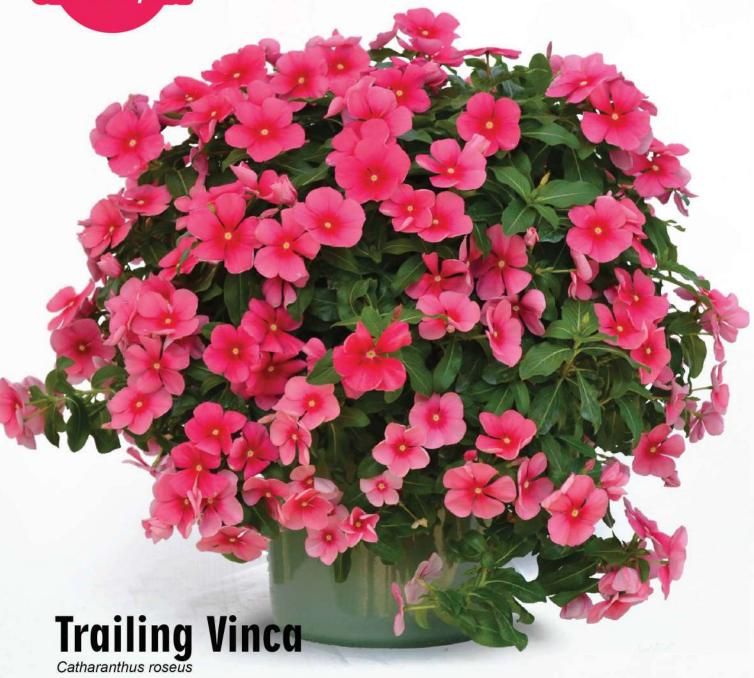












Vinca "MEGA Flow" has vigorous basal branching and big flowers with overlapping petals. Outstanding in sunny, hot and dry conditions. Disease tolerant.

Information

Germination : 5-6 days

Sowing to Transplanting : 20-25 days

Transplanting: 40-45 days to 1st flowering

: 2-2.5 in. (5-6 cm.) Flower size

: 4-6 in. (10-15 cm.) Plant height

Plant width : 20-30 in. (50-70 cm.)







VIN304 Strawberry Red



VIN307 White



VIN302 Rose



VIN305 Peach



VIN308 Dark Red



VIN303 Red



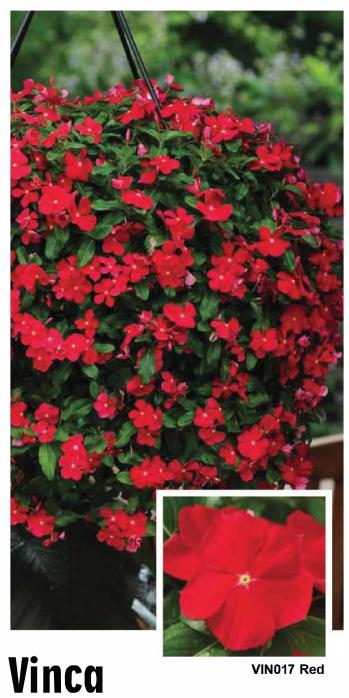
VIN306 Hot Rose



VIN309 Blue



VIN300 Mix



VIN017 Red

Catharanthus roseus Mediterranean

A very popular series of trailing Vinca. The lush, free-flowering plants bloom early with an extensive color range. Outstanding in sunny, hot and dry conditions. "Mediterranean" has vigorous basal branching and big, high-impact looms with overlapping petals.

- The only full series of trailing vinca offering a true red.
- Mediterranean varieties fill in fast with terrific coverage.
- Low water needs.

General Information



VIN001 Lilac



VIN004 Rose Halo



VIN010 Hot Rose



VIN013 Strawberry Red



VIN006 Mix



VIN002 White



VIN007 Deep Orchid



VIN011 Peach Pink



VIN016 Dark Red

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Mediterranean	4-5 days	25-30 days	30-35 days	4.5-5.5 cms.	8-10 cms.	30-50 cms.

Page 88 : Vinca

VincaGrowing Information

Vinca seeds are medium sized making them easy to handle and sow. Tray size 288 is most suitable for sowing seed and producing good healthy plugs. Sow seeds on the top of peat moss media. After sowing use a fine layer of media or vermiculite to cover seeds as Vinca does not need light for germination. Finally, use Prevecure-N (Previcur-N = Propamocarb hydrochloride) mixed with water at the rate of 1 cc Prevacure to 1 liter of water and spray on top of the tray.

Seeds & Crop information:

Seed Count: approximately 430-850 seeds per gram. Available as raw seed.

Time from sowing to transplanting: 25-30 days
Time from transplanting to first flower: 25-35 days

Growth Stage	Stage 1	Stage 2	Stage 3	Stage 4
Visual	At the end of stage 1, the roots of seedlings should be 1-1.5 cms. long and the cotyledons will have started to emerge.	The roots at this stage should be about 2-2.5 cms. long.	Roots have fully penetrated the plug and there should be 2 pairs of true leaves.	Vinca plugs should have a good root system that binds the media in the plug. Plugs should be easy to remove without loosing roots and media.
Moisture	Sow seed on a media having a medium moisture content, Level 4**	Alternate betw	een moisture level 4 and 2 to	avoid disease.
Growing Environment	Under 70% plastic shade net.		No shading required.	
Lighting	Light is not necessary for germination to occur.		Normal light (full sun)	
Media Temperature	24-25 degrees centigrade.		20-21 degrees centigrade.	
Fertilizer	No feri	tilizer	50-75 ppmN	75-100 ppmN
Media EC (Electro Conductivity	<1.5 mS/cm.	0.5-0.75	5 mS/cm	0.75-1.0 mS/cm

**Refer to page 124

Plug Germination Stages



Stage 1: 4-5 days



Stage 2:5-8 days



Stage 3: 8-12 days



Stage 4: 12-30 days

Page 89: Vinca



Zinnia Zinnia hybrida

Zinnias originally came from South America but have been traditionally grown in Asia for many years. Breeding and selection has resulted in superior performance and bright colors.



Fahrenheit page98



Moonlight page100



Dreamland page101



Queen page102





Zinnia Zinnia marylandica

ahrenheit

A spreading habit with vigorous plants. Excellent tolerance to Downy Mildew and other diseases. Good heat resistance

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Fahrenheit	3-5 days	15-20 days	10-15 days	3.5-4 cms.	10-15 cms.	10-15 cms.

Page 91 : Zinnia





ahrenheit Double

"Fahrenheit Double" has attractive double flowered petals. Plants have high disease tolerance making this variety easy to cultivate for all types of growers.

- Award-winning, all-season performance in beds and planters.
- Outstanding disease tolerance and low water needs.

