

Fred C.
Gloeckner
&
Company,
Incorporated



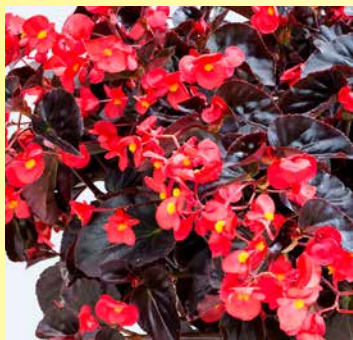
SEED CATALOG | 2020-2021



NEW

FEATURED NEW SEED PRODUCTS

NEW



**Begonia Viking XL
Red on Chocolate**

See Page 12.



**Cosmos
Apricot Lemonade**

See Page 71.



**Digitalis
Pink Panther**

See Page 115.



**Impatiens Beacon
Mix Select**

See Page 26.



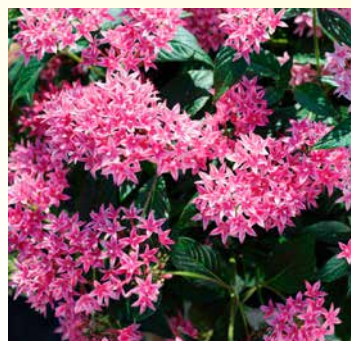
**Leucanthemum
Madonna**

See Page 119.



**Sunflower
Marley**

See Page 90.



**Pentas Graffiti 20/20
Flirty Pink Bicolor**

See Page 38.



**Scabiosa Qis
Black Purple**

See Page 83.



**Stock Anytime
Lavender**

See Page 87.



**Sunflower
Pro Cut Horizon**

See Page 90.



**Tomato Funnyslums
Red**

See Page 136.



**Vinca Cora XDR
Mix**

See Page 56.



**Zinnia Holi
Mix**

See Page 60.



**Zinnia Profusion
Cherry Bicolor**

See Page 61.



**Gerbera FloriLine Maxi
Mix Winter**

See Page 103.



**Herb Basil
Prospera**

See Page 127.

ORDERING INFORMATION

By Phone*: 800-345-3787/914-698-2300

Request assistance and order direct with your local field representative – see pages 4-7. **Hablamos Español.*

By E-Mail: info@fredgloeckner.com

Online: New and improved www.fredgloeckner.com

By Mail: Fred C. Gloeckner & Co., Inc.
550 Mamaroneck Ave.
Harrison, NY 10528-1609

By Fax:

Seed Division: 914-698-0848

International Division: 914-698-2840

Purchase Orders:

Purchase orders gladly accepted from accredited universities, government entities and non-profit organizations.

International Orders:

It's easy to conduct international business with Gloeckner. We have all of the support personnel and systems in place to assure 100% customer satisfaction, no matter the destination of the order. A *pro forma* invoice will be provided to you complete with delivery times, CIF or C & F destination pricing and shipping charges.

Phone: 914-698-2300 ext.131 or 133

E-Mail: malvarez@fredgloeckner.com

Fax: 914-698-2840

Mail: See above

Large Volume Quotes/Bids:

For large volume, bid or contract special pricing requests, please contact our Seed Department direct at 800-345-3787.

PAYMENT INFORMATION

Credit Cards:



Check or Money Order: Make checks or money orders payable in US dollars, drawn on a US bank to:

Fred C. Gloeckner & Co., Inc.
550 Mamaroneck Ave.
Harrison, NY 10528-1609

Wire Transfers: All wire transfers accepted in US dollars.
Please reference invoice number.

Bank: Wells Fargo Bank, N.A.

Account #: 4122247935

ABA #: 121000248

SWIFT Reference: W F B I U S 6 S

Open Account: Net 30 days.

Credit applications are available at www.fredgloeckner.com or by calling 800-345-3787.

Dear Friends,

It is with great pleasure that we present you with the latest edition of the *Fred C. Gloeckner Seed Catalog*. With over 500 new varieties, expanded Cut Flowers and Vegetable sections, as well as additional Culture and Reference Materials, we believe you'll agree it is our best to date!

This catalog is just one of many tools that make doing business with Gloeckner easy and convenient. Our expanded Online 24/7 ordering platform – Storefront has expanded online inventory, images, and features over 10,000 seed listings ready for timely delivery. Additionally, we have experienced Field Representatives across the country and in select international markets to assist you in all facets of your business. This includes young plants, plugs, bulbs, perennials, and grower supplies in addition to our extensive seed selection.

In this, our 85th year of business, we remain committed to providing you with all the necessary resources to accelerate your business. One example of this commitment can be seen on the back cover. As a certified Philips LED Horti Partner, Gloeckner is able to offer customized lighting solutions, for your growing and propagation areas, such as we did with Lucas Greenhouses in Monroeville, NJ.

With the industry innovating and evolving at a rapid pace, we eagerly embrace the opportunity to be your consultative partner. The best is yet to come!

Joseph A. Simone

President, CEO

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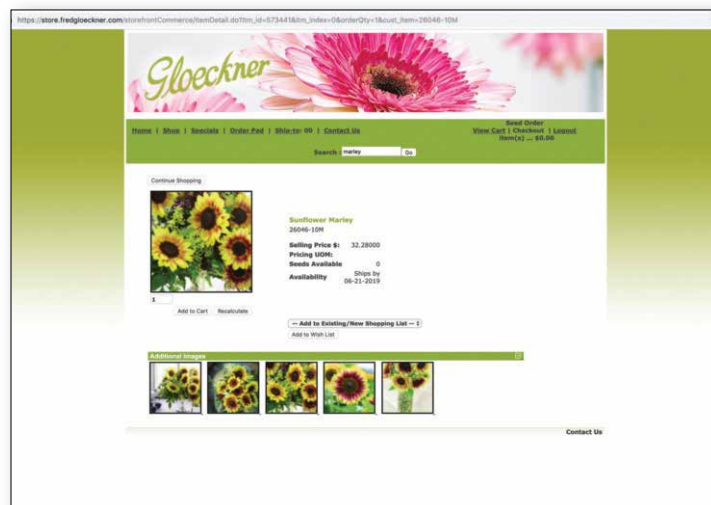
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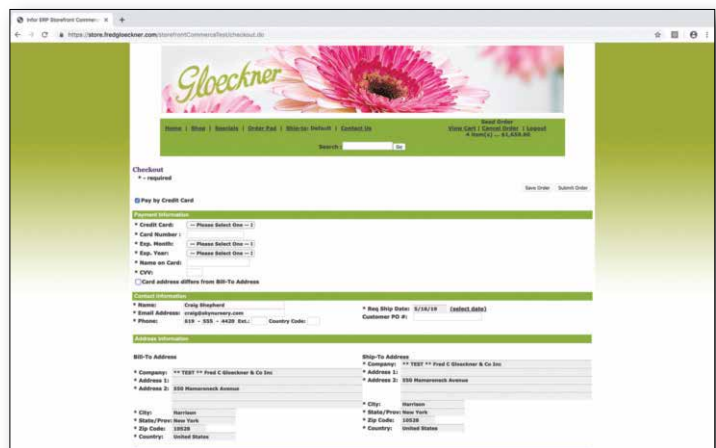
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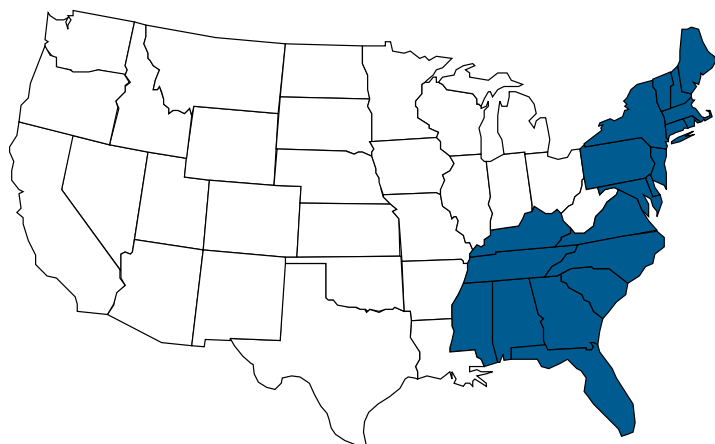
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Why wait? Sign up today.

Just email your Gloeckner field representative or visit www.FredGloeckner.com





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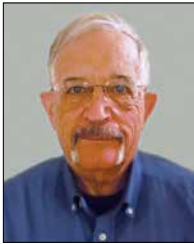
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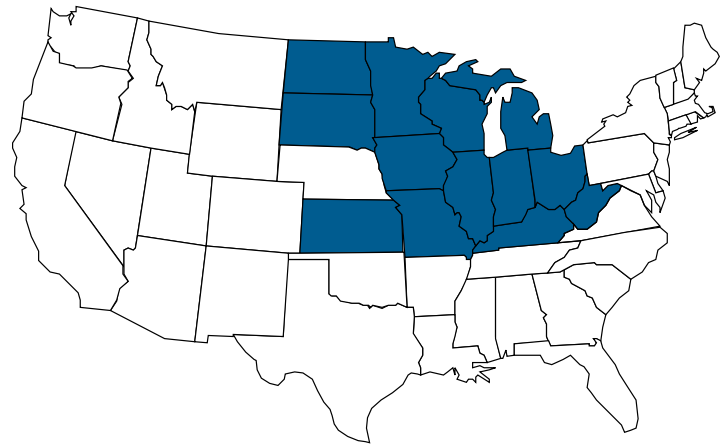
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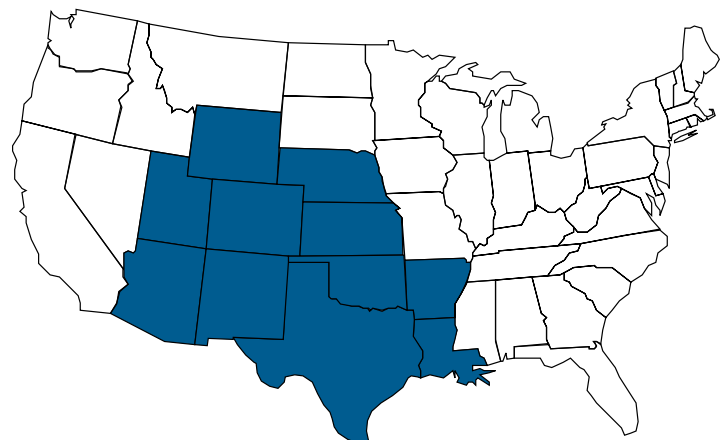
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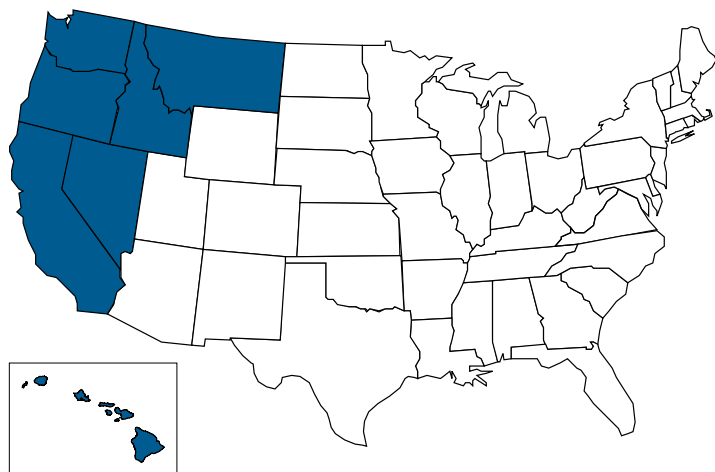
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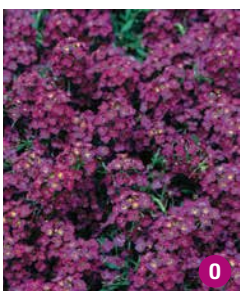
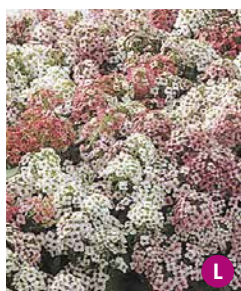
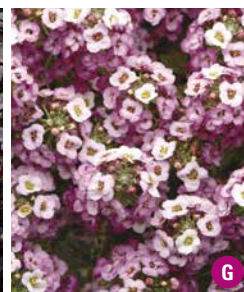
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BEDDING PLANTS

AGERATUM



Ageratum

A. houstonianum

Also see Cut Flowers
78°-85°F. 7-10 days. Do not cover seed.
Crop Time: Packs, 12-13 weeks

Aloha Series

Early and dwarf, well suited for packs and 4 in. Height: 6-8 in. Spread: 6-8 in. Pelleted seed.

23362 Blue A

23364 White B

High Tide Series

Excellent landscape performers, form a dense, mounded hedge of color. Good alternative to vegetative ageratum. Ideal for 4-6 in. pots, premium packs and mixed containers. Height: 24 in. Spread: 12 in. Pelleted seed.

11042 Blue C

11043 White D

Alternanthera

72°-76°F. 3 days. Grow on 65°F.

Crop Time: 4 in., 4-5 weeks

Purple Knight

Striking dark purple foliage accent plant. Vigorous, upright, spreading habit that arches over the edge of containers. In full sun the foliage is darkest. Exceptional heat tolerance. Height: 16-20 in. Spread: 2-3 ft.

11063 Purple Knight E

Purple Prince

First compact seed alternanthera. An easy to grow alternative to vegetative. Compare to Little Ruby. Height: 10-16 in. Spread: 18-20 in.

25352 Purple Prince F

Alyssum

Lobularia maritima

75°-82°F. 6-10 days. Do not cover seed.

Crop Time: Packs, 6-8 weeks

Clear Crystals Series

First pigmented tetraploid. White has darker foliage and cleaner flower than Snow Crystals. Height: 6-10 in. Spread: 12-14 in. Weeks to Flower 10-12. Filmcoated seed.

18985 Lavender Shades G

18989 Purple Shades H

18991 White I

18987 Mix

Easter Bonnet Series

Uniform habit; excellent performance in flats, packs and gardens. Height: 3-4 in. Spread: 10-12 in. Filmcoated seed.

22496 Deep Pink

22497 Deep Rose

22498 Lavender

22499 Lemonade J

22502 Peach K

22503 Violet

22504 White

22501 Mix Pastel

22500 Mix. Blend of all colors. **L**

Giga

Biggest flowered Tetraploid white available. Height: 3 in. Spread: 10 in. Multi-seed pellets.

23641 White M

Snow Crystals

Pure white, 8-10 in. large flowers. Height: 4 in. Spread: 12-14 in.

11077 Snow Crystals N

Wonderland Series

Well matched for plant height and bloom time. Height: 4-6 in. Spread: 8-12 in. Multi-seed pellets.

19291 Blue

11083 Deep Purple O

11085 Deep Rose

11087 Lavender

19954 Pink

11096 White

11089 Mix P



Anemone

A. coromaria
50°-60°F. 14-21 days. Cover seed.
Crop Time: 4 in., 19-20 weeks.

Harmony Double Series

Sister series to Harmony, more compact, topped with unique double flowers. Height: 6-8 in. Spread: 5 in.

25425 Blue **A**
25424 Scarlet **B**
25426 White **C**
25427 Mix

Harmony Series

First genetically dwarf anemone available as seed. Ideal holiday plant for Valentine's Day, Easter, and Mother's Day. Height: 6-8 in. Spread: 5 in.

11122 Blue
11124 Orchid
11125 Pearl
11126 Scarlet
11127 White
11123 Mix

Angelonia

A. angustifolia
74°F. 4-5 days. Do not cover seed.
Crop Time: Packs, 13-16 weeks

Serenita Series

Improvement over Serena series. More compact and manageable. 'Elegant and Tough' performer. Economical alternative to vegetative material. Well branched without pinch. Great for landscapes in hot climates. Height: 12-14 in. Spread: 12-14 in. Pelleted seed.

22507 Lavender Pink
23921 Pink **D**
22509 Purple
22510 Raspberry
26488 NEW Rose **E**
24424 Sky Blue **F**
22511 White
22508 Mix **G**

Bacopa

Sutera cordata
68-77°F, 4 days. Do not cover seed.
Crop Time: 4 ½ in., 8-10 weeks

Utopia Series

First ever bacopas from seed which means easy crop scheduling, quick turns, no pinching. Blue flowers 10 days earlier than white, and blue is slightly more mounded. Best in 10-12 in. baskets, 4 ½ in. pots. Multi-seeded pellet.

18603 Blutopia Blue
26489 Pinktopia Pink
18604 Snowtopia White **H**

Begonia

B. benariensis

BIG Series

New interspecies cross. Large, 3 in. flowers, above glossy bronze and green leaves. High seed quality and uniform plug growth. Blooms early and all summer in sun and

shade. Crop Time: 6-8 weeks in plug and 13-14 weeks in 4 ½ in. pot. Height: 12-14 in. Spread: 15 in. Pelleted seed.

26695 NEW Pink Bronze Leaf **I**
23719 Pink Green Leaf **J**
19002 Red Bronze Leaf **K**
19003 Red Green Leaf **L**
19004 Rose Bronze Leaf **M**
24173 Rose Green Leaf **N**

B. boliviensis

Crop Time: 4 ½ in., 14 to 16 weeks. 10 in. basket, 15 to 18 weeks

Bossa Nova Series

Bright, well branched plants with short internodes. Great for any climate, thrives in heat. Height: 12-16 in. Spread: 16-20 in. Pelleted seed.

26748 NEW Night Fever Papaya **O**
23794 Orange **P**
24267 Pink Glow **Q**
24268 Pure White
23795 Red **R**
23796 Rose **S**
25030 Yellow **T**
23798 Mix

BEDDING PLANTS

BEGONIA



Begonia *continued*

Sun Cities Collection

The first Begonia boliviensis from seed. Self-cleaning, shatterproof. Grows upright then cascades. Thrives in any location; full sun, part shade, tolerates heat and extreme weather. Beautiful in beds, containers, and baskets. Height: 12-16 in. Spread: 16-20 in. Pelleted seed.

24177 San Francisco
24953 Santa Barbara
22427 Santa Cruz

B. interspecific hybrida

Crop Time: Packs and 4 in., 13 to 17 weeks

Megawatt Series

For early season. Does well in heat and drought, prefers partial sun. Height: 20-28 in. Spread: 16-24 in. Pelleted seed.

25090 Pink Bronze Leaf
25968 **NEW** Pink Green Leaf **A**
25354 Red Bronze Leaf
25091 Red Green Leaf
25092 Rose Bronze Leaf
25093 Rose Green Leaf

NEW Tophat Series

Biggest blooms and only series in its class with white. Bred for versatility, easy to finish in 306 packs up to large patio containers. Height: 16-20 in. Spread: 20-24 in. Pelleted seed.

26111 **Pink** **B**
26815 **Rose Bicolor** **C**
26112 **Scarlet** **D**
26113 **White** **E**

B. x hybrida

Crop Time: 6 in., 14-17 weeks

Baby Wing Series

Smaller, wing shaped leaves and about 2 weeks earlier to flower. Easy to control habit, so it's easier to ship and tighter spacing at 10-12 in. Extremely heat and stress tolerant. Some leaf bronzing in the sun. Pot size: 4-10 in. and hanging baskets. Height: 12-15 in. Spread: 10-12 in. Pelleted seed.

24425 Bicolor
11497 Pink
24427 Red
11498 White
22519 White Bronze Leaf
24426 Mix

Dragon Wing Series

Heat tolerant, excellent in hanging baskets and large containers. Performs well in garden beds. More vigorous with a denser habit than other Angel Wing begonias. Large, solid green wing shaped leaves. Height: 12-15 in. Spread: 15-18 in. Pelleted seed.

11514 **Pink**
11515 **Red**

Funky Series

Large double, frilled flowers. Easy to grow and ship. Withstands full sun of partial shade. Height: 8 in. Spread: 8 in. Pelleted seed.

26696 **NEW** Light Pink **F**
26697 **NEW** Orange **G**
24942 **Pink** **H**
26698 **NEW** Scarlet **I**
26699 **NEW** White **J**

Gryphon

A foliage begonia similar to Rex, without powdery mildew. An inner specific cross. Plant is the size of Dragon Wing. Needs shade. Works well in 4 ½-10 in. containers. Quicker to produce than vegetative. Height: 14-16 in. Multi-seed pellets.

19998 **Gryphon** **K**

NEW Viking Series

Large, all weather begonia for landscaping and large containers, which includes unique 'chocolate' foliage. Crop time: 15-20 weeks. Container: 4-6 in. and larger. Height: 20-24 in. Spread: 24-28 in. Pelleted seed.

26589 **Coral Flame on Bronze** **L**
26586 **Coral Flame on Green** **M**
26591 **Pink on Chocolate** **N**
26585 **Pink on Green** **O**
26587 **Red on Bronze** **P**
26590 **Red on Chocolate** **Q**
26584 **Red on Green** **R**
26588 **Rose on Bronze** **S**

She wants something
“WOW!”
to post on social media.



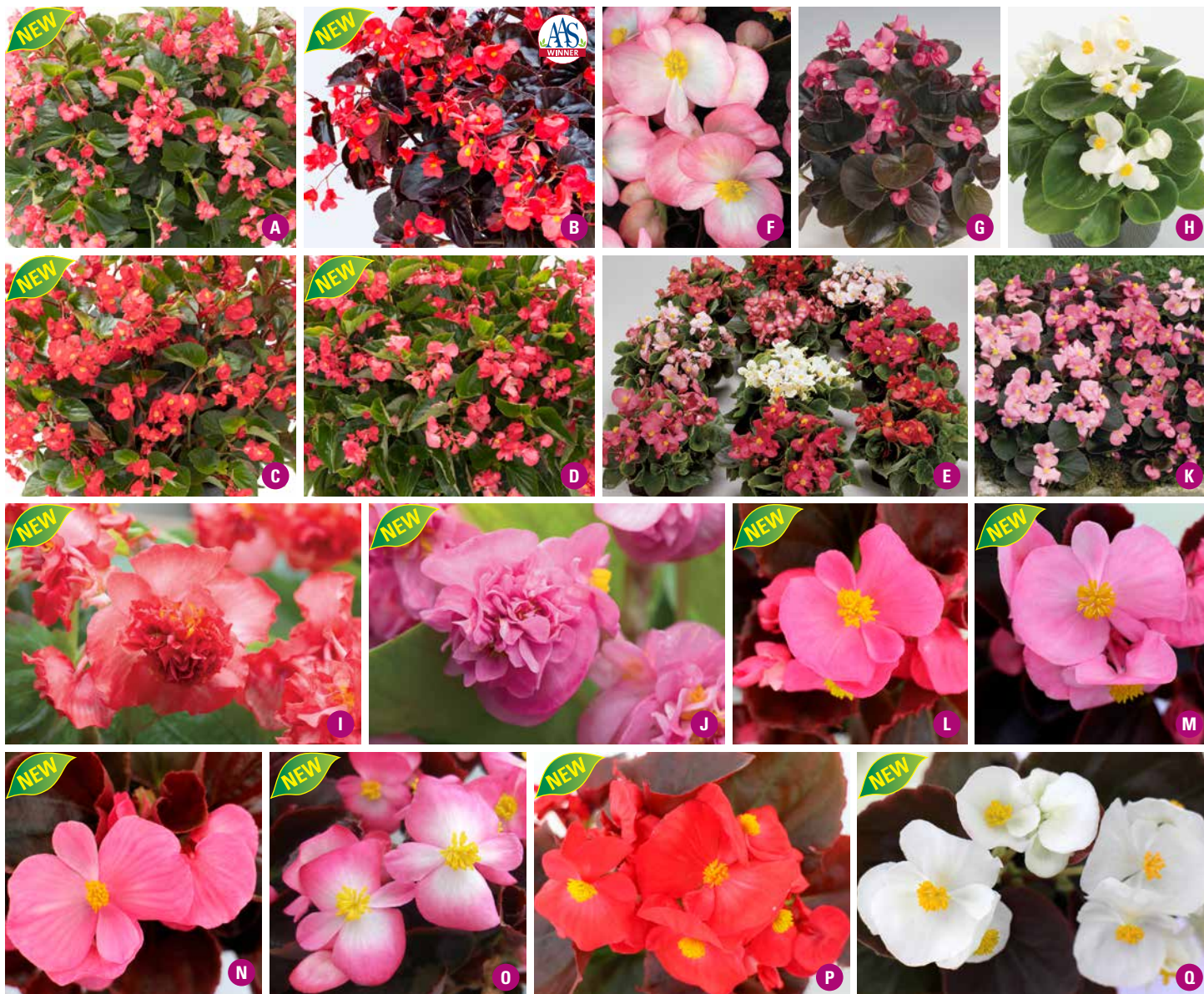
You want something easy to grow, colorful with great sell-through.
You both want Funky™ Begonias. From your begonia experts at Benary.

To find out more about our Begonia x hybrida F₁ series Funky™,
go to www.benary.com

 **Benary**
beautyinside®

BEDDING PLANTS

BEGONIA



Begonia continued

NEW Viking XL Series
Extra-large, all weather begonia for landscaping and large containers, which includes unique 'chocolate' foliage. Crop time: 18-21 weeks. Container: 8 in. and larger. Height: 28-34 in. Spread: 32-36 in. Pelleted seed.

- 26594 **Pink on Green** **A**
- 26595 **Red on Chocolate**. **AAS Winner**. **B**
- 26592 **Red on Green** **C**
- 26593 **Rose on Green** **D**

B. semperflorens

72°-80°F. 15-20 days.

Crop Time: Packs, 14 -16 weeks

Ambassador Series

Rich green leaf series, extra early production. Large flowers on dwarf plants. Outstanding in the garden with proven superiority in branching and heat tolerance. Height: 8-10 in. Spread: 10-12 in. Pelleted seed.

- 11487 **Bicolor**
- 11488 **Coral**
- 11491 **Pink**

- 11493 **Rose**
- 11492 **Rose Blush**
- 11494 **Scarlet**
- 11496 **White**
- 11490 **Mix** **E**

Bada Series

Very uniform to flower across series and 10-14 days earlier than market leader. Height: 8-10 in. Spread: 6-8 in. Pelleted seed.

Bada Bing (green leaf)

- 18610 **Pink**
- 18611 **Rose Bicolor**
- 18612 **Rose**
- 18613 **Scarlet**
- 18608 **White**
- 18609 **Mix**

Bada Boom (bronze leaf)

- 18617 **Pink**
- 18618 **Rose**
- 19726 **Rose Bicolor** **F**
- 18614 **Scarlet**
- 18615 **White**
- 18616 **Mix**

Cocktail Series

Extremely well matched and reliable, top selling bronze leaf series. Height: 6-8 in. Spread: 10-12 in. Pelleted seed.

- 11505 **Brandy**. Light pink.
- 11506 **Gin**. Rose.
- 11508 **Rum**. White with rose edge.
- 19983 **Tequila**. Deep rose. **G**
- 11509 **Vodka**. Red.
- 11510 **Whiskey**. White.
- 11507 **Mix**

Emperor Series

Earliest series on the market with more usable seedlings and improved profitability. More vigorous habit in the garden than Ambassador series with larger flowers that do not fade. Height: 12-14 in. Pelleted seed.

- 11517 **Pink**
- 11518 **Red**
- 11519 **Rose**
- 11521 **White** **H**
- 11516 **Mix**

NEW Fiona Series

Semi-double flowers, with high petal count. Early, and uniform, with strong upright habit. Plug crop time: 5 weeks. Transplant to finish: 6-8 weeks. Height: 8-10 in. Spread: 8-10 in. Pelleted seed.

- 26669 **Red** **I**
- 26670 **Rose** **J**

Nightlife Series

Earliest flowering bronze leaved series. Large vibrant flowers contrast against darkest foliage available in early begonias. Height: 6-8 in. Spread: 10-12 in. Pelleted seed.

- 20012 **Blush**
- 11527 **Deep Rose**
- 18620 **Pink**
- 11529 **Red**
- 11531 **White**
- 11528 **Mix** **K**

NEW Senator IQ Series

Darkest foliage on the market. Big bold blooms, and compact non-stretching, mounding habit. Height: 8 in. Spread: 8 in. Pelleted seed.

- 26279 **Deep Rose** **L**
- 26280 **Pink** **M**
- 26281 **Rose** **N**
- 26282 **Rose Bicolor** **O**
- 26283 **Scarlet** **P**
- 26284 **White** **Q**
- 26285 **Mix**

Viking XL Red on Chocolate



Viking & Viking XL

Begonia

Viking Pink on Green



Conquer the Garden!

The all-weather begonia for landscaping and large containers. Available in green, bronze and deep chocolate leaf colors—no other begonia series in this class offers chocolate. Available in two sizes—Large and X-Large!

Viking XL Red on Chocolate has been identified as a 2019 All-America Selections Winner for Superior Garden Performance in the Ornamental Seed Trial.



To order, contact your Gloeckner representative today!

Bloom!
It's in our nature.

SAKATA®

www.sakataornamentals.com

BEDDING PLANTS

BEGONIA



Begonia continued

Sprint Plus Series

Replaces Sprint series, faster by 7 days. Most uniform series, with great vigor. Height: 4 in. Spread: 10-12 in. Pelleted seed.

- 24934 Appleblossom **A**
- 24935 Blush **B**
- 26315 **NEW** Lipstick **C**
- 26316 **NEW** Orange Bicolor **D**
- 24936 Orange **E**
- 24937 Pink **F**
- 24938 Red **G**
- 24939 Rose **H**
- 24940 White **I**
- 24941 Mix Maxi **J**

Super Olympia Series

Earlier, larger flowers, more uniform, brighter colors, and excellent landscape performance. Height: 6-8 in. Spread: 10-12 in. Pelleted seed.

- 19692 Bicolor
- 11567 Pink
- 11568 Red
- 11569 Rose
- 11570 White
- 11566 Mix

Topspin Series

Cold tolerance, providing lower energy costs in production. Height: 8-10 in. Spread: 6-8 in. Pelleted seed.

- 24960 Pink **K**
- 24961 Rose **L**
- 24962 Scarlet
- 24963 White
- 24959 Mix

B. tuberhybrida

72°-80°F: 15-28 days. Do not cover seeds.

Crop Time: 10 in., 19-21 weeks

Nonstop Series

Double and semi-double. Very free blooming, a cross between multiflora and a large flowered strain. Containers: 4-6 in. pots. Height: 8-10 in. Spread: 10-12 in. Pelleted seed.

- 11463 Appleblossom
- 21019 Deep Rose
- 18607 Deep Salmon
- 11470 Orange
- 11471 Pink
- 22426 Red
- 11472 Rose Petticoat. Rose and white bicolor.
- 11476 White
- 11477 Yellow

- 21020 Yellow w/Red Back
- 11469 Mix

Nonstop Joy Series

More vigorous, mounded globe habit. For baskets, larger containers, and landscapes. Better branching with huge double flowers. Height: 8-10 in. Spread: 8-10 in. Pelleted seed.

- 25641 Mocca White
- 24175 Yellow

Nonstop Mocca Series

Improved in earliness and rich coffee colored foliage over Ornament series. Timing matches original Nonstop series. Fully double 4 in. flowers. Height: 8-10 in. Spread: 8-10 in. Pelleted seed.

- 24176 Bright Orange **M**
- 23358 Cherry
- 11532 Deep Orange
- 18622 Pink Shades
- 25642 Red **N**
- 11535 Scarlet
- 11536 White
- 11537 Yellow
- 11533 Mix **O**

New Star Series

Multiflora tuberous rooted type. Unique species cross with Elatior. No PGR's needed. Compact habit and smaller leaves allow for easy shipping. For 4 1/2 in. pots or less. Pelleted seed.

- 20008 Red **P**
- 20009 Rose **Q**
- 20010 White
- 20011 Yellow
- 20007 Mix

On Top Series

Many small Picotee flowers 'on top' of compact, multi-branching plants. Tolerates more heat and sunlight. Height: 6-10 in. Spread: 8-13 in. Pelleted seed.

- 24898 Fandango **R**
- 24899 Melon Lace
- 24900 Pink Halo **S**
- 24901 Sun Glow **T**
- 24902 Sunset Shades

Picotee AmeriHybrid Series

Large bi-colored blossoms. Height: 10-15 in. Spread: 15-20 in. Pelleted seed.

- 24908 Apricot Lace
- 24903 Calypso
- 24904 Flamenco

CANNA



24909 Pink Lace
24910 Red Lace
24905 Sunburst
24906 White Pink
24907 White Red

Roseform AmeriHybrid Series

Large 4-8 in. blooms with smooth petals that appear three-dimensional in comparison to other varieties. Height: 14-20 in. Spread: 15-20 in. Pelleted seed.

24912 Peach
24913 Pink **A**
25224 Red
24914 Rose **B**
24915 Salmon
24916 Scarlet Orange
24917 White **C**
24918 Yellow

Ruffled AmeriHybrid Series

Highly consistent double flowers with the largest blooms available at 5-9 inches. Height: 10-14 in. Spread: 15-20 in. Pelleted seed.

24919 Apricot
24924 Coral Salmon **D**
24921 Mandarin Orange **E**
24922 Pink
24925 Scarlet Red

24926 White
24927 Yellow **F**

Sun Dancer Series

Excellent branching habit and large double flowers for hanging baskets. Height: 12-18 in. Spread: 18-30 in. Pelleted seed.

24889 Apricot
24891 Pink
25223 Red
24892 Salmon
24890 Scarlet Orange
24894 White Pink Picotee
24895 White
24897 Yellow Red Picotee
24896 Yellow

Calendula

70°F. 7-10 days. Cover seed.

Crop Time: Packs, 15-16 weeks

Bon Bon Series

Very uniform, 2 1/2-3 in. flowers. For 4 in. pots and flats. Height: 12 in. Spread: 6-8 in.

11646 Apricot
11647 Light Yellow
11649 Orange
11650 Yellow
11648 Mix

Calibrachoa

C. x hybrida

73°F. 5-12 days. Cover seed optional.

Crop Time: 4-6 in., 12-13 weeks

Kabloom Series

First seed calibrachoa – a game changer in the industry! Shows as much color as every mid-vigor vegetative variety. Height: 8-12 in. Spread: 10-14 in. Precision Multi-Pellets.

26492 NEW Blue **G**
26493 NEW Cherry **H**
26494 NEW Coral **I**
26495 NEW Denim **J**
26496 NEW Light Pink Blast **K**
26497 NEW Orange **L**
26498 NEW Pink **M**
26500 NEW White **N**
26499 NEW Yellow **O**

Canna

C. generalis

75°-80°F. 8-12 days. Cover seed.

Crop Time: 4 in., 14-17 weeks

South Pacific Series

Vigorous, compact, virus free and day-length neutral. Well branched and excellent repeat blooming on multiple spikes. First hybrid canna from seed. Best in 6 in. pots and larger. Crop Time: 5-6 weeks sowing to transplant, 80-110 days to flower. Height: 2 ft. Spread: 12-18 in.

26260 NEW Ivory **P**
26261 NEW Orange. AAS Winner. **Q**
26262 NEW Rose **R**
22718 Scarlet. AAS Winner. **S**

Tropical Series

Extra dwarf. Ideal for pots and bedding. Likes it wet and warm. Works in ponds, do not let dry out. Height: 24-30 in. Spread: 16-18 in.

21032 Bronze Scarlet. Bronze leaf.
11704 Red
11705 Rose. AAS Winner.
11706 Salmon
11707 White
11708 Yellow **T**

BEDDING PLANTS

CARNATION



Carnation

68°-70°F. 7-10 days. Cover seed lightly.

Crop Time: 4 in., 22-25 weeks

Can Can Series ✂

Heady spice fragrance. Heat and cold tolerance. 2 in. consistently double flowers for cut flower arrangements and pot plant production. Height: 12-14 in. Spread: 8 in. Treated seed.

23671 Rose
11715 Scarlet. AAS Winner.
21033 Mix Cocktail Party A

Fragrance

Remains erect and compact all season, no support. Fragrant double flowers in a wide range of colors. Height: 12-14 in.

11716 Fragrance Dwarf Mix

Celosia

Also see Cut Flowers and Pot Plants

75°-80°F. 5-10 days. Cover seed very lightly

Crop Time: 4 in., 13 weeks

C. plumosa

(Plumed/Feathery Type)

Bright Sparks Series

Large 3-4 in. tall x 3 in. wide plumes on plants with extra branching, which provides more secondary flowers that match in size as primary flowers. Heat tolerant and long lasting. Height: 11-13 in. Spread: 10-12 in.

25737 Bright Yellow B
26122 NEW Burgundy C
25739 Scarlet D
25740 Mix E

Castle Series

Plants are base branching, free blooming, non-fading and remarkably long lasting. Tolerant of both heat and drought. Height: 12-16 in. Spread: 12-14 in.

11771 Orange
11772 Pink. AAS Winner.
11773 Scarlet
11774 Yellow
11770 Mix F

Century Series ✂

Beautifully formed colorful plumes up to 12 in. in length. Can be grown as cuts with proper culture. Crop Time: 9-10 weeks.

Height: 12-16 in. Spread: 8 in.

11776 Fire. Scarlet.
25428 Pink G
11778 Red. Bronze-leaved.
11779 Rose
26286 NEW Salmon Pink H
11780 Yellow
11777 Mix I

Dragon's Breath ✂

Fantastic performance under hot and humid conditions. Abundance of vibrant red foliage that is perfect in mixed containers, local market cuts, and fall landscapes. Height: 24 in. Spread: 16 in.

24511 Dragon's Breath J

NEW Fashion Look

Contains green-leaved Fresh Look and bronze-leaved New Look. Height: 14 in. Spread: 12 in. Pelleted seed.

26998 Fashion Look Mix K

First Flame Series

Finishes 2 weeks earlier, reducing production costs. Ideal border and container plant. Branches well, and uniform across all colors. Crop Time: Plug 3-4 weeks, finish 8-10 weeks. Height: 14-20 in. Spread: 10-16 in.

Filmcoated seed.

26061 NEW Purple L
23246 Red
25360 Scarlet M
23247 Yellow N
25361 Mix O

NEW Fresh Look Series

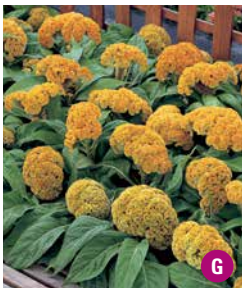
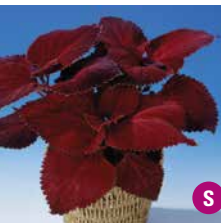
Vigorous and robust plants with feathery dense plumes. Height: 14 in. Spread: 12 in. Pelleted seed.

26999 Gold. AAS Winner.
27001 Orange
27002 Red. AAS Winner.
27003 Yellow. AAS Winner.
27000 Mix P

NEW Glorious Series

Replaces Glory series with short crop times, and very narrow flower window across colors. Height: 8-12 in. Spread: 6-8 in. Pelleted seed.

27005 Orange
27006 Pink
27007 Red
27008 Yellow Q
27004 Mix



Ice Cream Series

Combines earliness with a well-branched plant habit. Flower induction is promoted by short day conditions. Height: 12 in. Spread: 10 in. All colors in price booklet. Filmcoated seed.

11814 Ice Cream Mix **A**

Kimono Series

Extremely uniform, extra dwarf earliness and plume size uniformity. For pack and pot. Height: 6-8 in. Spread: 8 in. All colors in price booklet.

11819 Kimono Mix **B**

New Look

Bronze-leaved, carmine red plumes. Height: 14-16 in. Spread: 12 in. Pelleted seed.

27009 New Look

Smart Look Series

More compact, better branched than New Look. Height: 10 in. Spread: 8 in.

27010 Red. Bronze-leaved. Pelleted seed.

20066 Romantica. Plumes mature from creamy salmon to a deep pink. Stems and leaf veins are a deep contrasting red. Filmcoated seed. **C**

C. cristata (Cockscomb Type)

Armor Series

Large colorful flower heads sit nicely above robust plants with lush foliage. Vigorous plants thrive in hot weather. Height: 12-15 in.

20055 Orange **D**

20056 Purple **E**

20057 Red **F**

20058 Yellow **G**

24882 Mix **H**

Dracula Series

Unique and dramatic shape and dark color. Plug: 3-4 weeks. Finish: 6-8 weeks. Height: 8-16 in. Spread: 8-12 in. Filmcoated seed.

25094 Dracula **I**

Prestige

Scarlet flowers compliment the dark bronze green leaf color. Large 3 in. globe shaped flowers. Height: 12 in. Spread: 10-12 in.

11842 Prestige Scarlet. AAS Winner. **J**

Chrysanthemum

C. paludosum

60°-65°F. 10-14 days. Do not cover seed.

Crop Time: Packs, 10-11 weeks

Snowland

Large, clear white blooms average 1 1/2 in. across. Dwarf, early and uniform, excellent for spring bedding. Height: 6 in. Spread: 16-18 in.

11894 Snowland **K**

Cleome

Day: 70°-72°F. 8-11 days. Cover seed lightly.

Crop Time: 4 in., 12-13 weeks

Queen Series

Large open airy flowers with strong scent. Blooms from summer to frost. Height: 3-4 ft. Spread: 18-20 in.

11930 Cherry

11933 Rose

11934 Violet

11929 White Helen Campbell

Solo

Thornless. Very light pink to white flowers on top of light green leafed plants. The seed pods give additional distinctive ornamental value to the plants. Height: 16 in.

11935 Solo **L**

Sparkler Series

The first commercial F1 Hybrid series of cleome. Flower in 6 in. or larger containers. Crop Time: 10-12 weeks. Height: 3 1/2-4 ft. Spread: 3 ft. Primed seed.

11936 Blush. AAS Winner. **M**

11937 Lavender **N**

11939 Rose **O**

11940 White **P**

11938 NEW Mix **Q**

Coleus

Solenostemon scutellarioides

70°-80°F. 10-13 days. Do not cover seed.

Crop Time: Packs, 12-14 weeks

Giant Exhibition Series

Extra large leaves. Height: 20 in.

11949 Limelight (green) **R**

11950 Magma (dark red) **S**

18903 Marble

11951 Palisandra (black) **T**

18904 Rustic Red

20090 Mix

BEDDING PLANTS

COLEUS



Coleus *continued*

Kong Series

Huge leaves and dwarf habit. Grow in full shade. Height: 18-22 in. Spread: 15-18 in. Weeks to Finish: 12-14. Pelleted seed.

- 23931 **Lime Sprite** **A**
- 11952 **Mosaic**
- 19791 **Red** **B**
- 19792 **Rose** **C**
- 19752 **Salmon Pink**
- 19793 **Scarlet**
- 19736 **Mix Empire**

Premium Sun Coleus Collection

Tolerates full sun in regions of high relative humidity such as zones 9-10, or in areas with low light intensity such as Northern Europe. Foliage will scorch in full sun with low relative humidity. All are suitable for shade and are an economical alternative to vegetative coleus. Some previously from Versa series. Pelleted seed.

- 22521 **Chocolate Covered Cherry**. Height: 12-14 in. Spread: 10-12 in. **D**
- 18633 **Chocolate Mint**. Height: 14-20 in. Spread: 12-14 in. **E**

- 19693 **Crimson Gold**. Height: 18 in. Spread: 18-22 in.
- 19023 **Dark Chocolate**. Height: 24-30 in. **F**
- 19794 **Lime Delight**. Height: 28 in. **G**
- 23252 **Mighty Mosaic**. Height: 18-26 in. **H**
- 25096 **Pineapple Surprise**. Height: 18-26 in. **I**
- 19714 **Rose to Lime Magic**. Height: 24 in. **J**
- 19754 **Watermelon**. Height: 20 in. **K**

Superfine Rainbow Series

Semi-dwarf plants, best for landscapes, 4 in. pots and larger. Height: 14 in. All colors in price booklet.

- 11956 **Volcano**. Brightest red.
- 20092 **Masterblends Mix**

Wizard Series

Truly base branching, requires no pinch. Ideal for packs, pots, and baskets. Height: 10 in. Spread: 10-12 in.

- 11957 **Coral Sunrise**
- 11958 **Golden**
- 11959 **Jade**. A clear ivory with a green edge.
- 11961 **Mosaic**. Color pattern of Kong.
- 11964 **Rose** **L**
- 11965 **Scarlet**
- 11966 **Sunset**. Deep apricot.
- 11967 **Velvet Red** **M**
- 11960 **Mix**

Corn Ornamental

Zea mays japonica

72°-75°F. 7-10 days. Cover seed.

Crop Time: Direct sow 3 seeds, 5-7 weeks.

Field of Dreams

Great for container centerpiece. Strong white stripe through pink tinged green foliage. Over fertilization will make foliage solid green. Striped foliage show on 3rd or 4th true leaves. Short days mean short plants, height: 2 ½ ft. Long days mean tall plants, height: 5 ft.

- 20988 **Field of Dreams** **N**

Pink Zebra

Green and white striped foliage adds showy purples, reds, pinks in cool nights, long days. Each stalk produces many small ears with purple kernels and tassels. Great for quarts and gallons. Upright growth habit. Plug crop time: 1-2 weeks. Transplant to finish: 3-6 weeks. Height: 48-60 in. Spacing: 12-18 in.

- 26062 **Pink Zebra** **O**

Cosmos

Also see Cut Flowers
72°-75°F. 5-7 days. Cover seed.

Crop Time: Packs, 8-11 weeks

C. sulphureus

Cosmic Series

Stocky well branched habit, excellent in garden. Container: 4 in. Height: 12 in. Detailed seed.

- 12001 **Orange**. **AAS Winner**. **P**
- 12003 **Red** **Q**
- 12004 **Yellow** **R**
- 12000 **Mix** **S**

Limara Lemon

Multitude of creamy lemon flowers with darker golden eye. Compact, well branched and great in mixed containers. Height: 12 in. Spread: 12-14 in. Detailed seed.

- 18637 **Limara Lemon** **T**

Mandarin

Deeper orange color, more uniform compact mounded habit, to competing varieties. Height: 10-12 in. Spread: 6-8 in.

- 26511 **Mandarin** **U**



DIANTHUS

C. bipinnatus

Antiquity

Very early and floriferous. Two in. flowers open rich burgundy and mature to antique bronze-salmon. Height: 20-30 in. Spread: 12-14 in.

23933 **Antiquity** **A**

Apollo Series

Naturally dwarf with shorter internodes. Produces a beautiful array of 4 in. flowers. Height: 18-26 in. Spread: 20-24 in.

25031 **Carmine** **B**

25741 **Lovesong**. Blend of pink, picotee, white.

C

25033 **Pink** **D**

25034 **White** **E**

25032 **Mix**

Sonata Series

Bright colored blooms on a compact plant. Great to brighten up borders. Container, pack and 4 in. pot. Height: 24 in.

12010 **Carmine**

12012 **Pink**

12013 **Pink Blush**

25970 **NEW Purple Shades** **F**

26510 **NEW Red Shades** **G**

12014 **White**

12011 **Mix Complete** **H**

Cuphea

72°-77°F. 4-5 days. Do not cover seed.

Plug crop time: 4 weeks

Transplant to finish: 5-11 weeks.

C. ramosissima

NEW Pink Shimmer

Easily sown for efficient plug production. Better natural branching than vegetative varieties. Profusions of petite flowers cover the delicate leaves all summer long. No deadheading and looks great under hot conditions. Height: 10-16 in. Spread: 12-18 in. Precision Multi-Pellets.

26512 **Pink Shimmer** **I**

Dahlia

75°-80°F. 6-9 days. Cover seed.

Crop Time: Packs, 12-13 weeks

Figaro Series

Double flowered. Ideal in 4 in. and also in large containers. Height: 12 in. All colors in

price booklet.

12204 **Figaro Mix** **J**

Dianthus

Also see Perennials

64°-68°F. 7-9 days. Cover seed lightly.

Crop Time: Packs, 15-16 weeks

D. barbadus interspecific

Jolt Series

Dwarf version of Amazon series. First intermediate heat-tolerant summer dianthus for landscapes. Well-branched habit. Requires less to no PGRs. Earlier flowering under high light intensities and warmer temperatures. Crop Time: 16-22 weeks. Height: 16-20 in. Spread: 12-14 in. Pelleted seed.

24429 **Cherry** **K**

24430 **Pink**. AAS Winner. **L**

25363 **Pink Magic** **M**

Dynasty Series

Double flower, blooms look like carnation. Well branched upright and strong stemmed. Self cleaning plants are excellent landscape and garden performers. Good novelty

pot plant for Valentines Day and Mother's Day. Best in 306 premium packs, 6 in. and gallons. Height: 16-20 in. Spread: 10 in. Pelleted seed. All colors in price booklet.

12329 **Dynasty Mix** **N**

Diabunda Series

Barbatus species cross, named as a combination of 'dianthus' and 'abundance'. Two weeks earlier than others and is best with 1 plug in 6 in. or gallon container. Crop Time: 10-12 weeks. Height: 6-8 in. Spread: 8-12 in. Pelleted seed. All colors in price booklet.

20144 **Diabunda Mix** **O**

Supra Series ✂

Lacy, highly fringed, ½ in. flowers. Heat tolerant and blooms prolifically throughout the season. Upright, bouquet habit. Can be cut and used in arrangements. Height: 12 in.

21136 **Crimson**

25624 **Pink**. AAS Winner. **P**

12401 **Purple**. AAS Winner.

22682 **Salmon**

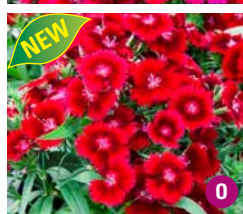
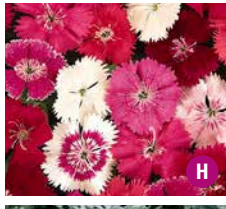
26887 **NEW Scarlet** **Q**

21139 **White** **R**

21137 **Mix Full**

BEDDING PLANTS

DIANTHUS



Dianthus continued

D. chinensis

NEW Corona Series

Biggest blooms at 2-3 inches, with uniform flowering time and habit. Performs best in cool weather. Beautiful mounded upright habit. Plug crop time: 4-6 weeks. Transplant to finish: 6-8 weeks. Height: 8-10 in. Spread: 8-10 in. Pelleted seed.

- 26063 Cherry Red **A**
- 26064 Rose **B**
- 26066 Strawberry **C**
- 26067 White **D**
- 26456 Mix

Diana Series

Extra early to flower. Suitable for pack or pot production. Compact with large single flowers. Height: 8 in. Spread: 8 in.

- 21121 Blueberry
- 12327 Crimson
- 12326 Crimson Picotee
- 21122 Lavender Picotee
- 22680 Pink
- 17289 Purple Centered White
- 21124 Red Centered White
- 17290 Rose Shades

- 21125 Salmon
- 21126 Scarlet
- 17291 Scarlet Picotee
- 17292 White
- 24369 Mix Lavendina. Includes: white, blueberry, and lavender picotee. **E**
- 22681 Mix Picotee
- 21123 Mix Select. Includes: white, scarlet, crimson, and blueberry.
- 12328 Mix Full

D. chinensis x barbadus

Diamond Series

Earlier flowering than the Telstar series. Excellent pack and garden performers from spring through fall. Height: 8-10 in. All colors in price booklet.

- 12322 Diamond Mix

Ideal Select Series

Well matched habit and timing. High density pack or small pot programs for both spring and autumn sales. Heat and frost resistant, good for use as an annual or biennial. Height: 8-10 in.

- 12358 Raspberry
- 12359 Red
- 12360 Rose
- 12361 Salmon

- 12362 Violet. AAS Winner. **F**
- 12363 White
- 12364 White Fire. White/red bicolor. **G**
- 12357 Mix **H**

NEW IQ Series

Bold colors and unique picotees, create maximum impact with a flatter, more uniform, carpet of color. Upright, compact, basal branching habit. Height: 6-10 in. Spread: 8-12 in.

- 26755 Blueberry Picotee **I**
- 26756 Pink **J**
- 26753 Purple **K**
- 26759 Purple Ice **L**
- 26754 Raspberry Picotee **M**
- 26751 Red **N**
- 26758 Red Picotee **O**
- 26757 Scarlet **P**
- 26752 White **Q**
- 26749 Mix
- 26750 Mix Picotee **R**

Telstar Series

Dwarf habit, vigorous and early blooming. Excellent in both pots and as a bedding plant. Height: 8-10 in.

- 20922 Burgundy
- 12413 Carmine Rose
- 12414 Coral

- 12415 Crimson
- 12417 Picotee. AAS Winner.
- 12418 Pink
- 12420 Purple
- 12419 Purple Picotee
- 12421 Salmon
- 12422 Scarlet
- 12423 White
- 12416 Mix **S**

Dusty Miller

Cineraria maritima

72°-75°F: 10-15 days. Do not cover seed. Crop Time: Packs, 12-13 weeks

Quicksilver

Natural dwarf basil branching habit. Finely indented silver leaves. Excellent germination. Height: 10-12 in. Spread: 10-12 in.

- 25620 Quicksilver **T**

Silver Cloud (a.k.a. Cirrus)

Outstanding garden performer. Silvery white strap leaf foliage with only slight serration. Dense growing plants will soon make a solid mass of color spaced 10-12 in. apart. Height: 8-10 in. Pelleted seed.

- 18929 Silver Cloud **U**



Silver Dust **A**

Top selling Dusty Miller. Finely cut silvery white foliage. Height: 10 in. Spread: 10 in.

12466 Raw Seed

12465 Pelleted Seed

Erigeron

(Mexican Daisy)

59°-64°F. 7 days. Do not cover seed.

Profusion

Small ½ in. single daisy like flowers are white with pink tings. First blooms appear 2-3 months from sowing. Blooms continuously throughout the summer. Excellent in baskets, and as a border or rock garden item. Height: 8-12 in. Spreads up to 36 in.

12486 Profusion **B**

Erysimum

(Wall Flower)

E. species

72°F. 2-4 days. Cover seed.

Crop Time: Packs, 11-12 weeks

Citrona Series

Flowers in autumn, over winters, then flowers again in spring. No vernalization needed to flower. Matches pansy production well, generally 1 week longer. Brightly colored flowers have a nice, clean fragrance. Strong branching makes this plant a good candidate for large pack and small pot programs. Height: 8-12 in.