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Fahrenheit Double	3-5 days	15-20 days	45-50 days	3.5-4 cms.	30-35 cms.	30-35 cms.

General Information

Zinnia

Zinnia angustifolia

100n LightSpreading habit ideally suited as a ground cover. Attractive 'Star' shaped flowers. Well adapted to all climates.





ZIN050 Gold

ZIN051 White





ZIN052 Orange

ZIN053 Mix

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Moonlight	3-5 days	15-20 days	15-25 days	3-5 cms.	35-30 cms.	20-25 cms.

Page 93 : Zinnia



Zinnia Zinnia elegans

Dreamland

"Dreamland" is a well known F1 Hybrid Zinnia. Flowers are large with bright colors on top of dwarf plants. Wide adaptability to all climates.

- Early, large dahlia-fl owered type providing a great color show both in containers and in the garden
- Much less instance of Xanthomonas and Alternaria disease problems with Dreamland than other varieties under warm weather conditions
- Excellent choice for pot and pack sales, with great consumer appeal

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Dreamland	3-5 days	15-20 days	25-30 days	9-10 cms.	25-30 cms.	25-30 cms.

Page 94 : Zinnia











ZIN166 Scarlet



ZIN167 Salmon



ZIN168 Yellow



"Queen" is the first choice for professional growers. Typified by exceptionally large, double flowers with a compact plant habit. "Queen Series" has a wide range of colors and a continuous flowering habit. Plants are strong and sturdy, making this variety eminently suitable for transportation.

- Summers that are 'Hot & Dry' are perfect for Queen.
- Large, fully double blooms cover the plant for a beautiful presentation
- outstanding performance.



ZIN160 Mix

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Queen	3-5 days	15-20 days	25-30 days	9-10 cms.	25-30 cms.	25-30 cms.

ZinniaGrowing Information

Zinias can be either direct sown into the final container or started in plug trays. Zinnia seed is large. We suggest using a plug tray of 128 cells per tray, not the normal 288 cells tray.

Seeds & Crop information:

Seed Count: approximately 100-300 seeds per gram.

Available as raw seed.

Time from sowing to transplanting: 15-20 days
Time from transplanting to first flower: 15-30 days

Growth Stage	Stage 1	Stage 2	Stage 3	Stage 4	
Visual	At the end of Stage 1, germination is complete, the radicle will have emerged and roots are beginning to form.	nation is complete, radicle will have ged and roots are the cotyledons have The roots are developing, roots should be penetration the plug cell and the first true leaves have		At the end of Stage 4, the roots should hold the plug mass together easily. The plants should have 2-3 sets of true leaves. Level 2**	
Moisture	Sow on a media that is barely moist. Media should be a medium brown color and the tray feels light. Media should not be "bone" dry. Cover seeds with a light layer of coarse media to maintain moisture levels. Level 3**	Maintain the media on the dry side. When lightly touched, a minimal amount of moisture should be sensed. Level 2**	Level 2**	Level 2**	
Growing Environment	Keep under 70% plastic shade net.		No shading required.		
Lighting	Light is not necessary for germination to occur.		Normal light (full sun)		
Media Temperature	21-24 degrees centigrade.	18-20 degrees centigrade.		17-18 degrees centigrade.	
Fertilizer	No fertilizer	Fertilizer estblished seedlings at 25-50 ppm Fertilizer estblish at 50-75 ppm with a calcium-based fertilizer (13-2-13-6 Ca-3Mg).		alcium-based fertilizer	
Media EC (Electro Conductivity	EC<0.5	EC 0.5-0.75			

**Refer to page 131

Plug Germination Stages



Stage 1: 3-5 days



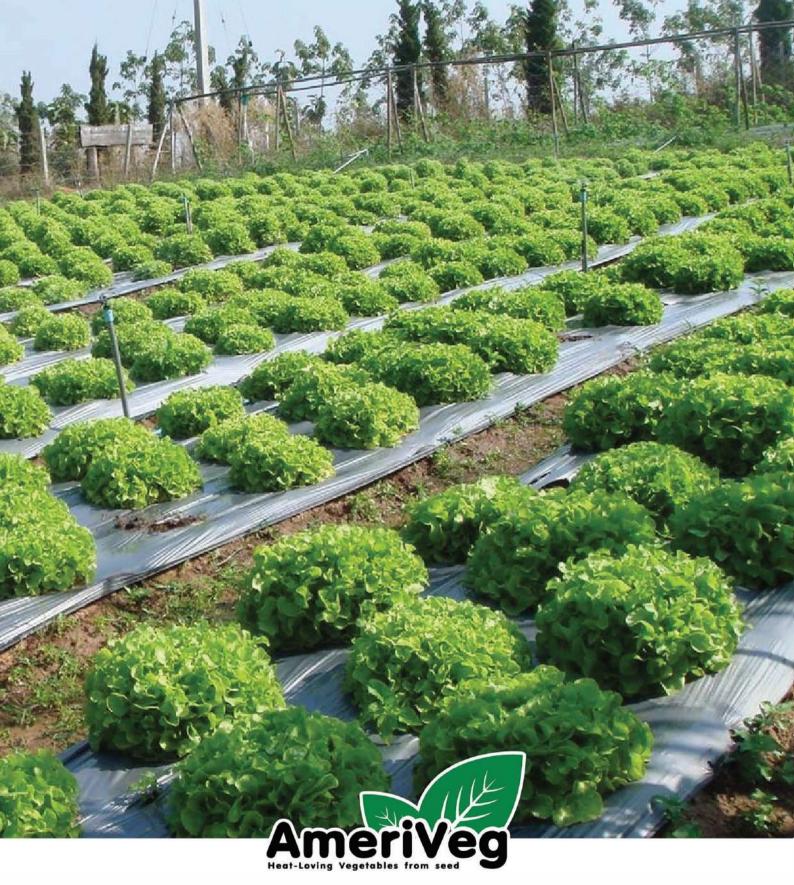
Stage 2:5-7 days



Stage 3: 7-10 days



Stage 4: 10-15 days





Lettuce Page 119



Pepper Page 122



Eggplant Page 123



Tomato Page 123



Tender crinkle curvy red leaves lettuce is available all year round with heat tolerance. The spacing 30x30 cm. is recommended for every season. Average weight is around 90 g. per plant when hervest after 28 days from tranplanting.

Leaf Lettuce Lactuca sativa Green Oak

Tender crinkle curvy light-green leaves lettuce is available all year round with heat tolerance. The spacing 30 x 30 cm. is recommended for every season. Average weight is around 110 g. per plant when harvest after 28 days from transplanting.









Holy Basil Ocimum tenuiflorum

Basil is warm season corp which will grow optimally in areas where daytime temperatures are consistently above 21°C(70°F) and nightime temperatures stay above 10°C (50°F)

Basil is very sensitive to frost and will need protected if a late cold snap is forecast. The plant will grow best in a fertie, moist soil with a PH between 6 and 7. Basil require around 6-8 hours of sun every day benefits from some shade in the afternoon.

General Information

Germination : 7-10 days
Sowing to transplant : 25-30 days
Transplant to ready to use : 30-35 days
Plant height : 30-60 cms.
Plant width : 30-50 cms.



LET021 Red Oak



LET022 Green Oak

General Information

Series	Germination	Sowing to transplant	Transplant to ready to use	Fruit size	Plant height	Plant width
Red Oak	5-7 days	10-15 days	25-30 days	20-25 cms.	10-15 cms.	15-20 cms.
Green Oak	5-7 days	10-15 days	25-30 days	20-25 cms.	10-15 cm.	15-20 cms.



LET023 Iceberg

Leaf Lettuce Lactuca sativa Iceberg

Tender with firmly crisp light-green leaves lettuce. it is available all year round with heat tolerance. The spacing 30 x 30 cm. is recommended for every season. Average weight is around 100 g. per plant when hervest after 30 days from 226 Whith hers.



LET025 Cos

Leaf Lettuce Lactuca sativa

Cos

Light-green long but hard leaves lettuce, yet tender tube shape head. It is available all year round with heat tolerance. The spacing 30 x 30 cm. is recommended for every season. Average weight is around 150 g per plant when harvest after 27 days from transplanting.



LET026 MIni Cos

Leaf Lettuce Lactuca sativa

Mini Cos

Light-green long but hard leaves lettuce, yet tender tube shape head. It is available all year round with heat tolerance. The spacing 30 x 30 cm. is recommended for every season. Average weight is around 125 g. per plant when harvest after 26 days from transplanting.

Leaf Lettuce Lactuca sativa Butter Head

Tender, yet firm curvy light-green leaves wonderful butter head lettuce. It is available all year round with heat tolerance. The spacing 30x30 cm. is recommended for every season. Average weight is round 105 g. per plant when harvest after 30 days from transplanting.



Leaf Lettuce Lactuca sativa Frilly Iceberg

Tender crinkle curvy light-green leaves lettuce is available all year round with heat tolerance. The spacing 30 x 30 cm. is recommended for every season. Average weight is around 110 g. per plant when harvest after 28 days from transplanting.

Leaf Lettuce Lactuca sativa

Baby Red Coral

Coral lettuce with red-purple long crinkled leaves is available all year round with heat tolerance. The spacing 30 x 30 cm. is recommended for every season. Average weight is around 70 g. per plant when harvest after 28 days from transplanting.



LET029 Baby Red Coral

Page 100: Lettuce

Leaf Lettuce Lactuca sativa Red Coral

Red-purple tightly crinkled leaves coral lettuce has soft leaves and delicate to touch. It is available all year round with heat tolerance. The spacing 30 x 30 cm. is recommended for every season. Average weight is around 90 g. per plant when harvest after 30 days from transplanting.

LET028 **Red Coral**



Chilli Pepper Capsicum annuum

Demon Red









Demon Red is a superb, prolific, high yielding ornamental edible pepper with excellent uniformity. Flowers and fruit are produced Fruit color is initially green turning to deep red at maturity. Flesh is very thin.

General Information

Germination	: 5-7	days
Sowing to transplant	: 25-30	days
Transplant to ready to use	: 55-60	days
Plant height	: 15-20	cms.
Plant width	: 15-20	cms.









PEP052 Purple

PEP051 Green

Chilli Pepper Capsicum frutescens

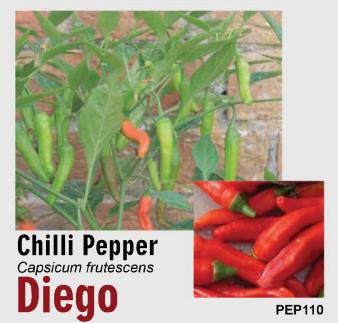
Chili pepper Rio F1 is available in two fruit colors, purple and green (both ripening to red). It is a compact plant for home garden use, with a medium strong pungent flavor and ideal for patio container use. Excellence for sales of young plug plants. Plentiful fruit on each plant. Fruits are typically 8-10 cms. long with typically more than 100 fruits per plant.



Sweet Pepper
Capsicum annuum

Sweet pepper Dolce is a new introduction. It is a compact plant excellent for home garden use. Suitable for young plant production. Fruits are dark green ripening to red. Plentiful fruit on each plant, with excellent sweet flavor.

• Fruits weight: 50-75 g. • Fruits length: 10-15 cms.



Chili pepper Diego is a compact plant for home garden use, with a medium heat flavor and ideal for patio container use. Excellent for sale of young plant as plugs. Fruits are green ripening to red. Plentiful fruit on each plant.

• Fruits weight: 1.5-2 g. • Fruits length: 5-6 cms.

Page 101: Pepper

Eggplant Solanum melongena

Easter









Aubergine Easter is a compact variety available in five colors of egg-sized fruit, ideal for patio container use. Best finished in 13-15 cms. pots. Fruit in profusion, over 20 fruits per plant.

 Emerald : Pale green fruit. · Aubergine : Dark purple fruit.

• Amethyst : Bright colored mid purple fruit.

: Pink-rose colored fruit. Quartz

 Opal : White fruit.

• Fruits weight: 50-80 g. • Fruits length: 10 cms.









EGG002 Aubergine



EGG003 Amethyst



EGG004 Quartz



EGG005 Opal

Tomato

Lycopersicon esculentum









Patio tomato "Salsa" series is offered in three fruit colors with matching habit and performance. Best for containers and hanging baskets. Fruit is cherry sized, sweet and tasty. Fruit in profusion.

• Fruit Weight : 15-20 g. • Fruit diameter : 3 cms.



TOM010 Chocolate



TOM011 Salmon



TOM012 Striped

Page 102: Eggplant & Tomato





AST033 Crimson



AST034 Deep Blue



AST035 Salmon Pink



AST036 Soft Blue



AST037 White



AST038 Red



AST039 Yellow



AST020 Formula Mix

Aster Callistephus chinensis Matado

Matador is our special selection of Matador types producing an upright and well branched plant with fully double flowers.













General Information

Germination
Sowing to transplanting
Transplanting to 1st flower
Flower size
Plant height
Plant width

: 4-8 day : 25-30 day : 120-140 day : 9-10 cm. : 80-90 cm. : 20-25 cm.