12493 Orange **C**

12494 Yellow **D**

E. cheiri

Sugar Rush Series

Sweetly scented, dense flower spikes with well branched habit. Does not require vernalization. Perfect for containers, or center of hanging basket. Suited for 3 ½ to 5 in. programs. Height: 14-16 in. Spread: 12 in.

22303 Primrose **E**

22304 Purple Bicolor **F**

23032 Red **G**

22305 Yellow **H**

22302 Mix **I**

Euphorbia

E. graminea

65-72°F. 3-6 days. Cover seed.

Crop Time: 6 in., 6-11 weeks



Glamour

Early to flower, with the vigor to hold up to weather challenges, makes it the best choice for in-ground use. Plug crop time: 3-4 weeks. Transplant to finish: 5-8 weeks. Height: 15-24 in. Spread: 15-24 in.

24434 Glamour **J**

Glitz

First seed annual euphorbia. Low cost alternative to vegetative. Medium vigor, good branching and more open habit. Works well in mixed containers.

23938 Glitz **K**

Flowering Kale

Brassica oleracea

Also see Cut Flowers

70°F. 1-2 weeks. Cover seed.

Crop Time: Packs, 10-13 weeks

Wavy Leaved

Glamour

First glossy leaf bedding-type kale. Adds 'glamour' to winter landscape. Excellent 4 in. pot to premium large pots. Height: 6-10 in.

21144 Glamour Red. AAS Winner. **L**

Nagoya Series (Emperor Series)

Dwarf and compact in habit, with a spread of 14 in. Produces numerous firm fringed leaves. Height: 8 in.

12529 Red

12530 Rose

12531 White **M**

12528 Mix

Yokohama Series

Very unique, extra-curly fringed leaves. Slow to bolt, cold tolerant, longer and stronger garden performance. Crop Time: 12-14 weeks. Height: 5-7 in. Spread: 8 in.

25429 Red **N**

25430 White **O**

25431 Mix **P**

BEDDING PLANTS

FLOWERING KALE



Flowering Kale *continued*

Feather Leaved

Coral Series

Large fringed leaves. Height: 8-10 in.

- 12517 **Prince**. White **A**
12518 **Queen**. Rose red. **B**

Peacock Series

Leaves are more serrated than Coral Series. Height: 8-10 in.

- 12533 **Red** **C**
12532 **White** **D**

Round Leaved

Osaka Series (Dynasty Series)

Semi fringed. Large center of pink, red or white on green. Height: 8-10 in.

- 12502 **Pink**
12503 **Red**
12504 **White**
12505 **Mix** **E**

Pigeon Series

Compact dwarf plants with uniform, round solid heads with slightly waved leaves. Height: 8-10 in. Spread: 12-14 in.

- 12506 **Purple**
12507 **Red**
12508 **Victoria**. Pink **F**
12509 **White**

Songbird Series

Improved, more compact habit with higher leaf count. Height: 6-10 in. Spread: 12-14 in.

- 21146 **Pink**
21147 **Red**
21148 **White**
21145 **Mix** **G**

Fuseables – Plug & Play

Precision Multi-Pellet

Fuseables now give you more precise and balanced mixes. Same natural looking mixes with less variation, so your combos will be better balanced. As always, Fuseables provide 2 or 3 varieties that germinate and grow together compatibly. Just sow one precision multi-pellet into one plug, then one plug into one 6-8 in. pot for a better looking, less variable combo.

Single Species

- 23243 **Bacopa Utopia**. Blutopia, Snowtopia.

- 25114 **Calibrachoa Paradise Island**. Kabloom Yellow, Denim, and Rose. **H**
23250 **Coleus Chocolate Symphony**. Chocolate Mint, Lime Delight. **I**
23251 **Coleus Under The Sun**. Crimson Gold, Lime Delight. **J**
23287 **Petunia Blueberry Lime Jam**. Sophistica Lime Green, Dreams Midnight.
23290 **Petunia Lime Coral**. Dreams Coral Morn, Sophistica Lime Bicolor. **K**
23942 **Petunia Ooh La La**. Easy Wave Burgundy Star, Neon Rose, and Shock Wave Coconut. **L**
23291 **Petunia Pleasantly Blue**. Dreams Midnight, Daddy Blue.
25115 **Petunia Rise n Shine**. Easy Wave Yellow, and Rosy Dawn. **M**

Multi-Species

- 23265 **Blue Dawn**. Petunia Easy Wave Rosy Dawn, Bacopa Blutopia.
23267 **Healing Waters**. Petunia Shock Wave Denim, Petunia Easy Wave Violet, Bacopa blue large flowered. **N**
23268 **Silk N Satin**. Bacopa Snowtopia, Petunia Shock Wave Pink Shades. **O**
23940 **Wine Cooler**. Viola Sorbet Midnight Glow, and Alyssum Clear Crystal Purple Shades. **P**

Gaillardia

G. aristata grandiflora

68°-72°F. 4-6 days. Cover or uncover seed.

Crop Time: Packs, 14 weeks

Sundance

Bicolor mahogany red and yellow 2 in. globe-shaped flowers. Heat and drought tolerant, low maintenance, no pinching or staking. For landscape use in mass plantings. Height: 10-11 in. Spread: 15-16 in.

12656 **Sundance Bicolor**. AAS Winner **Q**

Gazania

G. rigens

70°F. 10-14 days. Cover seed.

Crop Time: Packs, 11 weeks

Big Kiss Series

Hurculean cousin of Kiss series, with larger blooms and bigger habit. Height: 8-10 in.

- 26114 **NEW Orange** **R**
23654 **Red** **S**
24980 **White** **T**
19730 **White Flame**
23655 **Yellow** **U**
19721 **Yellow Flame**
19800 **Mix**



Enorma Series

Firm, dark green, glossy foliage allows for better disease resistance under wet or humid conditions. Height: 10-12 in. Spread: 10-12 in.

- 25120 Orange **A**
- 25121 Orange Ring **B**
- 25122 Red Ring **C**
- 25123 Vanilla **D**
- 25124 Yellow **E**
- 25125 Yellow Ring **F**
- 25119 Mix Full

Gazoo Series

Extra large, 3 in. flowers are displayed on strong stems for more show in containers. These vigorous plants are perfect for production in jumbos, 4 in. pots and gallons. Height: 8-10 in. All colors in price booklet.

- 12673 Mix. Blend of all colors. **G**

New Day Series

Large flowers on more compact plants which are easier to grow. Orange is bright and clear without dark central ring. Height: 8-10 in. Spread: 6-8 in. Coated seed.

- 21151 Bronze Shades
- 21152 Clear Orange
- 21154 Pink Shades
- 23256 Red Shades

- 24436 Red Stripe **H**
- 23944 Rose Stripe **I**
- 21155 White
- 21156 Yellow
- 21153 Mix
- 22532 Mix Bright
- 22533 Mix Strawberry Shortcake
- 22534 Mix Sunny Side Up
- 24435 MixTiger **J**

Talent Series

Cushions of finely pinnate silvery leaves, attractive plants for borders and beds. Height: 10 in

- 12694 Orange
- 12695 Red Shades
- 12696 Rose Shades
- 12697 White
- 12698 Yellow
- 12693 Mix **K**

Zany Series

Uniform series with 3-5 day flowering window. Developed for pot and pack performance, with good compact outdoor habit. Height: 8 in.

- 26702 Orange **L**
- 26703 Orange Flame **M**
- 26704 Pink **N**
- 26705 White **O**

- 26706 Yellow
- 26707 Mix

Geranium

Pelargonium hortorum

72°-75°F. 2-7 days. Cover seed.

Crop Time: 4 in. 10-15 weeks

Ivy-Leaf

Reach Out Series

Compact habit and short internodes. Full canopy of flowers, and does not get 'tangled up' in production. Superb landscape, container and basket performance. Height: 6-8 in. Spread: 10-14 in.

- 26123 Hot Pink **P**
- 26124 Light Purple **Q**
- 26125 Lilac Bicolor **R**
- 26126 Pink **S**
- 26127 Red **T**
- 26128 White **U**
- 26129 Mix

Summer Showers Series

Cascading 12-14 in. For hanging baskets allow 17-18 weeks. All colors in price booklet.

- 12783 Summer Showers Mix **V**

Tornado Series

Cascading citrus scented foliage. Allow 14-16 weeks. Height: 18-24 in. Spread: 8-12 in. Filmcoated seed.

- 12787 Bicolor Duet. Rose and lilac bicolor.
- 12788 Carmine
- 12790 Fuchsia
- 12791 Lilac
- 12794 Pink
- 12795 Red
- 12796 Rose
- 12797 White
- 12792 Mix **W**

Standard (Zonal)

BullsEye Series

Unique rich chocolate foliage, even under high light conditions. Reliable and uniform performance, long shelf life. Total Crop Time: 14-16 weeks. Height: 12-14 in. Spread: 11-13 in. Filmcoated seed.

- 18658 Cherry
- 18659 Light Pink
- 22318 Red **X**
- 18661 Salmon
- 18662 Scarlet
- 18660 Mix

BEDDING PLANTS

GERANIUM



Geranium *continued*

Maverick Series

Bred for high density mass production. Requires half the Cycocel than other varieties. Ideal for 4 in., 6 in., and larger containers. Better controlled habit in garden than Pinto. Height: 16-18 in. Spread: 14-18 in. Filmcoated seed.

- 12708 Appleblossom **A**
- 12714 Coral
- 12715 Orange
- 12716 Pink
- 12711 Quicksilver. Light pink.
- 12717 Red
- 2320 Rose **B**
- 12718 Salmon
- 12712 Scarlet
- 23172 Scarlet Picotee **C**
- 12719 Star. Blush with rose eye and petal edge.
- 12720 Violet **D**
- 24981 Violet Picotee **E**
- 12721 White

Multibloom Series

Best geranium for the South; likes it hot. Very early and uniform blooming. A 4 in. pot will finish in 12 weeks and can be expected to produce up to 15 flower heads that sport large, full rounded florets. Height: 10-12 in. Filmcoated seed.

- 12724 Capri. Coral rose.
- 12725 Lavender
- 12732 Pink
- 12733 Red
- 12728 Salmon
- 22321 Violet **F**
- 12731 White

Premium Pinto Series

Improved for: earliness, uniformity, and habit, with better branching and shorter flower stems. Highest quality flowers and plant appearance. Easier shipping. Height: 10-12 in. Spread: 12-14 in. Filmcoated seed.

- 21193 Coral **G**
- 21194 Deep Red
- 21195 Deep Rose **H**
- 21196 Lavender **I**
- 23656 Lavender Rose **J**
- 24982 Orange **K**
- 23173 Orange Bicolor **L**
- 23174 Rose Bicolor **M**

- 21197 Salmon
- 21198 Salmon Splash
- 21199 Scarlet
- 21200 Violet
- 23175 White
- 22904 White to Rose. AAS Winner. **N**

Quantum Series

Long flowering under high temperatures, with unique star-shaped flowers and foliage. Height: 12-16 in. Spread: 12-16 in. Coated seed.

- 25037 Red **O**
- 26771 NEW White **P**
- 25036 Mix **Q**

Ringo 2000 Series

Ideally suited for production in 3 in. pots and jumbo packs. Ideal for high density production. Height: 12-14 in. Spread: 6-8 in. Filmcoated seed.

- 12763 Cardinal
- 12765 Deep Red **R**
- 12766 Deep Rose
- 12767 Deep Scarlet
- 12768 Lavender
- 12770 Pink
- 12771 Rose Star
- 12772 Salmon

- 12773 Scarlet Star
- 12774 Violet
- 12775 White

Gomphrena

Also see Cut Flowers
(Globe Amaranth)
72°-75°F 9-12 days. Cover or uncover seed.
Crop Time: Packs, 8-11 weeks

Buddy Series

Compact, mounded plants that are very durable even in hot dry climates. Clean seed. Height: 6-8 in. Spread: 9 in.

- 12938 Purple **S**
- 12939 Rose
- 12940 White

Las Vegas Series

A landscape gomphrena, perfect for 4 ½ in. pot production. Height: 16-20 in.

- 19804 Pink
- 19731 Purple
- 19777 White
- 19803 Mix **T**



Ping Pong Series

A great, low maintenance landscape plant. Easy to produce. Height: 16-18 in. Spread: 8-10 in.

- 25141 Lavender **A**
- 25143 Purple **B**
- 25144 White **C**
- 25142 Mix **D**

Gourds

70°-72°F. 5-8 days. Cover seed.

Small Sorts

A wide range of both smooth and warty. 12954 Small Sorts Mix **E**

Gypsophila

G. muralis

70°-72°F. 3-6 days. Cover seed lightly.

Gypsy Series

Double flowered, bedding and hanging basket plant. Height: 10-14 in. Spread: 12-14 in. Multi-seed pellets.

- 12999 Deep Rose. AAS Winner. **F**
- 13000 Pink. AAS Winner. **G**
- 23319 White **H**

Helenium

H. amarum

65°-75°F. 3-5 days. Cover seed.

Crop Time: Packs, 8-11 weeks

Dakota

Bright gold, daisy like flowers over fine-textured green foliage. Drought tolerant, likes high heat, either high or low humidity; also performs well in cool, rainy conditions. Height: 12-14 in. Spread: 24-28 in. Multi-seed pellets.

- 13006 Dakota Gold **I**

Hibiscus

H. acetosella

68° F. 2-3 days. Cover seed.

Crop Time: 4 ½ in. pot. 9-11 weeks

Mahogany Splendor

Deep burgundy, maple-leaf shape foliage with serrated edges. Tall landscape plant that can be used as a pond plant, grown directly in water. Height: 3-5 ft. Spread: 24-30 in.

- 21228 Mahogany Splendor **J**

Hollyhock

Also see Perennials

Alcea rosea annua

63°-70°F. 8-14 days. Cover seed.

Crop Time: 4-4 ½ in. pot. 12-14 weeks

Hollyhock Spring Celebrities Series

Very early, naturally dwarf, long flowering from May to October. Double to semi-double flowers. Excellent branching. Blooms first year. Height: 2 ft.

- 23542 Apricot **K**
- 20249 Carmine Rose
- 20250 Crimson **L**
- 20251 Lemon
- 20252 Lilac **M**
- 20254 Pink
- 20255 Purple
- 23541 Rose **N**
- 20256 White
- 20253 Mix **O**

Hypoestes

(Polka Dot Plant)

H. phyllostachya

70°-75°F. 7-9 days. Do not cover seed.

Crop Time: Packs, 12-16 weeks



Confetti Compact Series

Decorative foliage and compact habit work well indoors and outdoors. Short production time, make it ideal for year-round production. Height: 4 in. Spread: 6 in.

- 13074 Pink **P**
- 21230 Red **Q**
- 21231 Rose
- 13075 White **R**
- 13073 Mix **S**

Splash Select Series **T**

Dwarf compact plants. Good in 4 in. pots. Height: 10-18 in. Spread: 12-14 in.

- 13079 Pink
- 13080 Red
- 13081 Rose
- 13082 White

BEDDING PLANTS

IBERIS



Iberis

I. amara
(Candytuft)

NEW **Yael**
Flat, compact, clusters of small, dense, pure white flowers. Beds, ground covers, containers. Crop time: 70-90 days. Cool Season crop. Height: 12 in. Spread: 16 in.
26986 Yael

Impatiens

I. wallerana
70°-75°F. 7-18 days. Cover seed lightly.
Crop Time: Packs, 7-8 weeks

Accent Series
Seedling performance is better than ever. Proven to have better pack and garden performance. Height: 10-12 in. Spread: 10-12 in.

13102 Bright Eye Premium A
13086 Burgundy
21232 Deep Orange Premium
13090 Deep Pink

13091 Lavender Blue
13106 Lilac Premium
13110 Orange Star Premium B
13113 Pink Premium
13114 Red Premium
13095 Red Star
13115 Rose Premium
13096 Rose Star
13116 Salmon Premium
13120 Violet Premium
13098 Violet Star Premium C
13121 White Premium
13109 Mix Mystic Premium
13112 Mix Pastel Premium
13093 Mix Peppermint Premium
13118 Mix Star
13108 Mix Premium

Balance Star Series
Bred to achieve the "Balance" of excellent garden and pack performance. Plus, state of the art seed quality, with uniform flowering and habit. Height: 8-10 in. Spread: 10-12 in.

25742 Orange Star D
25743 Red Star E
25744 Rose Star F
25745 Violet Star G
25345 Mix Star H

NEW Beacon Series

High resistance to Impatiens downy mildew. Bring back impatiens into production without risk of disease. Similar to Super Elfin series in plant structure, flowering time, size, and culture. Plug crop time: 4-5 weeks. Transplant to finish: 3-4 weeks. Height: 10-12 in. Spread: 12-14 in.

26914 Bright Red I
26912 Coral J
26913 Orange K
26915 Salmon L
26916 Violet Shades M
26917 White N
26918 Mix Red White O
26919 Mix Select P

Impreza Series

Plants do not have a central stem. All stems grow outward, not up. Bred to have longer shelf life. Garden height stays lower too. Height: 6-8 in. Spread: 12-14 in.

20262 Blue Pearl
20263 Cherry Splash
21238 Pink
22540 Punch
20273 Rose
20274 Salmon
20275 Violet

20276 White
21237 Mix Passion Q
20270 Mix Wedgewood

Lollipop Series

Intense colors "pop" at retail. Excellent branching — more flowers! Uniform series with no stretching. Height: 8-10 in. Spread: 8-10 in.

24183 Bubblegum Pink
24184 Cherry Red
24185 Coconut White
26325 NEW Dragonfruit Lipstick R
24186 Fruit Punch Rose
24188 Orange
24189 Peach Salmon
26326 NEW Pink Lemonade S
24190 Pomegranate Carmine
24191 Raspberry Violet
26327 NEW Tangerine Deep Salmon T
25644 Mix Berry Darling U
25646 Mix Cherries Jubilee V
25645 Mix Cherry Thriller W
25647 Mix Fervent Fruit X
25648 Mix O Canada Y
24187 Mix Maxi Z

BEACON™

IMPATIENS

NO-RISK COLOR FOR THE SHADE

beacon noun
bea·con | /'bēkən

a source of light
and inspiration

Bright Red



Violet Shades



Salmon



Orange



White



Coral



High resistance to Impatiens downy mildew!

PanAmerican Seed® provides you with the solution to bring *Impatiens walleriana* back into production without the risk of disease! **NEW Beacon Impatiens** offers high resistance to the currently known and widely prevalent populations of *Plasmopara obducens*, which cause Impatiens downy mildew.

This new series also offers similar plant structure, flowering time, flower size and crop culture to Super Elfin® Impatiens, so they are easy to include in production.

For fast-filling season-long color, you can rely on Beacon to thrive in gardens and landscapes.

Visit BeaconImpatiens.com for more information.

Get your no-risk, disease-resistant impatiens! **Contact your Gloeckner sales representative to order Beacon Impatiens seed and plugs today.**

Find culture and more at panamseed.com

PanAmerican Seed®

BEDDING PLANTS

IMPATIENS



Impatiens continued

NEW Imara XDR Series

The first with high degree of resistance to downy mildew. Confirmed in trials in North America, Europe, and Cornell University. Height: 10-12 in. Spread: 10-12 in.

- 26423 Orange **A**
- 26424 Orange Star **B**
- 26941 Pink **C**
- 26939 Purple **D**
- 26426 Red **E**
- 26942 Red Star **F**
- 26427 Rose **G**
- 26940 Salmon Shades **H**
- 26428 White **I**
- 26422 Mix **J**

Super Elfin XP Series

XP stands for Xtra Performance, Precision, and Profit for growers. Industry standard for retail shelf life. Better branching and improved flower power. Height: 8-10 in. Spread: 12-14 in.

- 13187 Blue Pearl. Lilac blue.
- 13192 Coral
- 13196 Lilac
- 13202 Pink
- 19334 Punch

- 20330 Red Starburst
- 13204 Red
- 13205 Rose
- 13207 Salmon
- 21240 Salmon Splash
- 13210 Scarlet
- 20332 Violet Starburst
- 13214 Violet
- 13215 White
- 19715 Mix Clear
- 18689 Mix Hot
- 19695 Mix Red White
- 18690 Mix **K**

Xtreme Series

Uniform, early and compact series with superior seed quality. Stretch-resistant on the bench and at retail. Height: 8-10 in. Spread: 8-10 in.

- 23183 Bright Eye
- 23184 Bright Rose
- 13270 Deep Salmon
- 13272 Lavender
- 13273 Lilac
- 18692 Orange
- 13277 Pink
- 13278 Red
- 13281 Salmon
- 13283 Scarlet
- 13286 Violet

- 13287 White **L**
- 13275 Mix

New Guinea Impatiens

I. hawkerii

72°-78°F. 6-8 days. Cover seed lightly.

Crop Time: Packs, 11-13 weeks.

Divine Series

High quality propagated seed form allows for production mechanization. One-week flowering window across the entire series. Height: 10-14 in. Spread: 12-14 in.

- 23261 Blue Pearl
- 19698 Lavender
- 25145 Lipstick
- 19699 Orange
- 20306 Orange Bronze Leaf
- 25146 Orchid
- 19700 Pink
- 25367 Red **M**
- 19702 Violet
- 23263 White
- 23954 Mix Hot Cha Cha **N**
- 23955 Mix Islander **O**
- 19705 Mix Mystic **P**
- 19707 Mix Salsa
- 19708 Mix

Florific Series

Uniform, well-branched, with large flat flowers held on top of the foliage. A great alternative to Impatiens walleriana where downy mildew may exist in the landscape. Crop Time: 12-14 weeks. Best in jumbo packs and 4 in. Height: 8-12 in. Spread: 12-14 in.

- 23179 Lavender **Q**
- 23180 Red **R**
- 23666 Sweet Orange **S**
- 23181 Violet **T**
- 23182 White **U**
- 23667 Mix

Iresine

72°-74°F. 3-4 days. Cover seed.

Crop Time: 4 in., 9-11 weeks

Purple Lady

Dark purple foliage, darker in full sun. Low spreading habit in containers and as groundcover. Height: 6-8 in. Spread: 3-4 ft.

- 13289 Purple Lady



IMARA™ XDR

IMPATIENS WALLERIANA

The First Impatiens with a High Degree of Resistance to Downy Mildew.¹

Proven landscape performance that fights back with reliable flowering all season long.

Revive your Impatiens sales with this easy and economical to produce series, ideal for high-density growing in packs and pots.

Say “Welcome Back!” to your favorite shade bedding plant.

For more information and availability:
855-630-3139 • www.syngentaflowers-us.com/imara
Contact your Gloeckner representative today.

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¹Confirmed in independent trials in North America and Europe including trials in 2017 and 2018 at Cornell University's Long Island Horticultural Research & Extension Center.



syngenta flowers®

BEDDING PLANTS

ISOTOMA



Isotoma

I. hybrida

70°-72°F. 8-12 days. Cover seed lightly.

Crop Time: 14-17 weeks

Tristar Series

All 3 colors equal in earliness and performance with predictable culture. Flowers from spring to late fall. Height: 8 in. Pelleted seed.

19086 Sky Blue A

18698 White B

Leycesteria

L. formosa

65°-68°F. 10-12 days. Cover seed.

Crop Time: 4-6 in. pot, 14-16 weeks

Jealousy

Bright chartreuse foliage with big habit. All-season interest in landscape. Sell as annual, perennial, or shrub. Soft pinch in plug tray, no PGRs. Height: 3-5 ft. Multi-seed pellet.

21249 Jealousy C

Linaria

L. hybrida

68°-70°F. 5-12 days. Do not cover seed.

Crop Time: Pots, 9-11 weeks

Enchantment

Small, snapdragon-like flowers are a very intense magenta with a gold bee. Raspberry/grape fragrance. Heat tolerant. Best suited to spring and autumn premium pack and 4 in. pot sales for bedding and mixed container use. Height: 14-16 in. Spread: 12-14 in. Multi-seed pellet.

13360 Enchantment D



Fantasia Series

Blooms 7 to 10 days earlier than Fantasy, is more compact, with exceptional basal branching. Same vibrant colors, and frost tolerance. Plug crop time: 4-6 weeks. Transplant to finish: 5-8 weeks. Height: 3-5 in. Multi-seed pellet.

26255 Blue E

26256 Pink F

26257 Rose G

26258 White H

26259 Yellow I

Fantasy Series

Dwarf, compact habit. A cool season crop that appears delicate, but is weather tolerant and requires little maintenance. Mass border planting. Height: 8-10 in. Spread: 10 in. Pelleted seed. All colors in price booklet.

13361 Mix Autumn

13367 Mix Spring J

Lobelia

L. erinus

Also see Cut Flowers

75°-78°F. 14-21 days. Do not cover seed.

Crop Time: Packs, 13-15 weeks

Palace Series

Uniform in pack, pot and garden. Considerably earlier than the original Crystal Palace types. Height: 5 in. Spread: 8-10 in.

13519 Blue

13518 Blue with Eye K

13521 Lilac

13522 Royal. Violet blue.

13523 Sky Blue

13524 White

Marigold

Also see Cut Flowers

70°-75°F. 5-8 days. Cover seed.

African

Tagetes erecta

Antigua Series

Early and base branching plants which are mounded and completely covered with bright, fully double blooms. Height: 10-12 in. Spread: 10-12 in. 11-12 weeks. Detailed seed.

13581 Gold L

13583 Orange M

13584 Primrose N

13585 Yellow O

13582 Mix P

Bali Series

Semi tall well branched plants. Will not fall over in rain. Firm ball shaped 3-4 in. blooms. Height: 20-24 in. Detailed seed.

20981 Gold Q

20982 Orange R

20980 Yellow S



NEW Big Duck Series
Naturally, semi-dwarf, with huge double flowers. Extremely heat tolerant. Spectacular view, a carpet of color. Plug crop time: 2-3 weeks. Transplant to finish: 5 weeks. Height: 12-16 in. Spread: 10-12 in. Detailed seed.

- 26727 Gold. AAS Winner. **A**
- 26728 Orange. AAS Winner. **B**
- 26729 Yellow. AAS Winner. **C**

Crush Series

Best for 4 in. pots, especially where stretching has been a problem. Height: 10-12 in. Spread: 6-8 in. Detailed seed. 11-12 weeks.

- 13628 Papaya. Gold.
- 13629 Pineapple. Yellow. **D**
- 13630 Pumpkin. Orange.
- 13627 Mix Guys and Dolls

Discovery Series

Fully double blooms shed water rather than collecting it. Super performer in packs, pots and outstanding in the garden. Crop Time: 11 weeks. Greenhouses Height: 6-8 in. Garden Height: 8-10 in. Spread: 6-8 in. Detailed seed.

- 13647 Orange
- 13649 Yellow
- 13645 Mix **E**

Inca II Series

Neat habit and large, fully double flowers on strong stems. Crop Time: 10-11 weeks. Height: 12-14 in. Spread: 12-14 in. Detailed seed.

- 26824 **NEW** Deep Orange **F**
- 13675 Gold
- 13677 Orange
- 13678 Primrose **G**
- 13679 Yellow
- 13676 Mix

Little Duck Series

The most compact African-type. Tidy plants with fully double bright flowers on deep green foliage. Uniform with strong short stems. Height: 4-6 in. Spread: 6-8 in. Detailed seed.

- 25235 Orange **H**
- 25236 Yellow **I**

Narai Series

Super firm 3-4 in. round flowers. Good shipper. Bred under hot and humid conditions, disease tolerant. Height: 2 ft.

- 27054 **NEW** Creamy Yellow

- 20937 Orange
- 20938 Yellow **J**

Perfection Series

Fully double, perfectly rounded flower heads give good weather tolerance. Flower heads are held above foliage on sturdy stems. Plants have a neat habit. Crop Time: 11-12 weeks. Height: 18 in. Detailed seed.

- 13728 Orange
- 13729 Yellow

Proud Mari Series

Dwarf – little or no PGR required. Fully double flowers with uniform bloom and height among colors. Thicker stems provide extra support for large flower heads – withstands shipping better than comparable varieties. Height: 10-12 in. Spread: 10-12 in. Slick coat seed.

- 24636 Gold **K**
- 24638 Orange **L**
- 24639 Yellow **M**
- 24637 Mix **N**

Vanilla

Replaces Sweet Cream, having tighter flower centers which shed water better, plus darker foliage. Flower Size: up to 3 in.

Crop Time: 11 weeks. Height: 16 in. Spread: 10 in. Detailed seed.

- 18717 Vanilla **O**

French

Tagetes patula

Bonanza Series

Large, 2-2 1/2 in. flowers, shortest crop time and a wide range of colors. Height: 10-12 in. Spread: 6-8 in. Detailed seed.

- 13603 Bee
- 13604 Bolero **P**
- 21270 Deep Orange **Q**
- 13605 Flame
- 13606 Gold
- 13607 Harmony
- 13610 Yellow
- 13608 Mix

Disco Series (Single flowered)

Single 2 in. flowers. Good rain tolerance. Crop Time: 10 weeks. Height: 10-14 in. Spread: 6-8 in. Detailed seed.

- 13635 Granada **R**
- 13637 Marietta **S**
- 13641 Orange **T**
- 13643 Red **U**
- 13644 Yellow **V**
- 13639 Mix

BEDDING PLANTS

MARIGOLD



Marigold *continued*

Durango Series (Anemone flowered)

Large 2-2 1/2 in. flowers. Height: 10-12 in. Spread: 6-8 in. Detailed seed.

13650 Bee

13651 Bolero **A**

13652 Flame **B**

13653 Gold

13655 Orange **C**

13657 Red **D**

13658 Tangerine

13659 Yellow

13656 Mix Outback

13654 Mix

Little Hero Series

Excellent in areas with very warm summers, they stay dwarf even in hot weather. Largest flower size in their height class. Crop Time: 8 weeks. Height: 8 in. Spread: 6-8 in. Detailed seed.

13705 Fire **E**

13712 Orange

13715 Yellow

13711 Mix **F**

Safari Series (Anemone flowered)

Extra large flowers. Crop Time: 9 weeks. Height: 8-10 in. Spread: 12 in. Detailed seed.

13733 Bolero

13734 Gold

13737 Orange

13744 Red

13746 Scarlet

13747 Tangerine

13749 Yellow

13750 Yellow Fire

13736 Mix **G**

NEW Super Hero Series

Earlier, more compact, and improved stable flower pattern. Plug crop time: 4 weeks. Transplant to finish: 7-9 weeks. Height: 8-10 in. Detailed seed.

26351 Deep Orange **H**

26352 Harmony **I**

26353 Orange **J**

26354 Orange Bee **K**

26355 Orange Flame **L**

26356 Spry **M**

26357 Yellow **N**

26358 Yellow Bee **O**

26359 Mix **P**

Melampodium

M. paludosum

65°-70°F. 7-10 days. Cover seed lightly.

Derby

Compact globe shaped plants are literally covered with bright golden yellow blooms. Height: 14-16 in. Spread: 12-18 in.

13778 Derby **U**

Golden Globe

Earliest and most dwarf variety. Darkest foliage contrast with deepest golden flowers. Blooms May through September. Likes it hot but keep well watered. Height: 6-8 in.

13779 Golden Globe

Jackpot Gold

Provides hardy performance in hot and humid climates, flowering from early summer until the first frost. Improvement to Million Gold for larger, round shaped flowers, and earlier by up to one week. Height: 6-12 in.

25154 Jackpot Gold **V**

Lemon Delight

The light yellow flowered companion to Million Gold. Height: 8-10 in. Spread: 12 in.

13780 Lemon Delight

Showstar

Star shaped golden yellow blossoms cover the bushy plants. Height: 14-16 in. Spread: 8-10 in.

13782 Showstar **S**

Mentha

M. requienii (Corsican Mint)

65°-70°F. 5-7 days. Cover seed.

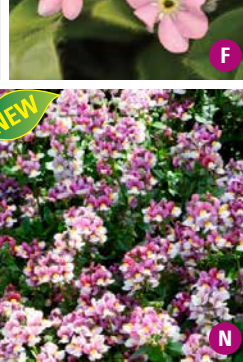
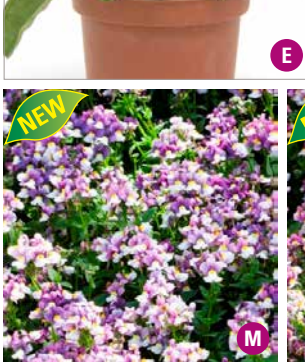
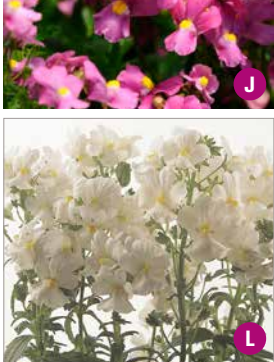
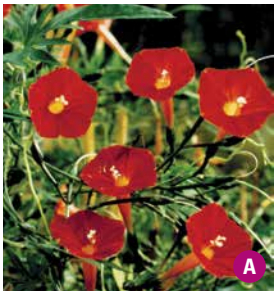
Crop Time: 288 tray, 4-5 weeks

Mini Mint

Highly fragrant 4 in. pot plant or ground-cover. Each pellet contains 8-12 seeds. One plug per 4 in. or can direct sow. Plug: 2-3 weeks. Finish: 3-4 weeks. Height: 1-2 in. Spread: 6-12 in. Multi-seed pellets.

25416 Mini Mint **T**

Millet See Ornamental Grass



Mimulus See Pot Plant Section

Morning Glory

Also see Pot Plants

Ipomoea

68°-75°F. 6-14 days. Cover seed.

Crop Time: Flower 5-6 weeks

Cardinal Climber (I. x multifida)

Red flowers, feathery divided leaves. Vines 6-12 ft.

18955 Cardinal Climber A

Clark's Heavenly Blue (I. tricolor)

Sky blue flowers. Vines 12 ft.

13814 Clark's Heavenly Blue B

Cypress Vine (I. Quamoclit)

Tubular five lobed red flowers, fine cut leaves. Vines 6-12 ft.

18956 Cypress Vine C

Early Call (I. tricolor)

Large 4 in. flowers. Includes red, violet, pink, sky blue, chocolate and rose. Medium vine.

13815 Early Call Mix

Grandpa Ott (I. purpurea)

Heirloom variety with deepest purple flowers. Tall vine.

13816 Grandpa Ott D

White Moonflower (I. noctiflora)

Huge fragrant white flowers, open at night. Vines 10 ft.

13822 White Moonflower

Myosotis

(Forget-Me-Not)

M. sylvatica

68-74°F. 3-5 days. Cover seed

Crop Time: Packs and 4 ½ in. pots 9-13 weeks

Mon Amie Series

First myosotis not requiring vernalization, saving 3-6 months crop time. Dainty flowers. Not reliably hardy. Height: 6-8 in. Spread: 6-8 in.

18719 Blue E

26534 NEW Pink F

26535 NEW Mix G

Nasturtium

65°-70°F. 10-14 days. Cover seed.

Crop Time: Packs, 11-13 weeks

Glorious Gleam

Trailing or climbing type. 5 ft.

13831 Glorious Gleam Mix

Jewel

Finest dwarf type. Height: 10 in. Spread: 20-24 in.

13832 Jewel Mix

Melba Series

Dwarf compact plants, carrying flowers well above the foliage. Unique colors with contrasting deep green foliage. No growth regulators needed. Height: 12-16 in.

13834 Peach. Cream w/red dots. H

Nemesia

N. foetans

65°-72°F. 4-5 days. Cover seed.

Crop Time: Packs, 9-12 weeks

Poetry Series

Cool season crop best suited to spring

and autumn premium pack and 4 in. pot sales for bedding and mixed container use. Height: 12-14 in. Spread: 10-12 in. Pelleted seed.

21310 Blue. More compact. I

23270 Deep Pink J

23271 Pink K

21313 White. Most fragrant. L

21312 Mix

NEW Pretty Please Series

Large, bold, bicolor flowers on compact, densely-branched upright habit. Economical, disease free option to vegetative. Height: 8-10 in. Spread: 8-10 in. Pelleted seed.

26780 Blue Bicolor M

26781 Pink Bicolor N

Seventh Heaven Series

Superior branching, large flowers, and has the first bicolor. Height: 12-14 in. Spread: 14-16 in. Pelleted seed.

25040 Deep Blue O

25041 Lavender Bicolor P

25043 Pink Q

25044 White R

25042 Mix S

BEDDING PLANTS

NICOTIANA



Nicotiana

(Ornamental Tobacco)

70°F. 7-12 days. Do not cover seed.

Crop Time: Packs, 13-15 weeks

N. mutabilis

Marshmallow Series

Unique, attractive, 3 colors; rose, pink, and white fragrant flowers on each plant. Resistant to mildew. Height: 4 ft. Pelleted seed.

25351 Marshmallow A

N. x sandrea

Perfume Series

Bred for improved disease tolerance and garden performance. Vigorous, well branched plants support a mass of upward facing fragrant blooms that thrive all summer. Height: 10-12 in. Spread: 16-20 in. Pelleted seed.

19342 Antique Lime B

13859 Blue C

13860 Bright Rose D

13861 Deep Purple. AAS Winner. E

13863 Lime F

13865 Red G

13866 White H

13864 Mix

Nierembergia

N. hippomanica violacea

70°F. 6-15 days. Cover seed.

Crop Time: Packs, 6-8 weeks

Robe Series

Easy to germinate. For bedding and hanging baskets. Also very nice as edging in the border when direct sown. Single 1 in. flowers. Height: 8 in. Spread: 8-10 in.

13877 Robe Purple I

13878 Robe White J

Oregano Ornamental

Origanum hybrida

68°-72°F. 4-5 days. Do not cover seed.

Plug Time: 288 tray, 5-6 weeks

Finish Time: 9-11 weeks

Kirigami

Dense, mounded, slightly trailing plant has a tighter and fuller habit than vegetative varieties. Fragrant foliage attract pollinators. Heat and drought tolerant. Versatile plant; patio, baskets, borders, rock gardens, dried. Height: 8-10 in. Spread: 12-14 in.

25371 Kirigami K

Osteospermum

O. ecklonis

68-70°F, 8-12 days. Cover seed.

Crop Time: 4 in. pot 14-16 weeks

Akila Series

Uniform habit across all colors and highest seed quality make Akila the best seed Osteospermum. Branches without pinching. Excellent in the landscape. Height: 16-20 in. Spread: 16-20 in.

23959 Daisy White. AAS Winner. L

21318 Lavender Shades

21320 Purple

26536 NEW Sunset Shades M

21321 White. Blushes in landscape.

22553 White Purple Eye N

21319 Mix O

25372 MixGrand Canyon P

Asti Series

First seed Osteospermum in separate colors. Benefits of seed vs. cutting: no virus, tag, or royalty. Same heat and cold tolerance as vegetative Tradewinds. Height: 17-20 in. Spread: 17-20 in.

18721 Lavender Shades

16574 Purple

22349 Purple Bicolor Q

18723 White. AAS Winner.

18722 Mix R

Passion Series

Semi cold tolerant annual, ideal for 4-6 in. pots, large containers and for mass plantings in cooler growing areas. The mixture consists of pink, rose, purple, and white, 2-2 1/2 in. single blooms with azure blue centers. Height: 10-16 in. Spread: 12-18 in.

13895 Mix. AAS Winner. S



Pansy

Viola x wittrockiana

60°-65°F. 8-15 days. Cover seed lightly.

Crop Time: Packs, 12-15 weeks

Giant Flowered (3 1/2-4 in.)

Majestic Giant II Series

Faster to flower than the original. Compact habit reduces the need for growth regulators. Height: 5 in. Spread: 6 in.

- 14091 **Blue & White.** Blue cap.
- 20468 **Blue Jeans** **A**
- 24640 **Blueberry & Cream**
- 23672 **Clear Purple**
- 22362 **Clear Yellow**
- 23674 **Clear White**
- 14092 **Deep Blue w/Blotch**
- 14093 **Fire** **B**
- 14094 **Marina**
- 23351 **Mid Blue w/Blotch**
- 14098 **Purple w/Blotch**
- 14099 **Red w/Blotch**
- 14100 **Rosalyn.** Rose to pink shades with a blotch. **C**
- 14101 **Rose w/Blotch**
- 14102 **Sherry.** Light pink, yellow to dark pink. **D**
- 14103 **White w/Blotch**

- 14104 **Yellow w/Blotch**
- 23676 **Mix Clear**
- 14095 **Mix Blotch**

Mammoth Series

Most uniform giant flowered series on the market. Height: 6-8 in. Spread: 6-8 in.

- 19814 **Big Red**
- 19688 **Blue-Ti-Ful**
- 19696 **Deep Blue Dazzle**
- 19778 **Glamarama White**
- 19816 **On Fire**
- 20475 **Pink Berry** **E**
- 19748 **Prima Yellorina**
- 19750 **Queen Yellow Bee**
- 19817 **Rocky Rose**
- 19746 **Sangria Punch** **F**
- 19747 **Viva La Violet**
- 19818 **White Hot**
- 19741 **Mix Masquerade**
- 19815 **Mix**

Matrix Series

Design-engineered to make plants with superior structure and holdability, while minimizing waste and unacceptable performance. Height: 8 in. Spread: 8-10 in. All colors in price booklet.

- 18752 **Martrix Mix** **G**

Spring Matrix Series

Best choice for shorter days and cool growing. Looks better, lasts longer, and has the tightest bloom window across a full range of colors. Height: 8 in. Spread: 8-10 in. All colors in price booklet.

- 22573 **Spring Matrix Mix** **I**

Inspire DeluXXe Series

Improved for extra large flowers, earliness, and uniformity. Long lasting 3 1/2 in. blooms. Superior performance for fall and spring production. Height: 6-8 in. Spread: 6-8 in.

- 25649 **Blue Surprise** **J**
- 24193 **Deep Blue Blotch**
- 26377 **NEW Deep Rose Blotch** **J**
- 24195 **Denim**
- 26722 **NEW Light Rose Blotch** **K**
- 24949 **Ocean**
- 26378 **NEW Pink Surprise Blotch** **L**
- 24203 **Red Blotch**
- 25650 **Rose Velour** **M**
- 24207 **White**
- 24208 **White Blotch**
- 24211 **White Violet Wing** **N**
- 24213 **Yellow**
- 24214 **Yellow Blotch**
- 25652 **Mix Blotch** **O**

- 25651 **Mix Blue Moon** **P**
- 24197 **Mix Blueberry** **Q**
- 25653 **Mix Fall Daze** **R**
- 24201 **Mix Mulberry** **S**
- 24199 **Mix Maxi** **T**
- 25654 **Mix Old Glory** **U**
- 25655 **Mix Wine & Roses** **V**

Super Swiss

Non hybrid special blend for florists, outstanding in form and range of dark, rich colors. Most of the blooms are waved.

- 14174 **Super Swiss Reselected Mix**

Large Flowered (2 1/2-3 1/2 in.)

Crown Series

Early, uniform habit with bright clear blooms. Height: 5 in. Spread: 6 in. Primed seed.

- 13917 **Azure.** Light blue.
- 13918 **Blue**
- 13920 **Golden**
- 13923 **Purple**
- 13927 **Yellow**
- 13916 **Yellow Splash.** Cream w/yellow blotch.
- 13921 **Mix**

BEDDING PLANTS

PANSY



Pansy continued

Inspire Plus

Improved for uniformity, earliness, flower size, and timing. Compact plants do not stretch. Beefy leaves fill pots quickly. Good overwintering. Height: 6-8 in. Spread: 6-8 in.

- 24217 Beaconsfield
- 24219 Blue Blotch
- 25663 Blue Velvet
- 25664 Lemon
- 24951 Lemon Blotch
- 26724 **NEW** Light Blue **A**
- 24221 Marina
- 25665 Metallic Blue Blotch
- 24231 Orange
- 26381 **NEW** Orange Blotch **B**
- 26382 **NEW** Pink Shades **C**
- 24233 Red Blotch
- 24235 True Blue
- 24237 Violet
- 24238 Violet Face
- 24241 White
- 24242 White Blotch
- 24245 Yellow
- 24246 Yellow Blotch
- 24249 Yellow Purple Wing
- 25666 Mix Blotch **D**
- 25667 Mix Blueberry Pie **E**

- 25668 Mix Clear **F**
- 25669 Mix Jack-O-Lantern **G**
- 25670 Mix Limoncello **H**
- 24223 Mix Mardi Gras. Includes: yellow purple face, yellow, violet face.
- 25671 Mix Summer Skies **I**
- 24227 Mix Sun N Surf. Includes: true blue, blue blotch, marina, yellow.
- 24229 Mix Sunny Day. Includes: yellow, orange, white.
- 25672 Mix Wine Country **J**
- 24225 Mix Maxi **K**

Delta Premium Series

Continuous flowering under low light. Height: 4-5 in. Spread: 4-6 in.

- 13941 Beaconsfield
- 17663 Blue w/Blotch
- 26145 **NEW** Blue Morpho **L**
- 23658 Deep Blue **M**
- 20439 Gold Blotch
- 20440 Marina
- 13951 Neon Violet
- 17667 Persian Medley
- 17669 Primrose w/Blotch
- 13953 Pure Golden Yellow
- 13954 Pure Lemon. Deeper than Primrose.
- 18726 Pure Light Blue
- 22364 Pure Orange
- 13955 Pure Primrose

- 13956 Pure Violet
- 13957 Pure White
- 13958 Pure Yellow
- 13959 Red w/Blotch
- 13963 Rose w/Blotch
- 13965 Tapestry
- 18727 True Blue
- 20444 Violet & White
- 13969 White w/Blotch
- 13961 Yellow w/Blotch
- 13960 Yellow w/Purple Wing
- 20429 Mix Apple Cider
- 18932 Mix Blotch
- 20431 Mix Buttered Popcorn
- 13943 Mix Cool Water
- 20441 Mix

Grandio Series

Bred for efficiency in modern greenhouse production. Shorter flower stems under long warm days. Compact in early sowings with less plant stretching in high heat. Uniform habit across series. Height: 8-12 in. Spread: 5-7 in.

- 25433 Blue w/Blotch **N**
- 23321 Clear Golden
- 23323 Clear Orange
- 23325 Clear Purple
- 23327 Clear Rose
- 23329 Clear White

- 23331 Deep Blue w/Blotch
- 23679 Masquerade **O**
- 23681 Rose with Blotch
- 23343 True Blue
- 23345 White w/Blotch
- 23347 White w/Rose Blotch
- 23349 Yellow w/Blotch
- 23334 Mix Blotched
- 23336 Mix Bright
- 23338 Mix Citrus
- 23340 Mix Clear **P**
- 23342 Mix Royalty

Imperial Series

Very large flowers with unique colors. Early blooming, compact-heat resistant-long flowering strain.

- 14027 Antique Shades

NEW Spring Grandio Series

Bred for early spring production. More day length neutral, uniform, early blooming across series. Crop time: 10-11 weeks. Height: 7 in. Spread: 5 in.

- 26638 Blue Blotch **Q**
- 26643 Clear Purple **R**
- 26641 Clear Rose **S**
- 26645 Clear True Blue **T**
- 26644 Clear White **U**



- 26642 Clear Yellow **A**
- 26637 Deep Blue Blotch **B**
- 26634 Red Blotch **C**
- 26635 Rose Blotch **D**
- 26639 White Blotch **E**
- 26640 White Rose Blotch **F**
- 26636 Yellow Blotch **G**
- 26647 Mix Blotch **H**
- 26646 Mix Clear **I**

Specialty (Unique pansies)

Cats Series

Unprecedented and striking 'whiskers' pattern on large flowers. Height: 6-8 in.

- 20420 Light Blue
- 20422 Orange
- 20423 Purple & White
- 20424 Red & Gold
- 20425 White
- 20426 Yellow
- 20421 Mix

Frizzle Sizzle Series

Ruffled, 3 in. blotched blooms of very early, compact plants.

- 19713 Blue
- 19725 Burgundy
- 25156 Lemonade
- 26541 **NEW** Lemonberry **J**

- 21419 Orange
- 21423 Raspberry
- 19734 Yellow
- 19735 Yellow w/Blue Swirl
- 19812 Mix **K**

Joker Series

Unique color combinations, blooms 2-3 in.

- 14062 **Jolly**. **AAS Winner**. Orange with purple wings.
- 14056 **Light Blue**. Blue with white face.
- 14057 **Mahogany Gold**. Red-brown w/gold face.
- 14059 **Poker Face**. Violet w/orange face.
- 14060 **Red Gold**. Golden orange w/red whiskers.
- 14061 **Violet Gold**. Violet w/yellow whiskers.
- 14058 Mix **L**

NEW Halloween Improved

Unique, uniform pure black color, on strong, short peduncles. Early, well-branched. Plug crop time: 5 weeks. Transplant to finish: Fall 2-3 weeks. Height: 6-8 in. Spread: 8-10 in.

- 26104 Halloween Improved **M**

Ultima Series

Unique distinctive color patterns. Early to bloom. Flower Size: 2-2 1/2 in. Height: 6 in.

- 14196 **Morpho**. **AAS Winner**. Bright pastel blue with a golden yellow center. **N**
- 20518 **Purple Lace**. Deep purple with edge. Primed seed. **O**

NEW Viola Tasty Series

The incredible edible viola, has a mild sweet, peppery taste. Has a medium sized flower, and colors are soft and gentle. Brand name in USA "Tasteful Viola". Crop time transplant to finish: 6 weeks. No PGRs needed.

- 26937 Mix

Trailing

Cool Wave Series

The most vigorous and prostrate spreading pansy joins the popular Wave brand. Reliably survives winter through zone 5. Flower Size: 2 in. Spread: 18-24 in. Height: 6-8 in. Primed seed.

- 24452 Blue Skies
- 23960 Blueberry Swirl **P**
- 25971 **NEW** Fire **O**
- 22278 Frost **R**
- 23272 Golden Yellow
- 26068 **NEW** Lemon **S**
- 25155 Morpho
- 23275 Purple

- 25373 Raspberry
- 26543 **NEW** Raspberry Swirl **T**
- 26544 **NEW** Strawberry Swirl **U**
- 23961 Sunshine N Wine **V**
- 22279 Violet Wing
- 22280 White
- 23273 Mix Berries N Cream
- 23274 Mix Pastel
- 22282 Mix

Freefall Series

A real trailing pansy from seed, with true winter flowering performance. Vigorous spreading habit and medium 2 in. flowers. Sustained day-length neutral flowering ensures color even through winter months. Height: 6-8 in. Spread: 12-15 in. Primed seed.

- 22350 Cream
- 21410 Deep Violet
- 21411 Golden Yellow
- 21412 Lavender
- 23087 Marina
- 26782 **NEW** Morpho **W**
- 21414 Purple & White
- 21415 Purple Wing
- 26783 **NEW** White **X**
- 22351 Mix Little Faces
- 22352 Mix Moonlight
- 21413 Mix

BEDDING PLANTS

PANSY



Pansy *continued*

Freefall XL Series

Same easy to grow spreading habit as Free Fall series, with larger flowers. Primed Seed.

- 25734 **Bright Yellow**
- 26131 **NEW Golden Yellow** A
- 25735 **Purple Face**
- 25736 **Red Wing**
- 26786 **NEW Scarlet Blotch** B
- 26787 **NEW Victoriana** C
- 26788 **NEW Yellow Blotch** D

Wonderfall Series

Trailing pansy. Vigorous, spreading plants that fill containers quickly, even in high-temperatures. Superior branching and low growing. Crop Time: 9-12 weeks. Height: 8-10 in. Spread: 18-24 in.

- 22366 **Blue Picotee Shades**
- 23189 **Blue with Blotch**
- 22367 **Lavender Picotee Shades**
- 23192 **Purple**
- 22368 **Purple and Blue Shades**
- 23195 **Purple with Face**
- 22369 **Rose Shades with Face**
- 23198 **White**
- 23200 **Yellow**
- 23202 **Yellow with Blotch**
- 22370 **Yellow with Red Wing**

Pentas

P. lanceolata

70°-72°F. 7-10 days. Cover seed.

Crop Time: Packs, 15-17 weeks

Glitterati Series

Distinctive star pattern, combines easily with other varieties, especially for 4th of July and hot seasons. Plug: 6-7 weeks, Finish: 8-10 weeks. Height: 12-22 in. Spread: 10-18 in. Pelleted seed.

- 25380 **Purple Star** E

Graffiti Series

Early, uniform flowering, compact and well branched habit. Large flower heads are held above foliage. Thrives in heat and drought. Container: 4-6 in. Height: 8 in. Pelleted seed.

- 14226 **Bright Red**
- 14228 **Lavender**
- 18774 **Lipstick**
- 14230 **Pink**
- 24251 **Red Velvet**
- 14227 **Rose**
- 14231 **Violet**
- 14232 **White**
- 14229 **Mix** F

NEW Graffiti 20/20 Series

Improved uniformity across series for height and flower timing. First bicolor, and white fits better with rest of series. Dense, tight, flower clusters, better branching, and more flowers. Crop time 13-14 weeks. Height: 12 in. Pelleted seed.

- 26475 **Flirty Pink Bicolor** G
- 26476 **Fuchsia** H
- 26477 **Lavender Pink** I
- 26478 **Lazer Pink** J
- 26479 **Ruby** K
- 26480 **True Pink** L
- 26481 **Ultra Violet** M
- 26483 **White** N
- 26484 **Mix** O

Honey Cluster Series

Vigorous, fills a pot with ease and flowers up to one week earlier than other varieties. Height: 8-20 in. Spread: 10-12 in. Pelleted seed.

- 24994 **Deep Rose**
- 24996 **Pink**
- 24997 **Red**
- 24998 **White**
- 24995 **Mix**

Kaleidoscope Series

Reduced crop time and less PGR's means reduced production costs. Very vigorous growth habit with good basal branching. Use: landscapes, large flower beds and containers. Height: 18-20 in. Spread: 16 in. Pelleted seed.

- 14233 **Appleblossom**
- 14234 **Carmine**
- 14235 **Deep Red**
- 19137 **Deep Rose**
- 14236 **Lilac**
- 19139 **Pink**
- 19138 **Mix** P

Lucky Star Series

Uniform 3-5 day bloom window, with fastest follow-up blooming, means nonstop color and plants stay compact and tight, ready for sale. Plug: 6-7 weeks. Finish: 7-8 weeks. Height: 12-16 in. Spread: 12-14 in. Pelleted seed.