Aster **Fruity**

Fruity is more tolerant to Fusarium than other varieties and has strong sturdy stems with fully double flowers. First blooms are similar to Matsumoto types and mature blooms are similar to Powder Puff types.



AST131 Blue



AST136 Light Blue



AST132 Pink



AST133 Rose



AST134 Scarlet



AST135 White

Page 104 : Aster



Aster Matsumoto













Matsumoto is based on the old, popular "Matsumoto" type Aster with semi double flowers. Plants are tolerant to Fusarium. Strong and sturdy stems. Available in many colors.

Harvesting:

Cut stems when 2-3 flowers are 1/4 open.

Tips: Under short days (8-10 hours) provide 4 hours of supplemental lighting for 3 weeks from 10 p.m. to 2 a.m. at the 5th true leaf stage and then apply short day conditions (<12 hours). If plants are too short, maintain lighting for longer than 3 weeks to add height and delay flowering.

General Information

Series	Germination	Sowing to transplanting	Transplanting to 1st flower	Fruit size	Plant high	Plant width
Fruity	5-7 day	25-30 day	115-125 day	5-6 cm.	60-75 cm.	20-25 cm.
Matsumoto	5-7 day	25-30 day	105-115 day	5-6 cm.	60-75 cm.	20-25 cm.







CEL072 Rose



CEL073 Fire



CEL074 Persimmon



CEL075 Carmine



One of the best cockcombs for cut flower production. Strong and sturdy stems with very uniform combs. Under hot conditions Havana keeps its bright colors.

· High quality cut flower

Celosia cristata

- · Very uniform growth pattern
- · Dense plantings produce strong stems
- Produces large, uniform, globe shaped flower heads
- · Highly suitable for cut flower during periods of high temperature

Harvesting: When combs are full and fresh.

Tips: Pinch small flowers of side shoots to retain a good first flower. The size of the comb is determined by plant spacing.











General Information

Germination	: 3-5	day
Sowing to transplanting	: 20-25	day
Transplanting to 1st flower	: 55-60	day
Flower size	: 13-15	cm.
Plant height	: 60-75	cm.
Plant width	: 15-20	cm.
Spacing	: 15 x 15	cm.

The size of the head is determined by plant spacing.

Page 106: Celosia Cristata



SWT011 Coral



SWT012 Purple



SWT013 Red



SWT014 Scarlet



SWT015 White



SWT016 Bicolor



SWT017 Pink



SWT018 Pink Magic

Dianthus Papillon











Papillon produces plants that do not require vernalization. Very uniform in height and flowering time. Suitable for both cut flower and bedding purposes.

Harvesting: When the outer rings of flowers are open.

Tips: Plants can be harvested continuously for approximately 2 to 3 weeks. If cut back, second flushes of flowers will be ready to harvest in 8 to 10 weeks.

- The best commercial D. barbatus series available: year round production...no vernalization needed...10 separate bright colours.
- Top-notch filler series features large, fragrant and long lasting blooms on strong, straight stems.
- · Produces high yields of saleable stems.
- · Very uniform for height and flowering time.
- · Excellent retail holdability.
- Taller growth comes from early, Autumn-transplanted, greenhousegrown plants.



SWT019 Black cherry



SWT020 Deep Pink Maxine



SWT021 Magenta Bicolor



SWT010 Mix

General Information

Series	Germination	Sowing to transplanting	Transplanting to 1st flower	Plant high	Plant width
Papillon	4-5 day	25-30 day	110-115 day	85-90 cm.	25-30 cm.

Page 107 : Dianthus















Drought tolerant with low maintenance. Excellent both fresh or dried. Globular flowers on tall stems, cut flower and dry flower for warm climates.





GOM002 Rose

GOM003 White

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Ruby	3-5 days	20-25 days	65-70 days	2.5-3 cms.	80-100 cms.	35-40 cms.

Gomphrena Carnelian

Large flowers on strong stems. Excellent both fresh or dried.

Harvesting: When flowers are fully open.

General Information

Germination : 3-5 days : 20-25 Sowing to transplant days Transplant to 1st flower : 75-85 days Flower size : 2.5-3.5 cms. Plant height : 60-70 cms. Plant width : 40-50 cms.



GOM004 Orange



GOM005 Red

Page 108 : Gomphrena



HIS031 Lemon



HIS032 Orange



HIS034 Premier Lemon



HIS035 Premier Light Yellow

Helianthus **Sunshine**













General Information

HIS033 Gold

Extra-early flowering with excellent uniformity. Suitable for long day length production (12 -14 hrs.). Sunshine is a non-branching F1 hybrid pollenless Helianthus.

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Sunshine	3-5 days	15-20 days	45-55 days	12-15 cms.	70-80 cms.	20-25 cms.

Helianthus

Vincent

Day length neutral Helianthus. Upright facing flowers with small upper leaves. Pollenless F1 variety with high uniformity of germination and growth.

General Information

Germination : 3-5 days : 15-20 Sowing to transplant days : 40-50 Transplant to 1st flower days : 12-15 Flower size cms. Plant height : 80-90 cms. Plant width : 20-25 cms.



HIS201 Orange Brown Center



HIS202 Orange Green Center

Harvesting: Cut stems when the flowers are 1/4 open with the petals perpendicular to disc.

Page 109 : Nelianthus



- · Wedium-sized, rose-snaped nowers
- Excellent vase life with more usable buds
- · Heavy quality though early flowering

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Rosita2	10-15 days	55-60 days	130-140 days	5-6 cms.	80-90 cms.	15-20 cms.

LIS779

Pink Flash

LIS780 Purple

LIS781

Yellow

^{**} Precooling treatment: Store in a cooling chamber at 10-12 °C for 35 days or 5-6 °C for 14 days to break Rosetting.



Lisianthus Rosita3

Rosita® along with Excalibur, is the standard in double-flowered lisianthus. With thick petals, top flowering and strong stems, it is easy to transport the flowers without botrytis problems. Rosita® 2 and 3 are suitable for spring and early summer flowering. The excellent vase life allows additional enjoyment of these medium-sized, rose-shaped flowers and more useable buds.

- Group 3 / Spray Double Flower
- · Medium-sized, rose-shaped flowers
- · Excellent vase life with more usable buds
- Thick flower petals and top flowering reduce botrytis problems during transportation





LIS766 Green

LIS767 Lavender

Harvesting:

Remove the first bud to increase the number of flower per stem, Harvest when first 3-4 flower are open.

Tips 1: Water managerment is the key to successful Lisianthus Production. Lisianthus does not require high fertilizer levels. Maintain a soil EC level around 1.0-1.3 mmhos. There are two main causes of rosetting. The major reason is high temperatures at the germination and cotyledon stages. The second is root damage caused by drying out from lack of water and burning from high voncentrations of fertilizer.

Tips 2 : Flower bud are initiated by using a relatively high temperature and long day length. The recommended maximum night temperature is 15 C (60 F) and the maximum day temperature is 25 C (75 F)

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Rosita3	10-15 days	55-60 days	140-160 days	5-6 cms.	100-120 cms.	15-20 cms.

^{**} Precooling treatment: Store in a cooling chamber at 10-12 C for 35 days or 5-6 C for 14 days to break Rosetting.







Statice Limonium perezii Maggie









Maggie is a considerable improvement over standard varieties in uniformity, color, flower size and stem quality.



Statice

Dense sprays of small, papery blooms on stiff stems. Easy to grow and drought tolerant.

Harvesting:

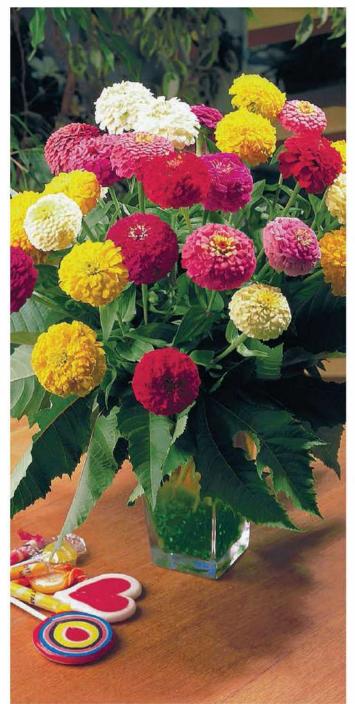
When 80% of the spike is fully open. Do not cut too early as stems may be weak.

Tips: Optimum growing temperatures, Day: 13-16°C, Night: 10-13°C. Statice needs low moisture and fertilizer to avoid weak, thin stems, flower abortion and disease.

General Information

Germination : 5-7 days : 25-30 Sowing to transplant days Transplant to 1st flower : 120-140 days Flower size : 0.5-1 cms. Plant height : 80-90 cms Plant width : 30-40 cms.

Page 112 : Statice





ZIN181 Crimson

ZIN182 GoldenYellow



ZIN184 Pink



ZIN185 Salmon



ZIN180 Mix ZIN186 Scarlet



ZIN187 White

Zinnia elegans

Heaven

Excellent for bedding or as cut flower. Bright colors with fully double flowers. Strong and sturdy stems.

- Heaven is a prolific bloomer producing large pompon flowers on long sturdy stems
- Seedling blight resistant and high yielding, Heaven is ideal for commercial cut flower production

 $\label{eq:harvesting:} \textbf{Harvesting:} \ \text{when flowers are almost fully open.}$

Tips: Zinnia requires long day length (14 hrs.) and cool temperatures for superior quality flowers.











General Information

Germination	: 5-7	days
Sowing to transplant	: 15-20	days
Transplant to 1st flower	: 60-75	days
Flower size	: 8-10	cms.
Plant height	: 80-90	cms.
Plant width	: 40-50	cms.
Spacing	: 30x30	cms.

Page 113 : Zinnia





Zinnia **Sum**o

Fully double high quality flowers. Uniform in growth habit and flowering time. Excellent for bedding or as a cut flower. Vigorous plants with long vase life.

• Fully double flowers on long sturdy stems • Perfect for cut flower production under glass

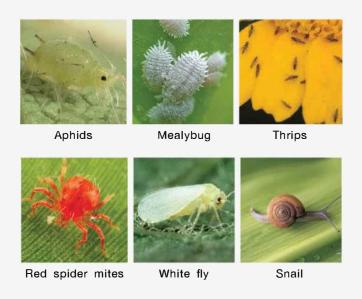
Harvesting: when flowers are almost fully open.

Tips: Zinnia requires long day length (14 hrs.) and cool temperatures for superior quality flowers.

General Information

Series	Germination	Sowing to transplant	Transplant to 1st flower	Flower size	Plant height	Plant width
Sumo	5-7 days	15-20 days	65-70 days	10-12 cms.	100-120 cms.	40-50 cms.

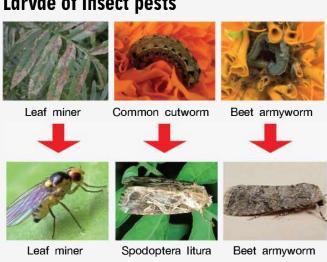
Insect



Insect damage

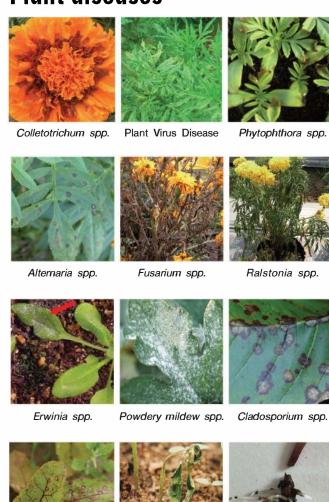


Larvae of Insect pests





Plant diseases



Pythium spp.

Cercospora spp.

Rhizoctonia spp.

How to use Chemical Insect & Plant diseases

Insect & Chemical

Insect	Chemical					
Aphids	Cypermethrin, Abamectin, Petroleum oil					
Mealybug	Cypermethrin, Abamectin, Petroleum oil					
Thrips	Abamectin, Imidacloprid, Cartap Hydrochloride, Fipronil, Dinotefuran, Dimethoate					
Red spider mites	Fenpyroximate, Amitraz, Tebufenpyrad, Propargite, Pyridaben, Hexythiazox					
White fly	Imidacloprid, Dinotefuran, Acetamiprid					
Leaf miner	Abamectin, Imidacloprid, Cartap Hydrochloride, Fipronil, Dinotefuran, Acetamiprid					
Beet armyworm	Cypermethrin, Abamectin, Methomyl, Fipronil					
Snail	Metaldehyde					

^{*} Thrips and Red spider mites should be sprayed between 11:00 - 14:00.

* Leaf miner and Beet armyworm should be sprayed between 08:00 - 09:00. or 15:00 - 18:00.