- 25374 **Dark Red**
- 25375 **Deep Pink**
- 25376 **Lavender**
- 26454 **NEW Lipstick** Q
- 25377 **Pink**
- 25973 **NEW Raspberry** R
- 25378 **Violet**
- 25379 **White**
- 26042 **NEW Mix** S



**B
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2 20/100
3 20/70
4 20/50
5 20/40
6 20/30
7 20/25
8 20/20
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10
11

The difference is crystal clear:

Earlier; better plug vigor; dense flower clusters & bigger florets

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BEDDING PLANTS

PENTAS



Pentas continued

New Look Series

Compact plant has star shaped flower cluster. Height: 8-10 in. Pelleted seed.

- 14238 Pink
- 14239 Red **A**
- 14240 Rose
- 14241 Violet
- 14242 White
- 14237 Mix

Pepper Ornamental

Also see Cut Flowers

Capsicum annuum

72°-76°F. 5-7 days. Cover seed.

Crop Time: Packs, 11-14 weeks

Black Pearl

Foliage is greenish when young and becomes glossy black with maturity. Black fruit matures to dark red. Height: 14-18 in. Spread: 12-16 in.

14281 **Black Pearl**. AAS Winner. **B**

Calico

Strongly variegated purple/cream/green tri-color foliage and glossy black fruit. Weeks

to finish 13-15. Height: 10-12 in. Spread: 14-16 in.

19145 **Calico** **C**

Chilly Chili

An excellent choice for landscape use. Non-pungent, child safe fruits. Greenish yellow fruits mature to dark red. Each fruit is 2-2 1/2 in. long. Height: 9-10 in. Spread: 13-14 in.

14288 **Chilly Chili**. AAS Winner. **D**

Midnight Fire

Distinctive dark black foliage, accented by purple fruit which matures to bright red. Plug: 4-5 weeks. Finish: 7-13 weeks. Height: 9-12 in. Spread: 14-16 in.

25383 **Midnight Fire** **E**

Onyx Red

Striking contrast between black foliage and shiny 3/4 in. round red fruits. Vigorous, continually growing plant, yet retains their neat, compact habit. Versatile: beds, borders, as well as containers. Height: 8-10 in. Spread: 6-8 in.

25825 **Onyx Red**. AAS Winner. **F**

Purple Flash

Leaves are almost black with flashes of bright purple. Height: 13-15 in. Spread: 19-21 in.

19147 **Purple Flash** **G**

Sangria

Striking purple and red, non-pungent fruits. Height: 10-12 in. Spread: 16-18 in.

19148 **Sangria** **H**

Sedona Sun

Brilliant multicolor yellow and orange fruit, uniform habit. Height: 9-12 in. Spread: 14-16 in.

25164 **Sedona Sun** **I**

Petunia

P. hybrida

70°-75°F. 7-12 days. Do not cover seed.

Crop Time: Packs, 14-16 weeks

Double Flowered

Double Cascade Series (Grandiflora)

More compact and 2-4 weeks earlier than the older grandiflora doubles. Huge, 3-4 in. heavily petaled flowers. Height: 10-15 in. Spread: 10-12 in.

14468 **Blue** **J**

14470 **Burgundy**

14474 **Orchid Mist**. Light lavender-pink. **K**

14476 **Pink** **L**

26548 **NEW Valentine** **M**

14472 **Mix**

Double Glorious Series (Grandiflora)

14574 **Mix** **N**

Pirouette Series (Grandiflora)

Bicolors with white edges.

14608 **Purple** **O**

14610 **Red** **P**

14612 **Rose**

Double Bonanza Mix (Multiflora)

Double blooms 2 1/2-3 in.

14723 **Double Bonanza Mix**



Single Flowered

Hedgiflora

Tidal Wave Series

Tallest of the Wave family, grows outward then up forming a shrub like shape. Botrytis tolerant. Flower Size: 2-2 1/4 in. Height: 16-22 in. Spread: 2 1/2-5 ft. Pelleted seed.

- 14724 Cherry
- 14725 Hot Pink
- 14726 Purple
- 24468 Red Velour **A**
- 14727 Silver. **AAS Winner.**

Spreading

Combo Series

Chosen specifically for its habit and performance as a combination component. Height: 6-12 in. Spread: 2.5-3.25 ft. Pelleted seed.

- 25386 Blue **B**

Easy Wave Series

Earlier, more mounded and less spreading than Wave series. Height: 8-12 in. Spread: 2 1/2-3 ft. Pelleted seed.

- 23962 Berry Velour **C**
- 14513 Blue
- 19710 Burgundy Star

- 23963 Burgundy Velour **D**
- 14514 Coral Reef
- 26550 **NEW** Lavender Sky Blue **E**
- 20572 Neon Rose
- 14516 Pink
- 24464 Pink Passion **F**
- 19717 Plum Vein
- 14517 Red
- 23964 Red Velour **G**
- 14518 Rosy Dawn. Morn pattern.
- 24465 Silver **H**
- 19755 Violet
- 14523 White
- 24466 Yellow **I**
- 14512 Mix Beachcomber
- 20570 Mix Great Lakes **J**
- 20571 Mix Opposites Attract
- 19774 Mix Plum Pudding
- 21727 Mix South Beach
- 19762 Mix Starfish
- 14521 Mix The Flag
- 14515 Mix

Evening Scentsation

Received AAS award for its lovely fragrance and stunning color. Has notes of hyacinth, sweet honey and rose. Its scent is stronger in the evening hours, though it can be experienced throughout the day as well. Works well in containers, hanging baskets and in mass. Height: 5-8 in. Spread:

30-35 in. Pelleted seed.

- 25705 Evening Scentsation. Blue. **AAS Winner.** **K**

Opera Supreme Series

Stays low and spreading up to 3 ft., not mounded. Better day length neutrality. Medium flowers with attractive sheen borne in great profusion from the centers to the tips of the plants. Landscape or hanging baskets. Height: 4-6 in. Pelleted seed.

- 18803 Blue
- 18804 Coral
- 18805 Lavender
- 18806 Lilac Ice
- 14598 Pink Morn. **AAS Winner.** **L**
- 18807 Purple
- 26678 **NEW** Purple Vein **M**
- 20583 Raspberry Ice **N**
- 23880 Red **O**
- 18808 Salmon
- 18809 White

Picobella Cascade Series

Trailing mini-petunia, milliflora. Extra early flowering, even under short days. Best in 4 in. and baskets. Spreads up to 18 in. Crop Time: 8-11 weeks. Height: 8-10 in. Pelleted seed.

- 26168 **NEW** Burgundy **P**

- 22372 Coral
- 22373 Lavender
- 22375 Pink Glo
- 22376 Purple
- 22377 Red
- 22378 Salmon
- 24317 Sky Blue **U**
- 22379 White
- 22374 Mix **R**

Radiance Series

Heat loving 'Hotunias' with good disease tolerance. First spreading-type bred and produced under tropical hot and humid conditions. Crop Time: 25-30 days from sowing to transplant, 40 days from transplant to first flowers. Flower Size: 2-3 in. Height: 6-8 in. Spread: 2 1/2-3 ft. Pelleted seed.

- 24724 Blue **S**
- 24725 Grape
- 24726 Lilac
- 24727 Neon Rose **T**
- 24728 Pink Morn **U**
- 24729 Pink
- 24730 Purple
- 24731 Red
- 24732 Salmon Morn
- 24733 Salmon
- 26726 **NEW** White **V**
- 24734 Mix

BEDDING PLANTS

PETUNIA



Petunia continued

Ramblin Series

Controlled habit. Easy to flower in early spring. Flowers cover the entire plant, including the crown. Mounding habit is landscape friendly. Container: 4 in and larger. Trails: 2-3 ft. Height: 10-14 in. Pelleted seed.

- 23664 **Amethyst**
- 14671 **Burgundy Chrome** **A**
- 14673 **Lavender**
- 14674 **Lilac Glo**
- 14676 **Neon Rose** **B**
- 14677 **Nu Blue**. Deep blue.
- 14678 **Peach Glo** **C**
- 14679 **Pink**
- 14681 **Red**
- 14682 **Salmon Capri**
- 14683 **Shades O'Pink**
- 25611 **Sky Blue** **D**
- 20603 **Sugar Plum**
- 14684 **Violet**
- 14685 **White**
- 14672 **Mix Calypso**
- 14680 **Mix Razzleberry**
- 14675 **Mix**

Shock Wave Series

Has the spreading habit of Easy Wave with

an extreme proliferation of smaller flowers. Flowers in 9-12 weeks. Best in 306 packs, 4-6 in pots, 10 in baskets. Height: 7-10 in. Spread: 2 1/2-3 ft. Pelleted seed.

- 20604 **Coconut**
- 21800 **Coral Crush**
- 22618 **Deep Purple**
- 19756 **Denim**
- 18814 **Pink Shades**
- 18815 **Pink Vein**
- 21802 **Red**
- 18817 **Rose**
- 20605 **Mix Spark** **E**
- 21801 **Mix Volt** **F**

NEW Skybox Series

New class of spreading petunia. Extra-early flowering, even under short days. Large flowers, with stable star pattern. Fills large containers in 9-10 weeks. Height: 10-14 in. Spread: 24-28 in. Pelleted seed.

- 26811 **Rose Star** **G**

Sophistica Series

Truly unique colors in a large flower size. Weeks to flower: 11-13. Height: 10-15 in. Pelleted seed.

- 19775 **Antique Shades** **H**
- 22621 **Black Berry** **I**

- 19744 **Blue Morn**
- 19687 **Lime Bicolor** **J**
- 22622 **Lime Green**
- 23965 **Twilight** **K**

Success Series

Earliest series, flowering 7 days ahead of competition. Most uniform with all colors flowering in 6 day window. Unique round, mounded habit. Height: 10-12 in. Spread: 24-34 in. Pelleted seed.

- 23720 **Blue**
- 23721 **Burgundy**
- 23722 **Pink**
- 23723 **Red**
- 23724 **Rose**
- 23725 **Salmon**
- 26333 **NEW Silver Vein** **L**
- 23726 **Violet**
- 23727 **White**
- 23728 **Mix Liberty**. Includes: white, red, blue.
- 23730 **Mix Twilight**. Includes: white, pink, burgundy, blue. **M**
- 23729 **Mix Maxi** **N**

Trilogy Series

Plants grow up, then out to form a novel dome shape with some spread, while maintaining a tidy habit. Day length neutral with high multiflora flower count. Benefits 3 market segments: Grower, Retailer,

Consumer. Fits into any PGR program, no tangling, long shelf life. Height: 10-12 in. Spread: 24-30 in. Pelleted seed.

- 22995 **Blue**
- 22996 **Lavender Pink**
- 26680 **NEW Lime** **O**
- 22479 **Purple**
- 26679 **NEW Purple Vein** **P**
- 22480 **Rose**
- 26959 **NEW Rouge**
- 26263 **NEW Salmon Morn** **Q**
- 22483 **Scarlet**
- 22484 **White**
- 24167 **Mix July**. Includes: scarlet, white, blue. **R**
- 24166 **Mix Custom**

Wave Series

All horizontal growth. Stems grow along the ground and spread 2-4 ft. Superior landscape performance under severely stressful growing conditions. Height: 5-7 in. Pelleted seed.

- 26551 **NEW Carmine Velour** **S**
- 14774 **Lavender**
- 14775 **Misty Lilac**
- 14776 **Pink**
- 14777 **Purple Classic**. **AAS Winner**. The original.
- 20622 **Purple** **T**

25 Years of FIRSTS!



NEW Wave®
Carmine Velour Petunia

Wave® is the FIRST branded petunia...the FIRST to have its own website, wave-rave.com...**the FIRST** with colored packaging for better brand name recognition...**the FIRST** offered in pellet form for easy sowing and easy growing...your **FIRST choice** in petunias!

For 25 years, Wave® has been the #1 choice in petunias, and it gets better all the time.

Get ready to celebrate in 2020! Contact your Gloeckner sales representative to order Wave® petunia seed and plugs today.

Find culture and more at panamseed.com.

BEDDING PLANTS

PETUNIA



Petunia continued

Milliflora

Picobella Series

These little beauties are naturally dwarf and can be grown like other petunias with no or very limited PGRs. Crop Time: 8-10 weeks. Height: 8-10 in.

- 19157 **Blue**
- 19154 **Carmine**
- 19158 **Light Lavender**
- 25003 **Pink** **A**
- 19822 **Red**
- 19163 **Rose**
- 20587 **Rose Morn**
- 20589 **Rose Star** **B**
- 19823 **Salmon**
- 19165 **White**
- 19161 **Mix** **C**

Multiflora

Carpet Series

Heat tolerant, free-flowering plants with an extremely compact habit and great garden performance. Height: 10-15 in. Spread: 10-15 in.

- 14349 **Blue**
- 14350 **Blue Lace**. Dark blue veined.

- 14353 **Blue Star**
- 14355 **Bright Red**
- 14357 **Buttercream**
- 14358 **Lilac**
- 14363 **Pink**
- 14367 **Plum**. Rosy orchid, purple veined.
- 14369 **Rose**
- 14370 **Rose Star**
- 14372 **Salmon**
- 14374 **Sky Blue**
- 14376 **True Blue**
- 14377 **Velvet**
- 14379 **White**
- 14362 **Mix Neptune**. Blues and white.
- 14360 **Mix**

Celebrity Series

Early, free blooming, remain neat and compact through the entire growing season. Most attractive in mass planting.

- 14381 **Blue**
- 14384 **Blue Ice**
- 14387 **Burgundy**
- 14388 **Burgundy Frost**
- 14391 **Burgundy Star**
- 14393 **Carmine**
- 14395 **Chiffon Morn**. AAS Winner.
- 14401 **Lilac**
- 14402 **Lilac Morn**
- 14410 **Neon**
- 14420 **Pink**

- 14421 **Pink Morn**
- 14424 **Plum Ice**
- 14428 **Red**
- 14430 **Red Morn**
- 14434 **Rose**
- 14437 **Rose Star**
- 14439 **Salmon**
- 14442 **Sky Blue**
- 14444 **Strawberry Ice**
- 14449 **White**
- 14451 **Yellow**
- 14397 **Mix Desert Sky**
- 14399 **Mix Ice**
- 14408 **Mix Morn**
- 14412 **Mix Niagara**. Shades of blue and white.
- 14416 **Mix Pastel**
- 14447 **Mix Watercolors**. Pastel colors.
- 14406 **Mix Regular** **D**

Damask Series

Naturally dwarf, compact plants that require no PGR's. Ideal for high-density production in small pots and packs. Crop Time: 7-9 weeks. Height: 8-10 in. Spread: 12-14 in.

- 23209 **Blue** **E**
- 23211 **Carmine** **F**
- 23215 **Pink** **G**
- 24999 **Purple** **H**
- 23217 **Red** **I**

- 23219 **Rose** **J**
- 23221 **Salmon** **K**
- 23223 **Violet** **L**
- 23225 **White** **M**
- 23213 **Mix**

Mambo GP Series

GP stands for improved Garden Performance with natural low grow habit, not needing PGRs. Height: 8-10 in. Spread: 10-12 in. Pelleted seed. All colors in price booklet.

- 25746 **Mix Grower**
- 24396 **Mix Full** **N**

Merlin Series

Unique bicolor pattern. Height: 10 in. Pelleted seed.

- 21785 **Blue Morn**. AAS Winner. **O**
- 21786 **Pink Morn** **P**
- 21788 **Rose Morn** **Q**
- 14595 **Mix Morn** **R**



Grandiflora

NEW 360 Success Series

Early, uniform, and packs so full they look great from 360°. Finish 5-6 weeks for 4 in. pots and 8-9 weeks for 10 in. hanging baskets. Transplant to finish: 9-13 weeks. Height: 12-14 in. Spread: 14-16 in. Pelleted seed.

- 26334 Blue **A**
- 26335 Burgundy **B**
- 26336 Burgundy Vein **C**
- 26337 Deep Pink **D**
- 26338 Deep Rose **E**
- 26339 Light Yellow **F**
- 26340 Purple **G**
- 26341 Purple Vein **H**
- 26342 Red **I**
- 26343 Red Star **J**
- 26344 Rose Star **K**
- 26345 Salmon Vein **L**
- 26346 White **M**
- 26347 Mix

Daddy Series

Large flowered, veined series. Flower Size: 3-4 in. Height: 10-15 in. Spread: 10-12 in.

- 14454 Blue
- 14458 Orchid
- 14461 Peppermint

- 14462 Pink
- 14464 Strawberry Red
- 14466 Sugar
- 14456 Mix **N**

Dreams Series

Most botrytis tolerant of any petunia. Flower Size: 3-4 in. Height: 10-15 in. Spread: 10-12 in.

- 14479 Appleblossom
- 14481 Burgundy
- 14482 Burgundy Picotee
- 19745 Coral Morn
- 14485 Midnight
- 14489 Neon Rose
- 14493 Pink
- 14495 Red
- 19337 Red Picotee
- 14497 Rose
- 18801 Rose Morn
- 14498 Rose Picotee
- 14501 Salmon
- 14503 Sky Blue
- 14507 White
- 14491 Mix Patriot
- 14505 Mix Waterfall **O**
- 14487 Mix

Duvet Series

Large 3 in. flowers on naturally dwarf, compact plants that require no PGR's. Ideal

for high-density production in small pots and packs. Crop Time: 8-11 weeks. Height: 6-8 in. Spread: 12-14 in.

- 22380 Blue
- 25001 Burgundy
- 22382 Pink
- 22383 Red
- 22384 Salmon
- 22385 White
- 22381 Mix

EZ Rider Series

Requires half the PGRs and in some conditions, none. Tight bloom window means all plants ship together. Height: 6-10 in. Spread: 8-12 in. Pelleted seed.

- 22608 Blue
- 22609 Deep Pink
- 22610 Deep Salmon **P**
- 22612 Red
- 22613 Rose **Q**
- 22614 White
- 23285 Mix

Frost Series

Large flowered wavy blooms with a white rim. Flower Size: 3 in. Height: 12-14 in. Spread: 14-16 in.

- 14564 Blue
- 14566 Cherry

- 14568 Fire
- 14572 Velvet
- 14570 Mix **R**

Hula hoop Series

Extra early, large flowered each with a white rim. Height: 8-10 in. Spread: 16 in.

- 14580 Blue
- 14582 Burgundy
- 14586 Red
- 14588 Rose
- 14590 Velvet
- 14584 Mix

Limbo GP series

GP stands for improved Garden Performance with natural low grow habit, not needing PGRs. Height: 8-10 in. Spread: 10-12 in. Pelleted seed. All colors in price booklet.

- 25633 Burgundy Picotee
- 25634 Red Picotee
- 25632 Rose Picotee
- 24388 Violet. AAS Winner.
- 26889 NEW Violet Picotee **S**
- 24375 Mix Full
- 25808 Mix Grower
- 25171 Mix Heather's. Includes: rose and violet.
- 26891 NEW Mix Picotee **T**

BEDDING PLANTS

PETUNIA



Petunia *continued*

TriTunia Series

For ease and uniformity in production, TriTunia is composed of the best performing and matching varieties from the legacy Bravo, Ultra and Storm series plus new improvements. Flower size: 3 in. Height: 12-14 in. Spread: 14-16 in. All colors in price booklet.

24333 Mix Pro Formula
24335 Mix Star
24337 Mix Veined
24331 Mix

Phlox

P. drummondii

60°-63°F. 10-14 days. Cover seed lightly.
Crop Time: Packs, 12-15 weeks

21st Century Series

Best grown in jumbo 4 in. pots or gallon containers. Height: 10 in. Spread: 10 in. Primed seed. All colors in price booklet.

14782 21st Century Mix A

Petticoat

A unique extra compact type with star-shaped flowers. Heat and drought resistant. Very long flowering period. Suitable as a small pot plant. Sowing-flowering: 12 weeks. Height: 6 in.

14800 Petticoat Mix B

Popstars Series

Large star-shaped flowers, on naturally dwarf plants with strong branching. Height: 10-12 in. Spread: 14-16 in.

25560 Blue C
26133 NEW Deep Blue D
25561 Purple E
25562 Purple Eye F
25563 Red G
25564 Rose Eye H
25565 White I
25566 Mix J

Promise Series

Dwarf. Semi-double. Compact in packs, pots and the garden. No growth regulators needed. Extremely long and rich flowering. Height: 6-8 in. All colors in price booklet.

14803 Promise Mix K

Plectranthus

68°-75°F. 5-7 days. Do not cover seed.

Crop Time: 4 in., 14-16 weeks

P. argenteus

Silver Crest

Similar to Silver Shield except smaller leaves, more trailing, earlier to bloom, less vigorous and dense. Height: 24-30 in.

19767 Silver Crest L

Silver Shield

Large, soft silvery-gray leaves, with some texture. Excellent in mixed containers. No pinching needed – branches better than vegetative. Height: 24-30 in. Spread: 24-30 in. Pelleted seed.

14822 Silver Shield M

Poppy See Perennials

Portulaca

P. grandiflora

70°-75°F. 7-10 days. Do not cover seed.

Crop Time: Packs, 12-13 weeks

Happy Hour Series

Reduced daylight sensitivity allows southern growers to sow earlier for early season sales. Well branched plants with mounding habit and large flowers. Height: 8-10 in. Spread: 10-12 in. Multi-seed pellets.

21809 Banana. Yellow. N
21811 Coconut. White. O
21813 Deep Red
21815 Fuchsia P
21817 Lemon
21821 Orange Q
21823 Peppermint
21825 Rosita. Rose. R
22624 Mix Pink Passion S
22626 Mix Tropical T
21819 Mix



Happy Trails Series

Vivid colors and fantastic spread in the garden. Shortest photoperiod, just 10 hours, allows growers to sow 2 weeks earlier. Height: 6-9 in. Spread: 14-18 in. Multi-seed pellet.

- 22628 Deep Red
- 22630 Fuchsia
- 22638 Orange
- 22640 Peppermint
- 22642 Pink
- 22646 Rosita
- 22648 White
- 22650 Yellow
- 22632 Mix **A**

Sundial Series

Flower under lower light levels and bloom earlier than open pollinated varieties. Height: 6-8 in. Spread: 14-16 in. Multi-seed pellet.

- 14863 Chiffon **B**
- 19873 Cream **C**
- 14866 Fuchsia **D**
- 14869 Gold **E**
- 19875 Mango **F**
- 19876 Orange **G**
- 19877 Peach. **AAS Winner** **H**
- 14881 Peppermint **I**

14884 Pink **J**

14887 Princess Pink

14891 Scarlet **K**

19878 Tangerine **L**

19872 White

19879 Yellow **M**

14874 Mix

Sunseeker Series

Combines the earliness of Sundials and the compactness of Margaritas. Well suited for 4 in. packs or jumbos. Flowers are fully double, about 2 in. and stay open longer into the evening. Multi-seed pellets.

- 14898 Cream
- 14902 Light Pink
- 14901 Orange
- 14903 Red
- 14904 White
- 14905 Yellow
- 14900 Mix Multicolor **N**

Purslane

P. oleracea

68°-74°F. 3-4 days. Do not cover seed.

Toucan Series

First economical, programmable and reliable seed-grown purslane for mass-market

baskets and containers. Healthy, easy-care series requires little or no PGRs and no need to pinch. Reintroduced as raw seed with 70% germination standard. Sow 4 seeds per cell. Flower Size: 2 in. Height: 3-4 in.

21827 Fuchsia

21828 Scarlet Shades

Primula

Also see Pot Plants
60°F. 10-14 days. Do not cover seed.

Crop Time: packs, 5-6 months

P. acaulis or *vulgaris*

Blue Zebra

Exciting, unique, compact primrose with temperature and light dependent blue and white striped flowers. Suitable for 4 ½ in. pots.

22677 Blue Zebra **O**

Candy

Mid-early. Designer mix of 3 varieties: Baby Pink, Vanilla and Sky Blue. All three vivid colors combine into an eye-catching mix. Flower Size: 2-2 ½ in. Pot size: 4-4 ½ in.

Height: 4-4 ½ in. Spread: 8-10 in.

22704 Mix **P**

Danessa Series

Earliest flowering acaulis, 19 weeks grown winter to spring. Requires no cold for flower initiation and maintains a compact habit. Ideal for early season sales and warmer temperatures. Height: 4 in. Spread: 6 in. All colors in price booklet.

23714 Mix **Q**

Danova Series

Early season type with large 1-1 ½ in. flowers held above foliage on compact plants. All bloom within two week period. Full color range. Height: 4-5 ½ in. Spread: 5 ½-7 in. All colors in price booklet.

14938 Mix **R**

14935 Mix Grower Select

Double Rubens Series

Uniform plant habit and flowering time, 95% double flowered. Mid-late flowering with widest color range in the market. Height: 10 in.

24088 Mix **S**

BEDDING PLANTS

PRIMULA



Primula continued

NEW Optic Series

Full-flowering, naturally compact habit, requiring less PGRs. Also, needs less cold to initiate flowers. Upright plant habit, blooms autumn, winter, and early spring. Plug crop time: 5-6 weeks. Transplant to finish: Fall 13-15 weeks. Height: 4-6 in. Spread: 6-8 in.

- 26069 **Blue** **A**
- 26070 **Copper** **B**
- 26071 **Cream** **C**
- 26552 **Gold** **D**
- 26072 **Rose** **E**
- 26073 **Scarlet** **F**
- 26553 **Scarlet Flame** **G**
- 26074 **White** **H**
- 26075 **Yellow** **I**
- 26076 **Mix** **J**

Primera Series

Early season type. Beefier habit and large blooms with rounded leaves. Plant sizes up easily for 4 in. production. Container: jumbos and larger. Height: 5-6 in. Spread: 5-6 in. All colors in price booklet.

- 15010 **Mix** **K**

Provence

Mid-early. Designer mix of 7 delicate soft pastel colors, which may remind you of the South of France. Flower Size: 2-2 1/2 in. Pot size: 4-4 1/2 in. Height: 4-4 1/2 in. Spread: 8-10 in.

- 24085 **Mix** **L**

Rambo

Mid-early variety. Vigorous grower with extra large flowers. Mix includes some special bicolors. For 4 in. pots and larger. Height: 4 3/4 in.

- 24086 **Mix Mid** **M**

Rosanna Series

Same flowering time as Danova, but looks like a bouquet of mini roses. Primed seed. All colors in price booklet.

- 15039 **Mix** **N**

Starflame

Unique eye-catching mix of 15 different flamed varieties. Mid-early variety.

- 22705 **Mix** **O**

NEW Sweet 16 Series

Larger flowers, open white, change to pink, finish rose. Crop time: Winter to Spring 20 weeks. Container: 4-5 in. Height: 5 in. Spread: 7 in.

- 26662 **Sweet 16** **P**

P. polyanthus (elator)

Castillian

Unique orange and yellow bicolor, with short stems on compact plants. Suitable for packs or pots.

- 22706 **Bicolor**

Laced Series

Striking small single flowers with unique laced color patterns. Multiple flower stems. Best in 4 1/2 in. pots or larger.

- 22711 **Mr. Gold Lace**. Black with gold edge. **Q**

- 22712 **Mr. Silver Lace**. Silver with black edge. **R**

Piano Series

Bred for fall or spring. Does not stretch, even under high heat. Can grow in warmer areas for fall crop as it requires very little cool temperatures to initiate flowers. All

colors in price booklet.

- 20665 **Mix** **S**

Supernova Series

Faster to bloom by 3 weeks with improved habit, disease resistance, and tolerance to temperature ranges compared to Pacific Giants. Multiple flower stems and buds at first flower. Height: 8 in. Spread: 7-8 in. All colors in price booklet.

- 19186 **Fire** **T**

- 18837 **Mix**

Ptilotus

P. exaltatus

75°-79°F. 5-7 days. Do not cover seed.

Joey

Feathery bottlebrush flower spikes are 2-5 in. start out silver and darken to neon pink near the tips. Native to central Australia, likes heat and drought tolerant. Keep plug on dry side and don't hold in plugs. Crop Time: 12 weeks. Height: 14-18 in. Spread: 12-14 in.

- 18981 **Joey** **U**



Rudbeckia

R. hirta

70°-72°F. 5-10 days. Cover or uncover seed.

Autumn Colors

Bronze petals, a red ring and a rusty red center. Well suited for use as a classic bedding plant. Sturdy, wiry flower stem. Height: 20-24 in. Spread: 12-15 in. Film-coated seed.

15150 Autumn Colors **A**

Cappuccino

Tetraploid. Large bronze brown flowers. Vigorous and well branched. Height: 16 in. Spread: 14-16 in.

18850 Cappuccino **B**

Cherokee Sunset

Blend of autumn colors: yellow, bronze, orange and mahogany. 3-4 in. double or semi-double flowers with long stems. Height: 24-30 in. Spread: 12 in.

15155 Cherokee Sunset. AAS Winner. **C**

Cherry Brandy ✂

First red Rudbeckia. Single flowers in red shades with deep red centers. Excellent cut flower and in beds. Pot Height: 12 in. Garden Height: 20 in. Spread: 18 in.

18959 Cherry Brandy **D**

Chim Chiminee ✂

Spectacular quilled flowers in shades from yellow through bronze to mahogany. Ideal cut flower. Height: 1 ½ ft.

15156 Chim Chiminee **E**

Denver Daisy

Golden 6-8 in. flowers with rusty red rings. Good for gallon production. Resists falling over in adverse weather. Height: 16-20 in. Spread: 15-20 in. Filmcoated seed.

19829 Denver Daisy **F**

Indian Summer ✂

Stems are strong and wiry with huge 6-9 in. double and semi-double golden yellow blooms. Height: 3-3 ½ ft. Spread: 24 in.

15163 Indian Summer. AAS Winner. **G**

Maya

First dwarf fully double flowering rudbeck-

ia. Strong stems hold 3 ½-4 ½ in. bright yellow flowers upright. Container: 6 in. to gallon. Height: 18-20 in. Spread: 18 in. Filmcoated seed.

15166 Maya **H**

Prairie Sun ✂

Light green central cone blends beautifully with the large, 5 in. golden-yellow petals which end in primrose yellow. Can be used as cut flowers. Grow in large 5-6 in. pots, saleable as strong green plants. Height: 28-32 in. Spread: 18 in. Filmcoated seed.

15168 Prairie Sun. AAS Winner. **I**

Sonora

Large golden yellow flowers with big black center. Height: 18-20 in. Filmcoated seed.

15170 Sonora **J**

Ruellia

R. tweediana/brittoniana

72°-76°F, 5-6 days. Cover with vermiculite.

Southern Star Series

First dwarf ruellia from seed. Compares well to vegetative. Heat loving plant, already popular in southeast, used as

groundcover. Weeks to flower 13-15. Best in 4 in. and larger. Height: 10-12 in. Spread: 16-18 in.

19199 Blue **K**

19200 Pink **L**

19201 White **M**

Salvia

(Scarlet Sage)

S. splendens

65°-75°F. 10-14 days. Do not cover seed.

Crop Time: Packs, 8-14 weeks

Amore Series

Early flowering and uniform, well branched habit. Day length neutral flowers carried well above green foliage. Height: 12-14 in. Spread: 8-10 in.

24412 Lavender **N**

24414 Plum **O**

24415 Purple **P**

24416 Rose **Q**

24417 Rose Bicolor **R**

24418 Salmon **S**

24419 Scarlet **T**

24420 Scarlet Bicolor **U**

24421 White **V**

24413 Mix Full

BEDDING PLANTS

SALVIA



Salvia continued

Flare

Large, full bright red flower spikes on medium tall plants ideal for garden and landscape use. Height: 14-18 in.

15190 Flare

Lighthouse

Tall bush-type with long lasting color display in the garden. Height: 20-28 in.

22653 Purple A

Mojave Series

Compact, upright habit, with dark green foliage, contrasting densely packed flower spikes. Excellent heat tolerance for landscape performance. Height: 8-12 in. Spread: 10-12 in.

26792 Purple B

22891 Red C

26793 Red White Bicolor D

26794 Salmon E

26795 White F

26796 Mix

Reddy Series

Naturally dwarf and compact with dark

green foliage. Early flowering with a long shelf life. Compare to Vista. Height: 10-12 in.

20706 Bright Red

21937 Lavender

21939 Pink

21940 Purple

21941 Salmon

21942 Scarlet Bicolor G

21943 White

20707 White Surprise H

23377 Mix Cleopatra

15214 Mix Nero

21938 Mix Full I

Scarlet King

Day length neutral. Intense scarlet spike contrasting beautifully with deep dark green foliage. Medium early. Height: 11 in.

15231 Scarlet King

Sentry Series

Early, compact plant with dense flower spikes. Can use in smaller pots and packs. Height: 8-10 in. Spread: 10-12 in.

25045 Sentry J

Sizzler Series

Day length neutral. Bright clear colors and

an abundance of flower spikes carried well above the dark green foliage. Outstanding garden performance. Early flowering. Height: 10-12 in.

15237 Burgundy

15235 Burgundy Halo

15238 Lavender

15244 Purple

15246 Red

15250 Salmon

15251 White

15240 Mix K

Solar Series

Compact, and heat-tolerant, with non-fading deep red flowers, on 5-6 in. spikes. Complemented by dark green foliage. Plug crop time: 3-4 weeks. Transplant to finish: 5-7 weeks. Height: 10-12 in. Spread: 10-12 in.

26388 Red L

Vista Series

Day length neutral. Well matched in heat tolerance habit and earliness, with a 5-7 day flowering window. Height: 12 in.

15255 Lavender

15257 Purple

15258 Red M

15259 Red and White

18852 Rose

15260 Salmon

15261 White

15256 Mix

S. coccinea

Hummingbird Series

Extremely heat and drought tolerant. Spikes of small trumpet-like blooms seem to glow and flourish in the sunniest of locations. Height: 12-15 in.

17989 Coral Nymph N

20702 Forest Fire

15194 Lady In Red. AAS Winner.

20703 Snow Nymph O

Summer Jewel

Extra early to bloom, 7-9 weeks from sowing and flowers all season. Very compact with excellent branching. Attracts hummingbirds. Height: 14-24 in.

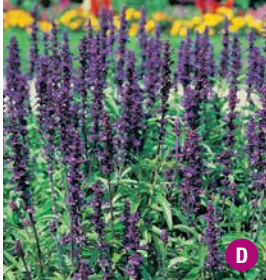
25184 Lavender. AAS Winner. P

22494 Pink. AAS Winner. Q

21944 Red. AAS Winner. R

24170 White. AAS Winner. S

24169 Mix Formula



S. farinacea

75°-78°F. 12-15 days.

Blue Bedder ✂

The tallest of the blue Farinaceas. Excellent cut flower. Height: 3 ft.

15184 Blue Bedder

Evolution Series

Unique deep violet flower spikes on a well branched habit. Height: 18 in.

15189 Evolution. AAS Winner. Deep violet. **A**
21933 White **B**

Fairy Queen

Unique bicolor, sapphire blue flowers with small white spot. Height: 18 in.

18851 Fairy Queen **C**

Rhea (Mina)

Dwarf selection out of Victoria, with heavy brilliant blue purple spikes. Height: 16-18 in.

15216 Rhea **D**

Strata

Grayish-white flower spikes with clear blue florets each with a white calyx. Height: 18 in.

15252 Strata. AAS Winner. **E**

Victoria Series

Plants are dwarf, exceptionally uniform and base branching. Height: 18-20 in.

15253 Blue

15181 White Argent **F**

S. longispicata x farinacea

Big Blue

Vigorous flowering annual with an inspiring clear blue color. The first of its type from seed. Super showy, great performer in heat and low-water, no deadheading. Attracts hummingbirds, bees, butterflies. Plug (288) crop time: 4 weeks. Transplant to finish: 8-13 weeks (depending on day length). Height: 24-36 in. Spread: 18-20 in.

26077 Big Blue **G**

S. patens

Patio Series

Genetically compact and well branched. Uniformity compares to vegetative types. Crop Time: 12-14 weeks. Height: 12 in.

19207 Deep Blue

19208 Sky Blue **H**

Shasta Daisy

70°-75°F. 10-14 days. Cover seed.

Snow Lady

Compact plants spread 12 in. Extra early and 100% annual. Blooms about 2 ½ in. are freely produced over entire plant and begin flowering when plant is only 6 in. tall. Height: 10 in.

15301 Snow Lady **I**

Snapdragon

Antirrhinum majus

Also see Cut Flowers for greenhouse production. 70°-75°F. 10-14 days. Do not cover seed. **Crop Time:** Packs, 20-21 weeks

Candy Tops Series

Strong stems, abundance of sweet fragrant blooms, on dwarf plants. Ships well, with retail appeal. Crop Time: 10-13 weeks. Height: 7-8 in. Spread: 6 in. Pelleted seed.

25420 Orange **J**

25418 Red **K**

25419 Rose **L**

25422 White **M**

25421 Yellow

25423 Mix **N**

Floral Showers Series

Popular dwarf series. Loaded with color. Height: 6-10 in. Spread: 6-8 in. All colors in price booklet.

15335 Mix **O**

15328 Mix Bicolor **P**

Liberty Classic Series ✂

Free branching, ideal for both bedding and as an intermediate length cut flower. Greenhouse grown and spaced closer, offers a very respectable cut flower item. First flowers 10 weeks from seeding. Height: 18-22 in. Spread: 12-14 in. All colors in price booklet.

15370 Mix **Q**

BEDDING PLANTS

SNAPDRAGON



Snapdragon *continued*

Madame Butterfly ✂
Double azalea type blooms. Height: 2 ft.

25227 Bronze
25228 Bronze White
25229 Cherry Bronze
25286 Ivory
25230 Pink
25231 Red
25232 Rose
25233 Yellow
15376 Mix

Rocket Series ✂
Rockets make an ideal outdoor cut flower.
Height: 2 1/2-3 ft.

15406 Bronze
15407 Cherry
15408 Golden
15409 Lemon
15411 Orchid
15412 Pink. Light pink.
15413 Red. Red stem.
15415 Rose Shades
15416 White **A**
15410 Mix

Snaplastic Series

Large flowers, sturdy plant with less breakage. Height: 14-16 in. Spread: 12-14 in.

25012 Magenta
25016 Orange Flame
25018 Pink
25020 Red **B**
25022 Yellow **C**
25014 Mix **D**

NEW Snaptini Series

Controlled and consistent across all seasons. Programmable, reduced photo-period sensitivity. High density production in packs and small pots, for bench run finish. Strong central leader, with sturdy branching makes easy to ship. Height: 6-8 in. Spread: 6-8 in.

26175 Burgundy Bicolor **E**
26176 Peach **F**
26177 Red **G**
26178 Rose Bicolor **H**
26179 Scarlet **I**
26180 Sunglow **J**
26181 Violet **K**
26182 White **L**
26183 Yellow **M**
26184 Mix **N**

Sonnet Series

Sturdy, wind proof semi-dwarf plants.
Height: 16-18 in. All colors in price booklet.
15430 Mix

Twinnny Series

First dwarf double flowered snapdragon.
Best in large color bowls for spring and fall sales. Height 10-12 in.

23378 Appleblossom
23379 Bronze Shades
20753 Peach. **AAS Winner. O**
23381 Rose
23382 Violet
23383 White
23384 Yellow Shades
23380 Mix Full

Spreading

Candy Showers

First ever trailing snapdragon from seed. Ideal for hanging baskets and mixed containers and as a colorful groundcover. Blooms easily under short days. Strong, flexible stems ship well and hold up in the garden. Height: 6 in. Multi-seed pellet.

23353 Deep Purple **P**
23354 Orange **U**

26663 **NEW** Pink **R**
23355 Red
23356 Rose **S**
23668 White
23357 Yellow
23669 Mix

Stock

Matthiola incana

Also see Cut Flowers
65°-70°F. 10-14 days. Do not cover seed.
Crop Time: Packs, 13-15 weeks

Hot Cakes Series

Selectable for fully double plugs. Well branched dwarf plants. Best in packs and 6-8 in. pots. Flowers in 6-8 weeks. Height: 15-20 in. Spread: 6-8 in.

18858 Hot Rose **T**
18860 Pink
18861 Purple **U**
18862 White
18859 Mix



Midget

Dwarf, extra early and very free branching, offers an ideal source of both pot and bedding material. Height: 8-10 in. Spread: 8-10 in. All colors in price booklet.

15801 Midget Mix **A**

Mime Series

Early, abundant, fragrant flowers, on strong stems, with true-green foliage. Nice upright form, with 55% double flowers, non-selectable. Crop Time: 10-12 weeks. Height: 15-18 in. Spread: 6 in.

26958 **NEW** Blue **B**
25435 Light Pink **C**
25440 Pink **D**
25436 Purple **E**
25437 Red **F**
25439 Rose **G**
26309 **NEW** White **H**
25438 Mix **I**

Vintage Series

Excellent basal branching and compact habit. Height: 15-20 in. Spread: 12-14 in. All colors in price booklet.

15875 Vintage Mix **J**

Sunflower

Also see Cut Flowers and Pot Plants

Helianthus interspecific hybrida

Special culture is required and is provided with shipment.

Sunfinity Series

Next generation of sunflowers, offering nonstop blooming, multiple branching, and more flowers all season long. It is not a pot crop, nor your typical professional cut sunflower. It is ideal for 2.5 quart and larger containers, for landscape use or larger patio pots. Height: 4 ft. Spread: 2-3 ft.

25341 Yellow Dark Center **K**

Talinum

T. paniculatum

68-74°F, 3-4 days. Cover seed.

Crop Time: Pack, 4-6 in. pots, 9-10 weeks

Limon

Bright chartreuse foliage. Produces tiny rose pink flowers. A tough plant that handles stress well. Quick and easy to

grow. Spreads up to 4 ft. Height: 28-32 in. Spread: 16-18 in.

18863 Limon **L**

Verde

Darker green companion to Limon. Height, color and texture are great for mixed containers. Flowers open hot pink and then form orange berries that ripen to dark red. Height: 32 in. Spread: 24 in.

19834 Verde **M**

Thunbergia

T. alata

70°-75°F, 12 days. Cover seed.

Crop Time: Packs, 10-12 weeks

Eyes Series

Plants are covered in masses of uniquely colored flowers with dark eyes. Easy to grow and heat tolerant. Ideal for small trellises. Height: 5 ft. Spread: 2 ft.

23628 Amber Eyes. Creamy yellow with eye. **N**

24681 Blushing Susie. Red shades with eye. **O**

16059 Spanish Eyes. Unusual warm color mix with eye. **P**

Susie Series

Ideal in hanging baskets or as a climbing plant. Length: 6-8 ft.

16064 Orange w/Eye **Q**

16065 White w/Eye

16066 Yellow w/Eye

16063 Mix **R**

Tithonia

T. rotundifolia

64°-72°F, 5-8 days. Do not cover seed.

Crop Time: 12-15 weeks

Fiesta Del Sol

Sun loving, heat tolerant, dwarf plant for containers and borders. Height: 30 in. Spread: 30 in.

16068 Fiesta Del Sol. **AAS Winner. S**

BEDDING PLANTS

TORENIA



Torenia

T. fournieri

70°-75°F. 8-16 days. Do not cover seed.

Crop Time: Packs, 12-13 weeks

Duchess Series

Compact, uniform and early blooming. Ideal in shady areas. Height: 6-8 in. Spread: 6-8 in. Pelleted seed.

- 16122 Blue & White
- 16123 Burgundy
- 16124 Deep Blue
- 16127 Pink
- 16126 Mix

Kauai Series

More manageable compact and well branched habit. Vivid and well defined colors, especially the deepest blue, richest rose, and two unique colors: Magenta and Lemon Drop. Height: 8 in. Spread: 8 in. Pelleted seed.

- 22665 Blue and White **A**
- 21976 Burgundy **B**
- 21977 Deep Blue
- 21978 Lemon Drop **C**

- 21979 Magenta **D**
- 21981 Rose **E**
- 21982 White **F**
- 21980 Mix

Little Kiss Series

First seed torenia bred for full sun and garden performance. Also earlier and more uniform series in both pot and pack. Crop Time: Pack 7-8 weeks, 4 in. pot 8-9 weeks. In 5-6 in. pot use 3 plants. Pelleted seed.

- 20794 Blue and White **G**
- 20795 Blue
- 20796 Burgundy
- 20798 Rose Picotee **H**
- 20799 White
- 20797 Mix

Verbena

65°N-75°D F. 12-18 days. Cover seed.

Crop Time: Packs, 12-14 weeks

V. hybrida

Obsession Series

Outstanding pack and field performance with more continuous flowering. Height:

6-8 in. All colors in price booklet.

- 25606 Twister Purple **I**
- 25607 Twister Red **J**
- 16184 Mix **K**

Obsession Cascade Series

First trailing verbena from seed. Ideal in baskets and combinations. Also does well in ground. Height: 8-10 in. Spread: 18-24 in.

- 26826 **NEW** Burg Twist **L**
- 26195 **NEW** Burgundy Eye **M**
- 25598 Pink Shades
- 25600 Purple Eye Shades **N**
- 25597 Red Eye
- 25599 Scarlet **O**
- 25596 Twister Violet **P**
- 26197 **NEW** White **Q**

Quartz XP Series

XP stands for Xtra Performance, Precision, and Profit for growers. All colors bloom within a 6-7 day widow, and are 7-10 days earlier than the originals. Height: 8-10 in. Spread: 12-14 in. All colors in price booklet.

- 16201 Mix **R**

Serenity Series

First pink flowered seed verbena. Uniform, mounding habit. Height: 12 in. Spread: 19-20 in.

- 18116 Mix

Tuscany Series

Naturally compact and well branched. More tolerant of moist media after transplant and requires less PRGs. Total Crop Time: 12-14 weeks. Height: 8-10 in. Spread: 16-20 in.

- 19837 Blue
- 19235 Burgundy w/Eye
- 18865 Lavender Picotee
- 19236 Orchid Frost
- 18867 Peach
- 18868 Pink Picotee
- 18869 Rose w/Eye
- 19239 Scarlet
- 25024 Scarlet Eye **S**
- 18871 White
- 19238 Mix Pastel
- 18866 Mix **T**

VINCA



V. rigida

NEW Dazzling Nights
Attracts butterflies and other pollinators. Bears round clusters of purple flowers at the tips of well branched stems. Perfect tall component to mixed containers. Height: 14-18 in. Spread: 12-18 in.
26910 Dazzling Nights A

V. speciosa

Imagination
Plants spread to completely cover an area with waves of intense blue-violet. Also good in hanging baskets and containers. Height: 12 in. Spread: 24 in.
16166 Imagination. AAS Winner. B

Vinca

(Periwinkle)

Catharanthus roseus
70°-75°F. 14-21 days. Cover seed lightly.
Crop Time: Packs, 14-15 weeks

Trailing

Avalanche Solar Series

Large, overlapping petals. Compact, well branched growth. Ideal for any sized container. Height: 8-10 in. Spread: 12-14 in.

- 25189 Apricot C**
- 26892 NEW Blueberry D**
- 25190 Burgundy E**
- 25192 Pink F**
- 25193 Red G**
- 25194 Rose H**
- 25195 Violet I**
- 25196 White J**
- 25191 Mix Full**

Cascade Cora Series

Same resistance to aerial Phytophthora as Cora Series in a spreading trailing habit. Total Crop Time: 10-14 weeks. Great in containers as well as landscape. Height: 6-8 in. Spread: 32-36 in.

- 23233 Apricot**
- 19782 Cherry K**
- 26199 NEW Lavender Eye L**
- 19839 Lilac M**
- 19709 Polka Dot**

- 26200 NEW Shell Pink N**
- 22409 Strawberry**
- 25610 Violet O**
- 26201 NEW White P**
- 19840 Mix**

Mediterranean Series XP

XP stands for Xtra Performance, better spreading habit, larger flowers, and less water needs. All colors bloom within a 5-7 day window, better spreading habit, larger flowers and less water needs. Height: 4-6 in. Spread: 20-30 in. All colors in price booklet.

- 16278 Mediterranean Mix XP U**

Upright

NEW Blockbuster Series

Huge 2-2.5 in. flowers, which hold intensity in extreme conditions. Compact, well branched, rounded habit. Plug crop time: 4-5 weeks. Transplant to finish: 8-10 weeks. Height: 10-12 in. Spread: 12-16 in. Primed seed.

- 26134 Apricot G**
- 26135 Burgundy S**

- 26136 Crimson**
- 26137 Dark Red**
- 26138 Icey Watermelon**
- 26139 Peppermint**
- 26140 Punch**
- 26141 Purple**
- 26142 Red with Eye**
- 26143 White**
- 26144 Mix**

Cobra Series

Large flowered, well branched, compact mounding series bred for pack use. Exceptional disease tolerance and ability to perform under stressful conditions such as low light/low temperature or high temperature/high humidity. Plug 4-5 weeks, Finish 4-5 weeks. Height: 12 in. Spread: 12-14 in.

- 18880 Apricot**
- 20812 Orange**
- 18873 Orchid Eye**
- 18874 Passion Fruit.** Pink to salmon red.
- 18875 Peppermint**
- 18876 Purple Eye**
- 18877 Red**
- 18878 Red Eye**
- 23831 Rose Eye T**
- 18881 White**
- 18872 Mix U**

BEDDING PLANTS

VINCA



Vinca continued

NEW Cora XDR Series

Tough and beautiful. Highly resistant to 10 of the most virulent isolates of *Phytophthora nicotianae*. Improved branching, uniformity, with large flowers in widest range of colors. Height: 14-16 in. Spread: 18-20 in.

- 26797 Cranberry **A**
- 26798 Deep Strawberry **B**
- 26799 Hotgenta **C**
- 26800 Light Pink **D**
- 26801 Magenta Halo **E**
- 26803 Orchid **F**
- 26804 Pink Halo **G**
- 26805 Polka Dot **H**
- 26806 Punch **I**
- 26807 White **J**
- 26802 Mix **K**
- 22418 Classic Red

Jams 'N Jellies Series

Unique color makes high impact and offers great combination opportunities. Crop Time: 5 weeks. Height 14-16 in. Spread: 10-12 in.

22667 Blackberry. **AAS Winner.**

23990 Blueberry **L**

22668 Mix American Pie. Contains Blackberry plus red with eye and pure white.

Mega Bloom Series

Largest flowered seed vinca. Exceptional heat, rain and disease tolerance. Bred in the tropics of South East Asia. Crop Time: 20-25 days from sowing to transplant, 40 days from transplant to first flowers. Flower Size: 3-3 1/4 in. Height: 8-10 in. Spread: 10-12 in.

- 24735 Apricot
- 24736 Burgundy Eye
- 26387 **NEW** Dark Red **M**
- 24737 Grape
- 24738 Icy Pink
- 25239 Lavender **N**
- 25240 Orchid Halo
- 24739 Peach Pink
- 24740 Pink
- 25241 Pink Halo
- 25242 Polka Dot
- 24741 Purple
- 24742 Raspberry
- 24743 Red
- 25243 Strawberry

25244 White

24744 Mix

Pacifica XP Series

XP stands for **X**tra Performance, **P**recision, and **P**rofit for growers. All colors bloom within a 5-7 day window. Height: 10-14 in. Spread: 6-8 in.

- 16286 Apricot
- 16287 Blush
- 16288 Burgundy
- 16289 Burgundy Halo
- 16290 Cherry Red Halo
- 19781 Cranberry
- 16293 Dark Red
- 16294 Deep Orchid
- 16295 Icy Pink
- 16296 Lilac
- 16298 Magenta Halo
- 20822 Orange
- 16303 Polka Dot
- 16304 Punch
- 19252 Raspberry
- 16307 Really Red
- 16309 Rose Halo
- 16306 White
- 20819 Mix Bold
- 18891 Mix Halo

16297 Mix Lipstick

19250 Mix Merlot

20820 Mix Mystic

16299 Mix

Solar Series

Large 2 in. flowers with overlapping petals. Up to two weeks earlier than other varieties. Disease resistant and tolerant of extremely hot and humid conditions. Also will tolerate cooler weather, extending the growing season. Height: 10-12 in. Spread: 8-10 in.

- 24048 Appleblossom
- 24049 Apricot
- 24050 Blueberry
- 24051 Blush Pink
- 25197 Burgundy **O**
- 24053 Fresh Red **P**
- 24054 Lilac
- 24056 Orange with Eye **U**
- 24057 Orchid with Eye
- 24058 Pink
- 24059 Polka Dot **R**
- 24060 Raspberry with Eye **S**
- 24061 Red
- 24063 White
- 24055 Mix Full

CORA® XDR*F1 CATHARANTHUS ROSEUS*

The Vinca that Fights Back.

Offers season-long flowering and survival in landscape plantings. Highly resistant to ten of the most virulent isolates of *Phytophthora nicotianae* that cause Phytophthora blight on annual vinca.¹

Easier to grow: improved branching, uniformity, and free-flowering ideal for premium packs and small to larger pots.

Higher consumer appeal: large showy flowers in the widest range of solid and high demand bicolor patterns of any disease resistant vinca on the market.

For more information and availability:
855-630-3139 • www.syngentaflowers-us.com/xdr
Contact your Gloeckner representative today.

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¹Confirmed in collaboration with Clemson University; These isolates were found at growers and in landscapes across the southern U.S.



syngenta flowers®

BEDDING PLANTS

VINCA



Vinca continued

NEW Tattoo Series

The most unique Vinca on the market. Outstanding in hot and sunny conditions, displaying the best color contrast. Less contrast and more purple is expressed in cooler and lower light. Plug crop time: 5 weeks. Transplant to finish: 5-6 weeks. Height: 10-14 in. Spread: 6-8 in.

26078 **Black Cherry** **A**

26079 **Papaya** **B**

26080 **Raspberry** **C**

26081 **Tangerine** **D**

Valiant Series

Intermediate resistance to aerial Phytophthora. Well-branched, vigorous, and salt tolerant with large flowers. Crop Time: 8-10 weeks. Height: 14-20 in. Spread 10-12 in.

24479 **Apricot**

24480 **Burgundy**

24481 **Lilac**

24483 **Orchid**

24484 **Punch**

24485 **White Pure**

24482 **Mix**

NEW Vitalia Series

Uniform, strong, bushy habit. Crop time: 8-10 weeks. Height: 10-12 in. Spread: 6-8 in. All colors in price booklet.

24646 **Mix**

26310 **Mix Sweetheart** **E**

Viola

V. cornuta

65°F. 2-3 weeks. Cover seed.

Admire Series

Better branching for more flowers. Early and consistent. Uniform timing with excellent heat and drought tolerance. Height: 8 in. Spread: 6-7 in. All colors in price booklet.

24252 **Blue**

23731 **Deep Blue**

26718 **NEW Deep Marina** **F**

26369 **NEW Deep Purple Face** **G**

23732 **Denim**

26720 **NEW Jolly Face** **H**

26370 **NEW Lavender Pink Face** **I**

26371 **NEW Lemon Purple Wing** **J**

23733 **Marina**

26372 **NEW Neon Purple Wing** **K**

23734 **Orange Purple Wing**

23735 **Pink**

23736 **Pink Surprise**

25686 **Purple White Face**

23737 **Red Blotch**

23738 **Ruby Gold**

24256 **White**

25687 **White Purple Wing**

23739 **Yellow**

23740 **Yellow Blotch**

24258 **Yellow Purple Wing**

23743 **Mix Maxi**

Colormax Series

Giant-flowered. Fills pots easily even under heat stress where standard violas suffer. Superb autumn performer and a great choice to start the season. Height: 4-6 in. Spread: 8-10 in. Primed seed. All colors in price booklet.

23704 **Mix**

NEW Deltini Series

Nearly day-neutral. Ideal for winter flowering in the South and West. Early spring in the North. Efficient to produce with reliably fast crop times and a 4-day bloom window between colors, even under

short day conditions. Mounded plant habit. Height: 3-5 in. Spread: 4-6 in.

26202 **Blue** **L**

26203 **Blue Purple Wing** **M**

26204 **Burgundy** **N**

26205 **Copperfield**

26206 **Honey Bee** **O**

26207 **Purple Gold Center**

26208 **Rose Pink**

26209 **Violet**

26210 **Violet Blue** **P**

26211 **Violet Face**

26212 **White** **Q**

26213 **Yellow**

26214 **Yellow and Purple** **R**

26828 **Yellow Jump Up**

26215 **Mix** **S**

Endurio Series

Named in honor of plant breeder Martien DeGooter. Less day length sensitive, great in both spring and fall. Crop Time: 11-13 weeks. Height 4-6 in. All colors in price booklet.

20851 **Endurio Sky Blue Martien**. **AAS Winner.**



NEW Frizzle Sizzle Mini Series
Unique frilly flower form in violas. Great for containers and close up landscapes. Early spring or autumn production is best. Cool conditions provides stronger ruffling. Height: 6-8 in. Spread: 6-8 in.

26578 **Purple** **A**
26580 **Tapestry** **B**
26582 **Yellow** **C**
26576 **Mix** **D**

Helen Mount
The original Johnny Jump Up.
16346 **Helen Mount**

King Henry (Blue Elf)
Rich violet blue with small yellow eye.
16353 **King Henry**

Penny Series
Uniform across the series for flowering time and plant habit. Height: 4-6 in. Spread: 4-6 in.

22052 **Azure Dawn** **E**
16356 **Azure Wing**
16357 **Beaconsfield**
25617 **Black** **F**
16358 **Blue**

19841 **Clear Yellow**
19264 **Denim Jump Up**
16367 **Marina**
19842 **Marlies** **G**
19265 **Mickey**
16369 **Orange**
16368 **Orange Jump Up**
18896 **Peach Jump Up**
19266 **Primrose Bicolor**
20863 **Primrose Picotee** **H**
23237 **Purple Marina**
18897 **Purple Picotee**
16372 **Red Blotch**
19267 **Red Wing**
19268 **Rose Blotch**
16375 **Violet**
26230 **NEW Violet Face** **I**
16376 **Violet Flare**
16378 **White**
19269 **White Blotch**
16377 **White Jump Up**
16381 **Yellow**
16379 **Yellow Blotch**
16354 **Mix All Season**
16359 **Mix Citrus**
16364 **Mix Jump Up**
16365 **Mix Penny Lane**
20862 **Mix Winter**

Sorbet XP Series
Sorbet XP genetics means: Xtra Precision, and Xtra Profit for growers. The most uniform plant habit and tightest bloom window. Height: 6-8 in. Spread: 6-8 in.

16397 **Beaconsfield**
22669 **Blackberry**
20867 **Blue Blotch**
25400 **Deep Orange**
22116 **Delft Blue**
23304 **Denim Jump Up**
24490 **Lavender Pink** **J**
24004 **Lemon Ice Blotch**
20869 **Lemon Jump Up**
22671 **Marina**
24015 **Morpho** **K**
26574 **NEW Neptune** **L**
16418 **Orange Jump Up** **M**
22673 **Pink Halo**
26082 **NEW Pink Wing** **N**
24022 **Primrose Blotch**
20880 **Purple**
20878 **Purple Face**
22119 **Raspberry**
25404 **Red Blotch**
25405 **True Blue** **O**
20882 **White**
23571 **White Blotch**
16407 **White Jump Up**

20886 **Yellow**
20884 **Yellow Blotch**
26083 **NEW Yellow Burgundy Jump Up** **P**
20885 **Yellow Jump Up**
25280 **Yellow Pink Jump Up**
16434 **YTT**
25200 **Mix Autumn Select** **Q**
20871 **Mix Blackberry Sundae** **R**
25202 **Mix Blotch**
25401 **Mix Blueberry Sundae**
16405 **Mix Citrus**
20873 **Mix Harvest**
16409 **Mix Jump Up** **S**
20874 **Mix Lemon Parfait**
25402 **Mix Ocean Breeze**
25403 **Mix Raspberry Sundae** **T**
25204 **Mix Spring Select**
16415 **Mix**

Tiger Eye Series
Replaces and expands Angel Tiger Eye with much improved performance; seed quality, habit, and earliness. Height: 5-7 in. Spread: 4-6 in. Primed seed.

24859 **Red**
24858 **Yellow**
25061 **Mix** **U**

BEDDING PLANTS

ZINNIA



Zinnia

70°-80°F. 5-10 days. Cover seed lightly.
Crop Time: Packs, 8-10 weeks

Z. elegans

Dreamland Series

Dahlia flowered blooms 4 in. across on extremely uniform and compact plants. Height: 8-12 in. Spread: 14-18 in. Slick coat seed.

16467 Coral
16468 Ivory
16470 Pink
16471 Red
16472 Rose
16473 Scarlet
16474 Yellow
16469 Mix

Holi Series

Exceptional heat and disease tolerance, with fully double blooms. Plug crop time: 3-4 weeks. Transplant to finish: 6-7 weeks. Height: 6-8 in. Spread: 8-10 in.

26737 Orange **A**
26736 Pink **B**
26738 Scarlet. **AAS Winner. C**
26734 White **D**
26735 Yellow **E**
26733 Mix **F**

Magellan Series

Large and fully double blooms. Uniform for flowering and habit. Height: 12-14 in. Spread: 10-12 in.

16481 Cherry
16483 Coral. **AAS Winner.**
16485 Ivory
16489 Orange
16491 Pink
16493 Salmon
16495 Scarlet
16497 Yellow
16487 Mix

Preciosa Series

Large 4 in. Dahlia flowered blooms. More; compact, branched, and double flowered, than Dreamland. Same

disease resistance, and true red. Plug crop time: 4 weeks. Transplant to finish: 4-5 weeks. Height: 10-12 in. Slick coat seed.

26681 Light Yellow **G**
26683 Pink **H**
26684 Red **I**
26685 Rose **J**
26686 Scarlet **K**
26687 White **L**
26688 Yellow **M**
26682 Mix **N**
26689 Mix Tropical Blend

Swizzle Series

Stunning bicolor will stimulate impulse sales. Height: 10-12 in.

16553 Cherry & Ivory **O**
16554 Scarlet & Yellow **P**

Thumbelina

Bushy, compact and extra dwarf habit. Height: 8 in.

16555 Thumbelina Mix

Zinnita Series

Brightly colored 1 ½-2 in. flowers cover nice globe shaped plants. Zinnita is a much improved Thumbelina type. Height: 6-8 in. Spread: 10 in. Treated seed.

16558 Orange
16559 Rose
16560 Scarlet
16561 White
16562 Yellow
16557 Mix

Z. angustifolia

Crystal Series

Single, daisy-like blooms on compact plants; they can flower in packs in about 55-60 days after sowing. Highly tolerant to powdery mildew. Height: 8-10 in. Spread: 10-12 in.

16464 Orange
16465 White
16466 Yellow
20887 Mix **Q**



Star Series

Highly resistant to both alternaria and powdery mildew and is tolerant to heat, humidity and drought. Height: 14 in. Spread: 8 in.

- 16544 Gold
- 16545 Orange
- 16546 White
- 16547 Starbright Mix **A**

Z. haageana

- NEW** Jazzy Series
Bright, bicolor flower mixture.
Height: 18 in.
- 26442 Mix **B**

Z. interspecific

Double Profusion Series

Unique double flowers, with all of the tolerance to powdery mildew as the single flowered Profusion Series. Height: 12 in.

- 23582 Deep Salmon. **AAS Winner. C**
- 19720 Fire
- 19723 Golden

- 23583 Hot Cherry. **AAS Winner. D**

- 19779 White
- 23584 Yellow **E**
- 19742 Mix
- 23715 Mix Sunrise

Profusion Series

High disease tolerance. Performs well under both warm and cool conditions with high humidity. Height: 12 in. Spread: 12-15 in.

- 16519 Apricot
- 16520 Cherry. **AAS Winner. F**
- 26665 **NEW** Cherry Bicolor **G**
- 16521 Coral Pink
- 16522 Deep Apricot
- 16524 Fire. Scarlet orange.
- 26668 **NEW** Lemon **H**
- 16526 Orange. **AAS Winner.**
- 25346 Red. **AAS Winner. I**
- 16527 White. **AAS Winner.**
- 20896 Yellow
- 16518 Mix 3 Color
- 25347 Mix 4 Color. **AAS varieties.**
- 16525 Mix 5 Color
- 26667 **NEW** Mix **J**

Z. marylandica

Double Zahara Series

The first truly double flowered disease resistant zinnia. Height: 16-20 in. Spread: 16-20 in.

- 26088 **NEW** Bright Orange **K**
- 19897 Cherry. **AAS Winner.**
- 19896 Fire. **AAS Winner.**
- 25413 Raspberry Ripple **L**
- 26090 **NEW** Salmon **M**
- 22675 Strawberry
- 26092 **NEW** White **N**
- 24499 Yellow **O**
- 25412 Mix **P**
- 25206 Mix Brilliant

Zahara Series

Flowers are 20% larger than Profusion series with same disease tolerance. Height: 12-18 in. Spread: 12-18 in.

- 23308 Cherry
- 19843 Fire
- 24038 Raspberry **U**
- 24509 Red **R**

- 19758 Starlight Rose. **AAS Winner. S**

- 23310 Sunburst
- 19285 White
- 19286 Yellow. Bright, unique.
- 20901 Mix Bonfire
- 20902 Mix Raspberry Lemonade
- 19283 Mix

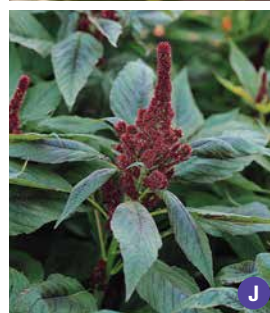
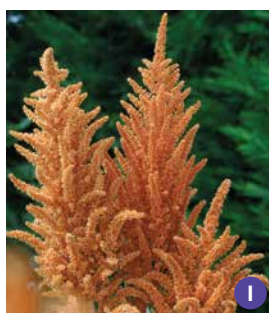
Zahara XL Series

Tremendous resistance to common diseases. Taller plants with larger blooms that can be used for height as well as to quickly fill in the landscape. Flowers faster under short days. Crop Time: 11-12 weeks in spring and 8-9 weeks in summer. Height: 18-24 in. Spread: 18-24 in.

- 24501 Fire
- 24503 Pink
- 24505 White
- 24507 Yellow

CUT FLOWERS

ABELMOSCHUS



Abelmoschus

A. esculentus

70°F. 4-9 days. Cover seed lightly.

Cramers Okrazilla

Big fat okra pods look great when they "split" open as they dry. Not as long as regular okra pods, but 3 or 4 times as thick. Sold with 3 or 4 pods per stem after removing the few leaves and immature pods. Height: 36 in.

11001 Cramers Okrazilla **A**

Red Burgundy

Striking plants with burgundy red okra pods. Height: 3-4 ft.

18954 Red Burgundy **B**

Ageratum

A. houstonianum

78°-85°F. 7-10 days. Do not cover seed.

Blue Horizon

Tall, sturdy stems and numerous branches. Can be cut continuously. Height: 30 in. Spread: 10-12 in.

11026 Blue Horizon **C**

Tall Blue Planet

Compares well to Horizon. Height: 30 in.

18938 Tall Blue Planet **D**

Agrostemma

A. githago

65°-70°F. 4-8 days. Cover or uncover seed.

Ocean Pearl

Large, pure white flowers with small speckled black markings on tall slender plants. Height: 24-36 in.

11057 Ocean Pearl **E**

Purple Queen

Lavender flowers with white speckles. Long-lasting tall cut flower. Branching habit. Height: 36 in.

11058 Purple Queen **F**

Amaranthus

73°-75°F. 8-10 days. Do not cover seed.

A. cruentus

Copperhead

Copper flower head and stem with yellow leaves. Height: 4 ft.

11098 Copperhead **G**

Early Splendor (Bi-color)

Pendent type, a brilliant scarlet on bronze foliage. Height: 2 ½-3 ft.

11099 Early Splendor

Green Thumb

Sturdy 12 in. upright plumes of rich emerald green.

11100 Green Thumb **H**

Hot Biscuits

Warm, coppery-orange spikes add interest to autumn bouquets. Height: 3 ft.

11101 Hot Biscuits **I**

Red Cathedral

Dense scarlet spikes on sturdy, upright stems. Height: 3 ½ ft.

11103 Red Cathedral **J**

Tower Series **K**

High germination and percentage of usable stems. Height: 28-40 in.

11106 Green

11107 Red

Velvet Curtains

Intense, eye catching crimson foliage. Height: 5 ft.

18969 Velvet Curtains **L**



A. caudatus

Mira

Unique red and green bicolor racemes. Height: 40 in.

19784 Mira **A**

Tails Series **B**

Annual, with long decorative tassels. Height: 3 ft.

11104 Green. Viridus.

11105 Red. Love-Lies-Bleeding.

Ammi

68°N-70°F. 7-14 days. Cover or uncover seed.

Crop Time: Direct sow, 2 1/2-3 months

A. majus

Queen of Africa

Reselected line, bred for greenhouse and field production. Height: 4-5 ft. Spread: 8-12 in.

11110 Queen of Africa **C**

Snowflake (Queen Anne's Lace)

Blooms over a shorter period, is more uniform and consistent.

11111 Snowflake **D**

A. visnaga

Casablanca (Angel)

Pure white flowers. Great improvements in uniformity of seedlings, germination, and most importantly, a shortened harvest period – 2 weeks instead of 6 to 8. Height: 3 ft.

11113 Casablanca **E**

Green Mist

Strong flower stems and compact terminal greenish-white umbels up to 4 in. in diameter. The florets are larger than Ammi majus. Flowers slightly later. Height: 3 ft. Spread: 4 ft.

11114 Green Mist **F**

Daucus carota

Dara

Referred to as the purple Queen Anne's Lace, it is actually a wild carrot which bolts very early making it an attractive cut flower with long sturdy stems. Originally from the Mediterranean, a perennial, grown as an annual. The flower consists of many small red or rose, umbel shaped flowers. Height: 4 ft.

22693 Dara **G**

Purple Kisses

Darker purple color than Dara. Similar in most other respects. Height: 4 ft.

25275 Purple Kisses **H**

Ammobium

Alatum Grandiflorum

Ideal for both drying and as attractive bouquet filler. Plants produce masses of small white everlasting type blossoms. Height: 2 1/2 ft.

11115 Alatum Grandiflorum **I**

Anemone

59°F. 14-21 days. Cover seed.

Crop Time: Transplant, 12-16 weeks

Mona Lisa Series

4 to 5 in. flowers. Greenhouse cut flower production. Height: 18 in. All colors in price booklet.

11129 Bicolor Red **J**

11134 Orchid Shades **K**

11135 Pink **L**

11136 Scarlet W/Eye **M**

11137 White **N**

24423 Wine White **O**

11133 Mix **P**

Anethum

A. graveolens

65°-70°F. 5-8 days. Do not cover seed.

Vierling (Golden Dill)

Best described as a golden yellow Ammi majus. Height: 3 ft.

11140 Vierling **Q**

CUT FLOWERS

ASTER



Aster

Callistephus Chinensis

70°F. 8-10 days. Cover seed lightly.

Satimex Cut Flower Asters

Bred for a new type of cut aster with unique flower forms and surprising new color shades. Blossoms are of medium to large size, densely packed with variously shaped petals. Pyramidal growth, with long strong stems on sound plants. Most have a high tolerance to fusarium. Outstanding for cutting, with high durability during transport and in the vase. All colors in price booklet.

Balloon Series

Highly domed 4 3/4-6 in. tightly packed blossoms. Long vase life, easily 2 weeks. Height: 20-24 in.

24657 Balloon Mix A

Dragon Series

Decorative flower shape – claw-like 4-5 in. flowers. Good durability, upright, pyramidal growth with branching stems. Height: 26-30 in.

24655 Dragon Mix B

Juwel Series

Pincushion type 4-5 1/2 in. blossoms. Strong colors with 7-9 extremely strong, mostly deep red stems. Height: 24-30 in.

24149 Juwel Mix C

Lady Coral Series

New flower type resembling a cross of chrysanthemums and roses. Slightly curved 4-4 3/4 in. flowers with narrow petals. Excellent durability. Height: 24-28 in.

24135 Lady Coral Mix D

Rose of Shanghi Series

Giant princess type with 4 3/4-5 1/2 in.

blossoms. Some varieties with unexpected bicoloration. Height: 22-26 in.

24658 Rose of Shanghi Mix E

Sea Starlet Series

Large, 3 1/4-4 3/4 in. diameter, spider-like, 'claw' flower petals atop long, strong, rigid, stems. Height: 24-30 in.

25089 Mix F

Syringa Series

Similar to a chrysanthemum, but more beautiful! XXL flowers of 4 3/4-6 in. Surpasses other series in durability. Height: 24-28 in.

24147 Syringa Mix G

Tower Series

Peony-flowered plants that produce 8-10 long, strong stems. Flower colors are highly uniform. 4-5 in flowers. Height: 26-30 in.

24148 Tower Mix H

Valkyrie Series

Giant ray type flowers of 4 3/4-5 1/2 in. Pyramidal growth and uniformity of single colors. Branching very close to soil for long stem cutting. 8-12 stems per plant. Height: 24-28 in.

24656 Valkyrie Mix I

NEW Fujimi Series

Small leaves, less basal branching, with fusarium resistance, makes ideal for high density planting. Fully double 2 in. flowers on spray-type plant. Plug crop time: 4-6 weeks. Transplant to flower: 13-14 weeks. Height: 30-36 in. Coated seed.

26434 Coral Rose J

26435 Purple K

26436 Scarlet L

Callistephus Fujimi

Bred by
Takii



Fujimi is fusarium resistant and is ideal for high density planting. Bred to grow up-right before plants begin to branch, producing sprays of brightly colored flowers.

It's easy to be overwhelmed by the intensity and volume of color on a single spray that the form of each flower is overlooked. Each flower is packed with long petals giving it a lush, three-dimensional shape.



Contact your Gloeckner representative today to place your seed order.

CUT FLOWERS

ASTER



Aster *continued*

Bonita Series

Fully double 2 in. pompon flowers, centers color completely. Has similar resistance to fusarium as Sakata Matsumoto. Fits easily in program next to Matsumoto – same lighting, crop time one week longer. Flowers remain attractive when aging. Height: 30-36 in. Spread: 8-12 in. Coated seed.

- 20966 **Blue** **A**
- 22901 **Light Blue**
- 20967 **Pink**
- 20968 **Rose** **B**
- 20969 **Scarlet** **C**
- 20970 **White** **D**
- 20971 **Mix**

Crown Prince Mix

Formal, almost fully double mum type. Blooms averaging 3-3 1/2 in. Height: 36-42 in.
11254 Crown Prince Mix **E**

Daylight Series

Smaller flowers than usual in this type. Plants will flower in 120-145 days if sown in spring and 145-170 days if sown in fall. Height: 24-30 in.

- 11264 **Blue Frost**
- 11265 **Purple**
- 11266 **Red**
- 11267 **Rose**
- 11268 **Rose Frost**
- 11269 **Violet**
- 11270 **White**
- 18154 **Mix**

Fan Series

Attractive semi double blooms with gold centers. Small 1 1/2-2 in. blooms are produced in profusion. Height: 2 ft.

- 11281 **Deep Blue**
- 11282 **Deep Rose**
- 11283 **Light Blue**
- 11285 **Pink**
- 11286 **Red**
- 11289 **White**
- 11290 **Yellow**
- 11284 **Mix** **F**

Giant Princess Series

Large cushion type blooms. Height: 2 1/2 ft.

- 19971 **Blue**
- 19972 **Bright Red**
- 11312 **Bright Rose**
- 11313 **Crimson**
- 19973 **Deep Red**
- 11311 **Light Blue**

- 11316 **Salmon Rose**
- 19975 **White**
- 19976 **Yellow**
- 11315 **Mix** **G**

Hulk

Totally unique flower having no petals, only long green bracts around yellow center, 1.6 in. diameter. Long, thick stems with great vase life. Height: 22 in.

- 11329 **Hulk**

Kurenai Series

Blooms of 1 1/2-2 in. with contrasting gold centers. Similar flower form to Matsumoto. Height: 24-28 in.

- 17035 **Purple**
- 11335 **Red**
- 11332 **Rose**
- 11336 **White**

Matador Mix

Improved Giant Princess type. Height: 32-36 in. All colors in price booklet.

- 11342 **Matador Mix** **H**

Nina Series

Spray-type with large number of small semi-double flowers on vigorous plants. Has more disease resistance compared to other cut asters. Excellent in mixed bouquets. Height: 27-30 in.

- 21005 **Pink**
- 25701 **Purple** **I**
- 26429 **NEW Red** **J**
- 19906 **Salmon Pink**
- 19907 **White** **K**

Palette Mix

Single 1 1/2 in. blooms with yellow centers. Dark green foliage, sturdy stems. Mix contains 7 colors. Short day plant. Height: 2 ft.

- 19977 **Palette Mix** **L**

Perfection Mix

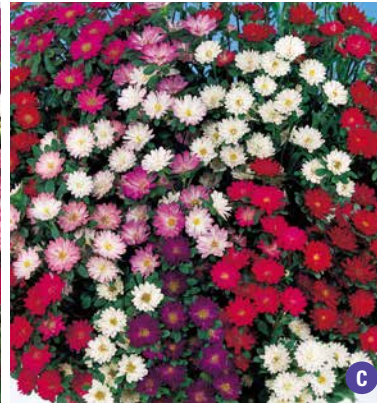
Fully double. Height: 30 in.

- 11369 **Perfection Mix** **M**

Rainbow Series

Improved strain of Marguerite type.

- 11398 **Double Mix**. Double set of petals. **N**
- 11399 **Super Single Mix** (Bright Lights) **O**



Sakata Matsumoto Series

Medium size blooms with yellow eyes.
Height: 2 ½ ft. Coated seed.

- 11348 Apricote **A**
- 11349 Blue
- 11350 Blue Tipped White
- 11347 Light Blue
- 11354 Pink
- 11356 Red
- 11357 Rose
- 11359 Scarlet
- 11360 White
- 11361 Yellow
- 11353 Mix **B**

Serenade Series

Semi double, gold centered blooms 1 ¼ in. across. Smaller version of Matsumoto.
Height: 30 in. Spread: 7-8 in.

- 11401 Blue
- 11402 Blue Tipped White
- 11404 Deep Rose
- 11406 Red
- 11407 Rose
- 11408 Rose Tipped White
- 11409 Scarlet
- 11410 White
- 11411 Yellow
- 11405 Mix **C**

Atriplex

68°-72°F. 7-14 days. Cover seed.

Plume Series

Large, colorful, decorative spires, ideal for fresh cut and dried arrangements.

- 11420 Green **D**
- 11421 Red. Wine red. **E**

Basilicum

70°F. 5-8 days. Cover seed.

Aromato

60 days. Purple-green bicolor basil with aroma and classic mild basil flavor too.
Height: 20-28 in.

- 19925 Aromato **F**

Cardinal

60-70 days. Dark red, scarlet flowers on 20-25 in. strong stems. Oval, dark green leaves with fragrance. No pinching needed.

- 19926 Cardinal **G**

Bells of Ireland

Moluccella laevis

86°F. D, 50°F. N. 4-5 weeks. Do not cover seed.

Crop Time: Green Packs, 10-11 weeks

Bells of Ireland

Branching stems covered with lime green sheaths. Useful as a fresh or dried filler.
Spikes 2 ft. Height: up to 3 ft. Spread: 15-20 in. Plug quality.

- 19887 Bells of Ireland **H**

Bupleurum

B. rotundifolium

60°-65°F. 14-21 days. Cover or uncover seed.

Crop Time: Direct sow, 2 ½-3 months

Griffiti

Attractive Eucalyptus-like leaves topped with umbels of green-yellow blossoms. Uniform, tall, erect stems. Height: 32 in. Spread: 18-24 in.

- 11635 Griffiti **I**

Calendula

C. officinalis

70°F 7-10 days. Cover seed.



Genesis Maayan

Dark orange, 2-2.5 inch, double flowers on stems 18-20 inches long. Good vase life. No pinch. Crop time: 50-55 days. Height: 25 in. Spread: 10 in.

- 26976 Genesis Maayan

Greenheart Series

Large, bright orange double flowers with contrasting green centers. Blooms from April to October. Height: 2 ft.

- 11654 Orange **J**

Princess Series

Specially bred for cut flower production. Flowers are 3 ½-4 in. on strong stems. Leaves face upward making them easy to pack and ship. All have many base branches and new flower stems grow rapidly for successive cuttings. Vigorous and early flowering. Height: 36-42 in.

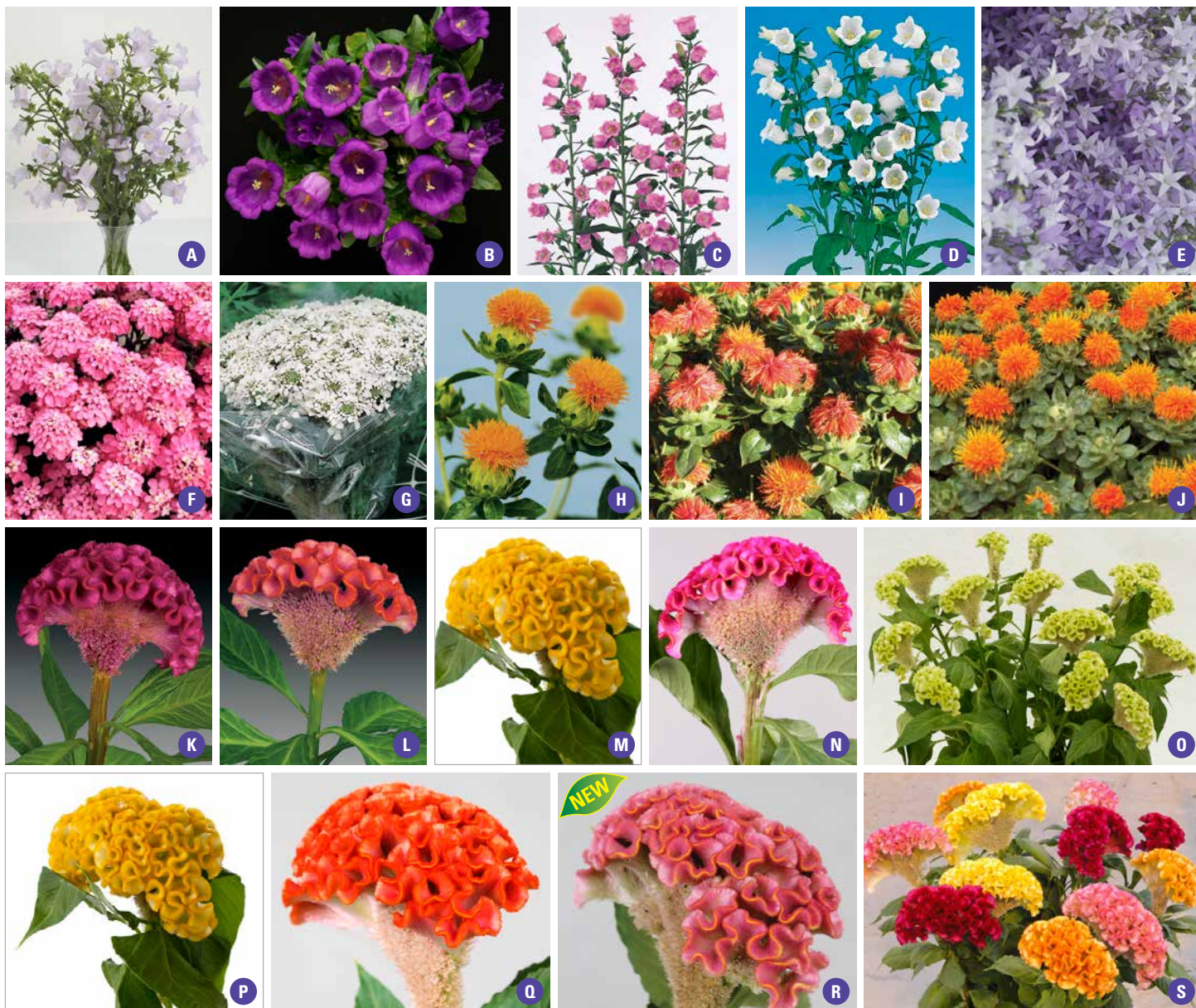
- 11655 Indian Prince. Deep orange with red center.

- 11657 Nagasaki. Golden yellow. **K**

- 11658 Sapporo. Orange. **L**

CUT FLOWERS

CAMPANULA



Campanula

C. medium

68°-72°F. 7-14 days. Cover seed lightly.

Champion Series

Early bloom and long vase life. Pelleted seed.

- 11670 **Blue**
- 11671 **Lavender** **A**
- 11672 **Pink**
- 11673 **White**

Pro Champion Series

Sister to Champion series with smaller flowers held closer to the stem. Height: 27-35 in. Spread: 5-6 in. Pelleted seed.

- 23312 **Deep Blue** **B**
- 23313 **Lavender**
- 23314 **Light Pink**
- 23315 **Pink** **C**
- 23316 **White** **D**

C. rapunculoides

Heavenly Blue

Economical to produce and easy to ship. Provides desirable blue flowers of distinctive shape that will enhance any mixed bouquet. Plants produce approximately 15 stems, with 5 to 6 stems reaching 32 in. Flowers are 3/4 in sky blue and star shaped. Long vase life. Pelleted seed.

- 11682 **Heavenly Blue** **E**

Candytuft

Iberis odorata/aroma

70°F. 7-14 days. Cover or uncover seed.

Rose Cardinal

Extra tall, hot pink.

- 11702 **Rose Cardinal** **F**

White Pinnacle Select

Best strain for winter production. Wonderfully fragrant. Tallest Candytuft. Height: 20 in.

- 11703 **White Pinnacle Select** **G**

Carnation See Bedding Plants

Carthamus (Safflower)

C. tinctorius

70°F. 7-10 days. Do not cover seed.

Crop Time: Direct sow, 14 weeks

Grenade Series

Thistle like flowers on strong stems. Height: 2 1/2-3 ft. Spread: 8-10 in. Coated seed.

- 11733 **Orange** **H**

Red

First red carthamus. Height: 3 ft.

- 18957 **Red** **I**

Zanzibar

Very uniform, strong upright stems. Dark leaves and dark orange flowers. Height: 4 ft.

- 23547 **Zanzibar** **J**

Celosia

Also see Bedding Plants

75°-80°F. 7-10 days. Cover seed lightly.

C. cristata (Cockscomb)

Act Series

The top selling cut cristata celosia in Europe. Leaves are shorter and stronger than other varieties – improving overall appearance. Less sensitive to botrytis. Height: 3-4 ft.

- 24684 **Dara. Velvet.** **K**
- 24685 **Edna. Rose with orange.** **L**
- 24686 **Inca. Yellow.** **M**
- 24689 **Rima. Rose.** **N**
- 25417 **Verde. Green.** **O**
- 24690 **Vida. Lemon.** **P**
- 24691 **Zara. Orange.** **Q**
- 26389 **NEW Ziva. Pink.** **R**
- 24687 **Mix** **S**

**Chief Series**

Tall strong stems with heads up to 7 in. across. Height: 36-40 in.

- 11782 **Carmine**
11783 **Fire**
11784 **Gold**
11786 **Persimmon**
11787 **Red**
11788 **Rose**
11785 **Mix** **A**

Cramers Series

Flowers feature a wide head with a full comb that makes a great fresh cut.

- 11789 **Burgundy**
11790 **Lemon Lime** **B**
11793 **Rose**

Cramers Hi-Z

Unique, not crested. Tall slender deep red spikes. Use as fresh cut, or dried.

- 11792 **Hi-Z** **C**

Genesis Collection

Excellent professional cut flower crested celosia collection from Israel. Tall and uniform.

22905 **Orange Peach**. Unique color. Medium

6-8 in. crested combs. Height: 3 ft. **D**

22906 **Red Flame**. Red foliage and stem. Medi-

um 6-8 in. crested combs. Height: 3 ft. **E**

26973 **Dark Rose**. Strong unique rose color. Medium 6-8 in. crested combs. Height: 3 ft.

26987 **Genesis Mix**. Contains above unique colors and others. Medium 6-8 in. crested combs. Height: 3 ft.

26974 **Scarlet**. Purple rose, narrow fan shape combs. Height: 2-3 ft.

26975 **Tornado**. Large bright red combs. Height: 2 ft.

Kurume Series

Produce numerous colorful cockscombs 6-8 in. Height: 3 ft.

- 11831 **Corona**. Bi-color red/gold. **F**
11832 **Gold**
11830 **New Scarlet**. Bronze leaf.
11834 **Orange Red**
11836 **Rose**
11833 **Mix**

Neo Series

Larger flowers, thicker comb, and smaller leaves than Bombay. Less long day sensitive, can produce over longer period.

Best for greenhouse production. Height: 28-40 in. Filmcoated seed.

- 25355 **Gold**
25356 **Orange** **G**
25357 **Pink** **H**
25358 **Red**
25359 **Rose** **I**

Spring Green

Exciting new color out of the Bombay breeding. Culture/timing slightly different. Height: 40-48 in. Spread: 5 in. Filmcoated seed.

- 18952 **Spring Green**

Supercrest Series

True giant size cockscomb head with a tall, red stem. Ideal for cutting. Can be cut at various stages, from 4 in. head to well over 10 in. Stems 3-4 ft.

- 11854 **NEW Burgundy** **J**
11855 **Mix**

C. plumosa (Feather)**Hiryu No. 2 Red**

Excellent red plumed celosia.

- 11809 **Hiryu No. 2 Red** **K**

Pampas Plume Series

Feathery plumes. Height: 2 ½-3 ft.

- 11799 **Forest Fire**. Scarlet with bronze red foliage.
22260 **Golden**
20989 **Scarlet**
18562 **Mix** **L**

Sunday Series

Excellent stem length and strength, with a wide range of bright colors. Height: 28-40 in. Spread: 5 in. Filmcoated seed.

- 26098 **NEW Bright Pink** **M**
26099 **NEW Cherry** **N**
20958 **Dark Pink**
25095 **Gold** **O**
20955 **Orange** **P**
26100 **NEW Purple** **Q**
20954 **Red**
20959 **Wine Red**
23930 **Yellow** **R**
22520 **Mix**

Sylphide

Great plumed celosia in a popular greenish yellow color. Ask for culture. Height: 30-40 in.

- 11856 **Sylphide** **S**

CUT FLOWERS

CELOSIA



Celosia continued

C. spicata (Wheat Celosia)

Celway Series

Plumosa flower shape with short, program-mable production time, suitable for high density planting. For greenhouse, tunnel or field production. Strong stems, ships well. Height: 40-48 in. Spread: 10 in. Filmcoated seed.

- 20067 Lemon **A**
- 20069 Orange
- 20070 Purple **B**
- 20071 Red **C**
- 20072 Salmon
- 20073 Terracotta
- 20074 White **D**
- 20068 Mix

Cramers Amazon

Interesting wide leaf with a blotch of purple. Flower resembles spicata in shape, reddish/purple. When pinched, expect 7 to 10 stems 36-48 in. long and 5 or 6 stems about 24 in. long. In the South, if not pinched, can grow to 9 ft. producing up to 60 laterals 24 in. long. Use as fresh cut

or dried.

11791 Cramers Amazon **E**

Tassels Series (Flamingo)

Small feather plumes on upright stems. Height: 3 ft.

- 11857 **Pink**. Soft pink to white plumes, green foliage and stems. **F**
- 11858 **Purple**. Deep purple plumes, dark red foliage and stems.

Centaurea

65°-70°F. 5-10 days. Cover seed.

C. cyanus (Bachelor Button)

Excellent for cut flowers.

- 11870 **Blue Boy** **G**
- 11874 **Pinkie**
- 11875 **Red Boy**
- 11876 **White Snowman**

C. americana

Aloha Americana

Large rose-lilac, cactus-like blooms on sturdy stems. An excellent item for both fresh cut and drying. Height: 40 in.

- 11866 **Rose** **I**

Cerithe

C. major purpurescens

70°F. 5-21 days.

NEW Kiwi Blue

Brilliant, blue-tinged bracts and stems, with purple flowers. Height: 28 in.

- 25267 **Kiwi Blue** **J**

Pride of Gibraltar

Rich purple-blue nodding flowers contrast over deep blue green bracts on long, strong stems. Useful dark foliage. Height: 3 ft.

- 11881 **Pride of Gibraltar** **K**

Cirsium

C. japonica

60°-65°F. 7-14 days. Cover or uncover seed.

Beauty Series

Best when direct sown. Height: 2 ½ ft.

- 11927 **Pink** **L**
- 11928 **Rose**

Corn Ornamental

Zea maize

Cover seed.

Black Amber Broom Corn Sorghum

105-110 days. Its heritage name is "Texas Black Amber Molasses." Amber colored seeds with shiny black coat. Height: 6 ½-7 ft.

- 11976 **Black Amber Broom Corn Sorghum** **L**

Bloody Butcher

100-110 days. Heritage corn. Ears are "blood red," a deep red ear with some darker red kernels intermixed. Dent, flour variety. Corn 8-12 in. Height: 10 ft.

- 11978 **Bloody Butcher** **M**

Broom Corn Mix Colors

100-110 days. Seed heads form at the top of the plant instead of a tassel, and vary in length from 24-36 in. Height: 11-12 ft.

- 11979 **Broom Corn Mix Colors** **N**

Calico Popcorn

100-105 days. Medium length ears, 5-8 in. Height: 5 ½-6 ft.

- 11980 **Calico Popcorn** **O**

**Colored Upright Sorghum**

105-120 days. Compared to Broom Corn Mixed Colors, seed heads are smaller and more compact with similar colors. Height: 11-12 ft.

11981 Colored Upright Sorghum **A**

Early Pink Popcorn

85-95 days. Appealing pink with very early maturity.

11982 Early Pink Popcorn **B**

Earth Tones Dent Corn (Indian Summer)

85-95 days. Kernels are soft shades. Height: 6 ½ ft.

11983 Earth Tones Dent Corn **C**

Green Oaxacana Dent Corn

95 days. Flour corn with green kernels. Height: 6 ft.

11986 Green Oaxacana Dent Corn **D**

Hegari Sorghum

90-100 days. White cone shaped seed head. Height: 5 ft.

11987 Hegari Sorghum

Miniature Blue Popcorn

100-110 days. Small narrow cobs average 2-4 in. in length. Height: 5 ½ ft.

11989 Miniature Blue Popcorn **E**

Miniature Colored Popcorn

105 days. Small shiny kernels in many different calicos. Height: 6 ft.

11988 Miniature Colored Popcorn **F**

Red Broom Corn

100-110 days. Mixture of red shades. Height: 10-11 ft.

11992 Red Broom Corn **G**

Cosmos

72°-75°F. 5-7 days. Cover seed.

C. bipinnatus**NEW Afternoon White**

Improved Tetraploid-type. Strong stems, sturdy, with thick flower petals. Best in trials. Height: 40 in.

27051 White

NEW Apricot Lemonade

First early flowering apricot cosmos. Erect, bushy plants. Height: 20-28 in. Spread: 14 in.

26444 Apricot Lemonade **H**

Capriola

Early flowering. Flowers are white, with light red picotee edge and dark red center. Height: 2 ft.

24793 Capriola **I**

Cosimo Series

Early flowering with unique colors for cuts and borders. Height: 20-25 in.

24794 Collarette. Semi-double flowered, striped in pink and white. **J**

24795 Pink-White. Blend of white with pink edge and pink streaked white. **K**

24796 Purple Red. Rich, deep purple red. **L**

24797 Red-White. Bicolored, striped in purple red and white. **M**

Cupcakes Series

New unique cosmos form, with cup shaped flowers and fused petals. Clear bright colors make superb cut flowers. Height: 40 in.

26457 NEW Blush **N**

24722 White **O**

Double Click Mix

Unique double and semi double flowered cosmos. Mixture of white, pink, and carmine. Height: 4 ft. Spread: 20-25 in.

18636 Double Click Mix **P**

Picotee Wonder

Single white flowers with purple margins.

17230 Picotee Wonder **Q**

Pied Piper Series (Seashells type)

Bushy border plant with finely cut, fern-like foliage. Fluted petals. Height: 32-40 in.

12007 Blush White

12008 Red **R**

Rubenza

The darkest red cut flower cosmos. Easy to grow, flowers all summer until frost. Height: 36 in.

19893 Rubenza **S**

Seashells Mix

Uniquely formed flowers with rolled, quilled petals. Each bloom has a yellow button eye.

12009 Seashells Mix

CUT FLOWERS

COSMOS



Cosmos continued

Versailles Series

Tetraploid species gives strong sturdy stems and upright flower even under short day length. Flowers about 2 ¼-2 ¾ in. Harvest about 50-70 days after sowing.

- 18930 **NEW** Dark Rose
- 12017 **NEW** Red **A**
- 22263 **NEW** White
- 27011 **NEW** White w Rose Edge
- 27012 **NEW** White w Rose Blush
- 12018 Versailles Mix **B**

Xanthos

First true yellow cosmos. Unique, soft, stunning yellow flowers, lighter at the edges. Upright and branching habit. For cuts and bedding. Sow to flower 70 days. Height: 20-25 in.

- 24798 Xanthos **C**



Xsenia

Unique flower color terracotta-orange edged with pink. Matures to antique rose. Upright, well branched, with 10-14 in. stems. Height: 24-28 in. Spread: 14 in.

- 26411 Xsenia **D**

Craspedia

C. globosa

70°F. 7-14 days. Do not cover seed.

Drumstick

1 in. golden yellow globe shaped heads on sturdy wiry stems. For drying or fresh arrangements. Height: 2 ft. Spread: 12 in. Clean seed.

- 12021 Drumstick **E**

Cyclamen See Pot Plants

Delphinium

Also see Perennials
59°-68°F. 12-18 days. Cover seed.

D. elatum

Benary's Pacific Series

FastraX perennial, does not require vernalization. Rigidly selected for excellent flower and stem quality. Long vase life. Flowers June-July. Crop Time: 16 weeks. Zones: 4-7. Height: 6 ft.

- 20122 Astolat. Blush rose, black bee.

- 20123 Black Knight. Purple, black bee. **F**
- 20124 Blue Bird. Blue, white bee.
- 20125 Blue Jay. Blue, black bee.
- 20126 Cameliard. Lavender, white bee.
- 20127 Galahad. White, white bee.
- 20128 Guinevere. Pink-lavender, white bee. **G**
- 20129 King Arthur. Deep blue, white bee. **H**
- 20131 Percival. White, black bee. **I**
- 20132 Summer Skies. Light blue, white bee.
- 20130 Mix

Magic Fountains Series

All have white bees, unless noted. Sturdy flower stems fully packed with individual florets on dwarf plants. Height: 2 ½-3 ft. Spread: 24-36 in. Zones: 4-7.

- 12257 Cherry Blossom
- 12259 Dark Blue w/Dark Bee
- 12260 Dark Blue
- 12261 Lavender
- 12262 Lilac Pink
- 12263 Mid Blue
- 12265 Pure White
- 12266 Sky Blue
- 12267 White w/Dark Bee
- 12258 Crystal Mix. White bees.
- 12264 Mix **J**

Pacific Giant Series

All have white bees unless noted. Flowers June-July. Height: 4 ½-6 ft. Spread: 10-12 in. Zones: 4-7.

- 12276 Astolat. Blush to deep rose, with black bee.
- 12277 Black Knight. Dark purple with black bee. **K**
- 12278 Blue Bird. Medium blues.
- 12281 Galahad. Clear white.
- 12282 Guinevere. Pink-lavender. **L**
- 12283 King Arthur. Royal violet.
- 12286 Summer Skies. Light blue.
- 12285 Round Table Mix **M**

D. hybrida

Aurora Series

Excellent uniformity, vigor and dense flower spikes on strong stems. Flowers are 2-2 ½ in. across, with a white bee. Can be grown year round. Crop Time: sow to finish 5 ½ months. Best in 2 gal. Height: 3-4 ft.

- 12219 Blue **N**
- 12215 Deep Purple
- 12216 Lavender
- 12217 Light Blue **O**
- 12218 Light Purple
- 18641 White

**Candle Series**

Does not need long days to initiate flowering. Can be grown year-round with 10 hours per day of light at 59°F. Excellent as a bouquet item or filler.

- 12230 **Blue Shades** **A**
 12231 **Violet Shades**
 12232 **White Shades** **B**

Centurion Series

Highest quality. Big triple layered, duplex double flowers. First year blooming. Height: 4-5 ft.

- 18642 **Lavender**
 12236 **Rose** **C**
 12238 **Sky Blue** **D**
 12237 **White**

Guardian Series **E**

Multi-use: landscape bedding, cut flower, potted plant. Very uniform blooming within each variety under short days. Height: 24-36 in.

- 12254 **Blue**
 12252 **Lavender**
 12253 **White**

Prism Series

Compared to belladonna types, grows more vigorously and uniformly in blooming, especially with first flush. Produces 3-4 shoots. Stems are sturdy and longer.

- 12287 **Sea Blue**. Dark.
 12288 **Sky Blue**. Light. **F**
 12289 **Snow White**

Triton series

High quality, full double flowers on tight flower spikes. Uniform color and shape. Early to flower with even growth and long stems. Low labor, no excess branching. Harvest stems at 3-4 ft. length with 20-35 flowers. Spread: 6-10 in.

- 12295 **Dark Blue** **G**
 12296 **Light Blue** **H**

D. belladonna

60°-70°F. 12-16 days.

Belladonna

Excellent cut flowers! Tall, graceful stems with numerous single flowers forming a spike. Height: 4 ft. Spread: 10-12 in. Zones: 4-7.

- 12220 **Belladonna Cliveden Beauty**. Turquoise-blue. **I**

- 12221 **Bellamosum**. Dark blue.

- 19556 **Blue Donna** **J**

- 12228 **Blue Shadow**. Dark blue, larger flowers, fast growing. **K**

- 12234 **Casa Blanca**. Pure white.

- 12274 **Oriental Blue** **L**

Dianthus

Also See Bedding Plants and Perennials 70°-72°F. 7-9 days. Cover seed.

D. barbatus interspecific**Amazon Series**

Multi-use series that performs well as a bedding plant and as cut-flower. Excellent late-season performance. Does not require vernalization for flowering. Bright, serrated-edged flowers. Very dark green, glossy leaves. Well suited to both pot and gallon production. Height: 36 in. winter greenhouse. 18-24 in. garden. Spread: 10-12 in. Pelleted seed.

- 12299 **Neon Cherry** **M**
 12300 **Neon Duo**. Cherry and purple.

- 12302 **Neon Purple** **N**

- 12303 **Rose Magic**. White to deep rose. **O**

Carousel

Masses of extra large scarlet-red flowers. Requires a short cool period to initiate flowering. Will produce the greatest number of blooms if pinched at the 12th leaf stage. Height: 20-24 in.

- 12308 **Carousel** **P**

Didiscus

(Blue Lace Flower)

D. caeruleus

70°-72°F. 6-12 days. Cover seed lightly. Direct sow.

Lacy Series

Lacy flowers with a sweet scent that resemble a small Queen Anne's Lace. Height: 2 ft.

- 12438 **Blue**
 12440 **Pink**
 12441 **White**
 12439 **Mix** **Q**

CUT FLOWERS

EUPHORBIA



Euphorbia

E. marginata variegata

68°-72°F. 10-15 days. Cover seed.

Kilimanjaro

Early flowering selection with pure white bracts on contrasting green foliage, strong tall stems and a short harvesting period. For greenhouse and outdoor production. The stems have short side branches just below the bracts. Height: 36 in. Spread: 8-10 in.

12496 Kilimanjaro A

Forix Bliss

Unique red and green flower bringing to mind Poinsettia, on a long and sturdy stem, which makes it the perfect ornamental accessory to any Christmas decorative need; bouquets, flower arrangements or standalone. Has excellent shelf-life, a fast growth cycle, and is a high-yielding product that can be regulated to a continuous harvest. Height: 2-3 ft.

25809 Forix Bliss B

Mountain Snow

Pure white bracts on contrasting green foliage. Variegation occurs as day length shortens. Strong, long stems. Height: 2-3 ft.

26469 Mountain Snow C

Eustoma See Lisianthus

Flowering Kale

Brassica oleracea

70°F. 1-2 weeks. Cover seed.

Condor Series

A new and unique look for the vase. Stems grow straight, easy to cut and bunch. Crop Time: 16-17 weeks. Stem Length: 25-30 in. Spacing: 4 x 4 in.

25432 Pure White D

Crane Series

A real attention getter! Long lasting, tight, colorful round leaf heads that look like immense roses. 6 in. diameter. Height: 24-28 in.

12519 Bicolor E

42550 Pink F

12520 Red G

12521 Rose H

12522 White I

Crane Feather Series

First uniform feather leaf cut flower kale. Excellent stem length. Height: 20-36 in.

25068 King White J

25069 Queen Red K

Empire Series

Uniform flowering with more stem length. Fast crop, can plant 1-2 weeks later. Hard leaf structure requires less fungicides. Height: 3 ft. Spread: 5-6 in.

26008 NEW Alexander. White round. L

25212 Agathana. White round. M

25302 Anna. White round.

25301 Arina. White wavy.

25213 Antonina. White round.

25214 Bogdana. Rosy-red fringed. N

26005 NEW Katinka. Deep pink fringed. O

25215 Katya. Deep pink fringed. P

25216 Ksenia. Pink fringed.

26006 NEW Kysia. Pink fringed. Q

25217 Luba. Coral round. R

25218 Olga. Rose round. S

25219 Vera. Rose round.

Flare Series

Very early maturity and easy to achieve taller stem. Pure white color attracts attention and is well suited for dyeing. Height: 28 in.

26275 NEW Rose T

25700 White U

Lucir Series

Glossy green leaves which show better color contrast. Can be used in bouquets even without color. Height: 2 ft.

19903 Rose

19904 White

Red Bor

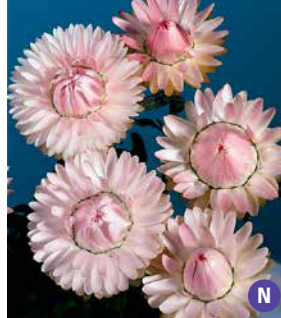
55 days. Purple magenta, finely curled foliage. Great for flower beds and arrangements. Height: 18-26 in.

12534 Red Bor

Scarlet

Highly decorative. Curly dark green, red veined leaves show more color as colder weather approaches. Excellent winter hardiness for a long season of harvest. Height: 2-3 ft. Spread: 2 ft.

24119 Scarlet



Snow Bright

White cut round leaf. Height: 2 ft.
12510 Snow Bright **A**

Sun Series

Round leaf plants that produce 6 in. heads.
Long lasting cut flowers. Height: 2 ft.
12537 Sunrise. White.
12538 Sunset. Red.

Foliage

Look for the  symbol in the Foliage & Exotic Section for additional cuts.

Godetia

G. whitney
70°F. 10 days. Cover or uncover seed.

Grace Series

Each lateral branch produces a cluster of 5 to 6 beautiful 2 in. blossoms. Average 15 stems per plant. Height: 2 1/2 ft. Spread: 10-12 in.

12923 Lavender
12926 Red
12927 Rose Pink

12928 Salmon
12929 Shell Pink
12930 White
12924 Mix **B**

Gomphrena (Globe Amaranth)

G. globosa
72°F. 9-12 days. Cover seed.

Audray Series

Days to flower: 70-90, Height: 2 ft.

12937 Bicolor Rose **C**
19681 Pink **D**
19682 Purple Red **E**
21215 White **F**

Fireworks

Unique, tough, vigorous crop. Intense, long-lasting, hot pink flowers tipped with bright yellow. Great height, drought tolerant, attracts butterflies. Habit similar to verbena bonariensis. Weeks to flower: 13-14. Height: 4 ft. Spread: 4 ft. Filmcoated seeds.

19802 Fireworks **G**

QIS Series

1 1/2-2 in. blooms set atop tall plants. An outstanding cut flower. Height: 30 in.

12945 Carmine (haageana) **I**
12946 Lilac
12948 Orange (haageana)
12949 Pink
12950 Purple
12951 Red (haageana). Strawberry. **I**
12952 Rose **J**
12953 White
12947 Mix

Gypsophila

(Baby's Breath)

G. muralis

70°-80°F. 10-14 days. Cover or uncover seed.

Covent Garden

Clouds of tiny white flowers. Height: 2 ft.
12997 Covent Garden Strain **K**

Helichrysum (Strawflower)

H. bracteatum or monstrosum

70°-75°F. 7-10 days. Cover or uncover seed.

Tall Series

Large, tall, fully double blooms on strong stems. Height: 3 ft.