Plant diseases & Chemical

Plant diseases	Chemical					
Botrytis spp.	Mancozeb, Metalaxyl, Fosetyl-Aluminium, Carbendazim, Triforine, Carbendazim					
Pythium spp.	Hymexazol, Propamocarb Hydrochloride, Etridiazole-Quintozene					
Alternaria spp.	Iprodione, Difenoconazole, Carbendazim, Thiophanate Methyl					
Phytophthora spp.	Mancozeb, Metalaxyl, Ethaboxam					
Fusarium spp.	Mancozeb, Metalaxyl, Etridiazole-Quintozene, Carboxin					
Ralstonia spp.	Streptomycin sulfate					
Virus	Solution for improve virus effect is remove Thrips, Aphids and White fly					
Powdery mildew spp.	Sulfur , Mancozeb , tetraconazole					
Cladosporium spp.	Mancozeb, Carbendazim, Thiophanate Methyl, Prochloraz					
Cercospora spp.	Iprodione, Difenoconazole, Carbendazim, Thiophanate Methyl					
Rhizoctonia spp.	Etridiazole					
Erwinia spp.	Bordeauxmixture					
Colletotrichum spp.	Prochloraz					
Hollow stem spp.	Add Calcium Boron					

Plant Name	Series	Seed per gram (Seed)	Germination (Day)	Sowing to 1st flower (Day)	Flower size (Cm.)	Plant Height (Cm.)	Plant Width (Cm.)	Spike Length (Cm.)	Note
Ageratum	Puffy	6,600	3-5	70-80	e.	10-12	20-30	-	Increasing daylength (14 hrs.) will promote early flowering and improve quality.
Alyssum	Perfume	3,700	3-5	60-70	0.5-1	10-25	25-30		-
Angelonia	Angelina	1,000	4-5	90-100	-	30-35	30-35	8-12	Heat Tolerant, Drought Tolerant, Low Maintenance.
Antirrhinum	Dragon	5,700	5-7	110-115	87	45-60	25-30	15-20	÷
	Dwarf Dragon	4,500-7,000	5-7	70-80	9	20-25	20-30	8-10	2
	Falling Dragon	250 Pellet	5-7	100-110	2-2.5	10-15	25-30	-	4
Aster	Milady	570-600	4-8	75-85	7-8	10-15	15-20	-	-
Begonia	Bronze Adam	- 70	7-10	90-100	3-3.5	10-15	25-30	18	Compact and all color flowers at the same time.
	Green Eve	Rew : 90,000-120,000 Pellet : 1,000	7-10	90-100	3-3.5	10-15	25-30	-	Compact and all color flowers at the same time.
	Super Sumo	90,000-120	5-10	110-120	4-5	30-50	30-40	-	Super size, Extra large flower.
	Lava	00-1 \$ 1,0	7-10	110-120	4-5	30-40	40-50		Drought and rain tolerant.
	Dragon Wing	20,00	7-10	110-120	4-5	30-40	35-45		
	Double Flora	8	7-14	130-140	7.5-10	20-25	20-25	15	,
Cabbage	Nagoya		3-5	70-80	-	20-25	25-30	-	For Coloring :
	Osaka	300	3-5	70-80		20-25	25-30	-	Day Temperature : ~20 °C
	Pigeon		3-5	70-80	q:	20-25	25-30	В	Night Temperature : ~13 °C
Canna	Tropical	5	12-15	110-115	2	60-75	35-40	T.E.	Extra Dwarf.
Calendula	Eclipse	150-175	3-5	60-65	8-10	20-25	25-30	-	Early flowering and perfrom well in cool weather.
Carnation	Lollipop	420	5-7	135-200	4-5	20-25	15-20	-	Genetically compact carnation.
Celosia	Comb	1,300	8-10	50-60		45-60	25-30	15-20	Large flower heads.
	Castle	1,600	3-5	45-55	5	20-25	20-30	20-25	Semi-dwarf.
	Flame	1,600	3-5	50-60	-	10-15	25-30	20-25	Long plumes and flower color dose not fade.
	Century	1,600	7-10	55-65	(5)	40-45	20-25	25-30	Semi-tall, Very Large and long plumes.
	Kimono	1,600	7-10	55-70		15-20	20-25	15-20	Dwarf, Plumes and plump.
Cineraria	Jester	3,400	3-5	115-125	4-5	20-25	30-35	1.01	,
Cleome	Dynamite	500	5-7	65-75	10-15	70-100	20-25	-	Extremely heat and rain tolerant.
Calibrachoa	Shining Star	900	5-7	110-120	3-4	20-30	25-35		

Plant Name	Series	Seed per gram (Seed)	Germination (Day)	Sowing to 1st flower (Day)	Flower size (Cm.)	Plant Height (Cm.)	Plant Width (Cm.)	Spike Length (Cm.)	Note
Coleus	Kong	3,000-4,000	5-7	65-80	æ	45-50	40-45	*	Extremely large leaves.
	Wizard	3,000-4,000	5-7	60-75	a.	25-30	25-30	2	Medium size leaves, an excellent choicefor shade plantings.
Cosmos	Double Sensation	150-200	3-5	35-45	4-5	80-100	25-30		
	Sensation	150-200	3-5	35-45	4-5	90-120	25-30		÷
	Sonata	150-200	3-5	35-45	4-5	45-50	25-30	121	Heat tolerant.
	Lovebird	150-200	3-5	45-55	3-4	35-40	20-25	21	Flower from is similar to "Seashells".
	Bright Lights	150-200	3-5	40-50	4-5	75-80	25-30		Orange and Yellow shades.
	Honey	150-200	3-5	40-50	3-4	30-35	25-30	=	Highly adaptable to a wide range of climates.
Dahlia	Early Brid	100	3-5	55-65	5-6	40-45	30-35	E)	Dark foliage and semi to fully double flowers.
	Tender Heart	100	3-5	50-55	5-6	30-35	15-20	5	9
	Figaro	100	3-5	55-65	5-6	20-25	30-35	-	*
Dianthus	Star	850-1,100	4-5	50-60	3-3.5	15-20	20-25		Heat tolerance.
	Telstar	850-1,100	4-5	50-60	2.5-3	15-20	15-20		High degree of resistance to Phytophthora damp-off pathogens.
	Blaze	1,100-1,200	4-5	70-80	4-5	15-20	15-20	15:	8
Dichondra	Emerald	200-600	4-5	85-95	-	5-10	100-120	Ē	Grows best in warm and dry conditions. Under hot climate.
	Silver Fall	200-600	4-5	85-95		5-10	25-30	-	Emerald should grow in partial shade to avoid leaf burn.
Dusty Miller	Silver Dust	2,000-2,500	5-7	70-80	4	20-30	25-30	15	Striking leaves.
	New Look	2,000-2,500	5-7	70-80	2	20-30	25-30	÷.	Silvery white leaves with wooly hairs.
Eucalyptus	Silver Dollar	1,250	4-5	120-130		50-60	30-40	-	
Gaillardia	Triton	250	5-7	85-100	6-7	20-25	25-30	-0	Continuous blooming all summer long.
Gazania	New Day	200-250	5-7	50-60	6-7	10-15	25-30	5	-
	Kiss	200-250	5-7	50-60	6-7	10-15	25-30	8	5
	Big Kiss	200-250	5-7	50-60	7.5-8.5	10-15	30-35	-	
Gerbera	Pride	250	5-7	80-90	8-10	20-30	20-25	-	
Geranium	Quantum	245	5-7	120-135	10-12	30-40	30-40	(5)	Heat torlerance and long flowering in regions with high temperatures.
	Twister	245	4-5	90-105	10-12	25-30	25-30	169	Increasing daylength (14 hrs.) will promote early flowering and improve quality
Gloxinia	Double Brocade	26,	8-10	130-140	4-5	15-20	20-25	-	100% double flowering.
Gomphrena	Gnome	26,000-30,000	4-5	60-70	1-2	20-25	25-30		4