13013 Bright Pink
13016 Golden Yellow
13017 Lemon Yellow
13018 Orange
18919 Purple Red **L**
13019 Rose **M**
13020 Salmon
13021 Silvery Rose. Rose flushed white. **N**
13023 White
13022 Mix **O**

Hibiscus

70°-72°F. 7-10 days. Do not cover seed.

Mystic Wonder Series

Bred for cut flower production. Plant size depends on water and fertilization.

13067 Red **P**



Larkspur

Delphinium consolida

55°-65°F. 10-20 days. Cover seed.

Cannes Series

Noted for disease tolerance and early flowering. Spikes of double flowers induced by warm temperatures and long days. For winter harvest under short days and cold conditions, maintain 50-55°F nights and provide supplemental lighting 4-6 hours. Height: 4-5 ft.

- 18699 **Blue Picotee** **A**
- 18700 **Crystal Pink**
- 18701 **Deep Blue** **B**
- 18702 **Lilac**
- 18703 **Purple Picotee** **C**
- 18704 **Rose Stripe** **D**
- 22960 **White** **E**

Giant Imperial Series

The standard strain used for fresh cut and dried flower arrangements. Height: 3-4 ft.

- 13306 **Blue Bell**. Light blue. **F**
- 13307 **Blue Spire**. Dark blue.

- 13308 **Brilliant Rose**
- 13309 **Carmine King**
- 13312 **Lilac Spire** **G**
- 13313 **Los Angeles**. Salmon.
- 13316 **Pink Perfection** **H**
- 13317 **White King**
- 13314 **Master Blend Mix** **I**
- 13311 **Frosted Skies**. Blue and white bicolor. **J**

QIS Series

Reselected for stem length and quality, consistently double blooms and intense coloring. Height: 3-4 ft. Filmcoated seed available on request.

- 13319 **Carmine** **K**
- 13320 **Dark Blue** **L**
- 13321 **Light Blue**
- 13322 **Light Pink**
- 13323 **Lilac**
- 13325 **Rose**
- 13326 **White**

Cloud Series

Small single blooms form on 40 in. stems. Perfect for bouquet filler material!

- 13297 **Blue**

Lepidium

Emerald Beads

Characterized as the ultimate filler that blends harmoniously and adds volume and quality to any flower arrangement or bouquet. Has rich stems with many laterals. It is an eco-friendly product as it has no lighting requirements and can be grown in climates with 4 seasons as well as in equatorial climates. Height: 3 ft.

- 25810 **Emerald Beads** **M**

Green Dragon

Improved strain with flowers covering longer stretch of stems. Fuller, wider, flowers on stems, with less foliage. Longer vase life. Height: 3 ft.

- 26385 **Green Dragon** **N**

Lisianthus See pages 77-79

Eustoma grandiflorum

73°-75°F. 10 days. Do not cover seed.

Lobelia

L. speciosa

75°-78°F. 14-21 days. Do not cover seed.

Fan Series

Excellent for cut, pot and garden. Usually grown as an annual. Container: 6 in. to gallon. Height: 24 in. Zones: 6-10. Pelleted seed.

- 21258 **Burgundy**
- 21260 **Salmon**. Bronze foliage.
- 21261 **Scarlet**. Copper foliage. **O**



Item #	NEW	Lisianthus		Type	Group			
		Series	Variety Color		1	2	3	4
19653		ABC 1	Deep Rose	Standard Double	1			
20340		ABC 1	Green	Standard Double	1			
20341		ABC 1	Misty Blue A	Standard Double	1			
19654		ABC 1	Purple	Standard Double	1			
19652		ABC 1	Rose Rim	Standard Double	1			
19655		ABC 1	White	Standard Double	1			
20342		ABC 1	Yellow B	Standard Double	1			
19657		ABC 2	Blue	Standard Double		2		
19659		ABC 2	Blue Rim	Standard Double		2		
19661		ABC 2	Lavender	Standard Double		2		
20343		ABC 2	Misty Blue	Standard Double		2		
20344		ABC 2	Misty Pink	Standard Double		2		
19656		ABC 2	Purple	Standard Double		2		
19662		ABC 2	Rose C	Standard Double		2		
19663		ABC 2	Yellow	Standard Double		2		
19664		ABC 3	Purple	Standard Double			3	
19665		ABC 3	Rose	Standard Double			3	
19666		ABC 3	White	Standard Double			3	
22268		Adom	Deep Red D	Standard Single			3	
20953		Adom	Red Picotee E	Standard Single			3	
18714		Advantage	Cherry Sorbet F	Standard Double		2		
19287		Advantage	Green G	Standard Double		2		
22961		Advantage	Pink H	Standard Double		2		
19288		Advantage	Purple	Standard Double		2		
19289		Advantage	Yellow	Standard Double		2		

Item #	NEW	Lisianthus		Type	Group			
		Series	Variety Color		1	2	3	4
19088		Arena 1	Green	Standard Double	1			
26277		Arena 2	Purple Picotee I	Standard Double		2		
21252		Arena 3	Apricot	Standard Double			3	
22364		Arena 3	Baby Pink	Standard Double			3	
23872		Arena 3	Blue Picotee J	Standard Double			3	
19685		Arena 3	Champagne	Standard Double			3	
22459		Arena 3	Gold K	Standard Double			3	
21253		Arena 3	Green	Standard Double			3	
26264	NEW	Arena 3	Mont Blanc L	Standard Double			3	
22460		Arena 3	Pink Flash	Standard Double			3	
26276	NEW	Arena 3	Purple M	Standard Double			3	
20345		Arena 3	Red	Standard Double			3	
19092		Arena 4	Rose	Standard Double				4
20346		Arena 4	White	Standard Double				4
13384		Borealis	Apricot	Standard Double	1			
13385		Borealis	Blue N	Standard Double	1			
13386		Borealis	Pink	Standard Double	1			
13387		Borealis	White	Standard Double	1			
13388		Borealis	Yellow	Standard Double	1			
13392		Cessna	Blue O	Standard Double			3	
22267		Cessna	Deep Rose	Standard Double			3	
13393		Cessna	Green	Standard Double			3	
20951		Cessna	Pure White	Standard Double			3	
17431		Cessna	Rose	Standard Double			3	
20952		Cessna	Yellow P	Standard Double			3	

CUT FLOWERS

LISIANTHUS



Item #	NEW	Lisianthus		Type	Group			
		Series	Variety Color		1	2	3	4
26265	NEW	Corelli 2	Deft Blue A	Fringed Double		2		
26672	NEW	Corelli 2	Lavender	Fringed Double		2		
26278	NEW	Corelli 2	Light Pink B	Fringed Double		2		
26474	NEW	Corelli 2	White Improved C	Fringed Double		2		
24163		Corelli 2	White	Fringed Double		2		
24160		Corelli 3	Apricot	Fringed Double			3	
24161		Corelli 3	Light Pink	Fringed Double			3	
24162		Corelli 3	Rose D	Fringed Double			3	
24164		Corelli 3	Yellow	Fringed Double			3	
23873		Croma 1	Green E	Standard Double	1			
23874		Croma 2	Snow	Standard Double		2		
25266		Croma 3	Blue Picotee F	Standard Double			3	
26266	NEW	Croma 3	Green	Standard Double			3	
26673	NEW	Croma 3	Jolly Pink	Standard Double			3	
25703		Croma 3	Pink Picotee G	Standard Double			3	
27015	NEW	Croma 3	Pure White	Standard Double			3	
26674	NEW	Croma 3	Red	Standard Double			3	
25704	NEW	Croma 3	Silky White H	Standard Double			3	
24165		Croma 3	Yellow I	Standard Double			3	
22462		Croma 4	Lavender	Standard Double				4
24618		Doublini	Blue	Petite Double, Spray	1			
24619		Doublini	Rose Pink J	Petite Double, Spray	1			
24620		Doublini	White	Petite Double, Spray	1			
13400		Echo	Blue	Standard Double, Spray	1	1		
13401		Echo	Champagne	Standard Double, Spray	1			

Item #	NEW	Lisianthus		Type	Group			
		Series	Variety Color		1	2	3	4
13402		Echo	Lavender	Standard Double, Spray	1			
13406		Echo	Pink Picotee	Standard Double, Spray	1			
13407		Echo	Pink K	Standard Double, Spray	1			
13408		Echo	Pure White	Standard Double, Spray	1			
26629	NEW	Echo	Purple L	Standard Double, Spray	1			
13409		Echo	Yellow	Standard Double, Spray	1			
19094		Excalibur	Blue Picotee M	Standard Double		2		
18709		Excalibur	Green	Standard Double		2		
13410		Excalibur	Pure White	Standard Double		2		
22902		Excalibur	Rose Pink	Standard Double		2		
23320		Excalibur	Yellow N	Standard Double		2		
22463		Falda 2	Light Apricot O	Fringed Single		2		
22464		Falda 2	Salmon P	Fringed Single		2		
27013	NEW	Fioretti 1	Green	Micro Single, Spray	1			
27014	NEW	Fioretti 1	White	Micro Single, Spray	1			
13441		Mariachi	Blue	Extra Double		2		
18600		Mariachi	Carmine Q	Extra Double		2		
13442		Mariachi	Grande White	Extra Double			3	
13443		Mariachi	Lavender	Extra Double		2		
13445		Mariachi	Lime Green	Extra Double		2		
13446		Mariachi	Misty Blue	Extra Double		2		
13447		Mariachi	Misty Pink	Extra Double		2		
13448		Mariachi	Pink Picotee	Extra Double		2		
13449		Mariachi	Pink	Extra Double		2		
13450		Mariachi	Pure White	Extra Double		2		



Item #	NEW	Lisianthus		Type	Group			
		Series	Variety Color		1	2	3	4
13451		Mariachi	Yellow	Extra Double		2		
13467		Piccolo 2	Deep Blue	Petite Single, Spray		2		
24697		Rosanne 1	Black Pearl A	Standard Double	1			
23717		Rosanne 1	Brown B	Standard Double	1			
23718		Rosanne 1	Green	Standard Double	1			
22899		Rosanne 2	Deep Brown	Standard Double		2		
13474		Rosita 1	Green	Standard Double, Spray	1			
13475		Rosita 1	Pink Picotee	Standard Double, Spray	1			
13476		Rosita 1	Rose Pink	Standard Double, Spray	1			
13477		Rosita 1	White	Standard Double, Spray	1			
24621		Rosita 2	Apricot	Standard Double, Spray		2		
25147		Rosita 2	Blue Flash C	Standard Double, Spray		2		
24622		Rosita 2	Blue Picotee	Standard Double, Spray		2		
24624		Rosita 2	Green	Standard Double, Spray		2		
24625		Rosita 2	Hot Lips Pink Picotee	Standard Double, Spray		2		
24626		Rosita 2	Jade	Standard Double, Spray		2		
24628		Rosita 2	Pink	Standard Double, Spray		2		
25148		Rosita 2	Pink Flash	Standard Double, Spray		2		
24629		Rosita 2	Purple D	Standard Double, Spray		2		
24630		Rosita 2	Sapphire	Standard Double, Spray		2		
24631		Rosita 2	White	Standard Double, Spray		2		
24632		Rosita 2	Yellow	Standard Double, Spray		2		
26304	NEW	Rosita 3	Blue E	Standard Double, Spray			3	
26305	NEW	Rosita 3	Green F	Standard Double, Spray			3	
26306	NEW	Rosita 3	Lavender G	Standard Double, Spray			3	

Item #	NEW	Lisianthus		Type	Group			
		Series	Variety Color		1	2	3	4
24633		Rosita 3	Pink	Standard Double, Spray			3	
26630		Rosita 3	Pure White H	Standard Double, Spray			3	
26307	NEW	Rosita 3	Red I	Standard Double, Spray			3	
24635		Rosita 3	Yellow	Standard Double, Spray			3	
18713		Super Magic	Apricot	Standard Double		2		
22965		Super Magic	Capri Blue Picotee	Standard Double		2		
26267	NEW	Super Magic	Champagne J	Standard Double		2		
13487		Super Magic	Deep Blue	Standard Double		2		
18715		Super Magic	Green	Standard Double		2		
26269	NEW	Super Magic	Lilac K	Standard Double		2		
26271	NEW	Super Magic	Pure White L	Standard Double		2		
26270	NEW	Super Magic	Rose M	Standard Double		2		
13492		Super Magic	White	Standard Double		2		
26272	NEW	Super Magic	Yellow N	Standard Double		2		
24845	NEW	Voyage 1	White O	Fringed Double	1			
24846		Voyage 2	Blue	Fringed Double		2		
24847		Voyage 2	Champagne P	Fringed Double		2		
26308	NEW	Voyage 2	Deep Rose Q	Fringed Double		2		
24848		Voyage 2	Green R	Fringed Double		2		
24844		Voyage 2	Light Apricot	Fringed Double		2		
24849		Voyage 2	Pink	Fringed Double		2		
25350		Voyage 2	White	Fringed Double		2		
24850		Voyage 2	Yellow	Fringed Double		2		
22900		Wonderous	Light Brown S	Standard Single	1			
23570		Wonderous	Purple T	Standard Single	1			

CUT FLOWERS

MARIGOLD



Marigold

Tagetes erecta (African)

70°-75°F. 5-8 days. Cover seed lightly.

NEW Coco Series

Uniform earliness, long stems, and fully double flowered. Crop time: 12-15 weeks. Stem length: 24-36 in. Spread: 5 in., or pinched 8 in. Detailed seed.

26631 **Deep Orange** **A**

26632 **Gold** **B**

26633 **Yellow** **C**

NEW Garuda Series

Heat and disease tolerance. Firm, 4-5 in. ball shaped flowers. Height: 39-47 in. Spread: 22-24 in. Detailed seed.

26731 **Deep Gold**. AAS Winner.

27050 **NEW Yellow**

Jedi Series

Large 4-5 in. firm, well-shaped flowers on long, strong stems with good vase life. Height: 3-4 ft. Spread: 2 ft. Detailed seed.

22907 **Gold**

22291 **Orange** **D**

27052 **NEW Yellow**

NEW Mayan Series

Firm, compact ball shaped flowers, 2.5-3 in. Continuous flowering with long stems. Heat loving and disease tolerant. Crop time: 50-65 days. Height: 30-40 in. Spread: 30 in. Detailed seed.

27053 **Orange**

Oriental Series

Large 4-5 in. firm, ball shaped flowers, on long strong stems. Tolerant to fungus wilt. Height: 3 ft. Spread: 2 ft. Detailed seed.

24884 **Deep Gold** **E**

24883 **Gold** **F**

26386 **NEW Yellow** **G**

Sunrise Lime Yellow

Odorless carnation flower form with strong stems. Height: 2-3 ft.

13752 **Sunrise Lime Yellow**

Matricaria

(Feverfew)

Chrysanthemum parthenium

70°F. 7-15 days. Cover seed.

Vegmo Series

Double flowered with lacy, fragrant foliage. Fast, year-round crop. Nice stem quality plus good flower range and bud count. Long day plants require 16-18 hours of daylength. Crop Time: 8-10 weeks from transplant. Height: 28-36 in. Pelleted seed.

13777 **Single Improved** **H**

19539 **Snowball Extra** **I**

19540 **Sunny Ball Gold** **J**

19541 **Yellow**

Victory Series

Compare to Vegmo series, with high germination. Height: 28-36 in. Pelleted Seed.

24931 **Double White** **K**

25747 **Double Yellow** **L**

24932 **Single White** **M**

Mignonette

Reseda alba

NEW White Mignonette

Tall, slender, upright spikes of white flowers, with vanilla fragrance. Crop time 60-70 days. Height: 2-3 ft.

26448 **White Mignonette** **N**

Nigella

(Love in a Mist)

65°-70°F. 7-14 days. Cover seed.

N. damascena

Albion Series **O**

Long-stemmed. Cut from July to September. Height: 24 in.

13879 **Black Pod**

13880 **Green Pod**

Cramers Plum

White flowers followed by beautiful, russet colored pods that are more of a reddish/purple color when dry.

13881 **Cramers Plum** **P**

Miss Jekyll Series

Beautiful and easy to grow. Height: 18 in.

13883 **Dark Blue** **Q**

13884 **Rose** **R**

13885 **Sky Blue**. Light.

13886 **White**



cocoTM
Marigold

Long stems & big bold blooms

It's always a fiesta with COCO cut flower marigold! This gorgeous series offers three colors, including the deepest orange on the market.

Offers uniform earliness, long stem length and fully double blooms.

Suitable for tighter space production, especially when disbudded.

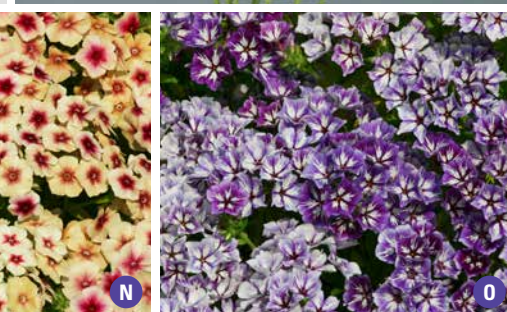
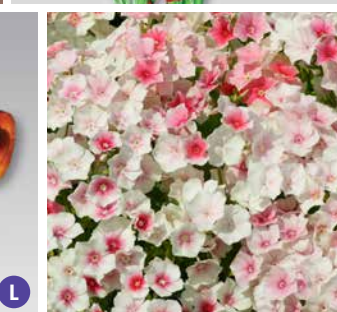
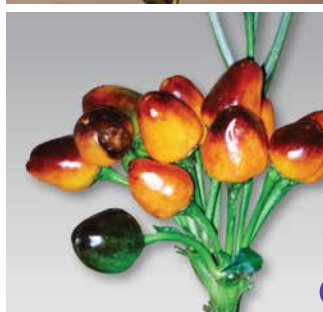
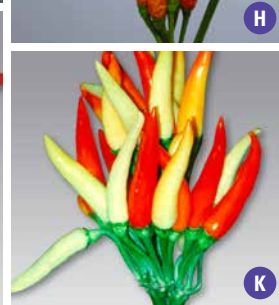
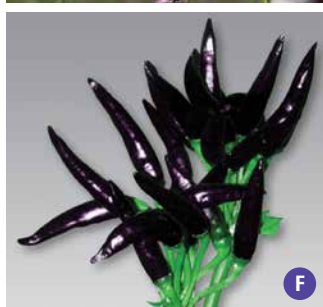
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Bloom!
It's in our nature.

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www.sakataornamentals.com

CUT FLOWERS

NIGELLA



Nigella continued

N. hispanica or papillosa

NEW **African Bride White**
Large, pure white flowers with almost black contrasting pods. Height: 3 ft.
26869 African Bride White

NEW **Delft Blue**
Flowers resemble Delft Blue porcelain with blue splashes all over. Height: 2 1/2-3 ft.
24870 Delft Blue A

NEW **Midnight Dark Blue**
Velvety dark blue flowers on deep purple pods. Height: 3 ft.
24871 Midnight Dark Blue B

N. orientalis

Transformer

Attractive yellow flowers are followed by curiously shaped seed pods. Height: 2 ft.
13887 Transformer C

Ornamental Grass

Look for the ✂ symbol in the Ornamental Grass Section for additional cuts.

Oxypetalum

Tweedia caerulea

Double series

Exciting new flower form. Average 25% fully double, 50% semi double, and 25% single flowers.

13896 Blue Double Mix D

18902 White Double Mix E

Pansy See Bedding Plants

Penstemon See Perennials

Pepper Ornamental

Capsicum annum

70°F. 7-15 days. Cover seed.

On Top Series

Fruit is concentrated at the top of stems and points upward. Green leaves grow along the stems and are easy to remove. Clusters produce 15 plus fruits. Stem length 24-32 in. A secondary stem develops above primary stem and fruits will be at different maturity/colors which can be sold separately. Total Crop Time: 90-100 days.

On Top Candles (elongated fruit):

18797 Black F

18794 Orange G

18792 Orange Medium (medium length fruit)

18795 Orange Short (short length fruit)

18796 Orange/Red H

19339 Purple

19340 Purple Medium (medium length fruit) I

14303 Red J

18789 Red Medium (medium length fruit)

18798 White/Orange K

18790 Yellow

On Top Round (round fruit):

18793 Black

14304 Bronze Bicolor L

18791 Orange

14305 Red

Perennials

Look for the ✂ symbol in the Perennials Section for additional cuts.

Phlox

P. drummondii

60°-63°F. 10-14 days. Cover seed lightly.

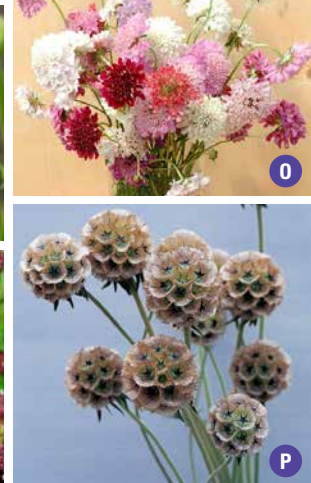
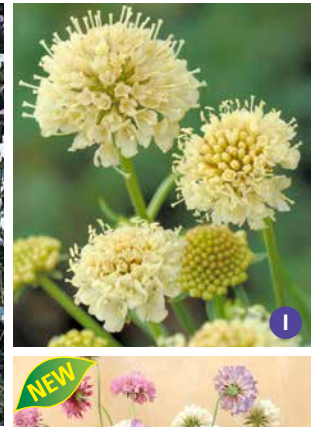
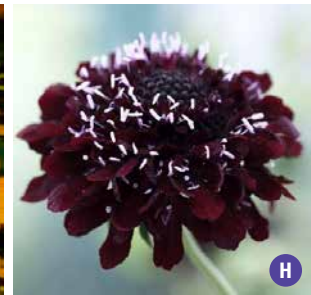
Van Hemert Series

Large flowered, with impressive unique colors and patterns. Border and landscape plant, with tall stems, suitable as cut flower with very good vase life. Flowers: July-October. Height: 15-25 in.

25334 Blushing Bride M

25335 Cherry Caramel N

25336 Sugar Stars P



Poppy See Perennials

Ranunculus Seed

R. asiaticus

50°-60°F. 14-21 days. Cover seed.

La Belle Series

ASCFG 2015 Cut Flower of the Year.

Flowers are 100% double and stem quality is superior. Equally suited for pots with growth regulators, or cut. All colors in price booklet. Also available in corms.

15119 Mix **A**

Super Greens Series

Unique and interesting green center that expands as it matures. Also available in corms.

22722 Orange

20911 Red

20910 Rose **B**

20912 White

20909 Mix **C**

Rudbeckia

Also see Bedding Plants

R. triloba

70°F. 5-10 days. Cover or uncover seed.

NEW Triloba

Strong and hardy, single daisy-like golden yellow petals with brown center. The fine wiry stems are self-supporting and convenient for arrangements. Height: 3 ft.

26451 Triloba **D**

Salvia

Also see Bedding Plants

S. judica

Jerusalem Purple

Lilac flowers on purple 20-25 in. stems. Very productive and does not need pinching. Crop Time: 90-100 days.

19927 Jerusalem Purple **E**

Saponaria

S. vaccaria

68°-72°F. 4-8 days. Do not cover seed.

Beauty Series

Selected for the critical cut flower trade.

15265 Pink **F**

15266 White **G**

Scabiosa

(Old Maid's Pincushion)

65°-70°F. 10-12 days. Cover seed.

S. atropurpurea

Black Knight

Deepest maroon, nearly black flowers, with contrasting white stigmas. Quite striking as a contrast flower in the border or cut flower. Height: 3 ft.

18908 Black Knight **H**

Fata Morgana

Unique, yellowish pink pincushion flower, that will flower prolifically throughout the summer. Height: 39 in.

23644 Fata Morgana **I**

NEW QIS Series

A large flowered annual with strong stems. Height: 32-36 in. Clean seed.

26115 Black Purple **J**

26116 Dark Blue **K**

26117 Deep Red **L**

26118 Salmon Pink **M**

26119 Scarlet **N**

26120 White

26121 Mix **O**

S. stellata

Ping Pong

Stems topped with attractive ball shaped semi-transparent seed heads. Height: 2 ft.

15278 Ping Pong **P**

CUT FLOWERS

SNAPDRAGON GREENHOUSE



Snapdragon Greenhouse

Also see Bedding Plants

Antirrhinum majus

70°-75°F. 10-14 days. Do not cover seed.

Admiral Series

- 15458 1-2 Crimson
- 15459 1-2 Pink
- 15460 1-2 Pink Bicolor
- 19321 1-2 Purple
- 15461 1-2 White
- 15462 1-2 Yellow

Allure Series. Gloeckner Exclusive.

- 15469 3 Appleblossom. Rose on white.
- 15470 4 Pink. Clear medium pink.
- 15471 3-4 Red. Rich violet red.

Animation Series

- 18853 2 Cognac. Bicolor.
- 15473 2 Deep Orange
- 15475 2 Orange
- 15476 2 Pink. Light pastel pink.
- 15477 2 Red
- 15478 2 Rose
- 15479 2 Royal Purple

- 15481 2 White. Paper white.

- 15482 2 Yellow

Antibes Series. Gloeckner Exclusive.

- 25811 1 Early White **A**
- 24659 1 Magenta **B**
- 24660 1 Orange **C**
- 24661 1 Pink **D**
- 24662 1 Red **E**
- 24663 1 Rose **F**
- 24664 1 White **G**
- 24665 1 Yellow **H**

Avignon Series. Gloeckner Exclusive.

- 25812 2 Bicolor Yellow **I**
- 25813 2 Cherry Rose **J**
- 25814 2 Ivory **K**
- 24666 2 Magenta **L**
- 24667 2 Pink **M**
- 24668 2 Rose **N**
- 24669 2 White **O**

Bali Series. Gloeckner Exclusive.

- 15492 4 Rose
- 15493 4-5 Violetta. White with violet blotch.

Calima Series

- 19212 3 Deep Rose
- 15497 2-3 Ivory White

- 15498 2-3 Pink

- 18856 2-3 Pure White

- 15499 2-3 Yellow

Cannes Series. Gloeckner Exclusive.

- 25815 2-3 Early Carmine **P**
- 25816 2-3 Early White **Q**
- 25817 3 Lemon **R**
- 24670 3 Light Bronze **S**
- 24671 3 Orange **T**
- 24672 3 Pink **U**
- 24673 3 Red **V**
- 24674 3 Rose **W**
- 25818 3 Velvet Red **X**
- 24675 3 White **Y**
- 25819 3 Yellow **Z**

Chantilly Series. Butterfly.

- 15500 1-2 Bronze
- 15501 1-2 Cream Yellow
- 18857 1-2 Deep Orange
- 15502 1-2 Light Pink
- 15503 1-2 Light Salmon
- 15506 1-2 Pink
- 15505 1-2 Purple
- 23029 1-2 Velvet
- 15507 1-2 White
- 20755 1-2 Yellow

Cool Series

- 19213 1-2 Crimson
- 25234 1-2 Orange **AA**
- 15518 1-2 Orange Bicolor
- 15519 1-2 Pink
- 15520 1-2 Rose
- 15522 1-2 White
- 15523 1-2 Yellow

Exquisite Series. Gloeckner Exclusive.

- 15538 3 Dark Rose
- 15539 3 Golden Yellow
- 15540 3 Light Orange
- 15541 3 Orange. Bright orange.
- 15542 3 Pink
- 15545 3 Sunset. Light orange.
- 15546 3 White

Glorious Series. Gloeckner Exclusive.

- 15547 1-2 Bronze. Clear rich bronze
- 15548 2 Coral. Bronzy coral pink.
- 15549 1-2 Dark Red. Rich wine red. **BB**
- 15551 2 Orange
- 15553 2 Red
- 15554 1-2 Rose Pink
- 15555 1-2 Violet. Reddish violet.

**Legend Series**

- 26273 **NEW** 1-2 Light Pink **A**
 26274 **NEW** 1-2 Light Yellow **B**
 23881 1-2 Pink **C**
 23882 1-2 White **D**
 23883 1-2 Yellow **E**

Maryland Series

- 15557 2 Appleblossom. Rose on white.
 15558 2 Bright Yellow
 15560 2 Dark Orange
 15563 1-2 Flamingo. Salmon rose.
 15565 1-2 Ivory White. Creamy white.
 15566 1-2 Lavender
 21968 1-2 Orange
 15568 2 Plumblossom.
 18048 1-2 Red
 15569 1-2 Royal. Magenta.
 15570 1-2 Shell Pink. White tube.
 15571 1-2 True Pink
 15572 2 White
 15574 1-2 Yosemite Pink

Monaco Series

- 15575 2-3 Baltimore Rose. Deep rose.
 26970 **NEW** 2-3 Orange
 15576 2-3 Red. Almost purple.
 15577 2-3 Rose

15578 2-3 Violet

- 15579 2-3 White. Paper white.
 15580 2-3 Yellow

Opus Series

- 15581 3-4 Appleblossom. Rose on white.
 15582 3-4 Early Bronze
 15583 3 Early White
 18936 4 Fresh White
 15585 3-4 Lavender. Light lavender.
 15586 3-4 Pink
 42563 3-4 Red
 15589 3-4 White
 15590 3-4 Yellow

Orleans Series. Gloeckner Exclusive.

- 25820 3-4 Early Lemon **F**
 25821 3-4 Early Yellow
 25822 4 Lilac **G**
 24677 4 Red
 26911 **NEW** 4 Rose
 24678 3 White **H**
 25823 4 White Improved **I**
 24679 4 Yellow **J**

Overture Series

- 15595 2 Orange
 15596 2 Pink

15598 2 Red

- 15599 2 White
 15600 2 Yellow

Potomac Series

- 15601 3-4 Appleblossom. Rose on white
 15602 3-4 Cherry Rose. Dark cherry.
 19574 3-4 Crimson **K**
 15603 3-4 Dark Orange
 15604 3 Early Orange. Light bronze. **L**
 15605 3 Early Pink
 15606 3 Early Rose
 15607 3 Early White
 18049 3 Early Yellow
 15608 3-4 Ivory White
 22656 3-4 Lavender **M**
 15610 3-4 Orange
 15611 3-4 Pink
 15613 3-4 Red
 15614 3-4 Rose
 15615 3-4 Royal. Rich plum purple. **N**
 15617 3-4 White
 15618 3-4 Yellow

Premier Series. Gloeckner Exclusive.

- 15620 1 White

Red Delilah

- 22657 2 Red Delilah. Unique red and white tube pattern. **O**

Supreme Series. Gloeckner Exclusive.

- 15626 2 Appleblossom. Rose on white.
 15627 2-3 Golden Yellow. Deep yellow.
 15628 2-3 Ivory White
 15629 2-3 Light Yellow. Pastel yellow.
 15630 2-3 Lt. Lavender. Bicolor. **P**
 15632 2-3 Violet **Q**
 15633 2-3 White
 15634 2-3 Wine Red. Burgundy red.
 15635 2-3 Yellow Charms. Light yellow

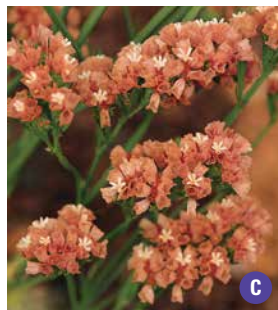
Twist

- 21969 2 Purple Twist **R**

Snapdragon Flowering Schedule – See page 149
 Snapdragon Greenhouse Culture – See page 150

CUT FLOWERS

SOLANUM



Solanum

(ornamental Eggplant)

S. integrifolium

Pumpkin on a Stick

This eggplant species looks like little pumpkins on sticks. Green fruit mature to deep reddish orange. Great in mixed bouquets.

Crop Time: 4 months from 200 cell tray.
Height: 3-4 ft.

14310 Pumpkin on a Stick **A**

Statice

Also see Perennials

Limonium

70°F. 14-18 days. Cover or uncover seed

L. sinuata

Purple Attraction

Rich, pure purple – very likely the finest purple available. Height: 30 in.

22715 Purple Attraction **B**

QIS Series

Reselected top quality. Height: 28-30 in.

15684 Apricot **C**

15685 Dark Blue

15687 Lavender

15688 Pale Blue

15690 Pastel **D**

24470 Purple **E**

15689 Rose

15692 White

15693 Yellow

Seeker Series

Unbeatable uniformity in flowering and height. Flowers are true to color. Height: 24-40 in.

15694 Blue **F**

15695 Light Yellow

15697 Pastel Blue

15698 Purple **G**

15699 Rose Shades **H**

15700 White

15701 Yellow **I**

15696 Mix

Pastel Shades

A most attractive blend of lovely, lively pastel shades.

15680 Pastel Shades

L. species

Perezii (Sea Foam)

Graceful 2 ft. stems topped with lacy violet-lavender florets.

15681 Perezii **J**

Suworowii (Rat Tail Statice)

Long rose spikes on 2 ½ ft. tall stems. Excellent for cut and drying.

15713 Suworowii **K**

Stock

Matthiola incana

65°-70°F. 10-14 days. Cover seed.

95% Double Flowered

Seed has been mechanically sorted, removing nearly all of the single flowered seed. No seedling selection needed to remove the singles. About 95% of seeds will be double flowered.

Canetto Series

95% double flowers. Dense flower spikes with sturdy stems. Early flowering. Height: 31-35 in.

22495 White **L**

NEW! Katz Hi Double Series

Same Katz series quality with single flowered seed removed. Stem length: 32 in.

26938 White **M**

Mid Cheerful Series

95% double flowers. About two weeks later blooming than the Cheerful series. Requires more cooling to flower.

15798 White **N**

15799 Yellow **O**

**Cheerful Series**

95% double flowers. Very early flowering. Does not require low temperature for bud initiation.

15733 White **A**

15734 Yellow **B**

White Beach

95% double flowers.

15888 White Beach **C**

Selectable

About 55% of seeds will be double flowered. Seedlings of what will be single flowered plants, the healthy dark green ones, may be selected out, to yield nearly all double flowered plants.

Anytime Series

Excellent cut flower series which extends the growing season, taking warmer and cooler temperatures. Height: 3 ft.

26739 Deep Purple **D**

26740 Hot Pink **E**

26741 Lavender **F**

26742 Red
26743 White
26744 Yellow

Glory Series

Extra early strain.

15750 Blue

15751 Cherry. Light pink.

15752 Lavender

15753 Light Purple

15754 Pink

15755 Rose. Salmon rose.

15756 White

Iron Series

As the name 'Iron' implies, this series is strong, taking warmer and cooler temperatures, which extends its growing season. Height: 2 ½-3 ft.

24852 Apricot

25342 Blue

25276 Cherry

25343 Deep Pink

25277 Marine

24853 Pink

25278 Purple

24854 Rose
25344 Rose Pink
24855 White
24856 Yellow

Japanese No Mai Series

Early, large dense flowers, with long, strong uniform stems. Height: 32-36 in.

15724 Ao Purplish Blue **G**

15727 Asa Apricot **H**

15773 Haru Rose **I**

15786 Kaze Light Blue **J**

15788 Ki Deep Yellow **K**

15789 Koi Deep Pink **L**

15803 Murasaki Purple **M**

15805 Nami Blue

15854 Sakura Light Pink **N**

15892 Yuki White **O**

15894 Yume Pink **P**

Prouesse Series

55% double flowers. Rigid, sturdy stems topped with attractive double blooms, equal of the finest high double strain. There are earlier blooming types, but for overall quality and performance, Prouesse is tops.

For winter flowering, use the 95% double types, and follow up with Prouesse for finest quality spring blooms.

15831 Blue Lavender

15832 Carmine

15833 Deep Blue

15834 Deep Red

15836 Pink

15837 Red Ruby

15838 Rose

15839 White

15840 Yellow Cream

Tosca Series

Grows well in high light and temperatures. Plug crop time: 5-6 weeks. Transplant to finish: 8-11 weeks. Stem length: 24-32 in.

26530 Blue Sea **Q**

26531 Rose **R**

26532 White **S**

26533 Yellow **T**

CUT FLOWERS

STOCK



Stock *continued*

Non-Selectable

About 55% of seeds will be double flowered, depending on stress factors during production. Seedlings of what will be single flowered plants, cannot be selected out, as all seedling look similar.

Column Series

Non-branching, about 50% double flowers. Height: 2 1/2-3 ft.

- 15806 **American Beauty**
- 15807 **Appleblossom** **A**
- 15808 **Apricot**. Apricot tinged pink. **B**
- 15809 **Avalanche Supreme**. Pure white.
- 15810 **Lilac Lavender** **C**
- 15811 **Malmaison Pink**. Unique salmon-pink.
- 15812 **Miracle Crimson**
- 15813 **Miracle Gold**
- 15815 **Miracle Mid Blue** **D**
- 15818 **Miracle Yellow**
- 15820 **Pacific Blue**
- 15821 **Pacific Crimson** **E**
- 15823 **Rose Pink #14**
- 15824 **Rose Supreme #22** **F**
- 15825 **Royal Purple**. a.k.a. Purple Heart
- 15827 **Sweetheart Pink**
- 15829 **White Goddess**
- 15819 **Mix**

Katz Series

Can be grown earlier and later in the season. Extra early field grown type with better heat tolerance. Flowers with same stem length up to 6 weeks earlier than Non Branching Column Stocks. Tunnel production recommended for longer, higher quality stems.

- 19935 **Apricot** **G**
- 22661 **Blue** **H**
- 19936 **Bright Rose** **I**
- 19737 **Cherry Blossom**
- 21970 **Crimson** **J**
- 19937 **Lavender Blue** **K**
- 19757 **Light Lavender**
- 19830 **Pink** **L**
- 21971 **Purple** **M**
- 22662 **Ruby** **N**
- 19831 **White** **O**
- 19832 **Yellow** **P**
- 22814 **Mix**

Spray

Quartet Series

Single flowered, spray type with strong stems and gorgeous flower spikes with pubescent leaves. Needs a pinch to make the spray cut branching. Height: 18-24 in.

- 15841 **Apricot** **Q**
- 15842 **Blue**. Lavender blue.

- 15843 **Cherry Blossom**. Pastel soft pink.

- 19226 **Deep Apricot**

- 15844 **Lavender**

- 15846 **Marine**. Light blue.

- 15848 **Purple** **R**

- 19227 **Red II**

- 15849 **Rose**

- 15850 **White**

- 15851 **Yellow**

Sunflower

See pages 90-93

Sweet Pea

Lathyrus odoratus

65°-70°F. 14 days. Cover seed.

Incense Mix

A selection of the most fragrant varieties.

- 19889 **Incense Mix**

Knee-Hi

Wonderful scent and beauty with shorter vines. Needs little or no support. Multiple 1 in. florets for excellent cut flower bouquets. Height: 2-3 ft.

- 24116 **Knee-Hi Mix**

Mammoth Series

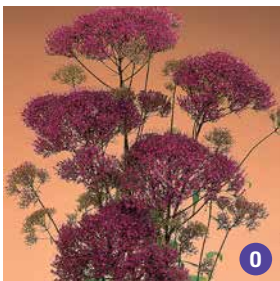
Long day or high light requirement type. Height: 5-7 ft.

- 16005 **Crimson**
- 16006 **Deep Rose**
- 16007 **Lavender**
- 16008 **Mid Blue**
- 16010 **Navy Blue**
- 16011 **Rose Pink**
- 16012 **Salmon Cream Pink**
- 16013 **Scarlet**
- 16014 **White**
- 16009 **Mix**

Old Spice Series

Smaller flowered but 3 to 4 times as fragrant as any summer blooming strain.

- 16015 **America**. Crimson with white stripes.
- 16016 **Black Knight**. Maroon/violet bicolor.
- 16017 **Captain of the Blues**. Deep mauve.
- 16018 **Cupani**. Purple with deep blue bicolor. **S**
- 16019 **Flora Norton**. Light Blue. **T**
- 18911 **Henry Eckford**. Orange.
- 16020 **Janet Scott**. Pink.
- 16021 **King Edward VII**. Crimson.
- 16022 **Lady Griselda Hamilton**. Pale lavender.
- 16023 **Lord Nelson**. Navy blue.
- 16024 **Miss Willmott**. Salmon pink.
- 16026 **Mrs. Collier**. Cream.
- 16027 **Painted Lady**. Rose with white bicolor.
- 16028 **Queen Alexandria**. Scarlet.
- 16025 **Mix**



NEW Spencer Series

Large, frilly, strongly scented flowers, on long stems. Late flowering, multiflora-type. Height: 6-7 ft. Climber.

- 16029 **Beaujolais Burgundy** **A**
16033 **Mix** **B**

Spring Sunshine Series

Ideal to follow Winter Sunshine series. Similar maturity to Mammoth series, with larger flowers. Very long, heavy stems, high yields. Bred specifically for commercial cut flower production. Outstanding heat tolerance. Resistant to bud drop. Typical scent.

- 19561 **Blush**
22931 **Burgundy** **C**
19562 **Cerise**
19563 **Champagne** **D**
19564 **Cream**
25715 **Mauve**
25716 **Nancy**
25717 **Orange**
19566 **Peach** **E**
19567 **White** **F**

Winter Elegance Series

Short day low light greenhouse production for winter flowering. Height: 6-12 ft.

- 16042 **Burgundy**
16043 **Deep Red**
16044 **Deep Rose**

- 16045 **Lavender**
16046 **Mid Blue**
16048 **Pink Diana**. Light pink.
16049 **Rose**. Rose pink.
16050 **Salmon Cream Pink**
16051 **Scarlet**
16052 **White**
16047 **Mix** **G**

Winter Sunshine Series

The earliest flowering cut flower strain, 100% winter flowering. Longer stems, clearer colors and better uniformity than Winter Elegance series. Excellent resistance to bud drop, with good heat tolerance, and high yielding. Fragrant.

- 22933 **Cream**
18914 **Lavender** **H**
25718 **Light Blue**
25719 **Mauve**
19531 **Mid Blue**
19532 **Navy** **I**
22934 **Opal** **J**
18916 **Pink**
18917 **Rose** **K**
18915 **White**

Sweet William See Dianthus

Trachelium

T. caeruleum

60°-70°F. 2-3 weeks. Do not cover seed.

NEW Corine Series

Bred for rapid bud formation make this series excellent for greenhouse production in early and late seasons. Also does well outdoors in warm weather. Uniform, large flower umbels on well branched plants. Height: 2 ½ ft. Pelleted seed.

- 26391 **Light Blue**
26392 **Lilac** **L**
26393 **Misty Blue**
25287 **Purple**
25288 **Red** **M**
26394 **White** **N**

Lake Series

Three distinct Lake series allow year-round production. Mildly scented, light and lacy flowers with excellent stem length, 30-42 in. Pelleted seed.

- Forest (Winter Flower)**
16156 **Purple**

Michigan (Spring & Autumn Flower)

- 16151 **Blue**
16152 **Purple**
16153 **Violet** **O**
16154 **White** **P**

Verbena

V. bonariensis

75°F. 5-10 days. Cover seed.

Finesse

Hardy in the South, best used as an annual in the North. Lilac-violet flowers on wiry 40 in. tall plants. Primed seed.

- 20805 **Finesse** **Q**

NEW Purple Haze

Produces round clusters of lavender to light purple flowers on well branched stems, summer through fall. Attracts butterflies and other pollinators. Height: 28-33 in. Spread: 12-16 in.

- 26908 **Purple Haze** **R**

CUT FLOWERS

SUNFLOWER



Item	Sunflowers	Bloom Season	Petals	Face	Stems	Pollen	Days	Plant Ht.	Note*
18081	Cutting Gold A	Spring, Summer	Golden Yellow	dark	Single	Yes	75-85	4-5 FT.	
15918	Double Quick Orange B	Spring, Summer, Fall	Double Orange	light	Single	No	60-70	5-6 FT.	
19833	NEW Double Sunking C	Summer, Fall	Double Golden Yellow	light	Branch	Yes	70-80	4-8 FT.	
15924	Florenza D	Spring, Summer	Bicolor Red/Light Yellow	dark	Branch	Yes	75-85	3-5 FT.	
15925	Floristan E	Spring, Summer	Bicolor Red/Yellow	dark	Branch	Yes	75-85	3-4 FT.	
18506	Full Sun Improved F	North Fall, South All	Golden Yellow	dark	Single	No	55-65	4-5 FT.	Big
15927-10M	Full Sun Improved TREATED	North Fall, South All	Golden Yellow	dark	Single	No	55-65	4-5 FT.	Big
15928	Goldburst G	Spring, Summer, Fall	Double Golden Yellow	light	Branch	No	60-70	5-6 FT.	
15933	Jade H	Spring, Summer	Lime White	light	Branch	No	50-60	3-4 FT.	
23975	Jua Inca TREATED I	Spring, Summer, Fall	Bicolor Mahogany/Gold	dark	Single	No	55-65	3-5 FT.	
23976	Jua Maya TREATED J	Spring, Summer, Fall	Golden Yellow	dark	Single	No	55-65	3-5 FT.	
25710-10M	NEW Luminoso Max TREATED	Spring, Summer, Fall	Orange	dark	Single	No	55-85	4-6 FT.	
26046	NEW Marley. Gloekner Exclusive. K	Spring, Summer, Fall	Bicolor Purple/Orange	dark	Single	No	55-65	4-6 FT.	
26047-10M	NEW Marley TREATED. Gloekner Exclusive.	Spring, Summer, Fall	Bicolor Purple/Orange	dark	Single	No	55-65	4-6 FT.	
15946	Music Box Mix L	Spring, Summer, Fall	Bicolor Mixture	dark	Branch	Yes	70-80	2-3 FT.	
18927	Orange Mahogany Bicolor M	Spring, Summer, Fall	Bicolor Mahogany/Orange	dark	Branch	No	70-80	5-6 FT.	
15949	Orange Sun Double N	Summer, Fall	Double Golden Orange	light	Single	Yes	70-80	4-8 FT.	
15959	Premier Lemon O	Spring, Summer	Lemon	dark	Single	No	45-55	4-5 FT.	
15960	Premier Light Yellow P	Spring, Summer	Cream Yellow	dark	Single	No	45-55	4-5 FT.	
23884	Premier Orange Q	Spring, Summer	Orange	dark	Single	No	45-55	4-5 FT.	
19576	Pro Cut Bicolor R	Spring, Summer, Fall	Bicolor Red/Orange	dark	Single	No	50-60	4-6 FT.	
19577-10M	Pro Cut Bicolor TREATED	Spring, Summer, Fall	Bicolor Red/Orange	dark	Single	No	50-60	4-6 FT.	
26943	NEW Pro Cut Bicolor DMR S	Spring, Summer, Fall	Bicolor Red/Orange	dark	Single	No	50-60	4-6 FT.	DMR
26944-10M	NEW Pro Cut Bicolor DMR TREATED	Spring, Summer, Fall	Bicolor Red/Orange	dark	Single	No	50-60	4-6 FT.	DMR
24105	Pro Cut Brilliance T	DLN All Seasons	Yellow/Orange	dark	Single	No	60-70	4-6 FT.	Big
19942-10M	Pro Cut Brilliance TREATED	DLN All Seasons	Yellow/Orange	dark	Single	No	60-70	4-6 FT.	Big
19941	Pro Cut Gold U	Spring, Summer, Fall	Golden Orange	light	Single	No	60-70	4-6 FT.	
26945	NEW Pro Cut Gold Lite DMR V	Spring, Summer, Fall	Golden Orange	light	Single	No	55-65	4-6 FT.	DMR
26485	NEW Pro Cut Horizon W	DLN All Seasons	Deep Orange	dark	Single	No	50-60	4-6 FT.	Up
26486-10M	NEW Pro Cut Horizon TREATED	DLN All Seasons	Deep Orange	dark	Single	No	50-60	4-6 FT.	Up

*Big = Double the space and these make big flowers; Dye = Respond well to absorption dyes; Up = Flowers are upward facing; DMR = Resistance to prevalent races of Downy Mildew

Seed Sense Ltd

NEW INTRODUCTIONS

PROCut®
OVER 50 YEARS OF BREEDING

CUT FLOWERS



WHITE LITE



ORANGE EXCEL



HORIZON



WHITE NITE



BICOLOR DMR



GOLD LITE DMR



ORANGE DMR

ALL PROCUT® VARIETIES ARE SINGLE STEM, POLLENLESS, F-1 HYBRIDS

DMR- NOW WITH DOWNY MILDEW RESISTANCE
BICOLOR, GOLD LITE, ORANGE

DLN- HORIZON IS DAY LENGTH NEUTRAL - CONSISTENT HIGH PERCENT USEABLE STEMS
- OVERLAPPING PETALS - UPWARD FACING FLOWERS

ORANGE EXCEL- DEEPEST ORANGE COLOR - EARLIER TO FLOWER - OVERLAPPING PETALS
- UPWARD FACING FLOWERS

WHITE LITE AND WHITE NITE - WHITE WITH LIGHT DISC (LITE) OR WITH DARK DISC (NITE)
- WHITE GOES WITH EVERYTHING, AND DYES WELL



CUT FLOWERS

SUNFLOWER



Item	Sunflowers	Bloom Season	Petals	Face	Stems	Pollen	Days	Plant Ht.	Note*
15963	Pro Cut Lemon A	Spring, Summer, Fall	Lemon	dark	Single	No	55-65	4-6 FT.	
15964	Pro Cut Orange B	Spring, Summer, Fall	Orange	dark	Single	No	50-60	4-6 FT.	Big
15965-10M	Pro Cut Orange TREATED	Spring, Summer, Fall	Orange	dark	Single	No	50-60	4-6 FT.	Big
26947	NEW Pro Cut Orange DMR C	Spring, Summer, Fall	Orange	dark	Single	No	50-60	4-6 FT.	DMR
26948-10M	NEW Pro Cut Orange DMR TREATED	Spring, Summer, Fall	Orange	dark	Single	No	50-60	4-6 FT.	DMR
25996	NEW Pro Cut Orange Excel D	Spring, Summer, Fall	Deep Orange	dark	Single	No	50-60	4-6 FT.	Up
25997-10M	NEW Pro Cut Orange Excel TREATED	Spring, Summer, Fall	Deep Orange	dark	Single	No	50-60	4-6 FT.	Up
24928	Pro Cut Plum E	Spring, Summer, Fall	Plum	dark	Single	No	55-65	4-6 FT.	
22294	Pro Cut Red F	Spring, Summer, Fall	Burgundy Red	dark	Single	No	55-65	4-6 FT.	
18514	Pro Cut Red Lemon Bicolor G	Spring, Summer, Fall	Bicolor Red/Lemon	dark	Single	No	50-60	4-6 FT.	
26470	NEW Pro Cut White Lite H	Spring, Summer, Fall	White	light	Single	No	55-65	4-6 FT.	Dye
25995	NEW Pro Cut White Nite I	Spring, Summer, Fall	White	dark	Single	No	55-65	4-6 FT.	Dye
15969	Ring of Fire J	Spring, Summer	Bicolor Red/Golden	dark	Branch	Yes	70-80	3-5 FT.	
15944	Rouge Royale K	Spring, Summer	Burgundy Red	dark	Branch	No	60-70	4-8 FT.	
19922	Ruby L	Spring, Summer, Fall	Dark Red	dark	Branch	No	60-70	5-6 FT.	
15980	Ruby Eclipse M	Spring, Summer	Bicolor Red/Lemon	dark	Branch	No	55-65	4-6 FT.	
26045-10M	NEW Solano Orange 14 TREATED N	Spring, Summer, Fall	Deep Orange	dark	Single	No	50-65	3-5 FT.	Big, Dye, Up
15973	Solar Power Bicolor O	Spring, Summer, Fall	Bicolor Red/Orange	dark	Branch	No	55-65	5-6 FT.	
15974	Solara P	Spring, Summer	Golden Yellow	dark	Single	No	70-80	4-5 FT.	
25874-10M	NEW Soleado Max TREATED	DLN All Seasons	Deep Orange	dark	Single	No	55-85	3-5 FT.	Up
15977	Sonja Q	Spring, Summer	Golden Orange	dark	Single	Yes	70-80	3-4 FT.	
15978	Soraya R	Spring, Summer	Golden Orange	dark	Branch	Yes	70-80	4-5 FT.	
15909	Starburst Lemon Aura S	Spring, Summer	Double Lemon	light	Branch	No	60-70	3-4 FT.	
15936	Starburst Lemon Éclair T	Spring, Summer	Double Lemon	dark	Branch	No	55-65	4-6 FT.	
15955	Starburst Panache U	Spring, Summer	Double Orange	dark	Branch	No	60-70	4-6 FT.	
15982	Sunbright V	Spring, Summer	Golden Yellow	dark	Single	No	60-70	4-5 FT.	
15983-10M	Sunbright TREATED	Spring, Summer	Golden Yellow	dark	Single	No	60-70	4-5 FT.	
15904	Sunbright Supreme W	Spring, Summer	Golden Yellow	dark	Single	No	55-65	4-5 FT.	

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Item	Sunflowers	Bloom Season	Petals	Face	Stems	Pollen	Days	Plant Ht.	Note*
15905-10M	Sunbright Supreme TREATED	Spring, Summer	Golden Yellow	dark	Single	No	55-65	4-5 FT.	
15986	Sungold Tall A	Summer, Fall	Double Golden Yellow	light	Single	Yes	75-85	4-8 FT.	
18518	Sunrich Gold B	Spring, Summer, Fall	Golden Orange	light	Single	No	55-65	3-5 FT.	Dye
15990-10M	Sunrich Gold TREATED	Spring, Summer, Fall	Golden Orange	light	Single	No	55-65	3-5 FT.	Dye
26414	NEW Sunrich Gold Summer C	Spring, Summer	Golden Orange	light	Single	No	50-65	3-5 FT.	
18519	Sunrich Lemon D	Spring, Summer, Fall	Lemon Yellow	dark	Single	No	55-70	3-5 FT.	
19764	Sunrich Lemon Summer E	Spring, Summer	Lemon Yellow	dark	Single	No	50-65	3-5 FT.	
19880	Sunrich Lime F	Spring, Summer, Fall	Lime	light	Single	No	55-70	4-5 FT.	
23885	Sunrich Limoncello Summer G	Spring, Summer	Bicolor Yellow/Cream	dark	Single	No	50-65	3-5 FT.	Dye
18520	Sunrich Orange H	Spring, Summer, Fall	Golden Orange	dark	Single	No	60-70	3-5 FT.	
15992-10M	Sunrich Orange TREATED	Spring, Summer, Fall	Golden Orange	dark	Single	No	60-70	3-5 FT.	
24171	Sunrich Orange DMR I	Spring, Summer, Fall	Golden Orange	dark	Single	No	60-70	3-5 FT.	DMR
15989	Sunrich Orange Summer J	Spring, Summer	Golden Orange	dark	Single	No	50-65	3-5 FT.	
26106	NEW Sunrich Provence Summer K	Spring, Summer	Deep Orange	dark	Single	No	50-65	3-5 FT.	Big
24885-10M	NEW Sunshine Max TREATED L	DLN All Seasons	Orange	dark	Single	No	55-85	3-5 FT.	Up
15998	Superior Gold M	North Fall, South All	Golden Yellow	dark	Single	No	60-70	5-6 FT.	
15997-10M	Superior Gold TREATED	North Fall, South All	Golden Yellow	dark	Single	No	60-70	5-6 FT.	
15995	Superior Sunset	North Fall, South All	Golden Orange	dark	Single	No	60-70	5-6 FT.	
15996-10M	Superior Sunset TREATED	North Fall, South All	Golden Orange	dark	Single	No	60-70	5-6 FT.	
16001	Tiffany N	Spring, Summer	Golden Yellow	dark	Single	No	60-70	4-5 FT.	
16002	Valentine O	Spring, Summer	Lemon Yellow	dark	Branch	Yes	70-80	4-5 FT.	
22270	Vincents Choice P	DLN All Seasons	Golden Yellow	dark	Single	No	50-85	4-5 FT.	Up
22269-10M	Vincents Choice TREATED	DLN All Seasons	Golden Yellow	dark	Single	No	50-85	4-5 FT.	Up
24929	Vincents Choice Deep Orange DMR Q	DLN All Seasons	Deep Orange	dark	Single	No	50-85	4-5 FT.	DMR, Up
24930-10M	Vincents Choice Deep Orange DMR TREATED	DLN All Seasons	Deep Orange	dark	Single	No	50-85	4-5 FT.	DMR, Up
22272	Vincents Fresh R	DLN All Seasons	Golden Orange	light	Single	No	50-85	4-5 FT.	Up
22271-10M	Vincents Fresh TREATED	DLN All Seasons	Golden Orange	light	Single	No	50-85	4-5 FT.	Up
18084	Zohar S	Spring, Summer	Golden Orange	dark	Single	No	55-65	3-5 FT.	

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CUT FLOWERS

ZINNIA



Zinnia

Z. elegans

70°-80°F. 5-10 days. Cover seed lightly.

Benary's Giant Series

Fully double 4-4 ½ in. Dahlia type blooms. Our leading commercial Cut Flower Zinnia series. Container: 6 in. to gallon. Height: 40-50 in. Spread: 12 in.

- 16449 **Bright Pink**
- 16450 **Carmine**
- 16451 **Coral**
- 16453 **Deep Red**
- 16454 **Golden Yellow**
- 16455 **Lilac**
- 16456 **Lime**. Not included in Mix. **A**
- 16458 **Orange**
- 16459 **Purple**
- 16460 **Salmon Rose**
- 16461 **Scarlet**
- 16462 **White** **B**
- 23855 **Wine** **C**
- 16457 **Mix**

Cactus Jewels (Cactus Flowered)

4-5 in. blooms. Height: 2-3 ft.
16463 **Cactus Jewels Mix**

Giant Dahlia Series

Double flowered 3 ½-4 in. blooms on long sturdy stems. Excellent low cost alternative to Benary Giants. Height: 3 ft. Spread: 28 in.

- 18939 **Canary Bird Yellow**
- 16572 **Dream Lavender**
- 16476 **Envy**. Chartreuse green.
- 16477 **Miss Willmott Pink**
- 16479 **Oriole Orange**
- 16571 **Purity White**
- 16570 **Royal Purple**
- 19856 **Will Rodgers Scarlet**
- 16478 **Mix** **D**

Macarena

Large 3 in. scarlet with gold tips double flowers. Strong plant habit, with excellent branching. Height: 25-30 in.

- 24776 **Macarena** **E**

Mazurkia

Large 3 in. scarlet with cream tips double flowers. Strong plant habit with excellent branching. Height: 25-30 in.

- 24777 **Mazurkia** **F**

Oklahoma Series (Pumila type)

1 ¼-1 ½ in. flowers are double and semi-double. Excellent cut flower. Container: 6 in. to gallon. Height: 30-40 in. Spread: 28 in.

- 16499 **Carmine**
- 16500 **Golden Yellow**
- 16503 **Pink**
- 16504 **Salmon**
- 16505 **Scarlet**
- 16506 **White**
- 16502 **Mix** **G**

Queeny Series (Formerly Queen Series)

Award winning series for its unique bicolors and strong lime color. Height: 2-3 ft. Spread: 18-20 in.

- 19902 **Lime** **H**
- 26443 **NEW Lime Blotch** **I**
- 26053 **NEW Lime Orange** **J**
- 19560 **Red Lime** **K**

Scabiosa Flowered Mix

Double 2-3 in. crested flowers which resemble scabiosa blooms. Height: 30 in.

- 24157 **Scabiosa Flowered Mix** **L**

State Fair (Giant Tetra)

Mammoth flower size and higher resistance to powdery mildew and alternaria. Height: 4 ft.

- 16548 **State Fair Mix**

Uproar Rose

Vivid electric rose color. Exceptional uniformity and flower quality. Height: 24-32 in.

- 16556 **Uproar Rose** **M**

Zowie Yellow Flame

Magenta-orange centers with yellow tips. Longest lasting bloom of all zinnia. Height: 24-30 in.

- 16563 **Zowie Yellow Flame**. AAS Winner. **N**

Zinderella Series

Scabiosa-flowered, robust plants. Excellent for cutting.

- 24778 **Lilac**. Pink dark eye. **O**
- 26058 **NEW Orange** **P**
- 24779 **Peach**. Ruby orange dark eye. **Q**
- 25264 **Purple** **R**
- 26059 **NEW Red** **S**
- 26060 **NEW White** **T**



Marigolds

Tagetes erecta

Tall Cut Flower

- Jedi - Orange, Gold, Yellow
- Garuda - Deep Gold, Yellow
- Oriental - Deep Gold, Gold, Yellow
- Mayan - Orange

Semi Tall

- Bali - Orange, Gold, Yellow
- Bindi - Orange
- Narai - Orange, Yellow, Creamy Yellow

Semi Dwarf, Dwarf

- Big Ducks - Orange, Gold, Yellow
- Little Ducks - Orange, Yellow



Little Ducks

- The most compact natural dwarf Marigold
- No PGRs needed
- Heat lover



Big Ducks

- Semi - dwarf variety
- Large Blooms
- Extremely heat tolerant
- Long lasting plants throughout the season



Mega Bloom

- The largest flowered Vinca F1
- Exceptionally heat, rain and Phytophthora tolerant
- Available in 16 colors

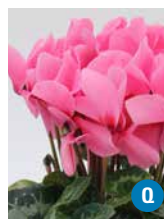
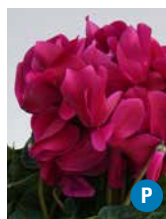
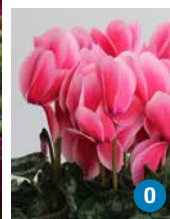


Holi

- Excellent blooms lasting all season long even after extreme heatwaves, droughts & rain
- Uniform dwarf compact habit
- Great choice for landscapes
- Available in 5 colors

POT PLANTS

ABUTILON



Abutilon

65°-75°F. 3 days. Cover seed.
Crop Time: 4 in., 11-13 weeks

Bella Select Series

The light green, multi-lobed leaves are similar to the foliage of a maple tree. Ideal for garden containers or as an indoor flowering houseplant. Large 3 in. bell-shaped blooms. Height: 14-18 in. Spread: 14-18 in.

11007 Bella Select Mix A

Calceolaria

C. herbeohybrida

65°-70°F. 10-15 days. Do not cover seed.
Crop Time: 4 in., 18-20 weeks

Dainty Series

Small, compact growth habit for high density production. Thick 2 in. flower pouches give some disease tolerance to Botrytis. Pelleted seed. Height: 8 in. Spread: 6 in. All colors in price booklet.

17184 Dainty Mix B

Campanula

C. medium

Appeal Series

Genetically compact plants can be produced under low temperatures but do not need cold to flower. Good in 5-6 in. pots. Crop Time: 19 weeks. Height: 8 in. Spread: 10 in. Pelleted seed.

22293 Deep Blue C

23670 Pink D

Campanella Series

Larger flowers, and more vigorous plants, which fill pots better with more flowers. Series has unique Lavender color. One week later to flower than others. Plug crop time: 6-7 weeks. Transplant to finish: 7-10 weeks. Height: 8-10 in. Spread: 8-9 in. Pelleted seed.

26501 Blue E

26502 Lavender F

26503 Pink G

Celosia

68°-72°F. 2-4 days. Cover seed lightly.
Plug crop time: 3-4 weeks
Transplant to finish: 4-6 weeks

C. cristata

NEW Concertina Series

Wide color range. Best used as indoor potted plant or in sunny spot outdoors on patio. Height: 8-10 in. Spread: 6-8 in. Coated seed.

26505 Pink H

26506 Purple I

26507 Red J

26508 Red Dark Leaf K

26509 Yellow L

26504 Mix M

Cineraria

Senecio cruentus

70°F. 10-14 days. Do not cover seed.
Crop Time: 4 in., 19-22 weeks

Jester Series

High percentage of bicolors. Small leaves. Suitable for winter and early spring sales.

Containers: 4-6 in. Height: 8-10 in. Spread: 8-10 in. Pelleted seed. All colors in price booklet.

20084 Jester Mix N

Cyclamen

C. persicum

65°-68°F. 28-32 days. Cover seed.
Crop Time: Packs, 36-40 weeks

Jumbo (6-7 in. & up pots)

Magnia Series

Very large flowers on firm, round, compact plant, with many leaves.

27020 NEW Deep Purple

25258 Deep Rose Light Edge O

25259 Light Pink Eye

27021 NEW Light Rose

27022 NEW Pink

25260 Purple P

25261 Red

25262 Salmon Eye Q

25263 White

25338 Mix Easy R



Mammoth Series

Extremely large blooms on strong flower stems. Height: 14-16 in. Spread: 9-12 in.

- 23574 Cream White
- 23576 Dark Violet **A**
- 23573 Light Salmon Pink
- 23578 Neon Flamed
- 23575 Neon Pink
- 25105 Orchid **B**
- 23572 Red
- 24535 Salmon Flamed
- 23579 Violet Flamed
- 25106 Wine Red **C**
- 23580 Wine Red Flamed **D**
- 23581 Mix Flamed
- 22910 Mix **E**

Rainier Series ✂

Jumbo size for 6-8 in. pots. Can use as cut flower. To harvest, push stem down, then pull up. Crop Time: 31-35 weeks. Height: 14-16 in.

- 19026 Light Pink w/Eye
- 19027 Lilac
- 20111 Pink
- 19029 Purple
- 20112 Purple Flame
- 27016 **NEW** Rose

- 19030 Rose Deep
- 19031 Salmon Deep
- 19032 Scarlet **F**
- 19033 White
- 22311 Wine Flame **G**
- 19028 Mix

Standard (5-6 in. & up pots)

Contiga Series

Larger flowers, small leaves, and compact habit.

- 27027 **NEW** Deep Salmon **H**
- 27023 **NEW** Lilac Flamed **I**
- 25251 Magenta
- 27028 **NEW** Neon Rose **J**
- 25254 Pink Light Edge
- 27026 **NEW** Purple **K**
- 25252 Purple Flamed
- 25253 Red
- 27024 **NEW** Red Early **L**
- 25255 Salmon
- 25256 Salmon Flamed
- 27029 **NEW** Shine Deep Rose **M**
- 27030 **NEW** Shine Purple **N**
- 25257 White
- 27025 **NEW** Wine Red Flamed **O**
- 25824 Mix Easy

Fleur en Vogue Series

Unique umbrella shaped flowers make this a premium product. Up to 35% of the plants may produce standard flowers. Height: 12-14 in. Spread: 12-14 in.

- 23168 Pink
- 22307 Purple **P**
- 22308 White

Friller Series

Frippy blooms. True F-1 hybrid vigor, uniformity, and branching. Up to 3 weeks earlier than other fringed types. Height: 12-16 in. Spread: 12-16 in.

- 23649 Pink
- 21071 Purple
- 21072 Salmon
- 21073 Scarlet
- 21074 White
- 22309 Wine
- 21069 Mix Flame
- 21070 Mix **U**

Maxora Fringed Series

Early, large flowered, compact habit. Beautiful fringed petals.

- 22920 Deep Rose **R**
- 22919 Deep Salmon **S**

- 22921 Light Salmon
- 23386 Magenta
- 22923 Light Pink Eye
- 22924 Purple **T**
- 22816 Red
- 22922 White **U**
- 22703 Mix Easy

Sierra Synchro Series

The Synchro grouping are varieties in a series which are very uniform in timing and habit.

- 12120 Deep Rose
- 12121 Deep Salmon
- 12122 Light Pink w/Eye **V**
- 12133 Purple
- 12124 Purple Flame
- 12134 Rose
- 26242 **NEW** Salmon Flame **W**
- 12136 Scarlet
- 12138 White
- 12139 Wine Flame
- 19739 Mix

POT PLANTS

CYCLAMEN



Cyclamen *continued*

Snowridge Maxi Series

Novelty color addition to Sierra series. Flowers have a distinct white picotee edge. Large flower size, early to bloom, and centrally flowered. Holds up well to botrytis pressure and heat stress.

23169 Purple
23650 Rose **A**
23651 Scarlet **B**
24967 Wine **C**

Winter Ice Series

First silver leafed large flowered F1 cyclamen. Close relationship to wild types, so tougher in the garden. For 4-6 in. pots. Crop Time: 28-32 weeks. Height: 12-14 in.

19042 Purple
20114 Rose
19043 Salmon
20115 Scarlet **D**
19044 White
19045 Mix

XL Series

Large blooms on a compact, rounded plant. Strong flower stems. Improved for uniformity in timing. Height: 12-14 in. Spread: 8-10 in.

24611 Cream White
12191 Dark Salmon Pink
12192 Dark Violet
24612 Light Eye
12194 Light Salmon Pink
24613 Light Violet
12197 Neon Flamed
12198 Neon Pink
24614 Orchid
12199 Pure White
12200 Red
25472 Red Fuji **E**
24615 Salmon Flamed
27019 **NEW** Salmon Fuji
24616 Violet Flamed
24617 White Eye
22197 Wine Red
12201 Wine Red Flamed
26628 **NEW** Wine Red Fuji **F**
12193 Mix Flamed **G**
12196 Mix **H**

Intermediate (4-4 1/2 in. pots)

Allure Series

Suitable for phased growing. Offers very uniform flowering. Blooms open like an explosion of color! Height: 10-12 in. Spread: 7-9 in.

24512 Cream White
24513 Dark Salmon Pink
24514 Dark Violet
25455 Dark Violet Fuji **I**
26303 **NEW** Dark Violet Solar **J**
26626 **NEW** Deep Salmon Flamed **K**
25454 Lavender **L**
26627 **NEW** Light Eye **M**
24515 Light Neon Pink
24516 Light Salmon Pink
24517 Light Violet
24519 Neon Flamed
24520 Neon Pink
25100 Neon Pink Fuji
25103 Orchid
24521 Pure White
24522 Red
25101 Red Fuji **N**
24523 Salmon Flamed
24524 Violet Flamed

24525 White Eye
24526 Wine Red
24527 Wine Red Flamed
25456 Wine Red Fuji **O**
24518 Mix **P**
25102 Mix Solar

Fantasy Mix

Large fringed flowers. Adapted for winter blooms between Nov. and Jan. Resistant to botrytis.

24092 Fantasy Mix

Frange Tetra Striata

Large flowers. Original color – streaks of purple and violet (orchid color).

24093 Frange Tetra Striata **U**

Frizzelia Series

Early fringe variety. Robust for autumn blooms. Good compactness and uniform flowering between colors.

24765 Victoria Salmon
24094 Victoria Wine Red **R**
24150 Mix **S**



Laser Synchro Series

The Synchro grouping are varieties in a series which are very uniform in timing and habit. Laser is the most uniform series. Height: 10-12 in. Spread: 10-12 in. Primed seed.

- 25568 Pink
- 25569 Pink Flame
- 25570 Purple
- 25571 Purple Flame
- 25572 Rose Flame
- 25573 Salmon
- 25574 Scarlet **A**
- 25575 White
- 25576 Wine
- 25577 Wine Flame
- 25567 Mix

Merengue Series

Frilly fringed flowers on firm stems. Slightly, open plant structure. Height: 10-12 in. Spread: 7-9 in.

- 26296 Dark Violet **B**
- 26298 Light Salmon Pink **C**
- 26295 Magenta **D**
- 26300 Neon Flamed **E**

26297 Neon Pink **F**

26301 Pure White **G**

25473 Salmon Red **H**

26299 White Eye **I**

26294 Wine Red **J**

26302 Mix

Perfetto Series

Earliest large flowering cyclamen. Large, high quality flowers on a compact, round-shaped plant. Height: 10-12 in. Spread: 10-12 in.

- 24297 Deep Rose
- 25587 Purple Flame
- 24300 Rose Flame **K**
- 26241 **NEW** Salmon Flame **L**
- 24301 Salmon with Eye
- 24302 Synchro Salmon
- 24303 Synchro Scarlet
- 24304 Synchro Violet
- 24305 Synchro White
- 24306 Wine Flame
- 24298 Mix Flame
- 24299 Mix Synchro

Rembrandt Series

Distinctive silvery foliage on strong, full plants. Loaded with long-lasting, gorgeous flowers on firm stems. Height: 10-12 in. Spread: 7-9 in.

- 24584 Dark Violet
- 24585 Light Eye
- 25463 Light Violet
- 25108 Neon Flamed
- 24587 Neon Pink
- 25462 Orchid
- 24588 Pure White
- 24589 Salmon Red
- 24590 Wine Red
- 24586 Mix

Rocolina Series

Unique and uniform. Fragrant, Rococo-shaped, frilled flowers.

- 25723 Dark Pink
- 25724 Deep Purple
- 25725 Deep Salmon
- 25726 Light Pink
- 25727 Lilac
- 25728 White
- 25722 Mix Easy

Snowridge Midi Series

Thick petals with distinct white edge. Earlier and more free flowering than other intermediates. Holds up to Botrytis and heat stress. Height: 10-12 in. Spread: 10-12 in.

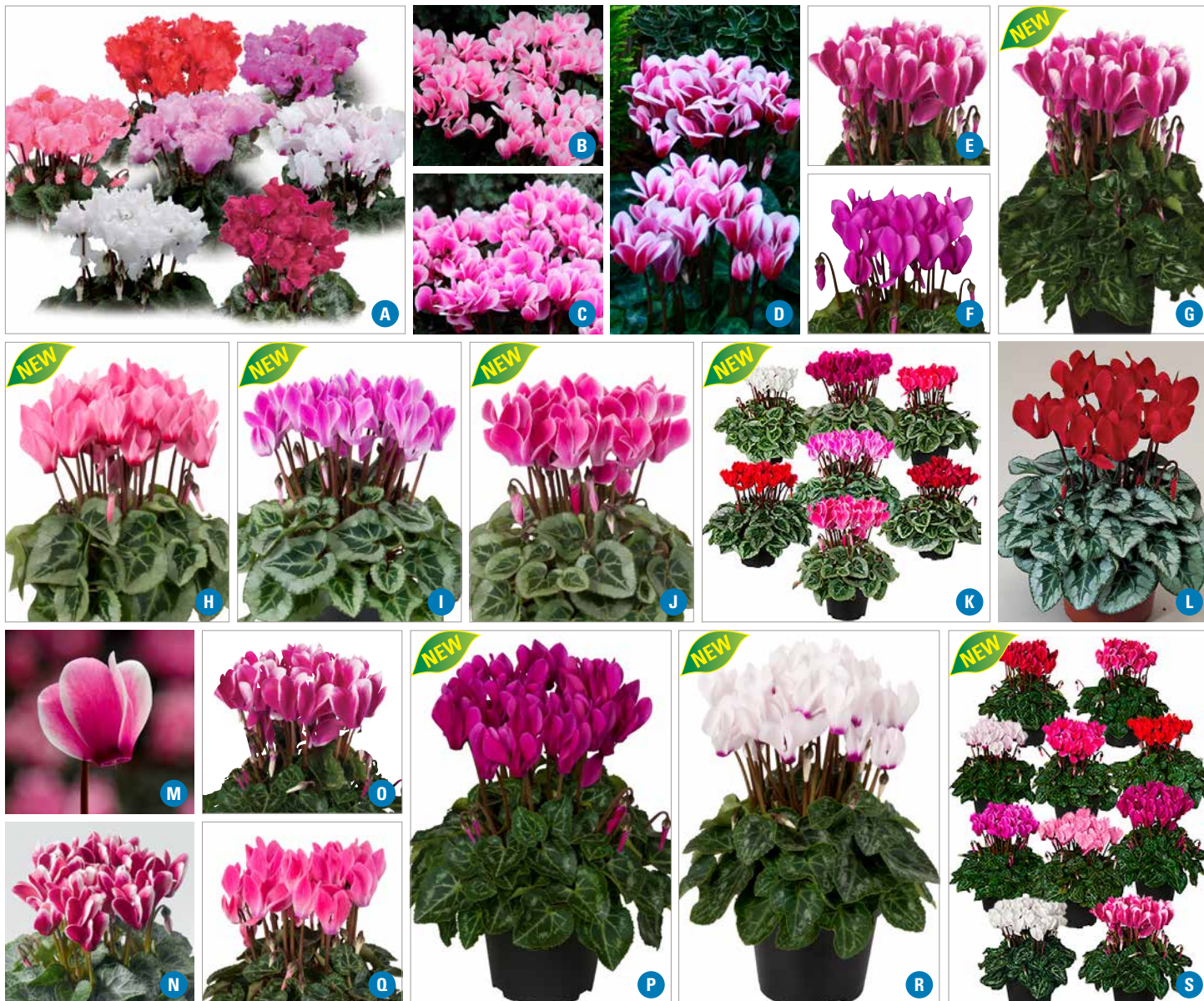
- 23647 Purple
- 24296 Scarlet
- 23648 Wine

Miniature (2 1/4 in. pots)

Donatello Series

Mini, silverleaf, great for landscapes. Flowers June through December. Crop time: 25-27 weeks. Height: 6-10 in. Spread: 6-8 in.

- 26605 Cream White **M**
- 26607 Dark Violet **N**
- 26608 Deep Wine Red **O**
- 26606 Neon Pink **P**
- 26603 Red **Q**
- 26604 Salmon Eye **R**
- 26609 Wine Red Flamed **S**
- 26610 Mix



Cyclamen *continued*

Frou Frou Series

Mini to mid-sized with bright, shimmering colors. Compact and easier to cultivate than the older generation. Flowers remain well feathered.

24091 Frou Frou Mix **A**

Goblet Series

Beautiful chalice shaped flowers. Extremely strong weather tolerance makes suitable for outdoors.

25748 Shine Pink **B**

25749 Shine Purple **C**

25751 Shine Wine Red **D**

Mini Winter Series

More open plant structure, suitable for cooler, damper climates. Great indoors and thrives outdoors. Use for late fall productions. Height: 8-10 in. Spread: 6-8 in.

24554 Cream White

24556 Dark Violet

25107 Dark Violet Fuji **E**

24557 Deep Dark Violet

24558 Deep Neon Pink

24559 Light Neon Pink

24560 Light Salmon Pink

24561 Light Violet **F**

26625 NEW Magenta Fuji **G**

24563 Neon Flamed

24564 Neon Pink

24567 Pure White

24568 Red

24569 Salmon Eye

24570 Salmon Flamed

24571 Violet Flamed

24572 White Eye

24573 Wine Red

25461 Wine Red Fuji

24574 Wine Red Flamed

12189 Mix

Picasso Series

Silvery foliage sets off beautiful, fragrant blooms. Open plant structure, ideal for outdoors and indoors. Height: 10-12 in. Spread: 6-8 in.

24575 Cream White

24576 Dark Violet

24577 Light Eye

24580 Neon Pink

24582 Red

26290 NEW Salmon Eye **H**

26291 NEW Violet Flamed **I**

24583 Wine Red

26292 NEW Wine Red Flamed **J**

24578 Mix

26293 NEW Mix Veranda Selections **K**

Silverado Series

Mini silver leaf. Slightly more vigorous than Miracle series. Height: 6-8 in.

12142 Purple

12145 Rose

12144 Scarlet **L**

12146 White

19345 Mix

Snowridge Mini Series

Distinct white edge in miniature plant.

21095 Purple

24969 Rose **M**

22312 Wine **N**

Verano Series

Tolerant of higher temperatures. Fast and very uniform flowering. Excellent for landscape use. Height: 6-10 in. Spread: 6-8 in.

27017 NEW Cream White Solar

24592 Dark Violet

25110 Dark Violet Fuji **O**

26288 NEW Dark Violet Solar **P**

24593 Deep Dark Violet

25468 Deep Neon Flamed Solar **U**

24594 Deep Salmon Flamed

24595 Deep Wine Red

24596 Light Eye

24598 Light Salmon Pink

24599 Light Violet

24600 Neon Flamed

24601 Neon Pink

25470 Neon Pink Fuji

24602 Orchid

25466 Pink Eye

24603 Pure White

24604 Red

25464 Red Solar

24605 Salmon Eye

24606 Salmon Flamed

25469 Salmon Fuji

24608 Violet Flamed

26287 NEW White with Eye **R**

24609 Wine Red

24610 Wine Red Flamed

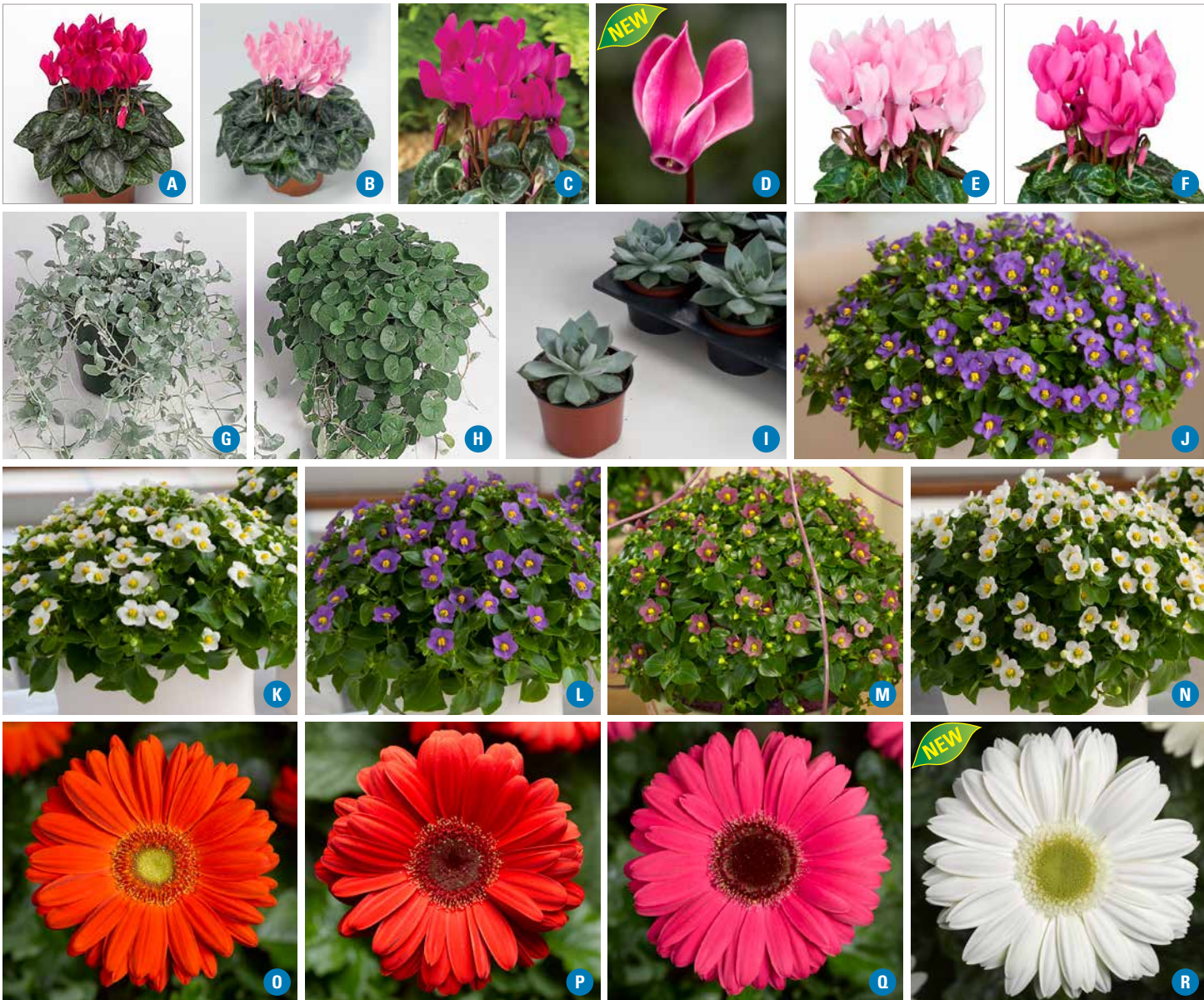
25471 Wine Red Fuji

24151 Mix

27018 NEW Mix Flamed

25465 Mix Solar

26289 NEW Mix Veranda Selections **S**



Winfall Series

Perfect for winter and fall, aptly named (Win-Fall). Plant them indoors or out. Sizes up under low temperatures, requiring less energy. Incredibly uniform habit and size. Height: 6-10 in. Spread: 6-10 in.

- 24968 Deep Rose **A**
- 21093 Pink Flame **B**
- 21094 Purple **C**
- 21096 Rose
- 21097 Salmon
- 21098 Scarlet
- 21099 White
- 22313 Wine
- 26243 **NEW** Wine Flame **D**
- 21092 Mix

Micro (2 in. pots)

Micro Series

Genetically compact — a great item for special marketing programs! Height: 6-10 in. Spread: 6-8 in.

- 24536 Dark Salmon Pink
- 24537 Dark Violet
- 24538 Deep Wine Red
- 24539 Light Salmon Pink
- 24541 Neon Flamed **E**

24542 Neon Pink

24543 Orchid **F**

24544 Pink Eye

24545 Pure White

24546 Red

24547 Salmon Flamed

24550 Violet Flamed

24551 White Eye

24552 Wine Red

24553 Wine Red Flamed

12188 Mix

Dichondra

72°-76°F. 4 days. Cover seed lightly.

Crop Time: 4 in., 12-14 weeks

D. argentea

Silver Falls

Round, 1 in., fan-shaped silver foliage and stems. No pinch or PGR's. Trails: 3-4 ft. Height: 2-3 in.

12437 Silver Falls **G**

D. repens

Emerald Falls

Rounded green foliage. Plants branch fuller than Silver Falls. Trails: 3-4 ft. Height:

2-3 in. Multi-seed pellet.

12436 Emerald Falls **H**

Echeveria

E. peacockii (aka Desmetiana)

68°-72°F. 30 days.

Peacockii

Succulent glaucous leaves arranged in rosettes. Purple flower. Crop Time: 17-20 weeks. Height: 8 in. Spread: 5 in.

24180 Peacockii **I**

Exacum

E. affine

ExPlant Series

Long lasting sweetly fragrant flowers on compact plants. Low cost, fast production. Sell March to October. Plug: 5-6 weeks. Finish: 10-12 weeks. Pelleted seed.

Princess Series (Pot: 4.5 in. Height:

4.5-6 in.)

17322 Deep Blue **J**

25729 White **K**

Royal Dane Series (Pot: 2.25-5 in.

Height: 4.5-6 in.)

12500 Deep Blue **L**

17323 Deep Rose **M**

25730 White **N**

Gerbera

(Transvaal Daisy)

G. jamesonii

68°-72°F. 8-12 days. Cover seed.

Crop Time: 4 in., 22-24 weeks

Bengal Series

More vigorous with bigger plant habit. Great for large pots. Height: 8-10 in. Spread: 6-8 in. Coated seed.

24308 Orange **O**

24309 Orange with Eye

24310 Red with Eye **P**

24311 Rose with Eye **Q**

24312 White

26817 **NEW** White Eye **R**

24313 Yellow with Eye

24983 Mix

POT PLANTS

GERBERA



Gerbera *continued*

Cartwheel Series

Distinctive, semi-double flowers on sturdy, thick stems above robust, beefy plants. Crop Time: 17-21 weeks. Height: 16-18 in. Spread: 12-16 in. Coated seed.

22322 Chardonnay. Buttery yellow. **A**

22323 Glowing Ember. Light scarlet. **B**

23176 Strawberry Twist. Bicolor ranging from yellow with pink through deep strawberry with yellow. **C**

20198 Mix Autumn Colors **D**

NEW Colorbloom Series

Designed for retail market quarts. About 10 days faster to flower than competition. Uniform, short flowering window, less PGRs. Plug crop time: 6-7 weeks. Transplant to finish: 6-10 weeks. Height: 4-6 in. Spread: 6-8 in. Coated seed.

26516 Orange Yellow Bicolor **E**

26517 Cherry Light Eye **F**

26518 Deep Rose Light Eye **G**

26520 Red Light Eye **H**

26521 Yellow Dark Eye **I**

26519 Mix **J**

Elephant Series

Huge 6 in. scarlet flowers held high on sturdy, thick stems above robust, beefy plants. Crop Time: 17-20 weeks. For 6 in. and larger. Height: 16-18 in. Spread: 12-16 in. Coated seed.

22324 Scarlet

Majorette Series

Uniform in both earliness and habit. Easily programmable. Crop Time: 14-16 weeks. Height: 8-10 in. Spread: 10-12 in. Slick Coat seed.

25126 Blazing Eyes

25127 Bright White Dark Eye

25129 Orange Dark Eye

25130 Pink Halo

25131 Red Dark Eye

25133 Sunset Orange

25134 Yellow Dark Eye

25128 Mix

Revolution Series

Well shaped plant habit with dark green crisp foliage. At least 3 large flowers per plant at same stage, often more. Height: 12-16 in. Coated seed.

25138 Bicolor Red Lemon

25139 Bicolor Red White

25140 Bicolor Rose White **K**

24440 Bicolor Yellow Orange

24441 Bright Rose Light Eye

26524 NEW Deep Pink Light Eye **L**

23259 Golden Yellow Dark Eye

23949 Orange Light Eye **M**

12861 Pastel Orange

26094 NEW Red Dark Eye **N**

24443 Red with Light Eye

25366 Salmon Shades Light Eye **O**

23950 White with Light Eye **P**

19076 Yellow Light Eye

22535 Mix Select

Mega Revolution Series

Vigorous, bushy plants with very large flowers - beats competing series. Ideal for 6 in. and larger container size programs. Height: 12-16 in. Spread: 7-8 in. Coated seed.

26522 NEW Bright Orange Light Eye **Q**

23945 Bright Red Light Eye

26523 NEW Bright Rose Dark Eye **R**

25365 Deep Rose Light Eye

19071 NEW Orange Dark Eye **S**

25135 Orange Light Eye

20216 Rose Light Eye

24438 Salmon Rose with Light Eye

25136 Scarlet Red Light Eye

20217 Watermelon

25137 White Light Eye

21207 Yellow Dark Eye

22698 Mega Mix Select. Bright colors.

12845 Mega Mix Classic

Royal Series

Medium sized flowers in the richest red to the softest pink, vivacious yellows and crisp white. Early flowering, extremely floriferous plants produce continuously through the season. All have dark eye, unless noted. Height: 10-14 in. Spread: 8-12 in. Slick coat seed.

Single-Flowered

18663 Apricot

22457 Bicolor Red

12884 Deep Orange

18665 Deep Pink

12872 Deep Rose

12874 Golden Yellow

18666 Lemon. Light Eye.

18668 Orange Scarlet

12887 Peach

12889 Red

12894 White. Light Eye.

18670 Yellow

23871 Mix Growers Choice. Includes: white, lemon, deep rose, orange scarlet, apricot.

12888 Mix Premium. Well balanced blend of 10 colors.

12883 Mix Formula **T**



Semi-Double Flowered

20223 Deep Rose
18674 Watermelon

Royal Prince Series

More compact than standard Royal, with flowers of same size. Good in 4 in. pots. Height: 8-10 in. Spread: 6-7 in. Slick coat seed.

22455 Neon Violet

Flori Line Series

Wide and uniform collection of bold colored pot plants. Extraordinary two toned, vibrant basic colors, and special flower shapes. Available in Giant, Maxi, Midi, Mini, and Micro flower sizes. All are green centered unless noted BC for black centered.

Flori Line Giant Series (Jumbo 6-7 in. pots)

25245 Coral **A**
25246 Coral BC **B**
25247 Orange BC **C**
26991 **NEW** Orange
25248 Pink **D**
26992 **NEW** Red
25249 White **E**
25250 Yellow **F**
26452 **NEW** Mix

Flori Line Maxi Series (4 ½ to 6 in. pots)

22728 Coral
26993 **NEW** Dark Fireball BC
22723 Dark Purple
23559 Eyecatcher Purple BC **G**
22724 Eyecatcher Red BC
23560 Fireball BC
22725 Hot Pink
22726 Light Pink BC **H**
22727 Lilac BC
22733 Orange BC
22734 Orange
22735 Pink BC
22736 Pink
22737 Purple
22738 Red BC
22739 Red
22740 White BC
22741 White
22742 Yellow BC
22743 Yellow
26965 **NEW** Mix Spring
26966 **NEW** Mix Summer
22731 Mix Hot Summer
26967 **NEW** Mix Autumn
26968 **NEW** Mix Winter
26969 **NEW** Mix Patriotic
22732 Mix Spider **I**
22729 **NEW** Mix Select BC
22834 Mix Select

Flori Line Midi Series (4 to 5 in. pots)

22836 Bicolor BC
22757 Burgundy BC
22759 Dark Fireball BC **J**
22760 Dark Purple
22761 Eyecatcher Dark Purple BC **K**
22762 Eyecatcher Purple BC
22763 Eyecatcher Red BC
23561 Eyecatcher Twilight BC **L**
22764 Fireball BC
22765 Lavender BC
22766 Lilac BC
22767 Lilac
26990 **NEW** Light Pink BC
22773 Monet BC **M**
22774 Orange BC
22775 Orange
22776 Pink BC
22777 Pink
22778 Red BC
22779 Red
22780 White BC
22781 White
22782 Yellow BC
22783 Yellow
26960 **NEW** Mix Spring **N**
26961 **NEW** Mix Summer **O**
26962 **NEW** Mix Autumn **P**
26963 **NEW** Mix Winter **U**
26964 **NEW** Mix Patriotic
22771 Mix Halloween BC

24775 Mix Pink Splash **R**
22835 **NEW** Mix Select BC **S**
22768 Mix Select

Flori Line Mini Series (3 ½ to 4 ½ in. pots)

23563 Contour BC **T**
22784 Dark Purple BC
23564 Eyecatcher Hot Pink BC **U**
22785 Eyecatcher Red BC
22787 Hot Pink **V**
22788 Lilac BC
22789 Lilac
22794 Orange BC
22795 Orange
22797 Pink BC
22798 Pink
22799 Red BC
22800 Red
22802 White BC
22803 White
22804 Yellow BC
22805 Yellow
26994 **NEW** Mix BC
22792 Mix Spider
22790 Mix



Gerbera *continued*

Flori Line Micro Series (2 ½ to 4 in. pots)

- 22744 Lilac BC **A**
- 23565 Margarita **B**
- 26995 **NEW** Orange BC
- 22749 Orange
- 22750 Pink BC
- 22751 Purple **C**
- 22752 Red BC
- 22753 Red **D**
- 22748 Sunrise BC
- 22754 White
- 22755 Yellow BC
- 22756 Yellow
- 22746 Mix BC
- 22745 Mix

Sundayz Series

Sturdy plants designed for use on balcony and terrace. Slow aging double flowers with long lasting bold colors. Compact and uniform plants with excellent outdoor performance. Available in Maxi, Midi, Mini, and Micro flower sizes. All are green centered unless noted BC for black centered.

Sundayz Maxi Series (4 ½ to 6 in. pots)

- 24860 Red BC **E**
- 22730 Mix **F**

Sundayz Midi Series (4 to 5 in. pots)

- 25706 Berries & Cream BC **G**
- 26997 **NEW** Red BC
- 22807 Mix **H**

Sundayz Mini Series (3 ½ to 4 ½ in. pots)

- 23566 Bicolor BC **I**
- 22806 Lilac
- 22809 Orange **J**
- 22810 Pink **K**
- 26996 **NEW** Purple
- 22811 Red
- 22812 White **L**
- 22813 Yellow
- 23567 Mix **M**

Sundayz Micro Series (2 ½ to 4 in. pots)

- 22747 Mix **N**

Gloxinia

G. sinningia

65°-70°F. 15-25 days. Do not cover seed.

Avanti Series

Ideal for the 4-5 in. pot market. Extremely flexible leaves, for shipping ideal. Height: 6-8 in. Spread: 8-10 in. Pelleted seed. All colors in price booklet.

- 12906 Avanti Mix **O**

Brocade

Blooms are 100% double and leaves are small. Uniform, compact strain ideal for 4-5 in. pot production. Height: 5-7 in. Spread: 7-8 in.

- 12913 Brocade Mix **P**

Godetia

Clarkia amoena

70°-75°F. 4-7 days. Cover or uncover seed.

Satin

2 in. blooms in an attractive range of colors. Grow at 50°-60°F in sunny, well ventilated houses. Do not overfeed. Sow December-February to bloom April-May. Height: 8 in. Spread: 8-12 in.

- 12933 Satin Mix **Q**

Helichrysum

H. microphyllum

70°-75°F. 7-10 days. Cover seed lightly.

Silver Mist

Silver foliage and stems. ¼ in. round, finely textured leaves. Full, mounted and spread-

ing habit. Branches well without pinching. Prefers full sun. Crop Time: 11-14 weeks in 4 in. pot. Height: 6-8 in. Spread: 18-24 in. Multi-seed pellet.

- 13025 Silver Mist **R**

Hypoestes See Bedding Plants

Lavatera

L. trimestris

68°-72°F. 4-6 days. Cover seed.

Crop Time: 4 in., 14-16 weeks

Novella

Compact and well branched. Produces large funnel-shaped, single rose-pink flowers in summer and autumn. Ideal for mid-summer pot sales. Height: 20 in. Spread: 12 in.

- 23832 Novella **S**



Mimulus

M. hybrid

60°-70°F. 14-21 days. Do not cover seed.

Crop Time: Packs, 8-9 weeks

Magic Series

Most compact and earliest Mimulus available. Flower Size: 1 3/4-2 in. Height: 10 in. Spread: 12 in. Pelleted seed.

13789 **NEW** Mix **A**

13785 Mix Blotch **B**

22347 **NEW** Mix Spring Blossom **C**

Morning Glory

Also see Bedding Plants

Ipomoea

68°-75°F. 6-14 days. Cover seed.

Cameo Elegance

Leaves are variegated. Single 1-1 1/2 in. red flowers with white throat that bloom profusely. The plants like low fertile soils and dry conditions. Short 3 ft. vines.

13813 **Cameo Elegance** **D**

Sun Smile Series (a.k.a. Good Morning) **E**

Creamy white variegated foliage and white edge with white throat picotee flowers. Attractive plant even when not in bloom.

Flower Size: 3-4 in. Compact vine. Scarified seed.

13818 **Blue**

13819 **Pink**

13820 **Red**

13821 **Violet**

Pepper Ornamental

Capsicum annuum

Also see Bedding Plants and Cut Flowers

72°-76°F. 5-7 days. Cover seed.

Crop Time: Packs, 11-14 weeks

Blaze

Large fruit matures yellow to red. Compact with excellent branching. Plug: 4-5 weeks. Finish: 7-13 weeks. Height: 4-8 in. Spread: 4-8 in.

25384 **Blaze** **F**

Conga

Dark Purple foliage with fruits that turn purple to deep orange. Ready for sales two weeks earlier because fruits are an attractive purple color at the start. Height: 4-6 in. Spread: 5-8 in.

23876 **Conga** **G**

Cubana Series

Large oval 1.8 x 0.8 in. fruit on top of vigorous plants. Clear colors with long shelf life. Height: 6-8 in.

22466 **Deep Orange** **H**

22469 **Multicolor Orange** **I**

22470 **Multicolor Red** **J**

22471 **Red** **K**

22472 **Yellow** **L**

22468 **Mix**

Genesis Dwarf Little Series

Compact, very hardy and vigorous. Round, 1 in. diameter fruit. Crop time: 60-80 days. Height: 10 in. Spread: 10 in.

26988 **Blue** **M**

Hot Pops Series

Orange and purple, small, round, very hot fruit. Compact, heavily branched habit. Best in 4 in. pots. Plug: 4-5 weeks. Finish: 8-12 weeks. Height: 4-5 in. Spread: 6-8 in.

25163 **Purple** **N**

25974 **NEW** **Yellow** **O**

Medusa

Dwarf, naturally compact, well-branched plant well-suited to 4 in. pot plant culture. Perfect for the fall indoor plant market. Medusa will bring life to Halloween and Christmas sales. Height: 6-8 in.

14302 **Medusa** **P**

Treasure Red

Foliage is rich dark green with upright conical pointed white to red fruits. Height: 8-10 in.

14337 **Treasure Red** **Q**

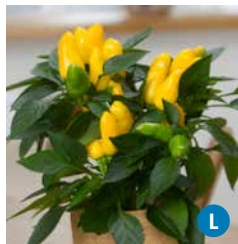
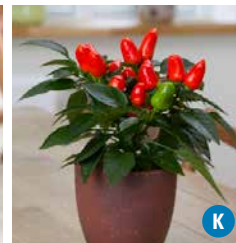
Wicked

Large fruit matures purple to red. Compact with excellent branching. Plug: 4-5 weeks. Finish: 7-13 weeks. Height: 6-8 in. Spread: 5-7 in.

25385 **Wicked** **R**

POT PLANTS

PEPPER ORNAMENTAL



Pepper Ornamental *continued*

Ornamental Peppers

Item	Variety	Fruit Color	Pot Size (in.)	Fruit Size (in.)	Height (in.)	Potting to Sale (weeks)	Sales Period
25774	Acapulco	Multicolor A	4.25-5	0.5 x 1.5	6	12-13	July to Oct.
25775	Acapulco	Orange	4.25-5	0.5 x 1.5	6	12-13	
25776	Acapulco	Purple	4.25-5	0.5 x 1.5	6	12-13	
25777	Acapulco	Red	4.25-5	0.5 x 1.5	6	12-13	
25778	Acapulco	Yellow	4.25-5	0.5 x 1.5	6	12-13	
25779	Coba	Black to red B	4.25-5	0.75 x 1	6	12-13	
25780	Cupala Red	Lime to red C	4-4.5	0.3 x 2.75	4.5	11-12	
25781	Harlequin	Multicolor D	4.5-6	0.5 x 0.75	8	13-14	
25782	Joker	Red E	2.75-4.5	0.3 x 1.5	4.5	11-12	
25783	Paracho	Black to bronze F	4-5	0.3 x 1.5	4.5	12-13	
25784	Salsa XP	Dark Orange	2.25-4.25	0.3 x 1	4	12-13	
25785	Salsa XP	Purple G	2.25-4.25	0.3 x 1	4	12-13	
26547	Salsa XP	NEW Purple Yellow H	2.25-4.25	0.3 x 1	4	12-13	
25786	Salsa XP	Red I	2.25-4.25	0.3 x 1	4	12-13	
25787	Salsa XP	Yellow	2.25-4.25	0.3 x 1	4	12-13	
25788	Salsa XP	Yellow-Red	2.25-4.25	0.3 x 1	4	12-13	
25789	Salsa XP	Mixture	2.25-4.25	0.3 x 1	4	12-13	
25790	Samba	Dark Orange J	4-5	0.75 x 1.5	6	14-15	
25791	Samba	Orange	4-5	0.75 x 1.5	6	14-15	
25792	Samba	Red	4-5	0.75 x 1.5	6	14-15	
25793	Samba	Yellow	4-5	0.75 x 1.5	6	14-15	
25794	Samba	Mixture	4-5	0.75 x 1.5	6	14-15	
25795	Samba XL	Dark Orange K	4-5	1 x 2	4.5-6	14-15	
25796	Samba XL	Orange	4-5	1 x 2	4.5-6	14-15	
25797	Samba XL	Yellow L	4-5	1 x 2	4.5-6	14-15	
25798	Santos	Flare M	4-4.5	0.3 x 2	6	12-13	
25799	Santos	Orange	4-4.5	0.3 x 2	6	12-13	
25800	Santos	Yellow N	4-4.5	0.3 x 2	6	12-13	
25801	Zamora	Orange O	4-4.5	0.5 x 1.5	6	12-13	
25802	Zamora	Red	4-4.5	0.5 x 1.5	6	12-13	
25803	Zamora	Yellow P	4-4.5	0.5 x 1.5	6	12-13	



Primula

Also see Bedding Plants

P. obconica

65°-68°F. 10-20 days. Do not cover seed.

Crop Time: 4 in., 5-6 months

Libre Series

Primin Free. Plants are strong and base branching. Height: 7-9 in. All colors in price booklet.

14986 Libre Mix **A**

Original Series

Large plant and flower size. Abundant, brightly colored, uniform blooms on thick, firm flower stems. Height: 7-9 in.

24040 Blue
24041 Blue White
24042 Dark Orange
24044 Magenta
24043 Pink
24045 Red White
24046 Violet
24047 White



Pricanto Series

Primin Free, as is Touch Me Series. Features vintage colored flowers with nostalgic edges. Strong and compact habit. Blooms October to May. Best in 4-5 in. pots.

26437 Blue **B**
26438 Lime **C**
26439 Red **D**
26440 Red Bicolor **E**
26441 Mix **F**

Touch Me Large Series

Primin Free. More compact habit than Libre. Smaller foliage in the right proportion to length of flower. Pot Size: 4.5 to 6.5 in. Total Crop Time: 18-24 weeks.

15051 Blue
15052 Blue-White **G**
15053 Dark Orange
26051 NEW Galaxy Magenta **H**
25708 Magenta
15067 Pink **I**
15069 Red-White **J**
26883 NEW Rose **K**
15064 Violet
15072 White
15066 Mix

Touch Me Midi Series

Primin Free. More compact habit than standard Touch Me series. Smaller foliage in the right proportion to length of flower. Pot Size: 4 to 4.5 in. Total Crop Time: 17-23 weeks.

15056 Blue-White
15057 Dark Blue **L**
15058 Dark Orange
25709 Magenta
15063 Red-White
26404 NEW Violet **M**
15065 White **N**
15060 Mix

Touch Me Mini Series

Primin Free. Genetically compact and can be grown with few PGRs. White is fastest, Blue is Middle and Magenta is a week later than the Blue. Pot Size: 3.5-4 in. Total Crop Time: 17-23 weeks.

25804 Dark Blue
26881 NEW Dark Orange **O**
25805 Magenta **P**
26882 NEW Red White **Q**
25806 White

Ranunculus

Also see Cut Flowers

R. asiaticus

50°-60°F. 14-21 days. Cover seed.

Crop Time: 4 in., 26-30 weeks

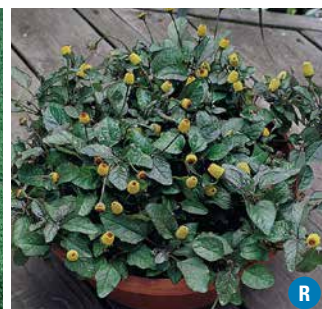
Bloomingdale II Series

Improved uniformity and earliness. Height: 10-14 in. Spread: 10-12 in. Pelleted seed.

26611 NEW Golden Yellow **R**
26612 NEW Orange **S**
26613 NEW Pink **T**
26614 NEW Red **U**
26615 NEW Rose **V**
26616 NEW White **W**
25183 Mix

POT PLANTS

RANUNCULUS



Ranunculus continued

NEW Dwarf Sprinkles Series
Compact version of Sprinkles, naturally round, compact, and requires almost no PGRs. Flowers remain close to the plant, creating a uniform, round appearance ensuring long flower life. Great for 4-5 in. pots. Height: 6-8 in. Coated seed.

26399 Dark Pink **A**
26730 Light Pink **B**
26398 Orange **C**
26400 Red **D**
26401 White **E**
26402 Yellow **F**
26403 Mix **G**

Mache Series

Strong stems hold up during shipping. Low PGR costs. Container: 4 in. pot. Total Crop Time: 20-25 weeks, plug 10-13 weeks. Height: 12-16 in. All colors in price booklet.
20694 Mix Bicolor **H**
15135 Mix

Magic Series

Consistently high and uniform seedling yields. Sow before October and plants will bulk naturally under short days, no PGRs. Total Crop Time: 22-24 weeks. Height: 6-8 in. All colors in price booklet.

24367 Pink & Peach
18846 Mix **I**

Sprinkles Series

Performs best in 4-6 in. pots and cool temps. Uniform blooms on a compact structure. Crop Time: 32-38 weeks. Height: 8-12 in. Spread: 6 1/2-11 1/2 in. Pelleted seed.

26396 NEW Light Pink **J**
25285 Orange **K**
24819 Pink
24818 Pink Bicolor
24820 Red
25707 Violet **L**
24857 Violet Bicolor **M**
24821 White
24822 Yellow
26397 NEW Yellow Red Bicolor **N**
24817 Mix **O**

Rudbeckia

Also see Bedding Plants and Cut Flowers

R. hirta

70°-72°F. 5-10 days. Cover or uncover seed.

Toto Series

Compact, well branched and early flowering. Single 3 in. flowers. Ideal for 4-5 in. pots. Height: 8-10 in. Filmcoated seed.

15173 Gold
15174 Lemon
15176 Rustic
15175 Mix **P**

Shamrock

Trifolium repens minus

65°F. 10 days. Cover seed.

True Irish

Popular St. Patrick's Day pot plant.
15300 True Irish **Q**

Spilanthes

S. oleracea

72°-76°F. 4 days. Cover seed lightly.