Plant Name	Series	Seed per gram (Seed)	Germination (Day)	Sowing to 1st flower (Day)	Flower size (Cm.)	Plant Height (Cm.)	Plant Width (Cm.)	Spike Length (Cm.)	Note
Gypsophila	Garden Bride	23,000	5-7	55-70	0.5	10-15	15-20		*
	Gypsy	23,000	5-7	55-70	0.5	10-15	15-20	150	
Hypoestes	Dottie	880	3-5	55-65	+	15-20	15-20		High temperature with too much light will cause leaves to curl.
Hibiscus	New Moon	93	5-7	85-90	15-20	60-80	50-60	127	Increasing daylength (14 hrs.) will promote early flowering.
	Disco Belle	80-100	5-7	85-95	20-25	60-70	45-60	848	Increasing daylength (14 hrs.) will promote early flowering.
Hilianthus	Solar Angel	40	2-3	60-70	13-15	25-30	20-25	141	2
	Big Smile	40	2-3	50-60	8-12	20-25	20-25	(4)	
Hollyhock	Spring Celebrities	230	3-5	150-175	:4	100-150	45-60	55-80	
Impatiens	Summer	1,500-2,000	4-5	50-60	3-4	25-30	25-30	2 4 5	
	Cashmere	1,700	4-5	50-65	3-4	25-30	35-40	(+)	Mimimal fertilizer will keep plants compact
	Toffy	1,500-2,000	4-5	50-60	3-4	15-20	30-35	3.53	and promote flowering.
	Divine	600	5-7	75-90	5-6	25-35	30-35	67)	
Lavender	Wonderland	700-1,300	15-20	115-160	:3	30-35	25-30	121	Lavender must receive vernalization for flower induction.
	Spanish	700-1,300	15-20	130-170	E	25-30	25-30	·	Lavenders are long day plants.
Linaria	Marvelous	14,000	5-7	55-70	1-1.5	20-25	20-25	5-6	
Lisianthus	Rosie	700-1,000 P.	8-10	160-170	8-10	20-25	15-20	141	2
Millet	Purple King	120-160	2-3	70-75	12	120-150	20-30	20-25	2
Marigold (Americ	can)					Please see p	age 58.		
Marigold (French	٦)					Please see p	age 58.		
Melampodium	Show Star	180-300	3-5	65-75	2-2.5	25-30	25-30	.*:	,
	Derby	180-300	3-5	65-75	225	25-30	25-30	3 5 0	
	Golden Globe	180-300	3-5	65-75	2-2.5	25-30	25-30	i.e.:	۵
Mimulus	Monkey Face	20,000	5-7	65-80	4-5	15-20	15-20	150	
Nasturtium	Spray	6-8	3-5	70-75	4-5	25-30	30-35	3.53	Sow directy into final container or into garden flower beds.
Osteospermum	Passion	70-100	4-5	85-100	6-7	15-25	25-30	12	Provide night-cold treatment(10-13 °C) to nicrease number of flower buds.
Pansy&Viola	Smile	700-800	4-5	65-80	7-8	20-25	15-20	12)	활
	Free Fall	1,000-1,400	4-5	60-75	23.5	12-15	20-25	242	⊻
	Baby Face	1,000-1,400	4-5	55-70	2-3	10-15	8-10	541	2

Page 121: Flower General Information

Plant Name	Series	Seed per gram (Seed)	Germination (Day)	Sowing to 1st flower (Day)	Flower size (Cm.)	Plant Height (Cm.)	Plant Width (Cm.)	Spike Length (Cm.)	Note
Pentas	Morning Star	1,600	7-10	75-85	0.5	40-45	30-45	5	Cultivate on the dry side for compact growth and to promote flower development.
Pepper	Hyper	300	5-7	90-100	2.5-3	10-15	15-20	ā	w)
	Hot Chilli	300	5-7	85-120	1-1.5	10-15	15-20	+	9
	Hyper Cream	300	5-7	80-90	3-3.5	15-20	20-25	2	(a)
Petunia	Radiance		5-6	65-75	6-7	15-20	75-90	2	
	Jumbo		4-5	50-60	5.5-6.5	10-20	25-30		
	Jumbo Vein	9,500.	4-5	55-65	7-8	10-20	30-40	*	
	Jumbo Frost		4-5	55-65	89	15-25	30-40	-	Trailing Petunia, Flower production will be delayed
	Jumbo Star	,500-10,000	4-5	55-65	8-9	20-25	30-40	¥	by about 2 weeks if plants are pinched.
	Grandis	00	4-5	55-65	8-9	15-25	25-30	*	
	Mini Spready		4-5	75-85	4-5	20-25	40-55		
	Spready II		4-5	85-100	5-6	10-15	55-65	5	
Phlox	21 st Century	600-800	4-5	65-75	2-2.5	20-25	25-30	5	120
Platycodon	Astra	1,000-1,200	4-5	65-80	4-5	20-25	15-20	÷	Excessive moisture causes root rot.
Ptilotus	Joey	800	5-7	95-105	2	25-35	25-35	10-15	Thrives in hot and dry conditions.
Portulaca	Beauty Hanging	8,500-10,000	4-5	70-80	3-4	15-20	30-35	٥	Increasing daylength (14 hrs.) will promote early flowering.
	Daylight	8,500-10,000	4-5	50-60	3-4	20-30	25-30	¥	Increasing daylength (14 hrs.) will promote early flowering.
Ranunculus	Bloomingdale	1,300	15-20	140-150	7-8	20-25	20-25	*	Optimum growing 10-15 °C underlong daylength(>13 hrs.) and can produce rhizomes.
Rudbeckia	Tiger Eye	1,400	4-5	80-115	7-8	40-60	40-60	*	Rudbeckia is long day plant. Increasing
	Maya	1,800	4-5	85-115	10-12	45-50	35-40	×	daylength (14-16 hrs.) will help initiate flowering.
Salvia	Solar	250	4-5	55-70	n	25-30	25-30	12-15	Excellent heat tolerant and does not easily fade under hot conditions.
	Desert Red	250	4-5	55-70	-	20-30	20-25	12-15	H2
	Pico Red	250	4-5	55-60	-	20-25	20-25	10-12	(7),
	Oasis	250	4-5	65-80	-	30-35	25-30	15-20	320
	Mexicana	250	4-5	55-70	2	25-30	25-30	12-15	20
	Spiky	250	4-5	65-80	2	30-35	30-35	15-20	Recommended for cooler climates as the spike will last long with a deeper color.
	Victoria	900-1,000	4-5	55-65	-	45-50	20-25	10-12	Heat and rain tolerant.
	Summer Jewel	550	4-5	55-65	į.	30-45	25-30	15-20	(2)