Crop Time: 4 in., 11-12 weeks

Peek-A-Boo

Very unique, oval-shaped golden yellow flowers with deep burgundy red eye. Long, pendulant stems. Sun to partial shade. 1 in. flowers. Foliage is bronze green in full sun. Height: 12-15 in. Coated seed.

15641 Peek-A-Boo **R**



Sunflower

Also see Bedding Plants and Cut Flowers

Helianthus annuus

68°-72°F. 5-10 days. Cover seed.

Bert
Perfect gift plant. Large flowered, pollenless, bright yellow flowers with chocolate center, lush green foliage. Crop time 8-10 weeks. Height: 14-16 in.

26324 Bert A

Big Smile

50-55 days. Upright 6 in. golden yellow flower with black center. Height: 12-15 in.

15910 Big Smile B

Choco Sun

Deep green foliage, golden yellow flowers with dark disc. Well branched. Total Crop Time: 10 weeks. Height: 10 in. Treated seed.

42560 Choco Sun C

Firecracker

55 days. Branching. Pollen-free red and gold 4 in. flowers. Height: 2 ft.

15923 Firecracker D

Little Dorit

Upright. Pollen-free golden 4-5 in. flowers with dark disc. Height: 2 ft.

15939 Little Dorit

Pacino Series E

Branching. 4-5 in. flowers. Height: 12-16 in.

15951 Cola. Gold w/dark disc.

15953 Lemon. Primrose yellow with green disc.

15952 Gold. Green disc.

Smiley

Day length neutral, pollenless, genetically dwarf, no PGRs needed. Golden yellow broad petals, with dark center. Best to direct sow. Crop time sow to flower: 8 weeks. Height: short days 5-8 in. Height: long days 13-16 in.

26677 Smiley F

SunBuzz

Clear yellow, dark centered blooms with more secondary flowers, and smaller leaves. Naturally dwarf, less PRGs. Plug crop time: 2-3 weeks. Transplant to finish: 6-8 weeks. Height: 12-20 in. Spread: 8-12 in. Treated seed.

26097 SunBuzz G

Solsation Series (formerly Sunsation)

55-60 days. Pollen-free and very compact plants. Black centers with overlapping petals. Height: 10-12 in. Spread: 10-14 in. Treated seed.

24829 Flame. Bicolor. **H**

24830 Lemon I

24831 Yellow J

26989 NEW Yellow Spirit

Sweet Pea

Lathyrus odoratus

65°-70°F. 14 days. Cover seed.

Villa Roma Series

Dwarf, bush, neatly mounded habit, ideal for containers. Flowers are sweet scented. Excellent overall attractiveness and garden performance. Height: 14 in.

16040 Carmine K

22683 Navy Blue L

22684 Pink

22685 Raspberry M

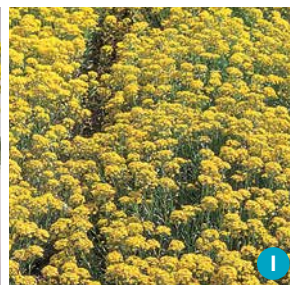
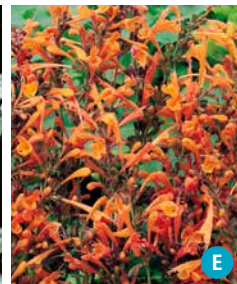
22686 Rose

16041 Scarlet N

22688 White O

22687 White w/Rose P

22689 Mix Full Q



Achillea

(Yarrow)

65°-72°F. 8-14 days. Do not cover seed. Flowers July-August. Zones: 3-8.

A. millefolium

Summer Series ✂

Fragrant fernlike foliage. Crop Time: 4 months. Height: 18-24 in. Spread: 18-24 in.

19943 Flower Burst Red shades (A)

11018 Summer Berries. Mix of deep colors. (B)

11019 Summer Pastels. AAS Winner. Pastel colors. (C)

A. ptarmica

The Pearl Superior

Fully double, lacy white blooms on compact plants. Blooms in 3 months on 10 in. plants. Second year plants reach 28 in.

11017 The Pearl Superior (D)

Agastache

60°-70°F. 4-8 days. Cover seed lightly. Flowers June-September

A. aurantiaca

Apricot Sprite

Dwarf, compact plants, with sweetly fragrant foliage. Height: 1 ½ ft. Spread: 12 in. Zones: 7-10.

11021 Apricot Sprite (E)

Arizona Series

First year flowering, drought tolerant, compact and uniform. Extremely floriferous with little care once established. Height: 8-10 in. Spread: 8-10 in. Zone: 6

23867 Sandstone Orange (F)

23868 Sun Yellow (G)

23869 Sunset Pink (H)

23870 Mix

Alyssum

62°-70°F. 10-25 days. Cover seed lightly. Flowers April-June

A. montanum

Mountain Gold

Stays prostrate with finely cut foliage covered in spring with fragrant bright yellow flowers. Height: 8 in. Zones: 5-9.

11074 Mountain Gold (I)

A. saxatile

Gold Dust

Dense heads of gold flowers. Height: 12 in. Zones: 3-8.

11072 Gold Dust (J)

Aquilegia

(Columbine)

A. caerulea

68-72°F. 14-30 days. Do not cover seed. Flowers May-June.

Biedermier

Attractive bushy plants. Bright colored blend. Height: 12-18 in. Spread: 10-12 in. Zones: 3-8.

11153 Biedermier Mix

NEW Kirigami Series ✂

More consistent flower timing, and larger habit. Ideal for garden beds, and cut flower gardens. Sow in October/November to produce flowering salable plants by April/May. Height: 14-24 in. Spread: 12-20 in.

26232 Deep Blue White (K)

26233 Light Blue White (L)

26234 Red White (M)

26235 Rose Pink (N)

26236 Yellow (O)

26237 Mix (P)

McKana's Giants

Large, long spurred flowers. A bright mixture of colors. Height: 2 ½ ft. Spread: 12-18 in. Zones: 3-8.

11163 McKana's Giants Mix

Arabis

(Rock Cress)

A. alpina or caucasica

70°F. 15 days. Do not cover seed. Flowers April-June. Excellent rock garden plant.

Spring Charm

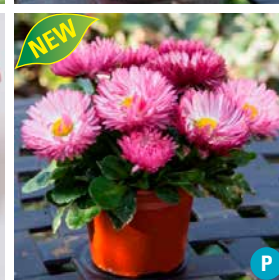
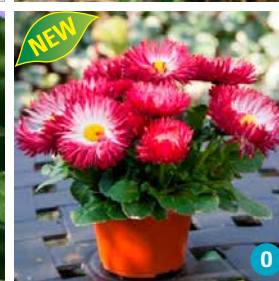
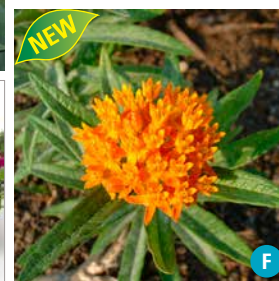
Carmine red. Height: 6-8 in. Spread: 8 in. Zones: 3-7.

11217 Spring Charm (Q)

Asclepias

(Butterfly Weed)

70°-75°F. 3-4 weeks. Cover seed lightly. Flowers July-August



A. curassavica

Red Butterfly ✂

Flat umbels of red/orange-yellow flowers for borders, patios, and cuts. Height: 3 1/2 ft. Spread: 1 1/2-2 ft. Zones: 4-9.

11238 Red Butterfly **A**

Silky Series ✂

Excellent cut flower bred for greenhouse and outdoor summer production. Prefers a warm, rather dry location. Height: 24-28 in. Spread: 10-12 in. Zones: 4-9. Rubbed seeds.

11239 Deep Red

11240 Gold **B**

11241 Mix **C**

A. incarnata

Milkmaid ✂

Creamy white hardy perennial. First year blooming as a border plant, mass planting and also a fine cut flower. Height: 40 in. Zones: 3-7.

11235 Milkmaid **D**

A. physocarpa (Gomphocarpus)

Hairy Balls ✂

Rounded, inflated pale green 'hairy' pods on long arching stems. Great in arrangements.

11237 Hairy Balls **E**

A. tuberosa

NEW Genesis Oro ✂

Bright orange flowers, followed by decorative pods. Fragrant, butterfly attracting, cut flower. Good vase life. Crop time: 80-90 days. Height: 30 in. Zones: 4-9.

26985 Genesis Oro **F**

Astilbe

A. arendsii

50°F.N-65°F.D 2-3 weeks. Do not cover seed.

Flowers May-July.

Astary Series

First astilbe that doesn't need vernalization to flower. Height: 8-10 in. Spread: 12 in. Pelleted seed. All colors in price booklet.

18998 Astary Mix **G**

Showstar

Compact bushy growth with tightly packed upright spikes. Attractive color range from white, cream, shades of pink and red.

Height: 12-16 in. Spread: 20-22 in. Zones: 4-9.

11418 Showstar **H**

Aubrieta

A. hybrida

65°-70°F. 8-15 days. Uncover seed.

Flowers early to mid-spring

Audrey Series

One of the earliest blooming perennials!

Low maintenance and very winter hardy.

Vibrant, long blooming flowers on compact plants. Height: 5 in. Spread: 4-6 in. Zones: 4-9.

19979 Blue

24956 Deep Blue Shades **I**

24957 Deep Purple Compact **J**

21006 Light Blue **K**

23645 Purple Shades **L**

24958 Red **M**

25582 Sky Blue **N**

Bellis

(English Daisy)

B. perennis

68°-75°F. 6 days. Do not cover seed.

Flowers April-May

NEW Bam Bam Series

No vernalization needed, so can sell in Spring and Fall along with pansies. Large 2-2.5 in. flowers, on compact plants with non-stretching stems. Height: 3-4 in. Spread: 5-6 in. Pelleted seed.

26745 Red **O**

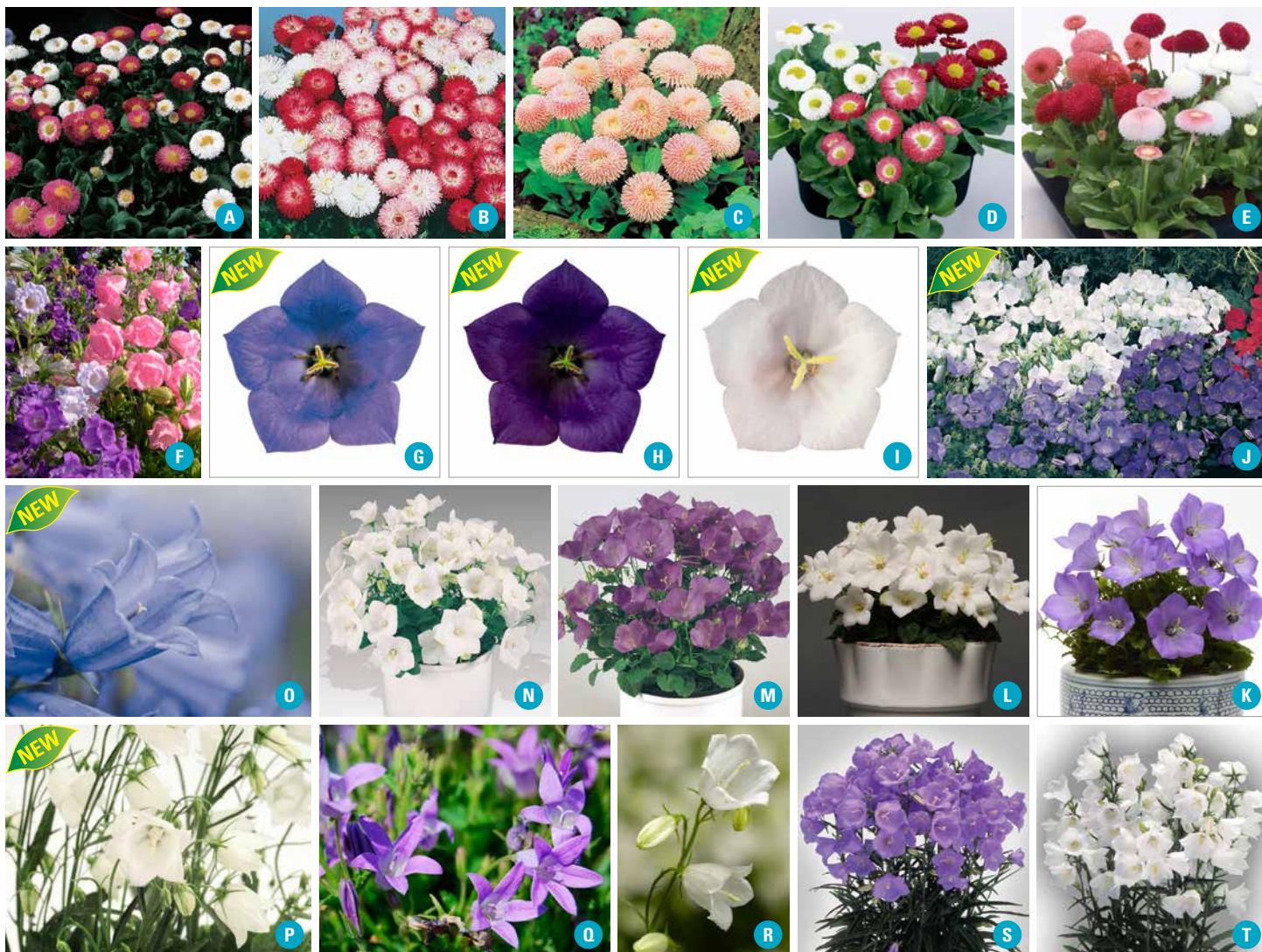
26746 Rose **P**

26747 Mix Formula

Bellisima Series

Large, fully double flowers. No vernalization needed. Big, vigorous landscape plants. Height: 6-10 in. Spread: 5-8 in. Zones: 4-8. Pelleted seed. All colors in price booklet.

11593 Bellissima Mix **Q**



Bellis *continued*

Galaxy Series

Semi-double pomponette flower shape with a yellow heart. Uniform and compact habit with 1 ¼ in. flowers. Ideal in pots or packs. Height: 4-8 in. Spread: 9-15 in. Zones: 4-8. Pelleted seed. All colors in price booklet.

11598 Galaxy Mix **A**

Habanera Series

Large, double ray type blooms on neat, compact plants. Excellent in the garden or pots. Height: 6 in. Spread: 6-8 in. Zones: 4-8. Pelleted seed. All colors in price booklet.

19014 Habanera Mix **B**

Robella

Very early flowering with large double salmon-pink flowers. Dwarf and compact habit. Height: 4-6 in. Spread: 6-8 in. Zones: 4-8.

11604 Robella **C**

Speedstar Plus Series

No vernalization needed to flower, but the cooler the better. Can be grown for both fall and spring sales. The most compact habit. Height: 4-6 in. Spread: 6-8 in. Pelleted

seed. All colors in price booklet.

24946 Mix **D**

Tasso Series

Large Pomponette. Compact with short, strong flower stems that bud up uniformly. Height: 4-6 in. Spread: 6-8 in. Zones: 4-8. All colors in price booklet.

11612 Tasso Mix **E**

Bergenia

B. cordifolia

72°-75°F. 12-21 days. Do not cover seed. Flowers March-April

Beauty Series

Large dark glossy foliage. Excellent for cut. Height: 20-24 in. Zones: 3-10.

11618 Rose

Campanula

68°-75°F. 14-25 days. Cover seed lightly. Flowers June-September

C. calycanthemum

Cup and Saucer

Canterbury Bells. Good for cutting. Biennial. Height: 1-3 ft. Spread: 1-3 ft. Zones: 2-8.

11668 Cup and Saucer Mix **F**

C. carpatica

NEW Clips Series

Significantly earlier crop time, with narrow flowering window. Crop time: 24 weeks. Height: 8 in. Zone 6-9. Pelleted seed.

26317 Blue **G**

26318 Deep Blue **H**

26319 White **I**

26701 Mix **J**

Rapido Series

Earliest carpatica variety on the market. A first year blooming perennial. Best-suited to high-volume, bench run pot plant programs. Showy blooms. Height: 5-7 in. Spread: 5-8 in. Zones: 3-9. Pelleted seed.

24110 Blue **K**

24111 White **L**

Pearl Series

Significantly earlier for reduced crop time. Compact habit with year round beauty. Height: 7 in. Spread: 10-12 in. Zones: 3-9. Pelleted seed.

24178 Deep Blue **M**

24179 White **N**

C. cochlearifolia

NEW Alpine Breeze Series

High value pot crop. Quick to finish, narrow flowering window, very floriferous. Crop time 16-19 weeks. 5 in. garden height, full sun, 16-19 weeks.

26320 Blue **O**

26321 White **P**

Swinging Bells Series

First year, no vernalization. Compact, upright, mounding habit. Pendulant, bell shaped flowers, under long days. Height: 8-12 in. Spread: 4-8 in. Zones: 3-8.

24964 Blue **Q**

24965 White **R**

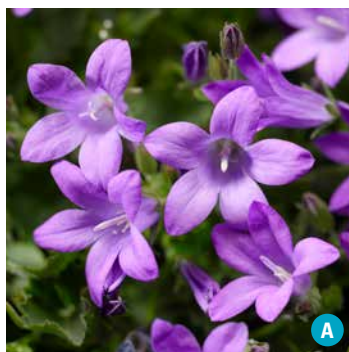
C. persicifolia

Takion Series

Beautiful upright 2 ½ in. bell-shaped flowers on upright spikes. Produces 6-8 branches for heavy flowering without pinching. Excellent pot crop. Container: 6 in. pots, gallons or mixed containers. Height: 16-20 in. Spread: 10-12 in. Pelleted seed.

17193 Blue **S**

17194 White **T**



C. portenschlagiana

Clockwise

Short culture — no need for PGR's. Plants completely covered with flowers will rebloom in autumn. Height: 8-12 in. Zone: 3
24295 Deep Blue A

Carnation

Dianthus caryophyllus

68°-70°F. 7-10 days. Cover seed. Flowers June-July.

Grenadin ✂

Bushy plants that are ideal for borders as well as cutting. The blooms are scented, double, early flowering and develop on strong stems. Height: 1 ½ ft. Spread: 10-12 in. Zones: 4-7.

11717 Grenadin Mix

Centranthus

C. ruber

60°-65°F. 14-21 days. Do not cover seed. Flowers May-July.

Pretty Betsy ✂

Improved deep red selection. Excellent cut flowers. Height: 3 ft. Spread: 1 ½-2 ft.

Zones: 5-8.

11878 Pretty Betsy

Snowcloud ✂

A specialty line for cut. Pure white. Height: 3 ft. Zones: 5-8.

11879 Snowcloud B

Chrysanthemum

(Shasta Daisy)

C. maximum

68°-75°F. 7-14 days. Do not cover seed. Flowers July-October. Zones: 4-9.

Alaska

Classic daisy 3 in. white flowers with yellow center. Height: 18-36 in. Spread: 12-24 in.

11890 Alaska C

Crazy Daisy

Fully double flowers, creamy white with yellow center. Height: 24-28 in. Spread: 12-18 in.

11891 Crazy Daisy D

Silver Princess

Medium size single white with yellow center flowers. Height: 12-15 in.

11895 Silver Princess E

C. vulgare (Tansy)

Gold Sticks ✂

Bred for outdoor cut flower production, useful as filler in mixed bouquets. Uniform, fast-growing base branching plants produce numerous long stems with golden yellow, button-like umbel flowers. A perennial to grow as an annual. Suitable for fresh or dry cut. Zones: 5-8.

11889 Gold Sticks F

Coreopsis

(Tick Seed)

C. grandiflora

68°-75°F. 7-21 days. Do not cover seed. Flowers May-June.

Andiamo

Uniform, vigorous, and well branched habit. Fills pots fast and flowers all summer. Height: 12-16 in. Spread: 6-8 in. Zones: 5-9.

24966 Yellow Red G



Double the Sun

First year flowering perennial. Compact, super early, semi-double, clear golden yellow flowers. Requires minimum 13 hour day length. Ideal in quart and gallon. Plug crop time: 5-7 weeks. Transplant

to finish: 9-12 weeks. Height: 12-14 in. Spread: 12-14 in. Primed seed. Zones 4-9.

26048 Double the Sun H

Early Sunrise ✂

A hardy perennial with golden yellow semi-double blooms. Ideal for landscape work and as a unique cut flower item. First year flowering. Height: 2 ft. Spread: 22-24 in. Zones: 4-9. Primed seed.

11969 Early Sunrise. AAS Winner. I

Sunburst

Large golden yellow, fully double flowers. Height: 2 ½-3 ft. Spread: 12-18 in. Zones: 3-10.

11972 Sunburst J

Sunfire

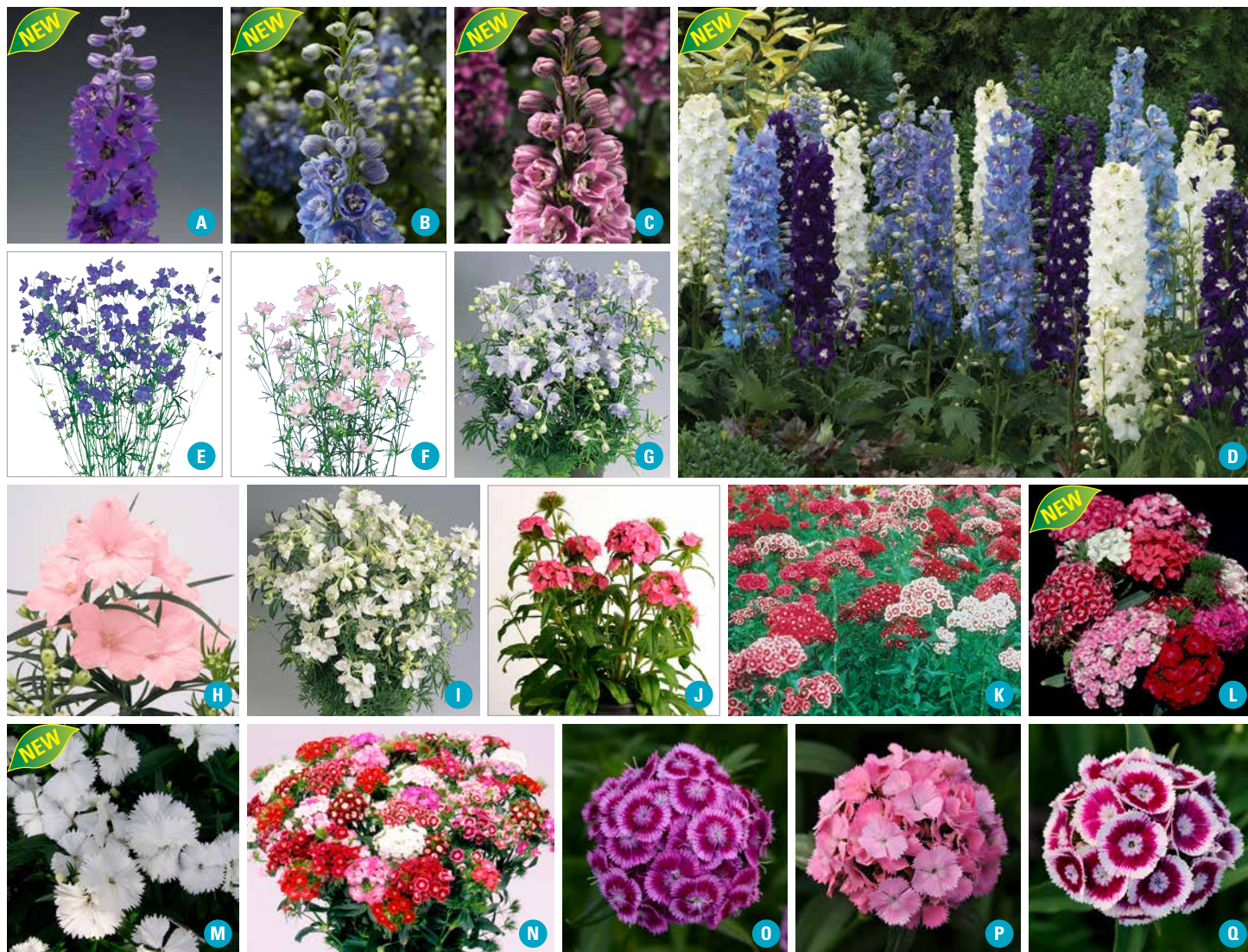
All of the outstanding traits of Rising Sun with a single flower form which lets you see the red center better. Height: 3 ft. Spread: 22-24 in. Zones: 4-9. Primed seed.

11973 Sunfire K

Sunkiss

Giant, brightest yellow flowers with large blotch. Requires less PGRs. Best in 4 in. pots. Plug: 5-6 weeks. Finish: 11-13 weeks. Height: 12-14 in. Spread: 14-16 in. Zones: 4-9. Primed seed.

25097 Sunkiss L



Delphinium

D. elatum

NEW Delphina Series
First-year flowering perennial. Naturally dwarf, compact, upright habit, needing less PGRs. Ideal for 2.5 quart and larger containers. Height: 14-18 in. Spread: 6-10 in. Zone 4-7.

- 26238 **Dark Blue Black Bee** **A**
- 25589 **Dark Blue White Bee**
- 25590 **Light Blue White Bee** **B**
- 25588 **Rose White Bee** **C**

Excalibur Series

Well branched and floriferous. For large pots and containers. Height: 21-31 in. Zones: 4-7.

- 24971 **Dark Blue Black Bee**
- 24972 **Dark Blue White Bee**
- 24973 **Light Blue White Bee**
- 24974 **Lilac Rose White Bee**
- 24975 **Pure White**
- 20136 **NEW Mix** **D**

D. grandiflorum

59°-68°F. 12-18 days. Cover seed. Flowers June-September. Zones: 3-7.

Planet Series ✂

Versatile crop, suitable for cuts, bedding, or pot production. Early to bloom. Height:

16-20 in. Spread: 8-10 in. Zones: 3-7.

- 25111 **Blue** **E**
- 25112 **Light Pink** **F**

Summer Series

Earlier to bloom with more heat tolerance. Used as a pot plant. Compact in habit, with an abundance of dense flower clusters. Height: 14 in.

- 12291 **Blues**. Powder blue. **G**
- 19686 **Cloud Bicolor**. Blue and white.
- 18643 **Morning**. Pink, unique. **H**
- 12293 **Nights**. Midnight blue.
- 12294 **Stars**. Pure white. **I**
- 12292 **Colors**. Blend of above.

Dianthus

(Sweet William)

D. barbatus

70°-72°F. 7-9days. Cover seed. Flowers June-August.

Dash Series

Naturally compact and well branched – less to no PGRs. Require no vernalization. Produce masses of fragrant blooms. Low-energy crop that can be grown cool for cost savings. Magician flowers open white and mature to shades of rose. Height: 15-20 in. Spread: 12-14 in. Zones: 4-9. Pelleted seed.

- 23934 **Crimson**
- 23935 **Magician**
- 22525 **Pink** **J**
- 22526 **Violet**
- 22527 **White**
- 22524 **Mix**

Electron ✂

All 'eyed' flower mix. Long stems topped with large flower heads, in a wide range of colors. Zones: 4-6.

- 12336 **Electron** **K**

NEW Genesis Volcano Mix ✂

First year flowering perennial. No vernalization required. Can grow as an annual. Excellent cut flower, long vase life. Crop time: 60 days. Wide range of colors: solid and bicolors. Height: 2 ft. Zone 4-8.

- 26977 **Genesis Volcano Mix** **L**

Hollandia Series ✂

Tall cutting type that can be grown as an annual. Contains a wide color range with many eyed types – pink, red, white, purple and shades. Does not flower all at once.

- 12348 **NEW White** **M**
- 12347 **Mix** **N**

Messenger ✂

Two weeks earlier than similar strains. Mixture of scarlet, deep red, red and white bicolor, salmon shades, white and a few others. An early cut flower. Height: 24 in. Spread: 12 in. Zones: 4-8.

- 12371 **Messenger Mix**

Provencal ✂

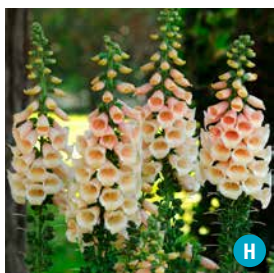
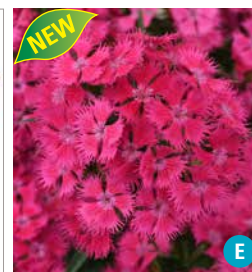
A truly quick crop. Greenhouse grown stems will average 24 in., somewhat shorter in field, but of very high quality. Excellent color range. Zones: 4-8.

- 12390 **Provencal Mix**

Sweet Series ✂

No vernalization required to flower in first year. Susceptible to fusarium. Height: 18-36 in. Spread: 10-12 in. Zones: 4-8. Pelleted seed.

- 23253 **Black Cherry**
- 12403 **Coral**
- 25113 **Deep Pink Maxine**
- 24431 **Magenta Bicolor** **O**
- 24432 **Pink Magic**
- 24433 **Pink** **P**
- 12405 **Purple**
- 22528 **Purple White Bicolor** **Q**
- 12408 **Red**
- 12409 **Scarlet**
- 12411 **White**
- 12404 **Mix**



NEW Super Duplex ✂

Improved tall double mix. Variations of deep red, pink, and white. Many unusual combinations of color. Height: 2-3 ft. Spread: 1 ft. Zones: 4-8.

12393 Super Duplex **A**

D. barbatus interspecific

Rockin Series ✂

First year flowering perennial. Lacy, slightly scented flowers. Best in quart and gallon. Plug: 4-6 weeks. Finish: 8-9 weeks. Height: 18-24 in. Spread: 10-12 in. Zone: 5a. Pelleted seed.

26513 NEW Pink Magic **B**

26514 NEW Purple **C**

25364 Red **D**

26515 NEW Rose **E**

Digitalis

(Foxglove)

D. purpurea

70°-75°F. 7-9 days. Do not cover seed. Flowers May-June. Zones: 4-8.

Camelot Series

High germination, uniform growth and flowering. More reliable first year flowering and heavy second year bloom. Container: 6 in. and larger. Height: 3 1/2-4 ft.

Spread: 15-24 in. Pelleted seed.

12446 Cream

12445 Lavender

12448 Rose **F**

12449 White **G**

12447 Mix

Dalmation Series

First year flowering. Strong colors, good quality spikes. Suitable for 4 in. pots. Height: 16-20 in. Spread: 12-24 in. Pelleted seed.

22529 Creme

22530 Peach **H**

19055 Purple **I**

22531 Rose

19056 White

23254 Mix

Excelsior

Flowers at right angles to the stem rather than drooping downward. Complete color range. Flowers June and July. Height: 3-5 ft. Spread: 12-18 in.

12451 Excelsior Mix

D. x hybrida

NEW Pink Panther

First year blooming perennial. No vernalization needed. Compact, uniform, heavily branched, with multiple flower spikes. Long lasting flowers of vibrant rose-

pink with speckled throat. Plug crop time 5-6 weeks. One plant per gallon. Transplant to finish 7 weeks. Height: 18-22 in. Zones: 5-9.

26671 Pink Panther **J**

Echinacea

(Coneflower)

E. purpurea

70°F. 10-15 days. Cover or uncover seed. Flowers July-August. Zones: 3-8.

Cheyenne Spirit

Incredibly vibrant color range mix from seed. An economical alternative to tissue culture material and naturally shorter. Blooms first year. Plug Crop Time: 5-6 weeks. Height: 18-24 in. Spread: 10-16 in. Zones: 4-10

22697 Cheyenne Spirit. AAS Winner. **K**

PowWow Series

First F-1 hybrid Echinacea. Faster and more prolific flowering. Genetically more dwarf. Will bloom in first year if sown by the end of January. Needs 14 hours of daylight after 2 leaf stage to initiate flowers. Sow in fall for spring bloom. Height: 20-24 in. Spread: 12-16 in. Zones: 4-9.

19898 White **L**

19894 Wild Berry. AAS Winner. **M**

NEW Prairie Blaze Series

Award winning series for first pure colors on strongly branched uniform plants, which are early to flower. Height: 20 in.

26808 Golden Yellow **N**

26809 Orange Sunset **O**

Prairie Splendor Series

First year, no vernalization perennial. Very early. Upright habit. Large 4-5 inch flowers. Height: 22-24 in. Spread: 6-8 in. Zones: 3-8.

26816 NEW Dark Rose Compact **P**

24979 Rose Compact **Q**

25591 White Compact **R**

Prima Donna Series ✂

Uniform 4-5 in. flowers with wide petals. Thrives in hot sunny locations, even under drought conditions. Ideal cut, fresh or dried. Height: 2 1/2-3 ft. Spread: 18-24 in.

12470 Deep Rose **S**

12471 White **T**

Purple Stars (Purple Cone Flower) ✂

Rosy purple blooms with large dark centers. Blooms up to 8 in. on tall vigorous plants. Blooms first year. Super for cut.

12472 Purple Stars

PERENNIALS

ERYNGIUM



Eryngium

E. planum

Flowers July-September. Zones: 5-9.

Blue Hobbit

World's first genetically compact eryngium. Has silver blue stems that emerge from basal rosettes that form globe-like flower heads. Border plant in mass plantings and as a novel specimen. Height: 12 in. Spread: 8 in.

12490 **Blue Hobbit** **A**

Glitter Series ✂

First year blooming, long lived perennial with good stem length for fresh and dried cut flowers. Small pincushion flowers. Height: 36-40 in. Spread: 15 in. Flowers May-August. Zones: 4-8.

12489 **Blue** **B**
19798 **White** **C**

Gaillardia

(Blanket Flower)

G. aristata grandiflora

68°-75°F. 8-12 days. Cover seed. Flowers June-October. Zones: 2-10.

Arizona Series

Thrives in variety of climatic conditions. Needs no cooling to bloom. Containers: 4 in. to gallon. Height: 12 in. Spread: 18-24 in.

21149 **Apricot**. **AAS Winner** **D**

20182 **Red Shades** **E**

12650 **Sun**. **AAS Winner**. Yellow and red. **F**

Mesa Series

Vigorous first year flowering perennial with a uniform habit and flowering time. Weeks to flower: 16-18 weeks. Height: 16-18 in. Spread: 20-22 in. Zones: 5-9.

21150 **Bright Bicolor** **G**

23255 **Peach** **H**

25118 **Red** **I**

19799 **Yellow**. **AAS Winner**. **J**

Gaura

G. lindheimeri

65°-68°F, 5-6 days. Cover seed.

Sparkle White

Early-blooming, naturally compact and free-flowering. Durable, drought-tolerant and easy to grow – no pinching necessary. Compact enough for containers, floriferous enough to use as a bedding plant. Height: 12-24 in. Spread: 12-20 in. Zones: 5-9.

23943 **Sparkle White** **K**

Geranium

G. sanguineum

70°-75°F. 7-10 days. Cover seed.

Flowers June-July. Zones: 3-8.

Vision Series

Luminescent flowers are a striking contrast to dark green leaves. Striking red foliage in fall. Hardy and drought tolerant. Great for rock gardens, stone walls and ground cover. Height: 9-12 in. Spread: 1-1 ½ ft. Primed seed.

12798 **Pink** **L**

20196 **Violet** **M**

Geum

68°-75°F. 10-20 days. Do not cover seed.

Flowers late May-July. Zones: 5-7

G. chilense

Double flowered with very large blooms. Height: 1 ½-2 ft. Spread: 1-1 ½ ft.

12899 **Lady Stratheden**. Golden yellow. **N**

12900 **Mrs. Bradshaw**. Bright scarlet. **N**

G. coccineum

NEW Orange Queen

Pure orange, 5-petaled flowers, produced May through July. Flowers best if vernalized. Compact and strongly branching. Height: 10-12 in. Spread: 10-12 in. Zone 5-9.

26907 **Orange Queen** **O**

Gypsophila

(Baby's Breath)

70°F. 7-10 days. Do not cover seed.

G. cerastoides

Pixie Splash

Unique and attractive flower color. Blooms early spring. Needs vernalization, about 8 weeks. Height: 3-5 in. Spread: 4-7 in. Zones: 4-7.

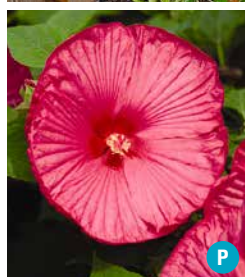
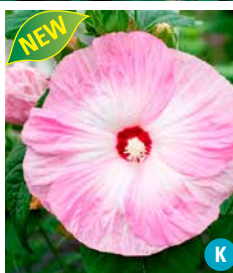
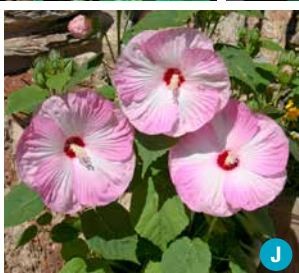
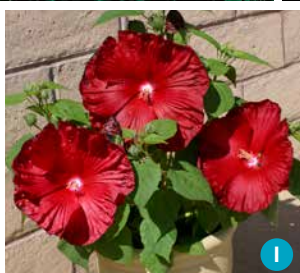
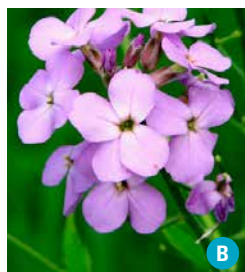
21227 **Pixie Splash** **P**

G. paniculata

Hardy, graceful sprays of white flowers. Flowers June-October. Height: 3 ft. Spread: 2-3 ft. Zones: 3-9.

13002 **Single** **Q**

13004 **Snowflake Double**.
Over 50% doubles. **R**



Heliopsis

H. helianthoides

60°-65°F. 14-21 days. Do not cover seed. Flowers July-September. Zones: 3-9.

Summer Sun

Bright golden 4 in. blooms. Height: 4 ft. Spread: 30-40 in.

13026 Summer Sun **A**

Hesperis

(Sweet Rocket)

H. matronalis

70°F. Night/85°F Day. 10 days. Do not cover seed.

Flowers May-July. Zones: 3-8.

Violet

Fragrant purple flowers on violet spikes similar to single stocks. Height: 32 in. Spread: 12-24 in.

13058 Violet **B**

Heuchera

(Coral Bells, Alum Root)

65°-75°F. 10-18 days. Do not cover seed. Flowers May-July.

H. hybrida

Melting Fire

First year flowering seed alternative to tissue culture varieties. New foliage emerges bright red, matures to deep maroon.

Heavily ruffled. Height: 15-18 in. Spread: 12-14 in. Zones: 4-9. Pelleted seed.

19082 Melting Fire **C**

H. micrantha

Palace Purple

Creamy white flowers above deep crimson leaves. Height: 2 ft. Spread: 12 in. Zones: 7-10. Pelleted seed.

13061 Palace Purple **D**

Hibiscus

H. moscheutos

70°-72°F. 7-10 days. Cover seed.

Flowers July-October. Zones: 5-9.

Disco Belle Series

Dwarf habit with good basal branching. Large, 8 in. flowers that bloom at 14 in. tall. Height: 24-32 in. Spread: 20 in. Zone: 5.

13063 Pink **E**

13064 Rosy Red **F**

13065 White **G**

13066 Mix **H**

Honeymoon Series

Very heat tolerant. With the correct growth regulators will make a bushy, flowering plant in as little as 14 weeks. Height: 24-32 in. Spread: 20-24 in. Zones: 5-9.

23799 Deep Red **I**

23800 Light Rose **J**

26130 NEW Rose **K**

23801 White with Eye **L**

23802 Mix **M**

Luna Series

Big bushy well branched plant. Very responsive to PGRs. First year flowering perennial. Best in quarts and gallon. Requires 12 or more hours of day length to flower. Does not need pinching. Height: 2-3 ft. Spread: 24 in. Scarified seed.

18682 Pink Swirl **N**

18683 Red **O**

18684 Rose **P**

18685 White **Q**

19807 Mix

Hollyhock

Alcea rosea

63°-70°F. 8-14 days. Cover seed.

Flowers July-August. Zones: 3-7.

Queeny Purple

Produces 3-4 in. double flowers on short spikes all summer. Plants are sturdy, needing no staking or pruning. Grow in gallon containers for flowering plants. Crop Time: 12-13 weeks. Height: 20-30 in.

13072 Queeny Purple. AAS Winner. **R**

Iberis

(Hardy Candytuft)

I. sempervirens

60°-65°F. 2-3 weeks. Do not cover seed. Flowers May-June. Zones: 3-9.

White

For rock gardens, trails over walls. Height: 6-8 in. Spread: 1-3 ft.

13085 White **S**

Whiteout

More uniform flowering and plant habit. Improved branching and center fill provides a more attractive finished plant. No pinching needed. Height: 6-8 in. Spread: 8-12 in. Zones: 3-8.

23952 Whiteout

Kniphofia

See Tritoma



Lavandula

(Lavender)

L. angustifolia or vera (English Lavender)

65°-70°F. 21-28 days. Cover seed.

Flowers June-August

NEW Avignon Early Blue

First year flowering perennial. Tight, well-branched, strong-stemmed plant, shows deeper blue blooms earlier than similar English Lavenders. Grown as annual in the early cool season. Finishes about 2 weeks earlier than other lavenders. Critical day length is only 10 hours. Plug crop time: 5-6 weeks. Transplant to finish: 10-14 weeks. (24 to 36 weeks overwintered). Height: 10-12 in. Spread: 9-11 in. Zones 6-8.

26095 Avignon Early Blue A

NEW Blue Spear

First year flowering perennial. Bigger, taller spikes, with more upright flower stems, than others. With 12-hour minimum day length, is early, with good habit, and high uniformity. Plug crop time: 5-6 weeks. Transplant to finish: 11-15 weeks. (24 to 36 weeks overwintered). Height: 11-13 in. Spread: 9-11 in. Zones 6-8.

26096 Blue Spear B

Early Scent Series

Earlier and more uniform with no vernalization required. Spikes on silvery green mounded plants. Containers 4 in. to gallon. Height: 12-14 in. Zones 5-9. Primed Seed.

24986 Early Blue C

24990 Early White D

26818 NEW Early Blue White Mix

Ellagance Series

First year flowering. Great alternative to vegetative due to its uniformity, easy quick and cost effective culture from seed. Height: 12 in. Spread: 10-12 in.

19087 Purple

22544 Ice

22545 Pink E

20337 Snow

Hidcote Blue

Purple blue flowers above grey-green leaves. Evergreen clump-forming perennial. Height: 12 in. Spread: 12-18 in. Zones: 5-9. Plug quality.

24192 Hidcote Blue F

Munstead

Well-known, fragrant, hardy perennial. Height: 12 in. Spread: 20-30 in. Zones: 4-9. Primed Seed.

20338 Munstead Strain G

NEW Promise

Selection of Hidcote-type, with improved habit; uniform and compact. Silver grey scented foliage, with violet blue fragrant flowers on tall thin stems all summer long. Flowers best when vernalized. Height: 12-18 in. Spread: 10-12 in. Zone 5-9.

26906 Promise H

Vicenza

Flowers the first year without vernalization and is a summer long performer. Large lavender blue flower spikes form an abundant crown of flowers over fragrant, gray green foliage. Garden or patio pots. Height: 12-18 in. Spread: 8-10 in. Zones: 5-9. Primed seed.

18707 Vicenza Blue I

L. multifida (Fernleaf Lavender)

Spanish Eyes

Long lasting color display in the garden. Attractive fragrance and great weather tolerance. Container: 4 in. Height: 18-24 in. Spread: 20-30 in. Zones: 7-8.

13343 Spanish Eyes J

Torch Blue

Silvery-grey fern-like oregano scented foliage. Best in gallon pots and mixed

containers. Flowers first year, all summer to frost. Height: 23-28 in. Spread: 20-23 in. Zones 7-10.

25622 Torch Blue K

L. stoechas (Spanish Lavender)

65°-68°F. 3-5 days. Cover seed.

Crop Time: 4-6 in. pot, 16-20 weeks. Flowers spring to mid-summer. Zone 7-10.

Bandera Series

First professional-quality seed L. stoechas on the market. First year flowering. Compact, bushy "no-pinch" plant with great flower power. Strong basal branching for high floridity in finished stage. Height: 7-9 in. Spread: 10-12 in.

26525 NEW Deep Purple L

26526 NEW Deep Rose M

25368 Pink N

24445 Purple O

Castillano 2.0 Series

Both efficient in cost and production. Medium vigor habit, is ideal for both small and large containers, 1 quart to 3 quart, making it versatile and easy to produce.

26239 NEW Lilac P

25593 Rose Q

25592 White R



NEW **Violeta XL Purple**
First repeat flowering variety from seed. Economical alternative to vegetative, having vigorous habits and large flowers. No vernalization needed. Height: 12-16 in. Spread: 14-20 in. Zone: 7-9.
26810 Violeta XL Purple A

Leucanthemum
65°-72°F. 4-10 day. Cover seed lightly. Plug crop time: 5-6 weeks. Transplant to finish: 10-14 weeks.

L. x superbum

NEW **Madonna**
First year flowering perennial, requires no vernalization, and has no risk of bacterial infection. A great Shasta Daisy alternative to vegetative varieties. Better uniformity in height and habit. Larger percentage of salable plants. Height: 8-10 in. Spread: 8-12 in. Zones: 5-9.
26527 Madonna B

Lewisia
(Cliff Maids)
L. cotyledon
68°-72°F. 21-28 days. Cover lightly, do not pre-chill seed. Flowers spring.

Elise
Flowers the first season in 4-5 months without a cold period. Sturdy plants with attractive fleshy, succulent leaves. Mix of pastel pink, rose, salmon, orange, white, yellow, and bicolors. Improved germination and exceptional heat tolerance. Great in containers and rock gardens. Height: 5-6 in. Spread: 6-8 in. Zones: 3-8
22815 Elise C

Lobelia
L. speciosa
Starship
Good summer crop — prefers higher temperatures, humidity and moisture. Performs well in both annual and perennial combos. Blooms first year. Height: 20-24 in. Spread: 6-8 in. Zones: 6-10. Pelleted seed.
24446 Deep Rose D
23956 Scarlet

Vulcan Red ✂
Full, well-branched and strong-stemmed. Uniform, controlled habit. Rich red flowers and bronze leaves are great for autumn mixed combos. Blooms first year. Height: 24-32 in. Spread: 10-14 in. Zones: 6-10. Pelleted seed.
23957 Vulcan Red E

Lupinus
L. polyphyllus
70°-75°F. 16-20 days. Cover seed. Flowers June-July. Zones: 3-6.

NEW **Lupini Series**
First-year flowering perennial, requires no vernalization. Compact, with a short crop time. For pots, and borders. Long flower spikes blooming above the foliage. Height: 10-14 in. Zone 4-7. Primed seed.
26328 Blue Shades F
26329 Pink Shades G
26330 Red Shades H
26331 White I
26332 Yellow Shades J
26709 Mix K

Russell's
Blooms first year. Mix of yellow, brick red, white, carmine and various bicolors. Height: 2-3 ft. Spread: 18-24 in.
13574 Russell's Prize Mix L

Monarda
(Bee Balm)

M. didyma
65°-70°F. 14-21 days. Do not cover seed. Flowers June-October. Zones: 4-9.

Lambada ✂
Hardy perennial, blooming first year. Produces whorls of pink/white spotted flowers. Borders, fresh and dried cuts. Height: 36 in.
13810 Lambada M

Panorama Series
Tolerates both sun and shade. Height: 30 in.
13811 Mix N



Myosotis

(Forget-Me-Not)

M. sylvatica or *alpestris*

68°-74°F. 3-5 days. Cover seed.
Flowers April-June. Zones: 5-8.

Miro

Early, strong, compact and extremely uniform habit. Dark blue flower. Height: 8-10 in.

13824 Miro Blue **A**

Sylva Series

Grow with spring plants like Pansy. Height: 8 in. Spread: 6-8 in.

13825 Bluesylva **B**

13827 Rosylva Pink **C**

13828 Snowsylva. Pure white. **D**

13826 Mix

Ultra Marine

Very early with large indigo blue flowers. Height: 6 in.

13829 Ultra Marine **E**

Nepeta

N. nervosa

68°-72°F. 2-3 weeks. Cover seed.
Flowers July-September. Zones: 5-9.

Pink Cat

First year flowering. Large pink flower spikes on compact mounded plants. Height: 12 in. Spread: 10-12 in.

13844 Pink Cat **F**

Penstemon

68°-72°F. 5-9 days. Cover seed lightly.
Flowers June-July. Zones: 5-9.

P. digitalis

Mystica ✂

Begins in early spring with bronze rosettes, develops multiple flower stems with large lavender pink flowers in early summer. Foliage turns rich red in fall. Uses: perennial garden, containers and as cut flowers. Height: 28-32 in. Spread: 20 in. Primed seed.

14222 Mystica **G**

P. hartwegii

Arabesque Series

Programmable. Sown as a seed annual. The look of a perennial with the growing ease of an annual. Premium quarts, gallons, and larger. Strong, compact branching makes plants easier to grow, handle and ship. Summer long color. Crop Time: 17-19 weeks. Height: 24-30 in. Zones 4-7.

23205 Appleblossom **H**

24992 Orchid **I**

23206 Pink **J**

23207 Red **K**

23208 Violet **L**

NEW Partybells Series

First-year flowering perennial. Naturally dwarf habit, requires little to no PGRs. High density production, short flower spike, thrives in hot, dry conditions. Hummingbird and butterfly attractor. Upright, mounding habit, late spring to summer blooms. Height: 14-18 in. Spread: 8-12 in. Zone 6-9.

26165 Red **M**

26166 Violet **N**

P. heterophyllus

Electric

First year flowering. Does not need vernalization. Prefers dry conditions and light watering. Multi-stems with branched spikes of intense Delphinium type tubular flowers. Height: 18 in. Spread: 24 in.

14219 Electric Blue **O**

Perovskia

(Russian Sage)

P. atriplicifolia

21-28 days. Cover seed.
Flowers July-October. Zones: 5-7.

Blue Steel

Sturdy, controlled landscape habit. Compare to vegetative. Plug: 5-11 weeks. Finish: 9-15 weeks. Height: 30-36 in. Spread: 20-28 in. Zones: 5-7.

25165 Blue Steel **P**



Physalis

(Chinese Lantern)

P. alkekengi

65°-75°F. 14 days. Do not cover seed.

Franchetti ✂

Produces numerous orange red fruit or pouches from mid-summer to autumn. Excellent for arrangements as a dry flower. Zones: 5-8.

14809 Franchetti **A**

Physostegia

(Obedient Plant)

P. virginiana

Flowers June-September. Zones: 3-9.

Crystal Peak

Bright white flower spikes that do not fade or brown with age. First year bloom. Height: 16 in. Spread: 16 in.

19825 Crystal Peak White **B**

Platycodon

(Balloon Flower)

P. grandiflorum

65°-70°F. 21-28 days. Do not cover seed. Flowers June-August. Zones: 3-8.

Astra Series

Sturdy, compact, uniform and well branched. Semi-double flowers are unique. Heat tolerant with good shelf life. Height: 8-10 in. Spread: 12-24 in. Zones: 3-8.

14812 Blue

14816 Pink **C**

14817 White **D**

14813 Semi-Double Blue **E**

14814 Semi-Double Lavender **F**

22392 Semi-Double Pink **G**

14815 Semi-Double White **H**

NEW Pop Star Series

Most compact, and best branching, with tight flowering window. Crop time: 13-15 weeks. Height: 6-8 in. Zone 3-9.

26348 Blue **I**

26349 Pink **J**

26350 White **K**

Poppy

Papaver nudicale (Iceland Poppy)

60°-62°F. 10-21 days. Do not cover seed. Flowers May-July. Zones: 3-8.

Champagne Bubbles Series ✂

Large uniform flowers, early and consistent colors. Produce sturdy 15 in. stems. Spread: 6 in. Primed seed. All colors in price booklet.

14828 Champagne Bubbles Mix **L**

Wonderland Series

Large flowering with thick short stems. Small foliage suitable for 4 in. pot plants as well as bedding plants. Height: 10 in. Spread: 12-24 in.

14838 Wonderland Mix **M**

Papaver orientalis (Oriental Poppy)

Pizzicato ✂

Flowers 6-8 in. Strong, tall stems 20-24 in. Produces up to 20 flowers on uniform plants. Spread: 12 in. Pelleted seed.

22243 Pizzicato **N**

Pyrethrum

(Painted Daisy)

P. roseum

65°F. 14-21 days. Cover or uncover seed. Flowers June-July. Zones: 4-9.

Robinson's

Cut back for summer flowering. Height: 18 in.

15094 Robinson's Red **O**

Rudbeckia

R. fulgida

68°-88°F. 7-14 days. Do not cover lightly. Flowers August-September. Zones: 3-9.

Goldsturm

Large golden yellow flowers with dark disc. Long days essential. Height: 2 ½ ft. Spread: 14-18 in. Primed seed.