Plant Name	Series	Seed per gram (Seed)	Germination (Day)	Sowing to 1st flower (Day)	Flower size (Cm.)	Plant Height (Cm.)	Plant Width (Cm.)	Spike Length (Cm.)	Note
Stock	Umbrella	500-850	3-5	60-80	-	25-35	15-20	15-20	-
Thunbergia	Thunder	40	4-5	40-50	4-5	-	-	-	-
Torenia	Temptation	1,000-1,250	4-5	65-80	2.5-3	15-20	20-25	-	Extreme heat and humidity tolerance.
Verbena	Probence	400-500	5-7	65-80	1-2	20-30	30-35	-	Heat & rain tolerant.
1	Serenity	960	4-5	65-75	1.5-2	15-20	20-25	-	Spreading ground cover habit.
	Globe	400-500	5-7	70-80	1.5-2	12-15	20-25	-	High mildew tolerance.
	Zola	400-500	5-7	70-80	1.5-2	12-15	20-25	-	Good uniformity and Proven midew tolerance.
Vinca	Mega Bloom	500-600	5-6	65-75	7-8	20-25	25-30	-	Very largest flower. Heat, Rain and disease tolerant.
	Tropic	430-850	4-5	50-60	3.5-4.5	15-20	20-25	-	Recommended for regions with warm climates and lowland growing areas.
	Mega Flow	500-600	5-6	60-70	5-6	10-15	50-70	-	Outstanding in Sunny, hot & dry conditions.
	Mediterranean	430-850	4-5	55-65	4.5-5.5	8-10	30-50	-	Outstanding in Sunny, hot & dry conditions.
Zinnia	Fahrenheit	300-350	3-5	25-35	3.5-4	10-15	10-15	-	Excellent tolerance to Downy Mildew.
	Fahrenheit Double	300-350	3-5	60-70	3.5-4	30-35	30-35	-	High disease tolerance.
	Moon Light	2,300	3-5	30-45	3-5	20-25	20-25	-	<u>.</u>
	Dreamland	100-120	3-5	40-50	9-10	25-30	25-30	-	-
	Queen	100-120	3-5	40-50	9-10	25-30	25-30	-	-
Plant Name	Series	Seed per gram (Seed)	Germination (Day)	Sowing to ready to use (Day)	Flower size (Cm.)	Plant Height (Cm.)	Plant Width (Cm.)	Spike Length (Cm.)	Note
Basil	Holy Basil	~1,000	7-10	55-65	-	30-60	30-50	-	-
Lettuce	Red Oak	~1,000	5-7	35-45	-	10-15	15-20	-	<u>-</u>
	Green Oak	~1,000	5-7	35-45	-	10-15	15-20	-	
	Iceberg	~1,000	5-7	35-45	-	10-15	15-20	-	-
	Cos	~1,000	5-7	35-45	-	10-15	15-20	-	-
		5-7	35-45	-	8-10	7-10	-	-	
	Butter Head	~1,000	5-7	35-45	-	10-15	15-20	-	-
	Frilly Iceberg	~1,000	5-7	35-45	-	10-15	15-20	-	-
	Baby Red Coral	~1,000	5-7	35-45	-	10-15	15-20	-	_
	Red Coral	~1,000	5-7	35-45	-	10-15	15-20	-	<u>-</u>

Plant Name	Series	Seed per gram (Seed)	Germination (Day)	Sowing to ready to use (Day)	Flower size (Cm.)	Plant Height (Cm.)	Plant Width (Cm.)	Spike Length (Cm.)	Note
Chilli Pepper	Demon Red	250-300	5-7	80-90	1-2	15-20	15-20	5	
	Rio	250-300	5-7	75-95	8-10	70-80	35-40	20	*
	Dolce	250-300	5-7	75-95	10-15	50-60	35-40	+	
	Diego	250-300	5-7	75-95	5-6	50-60	45-50	2	4
Eggplant	Easter	200-250	5-7	35-45	8-10	70-80	40-50	2	÷
Tomato	Salsa	300-350	5-7	55-65	2.5-3	20-25	55-60	2	4
Plant Name	Series	Seed per gram (Seed)	Germination (Day)	Sowing to 1st flower (Day)	Flower size (Cm.)	Plant Height (Cm.)	Plant Width (Cm.)	Spike Length (Cm.)	Note
Aster	Matador	450-600	4-8	145-170	9-10	80-90	20-25	-	-
	Fruity	450-600	5-7	140-155	5-6	60-75	20-25	*	*
	Matsumoto	450-600	5-7	130-145	5-6	60-75	20-25	-	Plant are tolerance to Fusarium.
Celosia	Havana	1,100-1,200	3-5	75-85	13-15	60-75	15-20		The size of the comb is determined by plant spacing.
Dianthus	Papillon	900-1,200	4-5	135-145	(5)	85-90	25-30	5	₹
Gomphrena	Ruby	400	3-5	85-95	2.5-3	80-100	35-40	+	
	Carnelian	250	3-5	95-110	2.5-3.5	60-70	40-50	2	
Helianthus	Sunshine	20	3-5	60-75	12-15	70-80	20-25	=	4
	Vincent	20	3-5	55-70	12-15	80-90	20-25	2	-
Lisianthus	Rosita2	700-1,000	10-15	185-200	5-6	80-90	15-20	*	Store in a cooling chamber at 10-12 °C for 35 day
	Rosita3	700-1,000	10-15	195-220	5-6	100-120	15-20		or 5-6 °C for 14 day to break rostting.
Statice	Maggie	330-350	5-7	145-170	0.5-1	80-90	30-40	-	Statice needs low moisture and fertilizer
	Golf	330-350	5-7	145-170	0.5-1	80-90	30-40	-	to aviod weak, thin stems.
Zinnia	Heaven	120-130	5-7	75-95	8-10	80-90	40-50	-	Increasing daylength (14 hrs.) will promote early flowering.
	Sumo	70-80	5-7	80-90	10-12	100-120	40-50	**	Increasing daylength (14 hrs.) will promote early flowering.

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