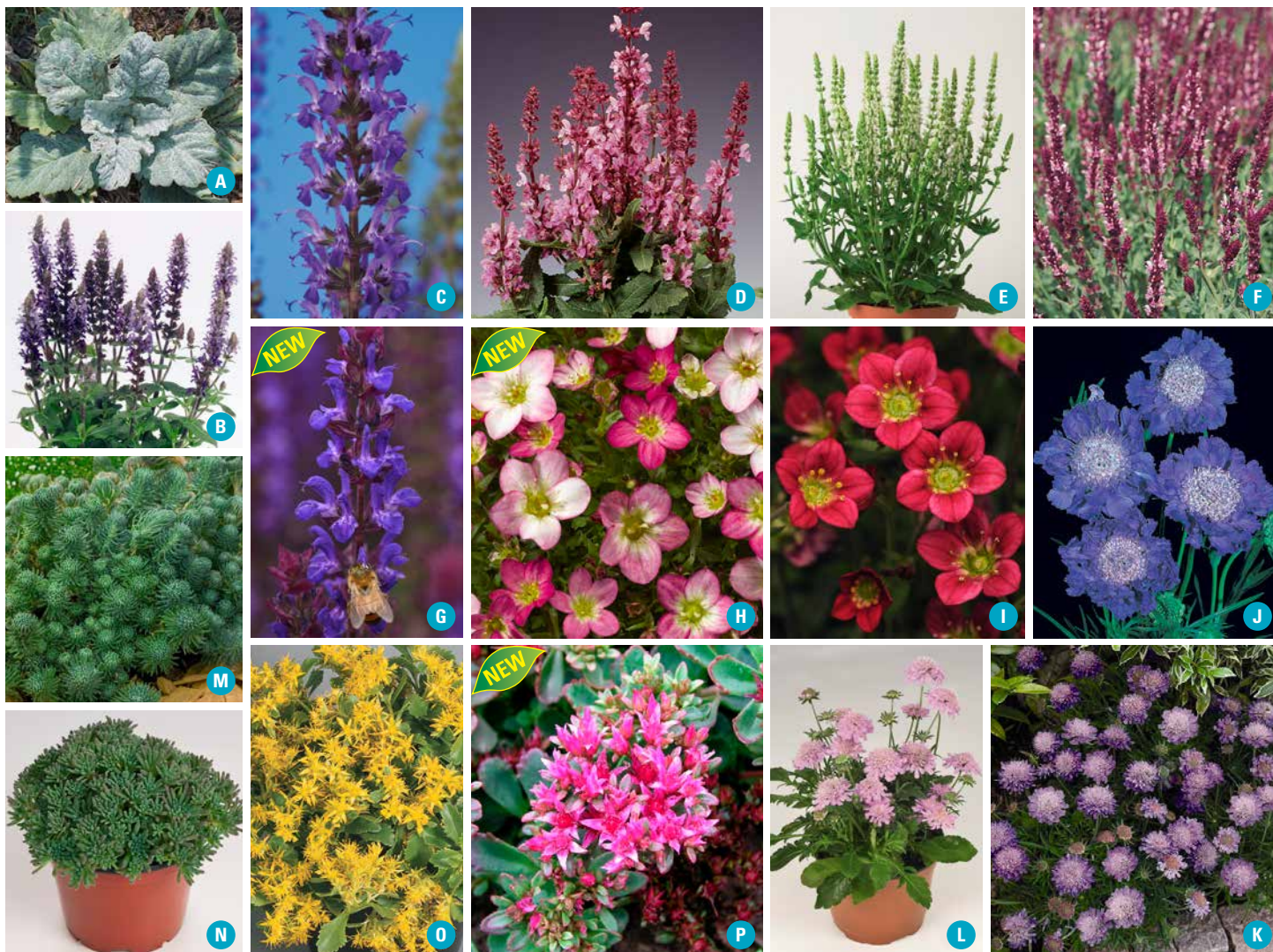
20698 Goldsturm **P**

R. occidentalis

NEW Green Wizard

Unique, bright green sepals with nearly black cone. Great in fresh and dried arrangements. Height: 4-5 ft. Spread: 2.5 ft.

26049 Green Wizard **Q**



Salvia

70°F. 12-15 days. Do not cover seed.

S. silver sage

Argentea

Beautiful foliage plant forming a large silvery silky pubescent rosette, up to 2-3 ft. Biennial. Zones: 5-8.

15182 Argentea **A**

S. superba/nemorosa

Adora

Improved Dwarf Blue Queen. No vernalization needed to flower. Height: 12-15 in.

19210 Adora Blue **B**

Merleau Series

First year flowering, no vernalization required. Compact, well branched with very early flowering. Full sun. Blooms spring to summer. Height: 12-15 in. Spread: 12-15 in. Zones 4-8.

20713 Blue **C**

22400 Rose **D**

22401 White **E**

Queen Series

Border plant, flowers June-September. Zones: 4-7.

15211 Dwarf Blue. Height: 16 in.

15212 Rose. Long rose spikes. Height: 2 ft. **F**

NEW Salvatore Blue

Largest spikes with deepest colored calyx. Black stems on well branched plants. Plug crop time: 5-6 weeks. Transplant to finish: 9-12 weeks. Height: 10-12 in. Spread: 6-8 in. Zones: 4-8. Coated seed.

26554 Salvatore Blue **G**

Saxifraga

S. arendsii

65°-68°F. 7-11 days. Cover seed.

NEW Lofty Series

With large flowers and vigorous habit, is a competitive alternative to vegetative. Uniform, with short stems. Zones: 5-9.

26813 Pink Shades **H**

26814 White Blush

Rocco Red

First professional-quality seed S. x arendsii on the market. Brilliant flowers and attractive evergreen foliage. Uniform plant size. Produces a vigorous, short-stemmed plant that fills the pot. Day length neutral. Crop Time: 9-10 weeks. Height: 3-5 in. Spread: 3-5 in. Zones: 4-7. Pelleted seed.

23967 Rocco Red **I**

Scabiosa

(Pincushion Flower)

65°-70°F. 14-21 days. Cover seed.

Flowers June-August. Zones: 3-7.

S. caucasica

Fama Series ✂

Long stems and excellent keeping qualities. Height: 2 ft. Spread: 2 ft. Filmcoated seed.

15271 Deep Blue. The original Fama. **J**

20720 White

S. japonica var. alpine

Ritz Series

First year flowering. Delicate pincushion flowers. No PGRs. Perennial border and mixed containers. Height: 6-8 in. Spread: 6-8 in.

15284 Blue **K**

20721 Rose **L**

Sedum

60°F. 10-14 days. Do not cover seed.

Zones: 3-9.

S. forsterianum

Oracle

Silver-green whorls of foliage provide bright yellow flowers in late summer. Succulent accent plant for mixed or xeriscape

containers. Height: 6-8 in. Spread: 8-12 in.

19211 Oracle **M**

S. rubens

Lizard

Great for rock gardens or mixed succulent containers. Short crop time with low grower inputs. Loves sunny and dry locations. Grow as an annual. Crop Time: plugs 4-5 weeks, pots 9-11 weeks. Height: 4 in.

20725 Lizard **N**

S. selskianum

Spirit

Bright yellow. Blooms June through September. Durable rock garden plant, thrives in heat. Long lived perennial. Container: 4 in. to quart. Height: 4 in. Spread: 18-24 in.

15296 Spirit **O**

S. spurium

NEW Dragons Blood

Clusters of deep red flower buds, open a brilliant pink, which contrast nicely with the fleshy, green foliage edged in wine red. Thrives on neglect, in heat, drought, and poor soils. Creeping ground cover, or as indoor container. Height: 4-6 in. Spread: 2 ft. Zones: 3-9.

26450 Dragons Blood **P**



Solarity

Deepest color rose, and most uniform mounding, spreading habit. Height: 8 in. Spread: 12 in. Zones: 3-9.

25010 **Solarity** **A**

Voodoo

Intense red foliage and neon rose flowers create an interesting contrast in the garden from late summer through autumn. Mounded habit in containers, ground cover in garden. Height: 4 in. Spread: 18 in.

15298 **Voodoo** **B**

S. telephium

Surrender Series

First very uniform, upright, well branched habit, suitable for large scale production. Height: 16 in. Spread: 12 in. Zones: 4-8.

25011 **Red** **C**

Silene

70°-72°F. 3-6 days. Cover seed lightly. Flowers July-September. Zones: 4-8.

Orientalis

Single 2-2 1/2 in. bright carmine rose flowers, clustered in large, 3-4 in. dense flower heads. Blooms resemble a Lychnis flower. Forms a rosette the first year and flowers the second year. 15-20 shoots can be

harvested. Height: 24-30 in.

15305 **Orientalis** **D**

Solidago

(Goldenrod)

S. canadensis

68°-70°F. 5-8 days. Cover seed lightly

Golden Baby

Graceful fernlike sprays of gold. Excellent bouquet filler. Height: 2 ft. Spread: 1-1 1/2 ft. Zones: 3-10.

15639 **Golden Baby** **E**

Statice

(Limonium)

60°-65°F. 8-14 days. Do not cover seed. Flowers June-October. Zones: 4-9.

L. caspia

Dazzling

Bred for greenhouse production. Produces a mass of fine feathery bluish white fern-like plumes. An ideal bouquet filler with stems to 3 ft. long.

15661 **Dazzling Blue** **F**

L. latifolia

Deep blue flowers. Height: 2 ft.

15677 **L. Latifolia** **G**

L. Tatarica (Dumosa)

German Statice. Attractive silvery white flower heads. Excellent for cutting. Height: 16 in.

15714 **L. Tatarica** **H**

Sweet William

See Dianthus Barbatus

Tritoma

(Red Hot Poker)

Kniphofia uvaria

65°-75°F. 21-28 days. Cover seed. Flowers July-September. Zones: 5-9.

Flamenco

Flowers in first year — 4 weeks earlier than other varieties. Flower spikes 8 in. long with 1 1/2 in. long crown tubes. Stems are strong, but not bulky. Height: 2 ft. Spread: 4 ft.

16163 **Flamenco**. AAS Winner. **I**

Verbascum

70°-72°F. 4-7 days. Do not cover seed. Flowers June-August. Zones: 5-8.

V. hybrids

Southern Charm

First year blooming perennial. Florets are arranged in pairs. Drought tolerant. Crop Time: 4-5 weeks. Height: 24-30 in. Spread: 12-18 in. Zones 5-8. Pelleted seed.

20804 **Southern Charm** **J**

Veronica

(Speedwell)

65°-70°F. 10-16 days. Do not cover seed. Flowers June-August.

V. spicata

Strong grower. Good cut flower. Height: 2 ft. Spread: 1 ft. Zones: 3-8.

16221 **Alba (White)** **K**

16219 **Blue** **L**

18118 **Rose** **M**



Artichoke

65°-75°F. 10-20 days. Cover seed.

22720 Green Globe. Perennial, may yield up to 5 years. Flowers in early summer, harvest throughout summer. Heads are globe shaped 3-4 in. dia. Zone 7.

Arugula

11231 Rocket. 43 days. Unique spicy flavor. The traditional Italian salad. Long dark green leaves form loose bunch.
25827-Oz Organic Rocket

Asparagus

70°-85°F. 2-8 weeks. Light seed.

11244 Mary Washington. Perennial. A very strong growing and productive strain producing long, thick spears in May and June depending on your season. A rust resistant variety. Zone 8. **A**

Bean

65°-75°F. 6-10 days. Cover seed.

22288 Blue Lake Bush 274. 56 days. Quickly produces a large crop of firm-textured, 6-6 ½ in. dark green pods. Resistant to common mosaic virus and tolerates the NY 15 strain. Height: 12-22 in. **B**

23618 Golden Wax Bush. 50 days. Bright yellow pods are stringless, 4-5 in. long, with a big, buttery flavor. Rust proof, blemish free. Height: 16-18 in. **C**

23620 Kentucky Wonder Pole. 67 days. Distinctive flavor. Climbs freely. Good firm-

ness, straight and smooth. Rust resistant. Height: 5-7 ft. **D**

25327 Provider. 55 days. Heavy yields of light green, meaty pods. Tolerant of cooler soils, can be planted before most other beans. Harvest the beans at 5 ½ inches long and ¼ inch wide. Brownish purple seeds. BMV, DM, PM, PMV. Height: 20-24 in.

23619 Top Crop Bush. 50 days. Pods are 6-7 in. long, are round, straight, meaty and free from string and fiber. Resistant to bean mosaic. Height: 18-24 in.

Beet

50°-60°F. 5-10 days. Cover seed.

24780 Bull's Blood. 60 days (28 days for baby leaf tops). Heirloom variety, dark red foliage is grown for leafy green mixes. Bright red, top shaped root. Great in mixed containers, spring or fall. **E**
25832-Oz Organic Bull's Blood

24781 Chioggia Guardsmark. 65 days. Heirloom variety, unique purple and white bull's-eye striped root interiors. Flat Egyptian shaped root. Bolt resistant. **F**
25833-Oz Organic Chioggia Guardsmark

Broccoli

70°F. 5-10 days. Cover seed.

25732 Aspacroc. 50-60 days. Baby Broccoli, also known as Broccolini in the grocery store and restaurant menus. Resembles broccoli raab with an asparagus stem, and offers a mild taste. Can pinch central shoot to set 3-5 side shoots. **G**

24078 Destiny. 89 days. Mid-early maturity class. Dwarf plants with medium-small beads and good heat tolerance. **H**

24783 Gypsy. 90 days. Good for organic growers due to strong root system and disease resistance. Excellent, smooth, dome-shaped heads with medium-small beads. Tall habit. **I**

11628 Italian Green Sprouting. Vigorous, early type forming large compact central heads and very few laterals. **J**

25877-Oz Organic Italian Green Sprouting

Brussels Sprouts

70°F. 5-10 days. Cover seed.

17177 Jade Cross. 80 Days. Early with uniform sprouts all along the plant. One of the best for freezing. Height: 30-32 in.

17178 Long Island. 90 days. Round, dark green, 1 ½ in. miniature cabbage like heads. **K**

Cabbage

70°F. 5-10 days. Cover seed.

24079 Crystal Vantage. 65 days. Compact habit. Can produce 'Mini' heads planted tight. Disease resistant. **L**

11637 Early Jersey Wakefield. 70 days. An excellent early variety with dark green conical heads about 7 in. long. Easy to grow and versatile in use. Excellent cooked or eaten raw in slaws and salads.

24784 Fast Vantage. 50 days. Extra early, medium size green heads. Good heat tolerance and sweet tasting. **M**

11638 Golden Acre. 65 days. Early, round type. Easily grown and versatile in use. Heads are about 6-7 in. in diameter on compact plants about a foot high. Its firm, medium green head is excellent cooked or raw in stews and salads.

25878-Oz Organic Golden Acre

27048 NEW Headstart. 60 days. Short core. Excellent wrapper leaves. Fast to mature, with uniform head size. Bright green, round heads are compact and heavy.

17179 Late Flat Dutch. 105 days. Maintains peak quality for months. Solid, flat-topped, blue-green heads weigh 12-14 lbs. Leaves are sweet enough for any cabbage dish.

11639 O.S. Cross Hybrid. Uniform, very large, mid season variety.

24866 Pac Choi White Stem. 45 days. Chinese non-heading type. Loose spoon shaped leaves with thick white ribs. Tender, crisp and mild. Cold resistant. Height: 8-10 in.

11640 Ruby Perfection. 80 Days. Strong tolerance to both heat and cold. Solid, medium-sized, globe-shaped 3.5 pound heads are slow to burst. Crisp, tender flavor and store well. **N**

19787 Savoy Perfection. 90 days. Sweet, mild, crinkled texture.

17181 Stonehead. 60 days. **AAS Winner.** Early and widely adapted with good holding ability. Medium sized, 2 lb. round green heads. Compact habit. **O**



Cantaloupe

75°-80°F. 5-10 days. Cover seed.

27043 NEW Alaniz Gold. 80 days. 5 lbs. Healthy, strong vines with good powdery mildew and fusarium resistance. Sweet flavor, slips when ripe. Holds well before and after harvest.

11709 Ambrosia. 82 days. Fruits 4-4 ½ lbs. are exceptionally sweet. Heavily netted but free of ribs. **A**

24786 Aphrodite. 72 days. Athena-type melons, on shorter vines. Sweet, creamy texture with a unique hint of honey flavor. Fruit 6-7 lbs.

24787 Athena. 75 days. Top seller. Early maturing, sweet flavor. Fruit 5-6 lbs. **B**

11711 Burpee Hybrid. 82 days. Vigorous, large fruited. A premium market variety of outstanding quality.

24788 Da Vinci. 80 days. Italian netted, dark orange flesh, small seed cavity, oval 3 lb. fruit. European type with sweet, fresh flavor.

23643 Delicious. 83 days. Classic muskmelon, orange flesh, sparse netting. Fruit 2 ½ lbs. **C**

23621 Hales Best Jumbo. Heirloom muskmelon. Exceptionally sweet, thick-walled, and small seed cavity is small. Grows and stays sweet in a wide variety of conditions. **D**

25899-Oz Organic Hales Best Jumbo

11714 Honey Dew Green Flesh. 110 days. Classic Honeydew melon. Smooth skin, light green flesh, 4-4 ½ lb. round oval fruit. **E**

24789 Snow Mass. 80 days. Early honeydew with very sweet light green flesh and smooth rind. Round, blocky 4-6 lbs. **F**

23391 Lilliput. 75 days. Unique personalized miniature Eastern melon that offers very high sugars and fragrance combined for a wonderful flavor. Firm, deep orange flesh is maximized by a small, closed-center cavity. Exterior begins light green then turns to a yellow-tan as it ripens. A must-have for any specialty market.

Cauliflower

70°F. 5-10 days.

24790 Candid Charm. 65 days. Widely adaptive, easy to grow. Concentrated maturity with heavy attractive heads. Large, semi-upright habit. **G**

11742 Early Snowball. 52 days. 2 lb. white heads.

26406 NEW Flame Star. 55 days. Tinted pastel orange, 7 inch heads. High tolerance to heat and stress. Great option for both spring and autumn. Seed spacing 12 in. Row spacing 2-3 feet. **H**

24791 Graffiti. 90 days. Large, 7 in. dome shaped, deep purple heads wrapped with dark purple-green leaves. Large uniform plants. Best raw or steamed to retain color. **I**

19557 Self Blanch. 65 days. 3 ½-4 lb. white heads. **J**

11743 Snow Crown. 50 days. Early snowball type. Round, smooth, 2 lb. pure white heads.

Celery

70°F. 10-15 days. Cover seed.

11745 Giant Pascal. 140 days. Popular green variety. Large creamy white heart.

11746 Golden Self Blanching. 85 days. Thick and heavy stalks without strings. Disease resistant. Height: 30 in.

Collards

17226 Vates. 75 days. Uniform, compact, traditional southern greens. **K**

Corn, Sweet

65°-85°F. 4-7 days. Cover seed.

22287 Early Sunglow. 70 days. Yellow (su). Early season sweetness produced on 6 ½-7 in. ears with 12 rows. Strong vigor makes it perfect for short or cool spring seasons. Height: 5 ft.

24708 Peaches & Cream. 83 days. Bicolor (se). Mid season. Produces 6-7 in. ears with 10 rows of small white and gold kernels. Height: 7 ft. **L**

24709 Silver Queen. 88 days. White (su). Late season. Slightly tapered, 8 in. ears with 14-16 rows. Height: 7 ft. **M**

Cucumber

72°F. 7-8 days. Cover seed.

Slicing Cucumbers

12025 Burpless No. 26 Tasty Green. 60 days. Crisp and tasty, 9 in. dark green, not bitter. Suitable for greenhouse culture. **N**

27033 NEW Dasher II. 58 days. Straight, uniform 8-10 inch, dark green fruit. Excellent disease resistance. Needs support.

12026 Diva. 58 days. **AAS Winner.** Smooth skinned semi-glossy and tender, 4 in. long. Non-bitter, sweet, crunchy, seedless and great as a snack. Gynocious, increases yields. Tolerances: scab, powdery and downy mildew. **O**

12027 Fanfare. 63 days. **AAS Winner.** Disease tolerance includes: downy mildew, powdery mildew, cucumber mosaic virus, anthracnose, angular leaf spot and scab. Highly productive in limited spaces. Uniform green color, slim, 9 in. fruit.

17234 Lemon. 65 days. Round, 3-4 inches with a lemon skin color, but not a lemon taste. An Heirloom from late 1800's. **P**
25883-Oz Organic Lemon

25099 Martini. 55-60 days. Pick at 5-6 in. then no need to peel. Early and does not yellow. Height: 6-12 in. Spread: 4-6 ft. **Q**

22523 Patio Snacker. 39 Days. Fast growing, short vined, and well branched. Crunchy, 8 in. dark green fruit. **R**



Cucumber *continued*

23849 Peticue. 45 days. Bred to stay compact, vines take up 1/3 of the space of a standard. Smooth, green fruits of 7-9 in. Height: 6 in. Spread: 24 in. **A**

27032 NEW Salad Bush. 58 days. AAS Winner. Smooth, dark green skin, on 8.5 x 1.5 inch fruit. Powdery and Downy Mildew resistance. Good in containers and garden. No support needed. Height: 6 in.

12031 Spacemaster Bush. 60 days. 6-8 in. long fruit on dwarf bushy plants. Excellent for small gardens. **B**

22283 Straight Eight. 65 days. **AAS winner** from 1935. Small seed cavity and crisp, fine-grained flesh. Named for its perfectly straight, 8-inch long fruit, prized for its high quality, flavor, and even, deep green color. Well adapted throughout the US. Vigorous, productive vines that benefit from trellising. Height: 4-6 in. **C**

25886-Oz Organic Straight Eight

12032 Sweet Slice. 62 days. Slim 10 in. long, dark green fruits are "burpless" and "bitter-free." Vigorous productive with disease resistance. **D**

23627 Sweet Success. 54 days. **AAS winner.** Seedless, burpless garden cucumber. Slender, 14-inch fruits are terrifically flavorful and free of bitterness, with thin, smooth skin. Vigorous plant sets fruit without pollination. Resistant to Cucumber Mosaic Virus, Scab, and Target Leaf Spot.

Pickling Cucumbers

24799 Corentine. 45 days. Extra-early, burpless and seedless. Improved European gherkin pickling type. Dark green, 4-6 in., tasty and crisp fruit. Parthenocarpic, no cross-pollination needed, and has exceptional disease resistance. **E**

22265 County Fair Pickle. 52 days. Sweet and crunchy 6-8 in. burpless pickles. Nearly seedless if isolated. Multiple disease resistance including bacterial wilt. Height: 18-24 in.

25098 Gherking. 50-55 days. Parthenocarpic. Resistance to Scab, CMV1, and Downy Mildew. Fruit does not turn bitter if left on the plant. Height: 6-12 in. Spread: 4-6 ft. **F**

12028 Homemade Pickles. 56 days. Vigorous with high yield. Medium green with small white spines harvest from 1 1/2 in. for tiny sweets, to 5-6 in. for dill and spears.

23850 Petipikel. 45 days. Bred to stay compact. Green, striped and spined fruit grows to 3-5 in. Height: 6 in. Spread: 24 in. **G**

Eggplant

70°-75° F, 7-14 days. Cover seed.

19797 Amethyst. 85 days. Oval purple fruit. Compact, well branched plants with attractive foliage. Ideal for use in 8-10 in. containers. Height: 20 in.

12478 Black Beauty. 72 days. Standard high quality, large fruited variety. Holds well.

25888-Oz Organic Black Beauty

12480 Dusky. 58 days. Tender 6-7 inch fruit with glossy black skin and excellent flavor. Classic oval shape and is early. Disease resistant. Height: 24-30 in.

21142 Emerald Isle. 60 days. Small 2 oz. pale green fruits with dark green veining. Often used in Asian cooking. Height: 22 in.

20173 Gretel. 55 days. **AAS Winner.** Earliest white eggplant. Non-bitter mini-fruit, 3-4 inches long or harvest full size 4-6 inches. Indeterminate plant, with thornless leaves. Plug: 4-6 weeks. Finish: 4-5 weeks. Height: 3-4 ft. Spread: 2-3 ft. **H**

20174 Hansel. 50 days. **AAS Winner.** Early black/purple mini-fruit, 2-3 inches long or harvest full size 6-10 inches. Indeterminate plant, with thornless leaves. Plug: 4-6 weeks. Finish: 4-5 weeks. Height: 2-3 ft. Spread: 2-3 ft. **I**

19882 Long Purple. 75 days. Flavorful and tender 12 in. x 2 1/2 in. dark purple fruit. Asian type with thin skin and few seeds. **J**

25889-Oz Organic Long Purple

23936 Patio Baby. 45 days. **AAS Winner.** 2-3 in. long and about 1 in. dia. Unique, high-yielding, compact variety produces baby size eggplants very early with a wide harvest window. Equally suited for contain-

ers or gardens. Height: 16-20 in. Spread: 18-22 in. **K**

19940 Pinstripe. Compact, well branched plants specifically bred for containers. Produce medium sized oval shaped, light purple fruit with creamy white stripes. Height: 22 in. **L**

21143 Pot Black. 60 days. Dark purple 3 oz. fruits may also be harvested small as a true baby vegetable. Compact spineless attractive plant is well suited for containers. Height: 22 in. **M**

24800 Shikou. 70 days. Asian-type. 6-8 in. dark glossy fruits with purple calyx and very white interior. Semi-spineless, medium-sized habit. **N**

19558 White Star. 75 days. Classic tapered, 5-7 in. teardrop shape. White fruit is sweeter and less bitter than purple.

Endive

(Escarole)

70° F, 5-7 days.

16564 Batavian. 85 days. Broad leaf type escarole, wavy leaves with cut edges. Best variety for salads. **O**



Herbs

Annual Herbs

13031 Anise. Aromatic seeds with strong licorice flavor. Easy to grow, similar habit to dill. Height: 14-16 in. **A**

19805 Basil Aristotle. Greek type basil with classic taste and aroma. Dense, bushy habit, with tiny leaves. Can be harvested at 6 in. tall. Good in 4 in. pots and gallons. Height: 12 in. **B**

24444 Basil Dolce Fresca. A mid-sized plant with a unique bushy habit and shorter internodes. Remains mounded and tidy while maintaining traditional basil flavour and leaf size. Height: 12-14 in. Spread: 10-12 in. **C**

13032 Basil Dwarf Bouquet Spicy Globe. Aromatic leaves about 1/2 in. long. Height: 8-10 in.

26490 NEW Basil Everleaf Emerald Tower. 30-45 days. Columnar plant with huge harvest, flowering 10 to 12 weeks later than standard basil. Has traditional Genovese flavor. Height: 24-36 in. Spread: 8-12 in. **D**

25353 Basil Everleaf Genovese. 30 days. First basil bred for season long performance and continual harvesting. Plug: 4-5 weeks. Finish: 3-8 weeks. Height: 18-24 in. Spread: 12-18 in. **E**

Basil Floral Spires Series

Compact basil bred for their flowers as well as their leaves. Pretty lavender or white flowers produced on neat, upright spikes makes an very attractive plant. Bushy Thai-type with well flavored, aniseed scented leaves. Ideal windowsill plant, as well as in containers or garden. Height: 8 in.

19938 Lavender F

19939 White

19888 Basil Genovese. Very productive Italian leaf type. Height: 12 in.

25891-0z Organic Basil Genovese

13033 Basil Large Leaf Italian. Leading general purpose Basil. Height: 1-2 ft.

25830-0z Organic Basil Large Leaf Italian

13034 Basil Lemon. Strong lemon fragrance. Height: 2 ft.

25831-0z Organic Basil Lemon

24879 Basil Lime. Bright green leaves have a zesty citrus aroma and flavor. Plant is compact, making it ideal for containers. Height: 16-20 in.

26491 NEW Basil Newton. 50 -70 days. High resistance to Fusarium, with traditional Genovese flavor. No licorice aftertaste. Plug crop time: 4-5 weeks. Transplant to finish: 3-5 weeks. Height: 12-20 in. Spread: 10-16 in. **G**

24696 Basil Nufar. First sweet basil resistant to fusarium wilt. Large, 4 in. long, Italian-type leaves. Height: 24-30 in. **H**

27301 NEW Basil Prospera. First Downy-mildew resistant hybrid basil. Multi-cut, productive and vigorous. Classic Genovese features and aroma. Dark green foliage. Height: 16 in. **I**

13036 Basil Purple Ruffles. AAS Winner. Glossy purple leaves, with unique texture and shape. Strong aromatic fragrance. Height: 18-24 in.

13037 Basil Siam Queen. 45-50 days. AAS Winner. Thai-type different from European basil. Larger leaves. Thicker stems and late flowering, higher yields. Height: 28-39 in. **J**

25892-0z Organic Basil Siam Queen

13038 Basil Sweet Dani Lemon. AAS Winner. Strong lemon fragrance. Fusarium resistance. Height: 2 ft.

13039 Borage. Large, thick leaves are used as a pot herb. Height: 2 ft. **K**

13040 Caraway. For flavoring breads, cheese, pastries. Height: 1 ft.

24801 Cilantro Santo. (Coriander). Fast growing, yet remarkably slow to bolt. Uniform, with broad, aromatic leaves which are sturdier than other strains. **L**

13043 Coriander or Cilantro. Grown for seed, known as Coriander. The foliage is called Cilantro. Used for flavoring in baking and confections. Height: 2-2 1/2 ft.

26447 NEW Dark Opal. AAS Winner. Deep purple leaves, with red stems, make

excellent contrast to green. Decorative and delicious. Height: 12-18 in. **M**

25917-0z Organic Dark Opal

13044 Dill Bouquet. Chiefly grown for seed clusters used in pickling. Very prolific. Height: 12 in.

25841-0z Organic Dill Bouquet

24710 Dill Dukat. 70 days. Produces much higher yields of foliage than other dills. Dark green, ferny leaves have distinct, strong aroma. Vigorous compact, branching plants. Suitable for summer culture. Height: 30-40 in. **N**

25842-0z Organic Dill Dukat

13045 Dill Fernleaf. **AAS Winner.** Ideal for containers, small gardens and ornamental flower beds. The ornamental flowers and foliage are excellent for cutting for indoor decorating. Height: 18 in. **O**

19855 Fennel Florence vulgar. 65-100 days. Bulbs have sweet celery, anise flavor, and are aromatic. Height: 1-2 ft.

17368 Stevia Sweet Leaf rebaudiana. Extremely sweet leaves. Used as natural sweetener in place of sugar. Height: 2 ft. **P**

13055 Summer Savory. For seasoning and flavoring. Height: 12 in.

26903 NEW Tagetes Dropshot. Foliage has strong licorice or anise flavor. Globe habit, with dense, fine, thin tender leaves, used to flavor drinks, tea, and food. Also in mixed container. Height: 12-14 in. Spread: 12-14 in. **Q**



Herbs *continued*

Perennial Herbs

13041 Catnip (*Nepeta cataria*). Aromatic, gray green leaved, pleasing to cats. Height: 3 ft. Zones: 3-9.

13042 Chives Onion (*Allium schoenoprasum*). For flavoring and in borders. One of the most popular herbs. Height: 12-18 in. Zones: 3-10. **A**

24880 Cress True Watercress (*Nasturtium officinale*). 60 days. Delicious, vitamin-rich with a pungent taste. Leaves added to salads and to garnish butter. Needs rich soil with frequent watering. Height: 6-24 in. Zones: 9-11. **B**

13047 Garlic Chives (*Allium tuberosum*). Leaves are used for garlic flavoring. Height: 24-30 in. Zones: 3-10.

13049 Lemon Balm (*Melissa officinalis*). Used for lemon flavoring and tea. Height: 12 in. Zones: 4-9. **C**

26902 NEW Mandarin Orange Balm. (*Melissa officinalis*). Unique lemon balm with a pronounced orange scent. Trailing habit, can use as ground cover or 'spiller' component. Height: 12-14 in. Spread: 20-24 in. Zones: 4-9.

13050 Oregano (*Origanum vulgare*). Italian type. Treated as annual. Leaves used in sauces, soups, etc. Height: 2-3 ft. Zones: 5-9.

13051 Peppermint (*Mentha piperita*). Vigorous, low growing. Height: 6 in. Zones: 5-9.

13052 Rosemary (*Rosmarinus officinalis*). Blue flowers. Foliage used as seasoning. Height: 24-30 in. Zones: 7-10.

22290 Rue (*Ruta graveolens*). 100 days. Ideal for short hedges or borders, bushy habit. Lacy blue-green ornamental. Also in rock gardens, very adaptable. Grows in poor soil, withstands hot, dry sites. Pleasant and orange-like fragrance. Height: 18-24 in. Spread: 8-12 in. Zones: 4-9. **D**

13053 Sage Broad Leaf (*Salvia officinalis*). For flavoring meat. Height: 2 ft. Zones: 5-8.

13054 Spearmint (*Mentha viridis*). Vigorous. Height: 2 ft. Zones: 4-9.

13056 Sweet Marjoram (*Origanum majorana*). Tender young leaves used in seasoning. Height: 1-2 ft. Zones: 6-8. **E**

13057 Thyme (*Thymus vulgaris*). Pungent flavor, used in culinary seasoning. Height: 12-18 in. Zones: 4-8. **F**

26905 NEW Thymus Orangelos. (*T. fragrantissimus*). French thyme with traditional scent and overtones of a citrusy orange scent. Use as culinary herb, a tough low-growing, attractive ground cover, or as 'spiller' component. Height: 12-14 in. Spread: 14-16 in. Zones: 5-9. **G**

Simply Herbs

Just one plug gives a nice, fast fill. The easy, economical way to grow the most popular herbs. Great for 4 in. programs. Pellets contain 6-10 seeds. Crop Time: Plug 2-4 weeks, finish 3-5 weeks.

Multi-Seed Pellets:

23968 Oregano. *Origanum vulgare*.

23297 Thyme. *Thymus vulgaris*.

(Winter Thyme). **H**

Precision Multi-Pellets:

25387 Basil. *Ocimum basilicum* (Sweet Basil). **I**

23294 Dill. *Anethum graveolens*. (Fernleaf Dill) **J**

23295 Parsley. *Petroselinum crispum*. (Large Leaf Italian Flat Parsley). **K**

23969 Parsley Curled. *Petroselinum crispum*.

23970 Rosemary. *Rosmarinus officinalis*.

25389 Sage. *Salvia officinalis*. **L**

25388 Try Basil. Each precision pellet contains 3 varieties (Genovese, serrated and dark red selections) with 8 to 14 seeds. **M**

Kale

24802 Blue Ridge. 60 days. Blue-green leaves with full curl. Widely adaptive and slow bolting with extended harvest. **N**

26405 NEW Prizm. 40 days. **AAS Winner**. Flavorful, nutty, bright green leaves. Nearly stemless and beautifully curled are packed

with goodness. Upright habit. Height: 15 in. Spread: 10-12 in. **O**

Kohlrabi

70°F. 10 days. Cover seed.

13294 Early White Vienna. 55 days. Bulb has a sweet and mild turnip flavor. **P**

13295 Grand Duke. 50 days. **AAS Winner**. Small plants produce 4 inch round bulbs with mild flavor. Black Rot resistant.

Lettuce

70°F. 5-7 days. Cover seed.

13348 Buttercrunch. 65 days. Butterhead/Bibb type, but large and more compact. Slower to bolt. **Q**

13349 Grand Rapids. Looseleaf. Popular for home garden and forcing in greenhouse. Medium light green leaves, large and coarsely crumpled. Tip burn resistant.

13350 Great Lakes. 90-100 days. Iceberg type.

13783 Mesclun Salad Mix. 50-55 days. Well prepared mixture of salad leaves for cutting. Ingredients include: salad bowl, green and red, Lolla red and green, Giada, Rougette de Montpellier, Icequeen, Chicory Trieste, Spadona, Endive and Escarole and serrated Catalogna. **R**

25846-Oz Organic Mesclun Salad Mix



13351 Oakleaf. 55 days. Leaves shaped like oak tree leaves.

13353 Red Sails. 55 days. Looseleaf. Bronze red savoyed or crinkled leaves. Plants average 12-15 in. across and a height of 6-8 in. **A**

23631 Red Salad Bowl. 45 days. Looseleaf. Burgundy-red version of Salad Bowl.

13354 Parris Island Cos. 83 days. Romaine. Upright heads tightly folded about 10 in. tall. Medium green outer leaves with greenish white interior. Endive like flavor.

13356 Salad Bowl. 45 days. Looseleaf. Slow-bolting variety for home gardens. Light green, long and deeply notched leaves.

Simply Salad

Multiple varieties and species all in one pellet. Best to direct sow in 10-12 in. containers. Finish in 6-9 weeks. Harvest new flushes every 3 weeks when cut back to 2 in.

19910 Alfresco Mix. Red and green lettuces, arugula, endive and radicchio. **B**

19911 City Garden Mix. Mild mix of red and green lettuces.

19912 Global Gourmet Mix. Red and green lettuces, brassicas and Asian herbs.

24469 Kale Storm Mix. Assorted textures of all kale mix with purple, green and blue colors. **C**

23972 Summer Picnic Mix. Heat-resistant and late-bolting all lettuce mix of both red and green colors. **D**

23973 Wonderful Wok Mix. Asian greens including mustards, kale and bok choy. Mix of textures, shapes, and colors. **E**

Available as Precision Multi-Pellets:

25390 Arugula. *Eruca sativa*. **F**

25391 Salad Cress. *Barbarea verna*. **G**

Microgreens See page 139

Okra

70°F. 7-14 days. Cover seed.

26416 NEW Clemson Spineless. 48-60 days. AAS Winner. Uniform, straight, spineless pods. Edible cream colored flowers. Height: 3-5 Ft. **H**

French Quarters Series

Only true patio type okra. Well branched, and bred in intense heat to resist stress and disease. Height: 14-18 in.

26245 Pink **I**

26246 Red **J**

19809 Green Fingers. 56 days. Upright, compact, well branched plant with attractive foliage. Ideal for containers. Height: 20 in.

Onion

70°F. 7-10 days. Cover seed.

26044 NEW Candy. 100 days. Extra-large, 1-2 Lbs, golden brown skin, with sweet, mild, white flesh. Day neutral, will form bulbs in North and South, well adapted. **K**

42562 Red Zeppelin. 115 days. Northern long-day type. Attractive dark red large round bulbs. Stores up to 6 months. **L**

24712 Walla Walla Sweet. 125 days. Enormous size, 4-6 in., light brown skin, white flesh, with sweet, mild flavor. Can grow as winter crop in South. **M**

24711 White Lisbon Bunching. 60 days. Day-neutral. Can be planted spring, summer, or fall. Mild, crisp flavor. Hardy species, heat and cold resistant. Can be greenhouse produced.

13892 White Sweet Spanish Utah. 120 days. Late maturing. Large globe, white skin and flesh.

13893 Yellow Sweet Spanish Utah. 115 days. Large globe, skin dark yellow, flesh medium firm.

Parsley

70°F. 15-20 days. Cover seed.

14216 Italian Plain Leaf. 75 days. Excellent for flavoring. Plant and leaf are very large, single and dark green. Height: 1-2 ft.

14215 Moss Curled. 70 days. A medium green, double-curved type with excellent early branching. Height: 1-2 ft.

Peas

60°-75°F. 9-13 days. Cover seed.

Cowpeas (Southern Peas)

23623 California Blackeye. 70 Days. A southern favorite – fresh or dried. Resistant to wilt, nematodes and other pea diseases. Do not plant until after last frost. **N**

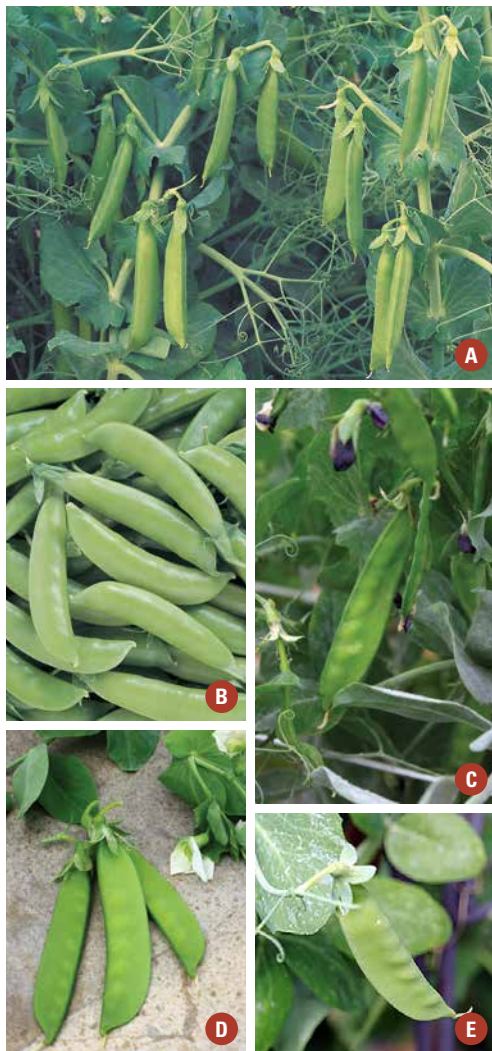
Shelling Peas

25328 Knight. 57 days. Earliest large podded shelling-type, with 7-8 seive berries; 4 in. pods. Height: 20 in.

Snap Peas

24803 Little SnapPea Crunch. 60 days. Compact yet productive plants grow well in large containers. Height: 32 in. **O**

24804 Little SnapPea Petite. 65 days. Dainty, sweet, crunchy pods on a full sized plant. Height: 80 in. **P**



Peas *continued*

24807 Sugar Lace II. 73 days. Semi-leafless, self-supporting, requires no staking. Highly productive, with 2 pods per node. Disease resistant. Height: 30 in. **A**

23642 Super Sugar Snap. 64 days. Earlier and better disease resistance than Sugar Snap. Plumper and sweeter than most snap peas. Medium green pods 2 ½-3 ½ in. long and ½ in. dia. Height: 5 ft. **B**

Snow Peas

24805 Little SnowPea Purple. 55 days. Delicate purple flowers on compact yet productive plant. Beautiful in containers. Bright green, shiny pods. Height: 24 in. **C**

24806 Little SnowPea White. 30 days. Super early-maturing, producing loads of small to medium sized, bright green, crunchy, flat shiny pods. Height: 40 in. **D**

24680 Oregon Sugar Pod. 58-70 days. Non-climbing vines with 4 in. smooth pods. Mild flavor. Resistant to fusarium wilt and enation virus. Height: 24-30 in. **E**

25911-Oz Organic Oregon Sugar Pod

Pepper

72°F. 7-10 days. Cover seed.

Edible Potted Peppers

Unique assortment bred for shorter production times. No PGRs required, naturally compact.

Item	Variety	Fruit Color	Pot Size (in.)	Fruit Size (in.)	Height (in.)	Potting to Sale (weeks)	Sales Period
25757	Adobo	Red F	5-7.5	1 x 4.5	12-14	14-16	Feb. to Sept.
25753	Cosmo	Purple G	5-7.5	0.75 x 2	10-12	16-18	
25758	Hot Burrito	Red	4.5-7.5	0.75 x 4	10-12	14-16	
25761	Hot Joker®	Red	4.5-6	0.5 x 4	12-14	14-16	
25760	Hot Fajita	Red H	4.5-8	0.5 x 4	10-12	14-16	
25762	Hot Lemon	Yellow	5-8	0.5 x 1	12-14	15-17	
25763	Hot Tomato	Red	5-8	1.5 x 1.5	10-12	15-17	
25764	Hot Tomato	Yellow	5-8	1.5 x 1.5	10-12	15-17	
25754	Pinata	Red I	4.5-6	0.3 x 2.25	8-10	14-16	
25767	Tamale	Red	4.5-6	0.75 x 2	6-8	14-16	
25766	Taquito	Red	3.5-4.25	0.3 x 1.5	4.5-6	15-17	
25768	Yellow Tomato	Yellow J	5-8	1.5 x 1.5	12-14	15-17	
25769	Fresh Bites	Orange K	5-6.5	1.25 x 2.25	12-14	15-17	May to Sept.
25770	Fresh Bites	Red L	5-6.5	1.25 x 2.25	12-14	15-17	
25771	Fresh Bites	Yellow M	5-6.5	1.25 x 2.25	12-14	15-17	

Hot Peppers

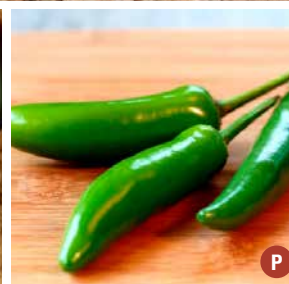
25720 Aji Rico. 50 days. **AAS Winner.** Matures green to red. Early, high yield. Medium heat, delicate citrus flavor. Narrow, conical fruit: 3-4 x 1.5 in. Height: 30-36 in. Spread: 36-48 in. **N**

26249 NEW Alter Ego. 85-95 days. Lime green to red, upward facing fruit. Is hot and sweet. Naturally dwarf, for patios. Height: 18 in. Spread: 22 in. **O**

14243 Anaheim TMR 23. 75-80 days. This TMR resistant strain produces longer thicker-fleshed pods which are slightly less pungent than Anaheim Chili. The fruit

is pendant with continuous setting, and outstanding smoothness and uniformity. Suitable for fresh market or processing. 7-8 in. long x 1 ½ in. dia.

24716 Ancho. 90 days. Green-black, heart-shaped, 4 in. fruit. Referred to as poblanos when fresh, and anchos when ripened to red and dried. **P**



14254 Apache. 75 days. Chili. Hot 2-3 in. red fruit. Upright 16-18 in. plants are good for patio containers. **A**

26410 NEW Aruba. 60 days. Elongated, 2 ½ x 6 in., green Cubanelle-type. Widely adapted. Height: 22-25 in. **B**

26250 NEW Atomic. 85-95 days. Deep purple to red, upward facing fruit. Naturally dwarf, for patios. Height: 18 in. Spread: 22 in. **C**

21680 Basket of Fire. 90 days. Unique semi-trailing habit makes it great for hanging baskets and containers. Small hot fruit mature from deep purple through cream, orange to bright red. Height: 12 in. **D**

24715 Big Jim. 85 days. Developed by New Mexico State U. Produces heavy yields of the largest chile rellenos-type peppers, 12 x 2 ¾ in. Mildly hot, green to red. **E**

22285 Cayenetta. 82 days. **AAS Winner.** Mild 4 in. red cayenne chili peppers on compact, branching plants. **F**

14252 Cayenne Long Slim. 70 days. For pickles, canning and drying. Fruits long, tapered, and very pungent.

14112 Cayenne Long Thick. 75 days. Green to red. Large, 5 in. long, ½ in. thick, tapered fruit. Medium heat. Great fresh or dried.

21681 Chenzo. 85 days. Fruit hang below foliage canopy maturing from black to bright red. Resists cool temperatures. Used in fresh chilli and drying. Height: 22 in.

14255 Cheyenne. 75 days. Chili. Hot 4-5 in. orange fruit. Good for hanging baskets and patio planters. Compact, cascading habit.

26413 NEW Crackle. 60-70 days. Finger/Thai-type. Dark green to red. Large, 4-5 in. long by ¼ in. wide fruit with tapered end. **G**

27040 NEW Early Flame. 60 days. Jalapeno. Compact, productive, and fast. Good in containers. Large 4 x 1 ½ in. heavy fruit have thick walls. Glossy green to red.

24113 Early Jalapeño. 65 days. Early season variety, traditional 2-3 in. size thick-walled fruit. Height: 2 ft.

14260 Garden Salsa. 73 days. Dark green to red 8-9 in. x 1 in. fruit. Moderately hot. TMR.

25755 NEW Golden Cayenne. 70-75 days green, 85-90 days yellow fruit. Fruit size: 3 ½ in. x ¾ in. Compact bush plant, for medium sized containers, or in ground, with or without support. Height: 12-14 in. **H**

14264 Habanero. 95 days. One of the hottest varieties. Fruits are small about 1 ½ in. x 1 in., wrinkled and taper to a point. Flesh is thin. Height: 24-26 in. **I**

25904-Oz Organic Habanero Orange
25905-Oz Organic Habanero Red
25906-Oz Organic Habanero Yellow

26101 NEW Habanero Primero Red. 60 days green, 75 days red. A very early habanero, with one-third the heat. Fruit size 3 x 1 ½ in. **J**

14265 Hungarian Yellow Wax (Hot Banana). 65-68 days. Very early, long fruit. 5 ½ x 1 ¼ in. tapered, waxy, light yellow. **K**

25382 Jalapeno La Bomba II. 50 days. Matures green to red. Improved disease resistance. Fruit: 3 x 1 ½ in. Height: 32-40 in. Spread: 12-18 in. **L**

14268 Jalapeño M. 72-75 days. Compact plants produce fruit 3 x 1 ½ in. Green to red.

25908-Oz Organic Jalapeño M

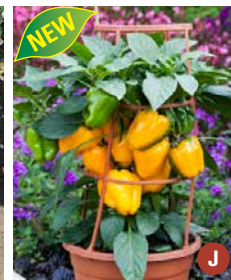
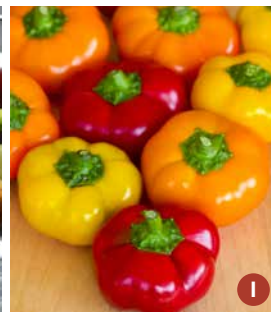
26251 NEW Longhorn. 85-95 days. Very long, and larger than competitive varieties, 6-10 in. red fruits, uniquely curled at the ends. Vigorous, with umbrella canopy, and sturdy stems. Can grow in containers with support, due to heavy yields. Height: 40 in. Spread: 28 in. **M**

25340 Mad Hatter. 65 days. **AAS Winner.** Matures green to red. Flat disc peppers are crunchy and crisp, with little heat. Fruit: 2-3 ½ x 2-2 ½ in. Height: 36-48 in. Spread: 36-48 in. **N**

24811 Mucho Nacho Grande. 68-70 days. Fatter, thicker and hotter jalapeño. Green to red 4 in. fruit. Disease resistant plants. Height: 18-24 in. **O**

25333 Serrano. 80 days. Fruit 3-3 ½ in. Vigorous yielder of hot, pungent, candle-shaped fruits that mature from green to bright red. Well adapted to hot, humid climates. Popular for use in pickling and salsa. Height: 2-3 ft. **P**

14280 TAM Jalapeño #1. 70-75 days. Milder than Jalapeño M. Very mild flavor.



Pepper continued

20962 Thai Super Chili. 75 days. Upright clusters of 2-3 in. hot peppers that mature red. Compact plant with beautiful foliage, bears abundantly. Thai Dragon type. Height: 16 in. **A**

24717 Tobasco. 80 days. Petite, green to yellow, 2 x ½ in. very hot fruit. Height: 2-3 ft. **B**

Sweet Peppers

14246 Bell Mohawk. 75 days. Sweet 4-5 in. orange fruit. Good for hanging baskets and patio planters. Spreading, cascading habit.

14247 Bell Redskin. 75 days. Sweet 4-5 in. red fruit. Good for patio containers. True compact plant, 12-14 in.

14248 Big Bertha. 70-73 days. Extremely large. Green to red 7 x 4 in., 3-4 lobed. **C**

19909 Cajun Belle. 61 days. **AAS Winner.** Sweet bell peppers 3 ½-4 in. with mildly spicy flavor. Can be harvested red or green.

14251 California Wonder 300. 73-75 days. Large green to red 4 x 4 in. **25903-Oz Organic California Wonder 300**

25381 Candy Cane Red. 40 days. Matures green to red. Snack pepper with unique variegated foliage, plus elongated bell fruit that ripen from green stripe to red. Fruit: 3 ½-4 x 1 ½ in. Height: 18-24 in. Spread: 12-18 in. **D**

14253 Cherry Sweet. 75-80 days. Round fruits 1-1 ½ in. For relish tray or pickling.

24112 Chocolate Bell. 75 days. Early, matures green to dark brown, 4 lobed. Deep red inside.

14257 Cubanelle. 65 days. Medium thick, waxy. Green to red, distinctly flavored, sweet frying pepper.

24810 Double Up. 68 days. Green to red, large, blocky bell. Dependable top performer for multiple seasons with excellent disease resistance package. Height: medium to large.

26408 NEW Encore. 70 days. Extra-large 6 x 6 in. blocky bells. Green to Red. Adapted to patio. Strong virus tolerance. Height: 22-24 in. **E**

14261 Giant Marconi. 63 days. **AAS Winner.** Huge, green to red, 8 x 3 in. elongated fruit. Sweet smoky flavor, fresh or cooked. Height: 30 in. **F**

14262 Golden California Wonder. 75 days. Large 4 x 4 in. golden yellow blocky bell. For stuffing. **G**

14263 Gypsy. 60-65 days. Gold to red 5 x 3 in., wedged shaped. Suitable for salads and frying. TMV tolerant. **H**

Hungarian Cheese Trio **I**
65 days. Early-maturing, fun series sets continuous high yields. Suited for container gardens, stuffing and pickling. Peppers hang like ornaments on top of full 18-24 in. plants.

24705 Orange You Sweet

24706 Right On Red

24707 Yes to Yellow

14269 Keystone Giant #3. 75-80 days. Very thick, 4 ½ x 4 in., blocky, 4 lobed fruits dark green to red. TMR resistance.

25907-Oz Organic Keystone Giant #3

26248 NEW Liberty Belle. 73-78 days. Large blocky fruit matures green to bright yellow. Naturally dwarf plants for patios. Bred in intense heat to resist sun scorch. Matches well with Redskin. Height: 20 in. Spread: 20 in. **J**

24812 North Star. 60 days. Early, green to red, 4 ½ x 3 ½ in., 3-4 lobed bell. Height: 18-22 in. **K**

19884 Orange Bell. 75 days. Thick flesh, 3-4 lobes, 4-5 in. long, green to orange, excellent flavor and quality. **L**

26546 NEW Orange Marmalade. 55 days green fruit, 70 days orange fruit. Blocky bell, 4 x 4 in. Superior disease-resistance package. Height: 18-24 in. Spread: 12-18 in. **M**

NEW Pillar Mimi Series

Table top harvest. Unique upright growth habit and clearly exposes fruit, without needing to prune or trim. Ideal table top plant in kitchen. Sturdy stem with few branches. Crop time 10-12 weeks. Height: 12 in. Space: 10 in.

27036 Orange
27037 Red

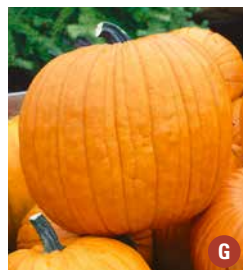
NEW Pillar Sweet Series

Crunchy sweet fruit. Unique upright, slim growth habit, with no pinching or pruning needed. Plants adjust to available pot volume. Suitable to grow indoor and finish outdoor, or on kitchen table. Crop time 12-14 weeks. Height: 16 in. Spread: 12 in.

27049 Orange
27038 Red
27039 Yellow

24813 Pimiento Elite. 72 days. Green to red, 3 x 3 ½ in. heart-shaped, sweet and thick walled. Height: 20-24 in. **N**

14271 Purple Beauty. 70 days. Blocky, 4 x 3 ½ in. Thick-walled green to dark purple. **O**



26409 NEW Recovery. 60 days. Green to red, large blocky, 4.3 x 4.3 inch. This is a game changer. Thick walls. Widely adaptable for cool to warm conditions. Height: 22-25 in. **A**

24814 Red Baron. 70 days. Green to red, 4 x 3 1/2 in., 3-4 lobed bell. Height: 20-22 in. **B**

26102 NEW Snackabelle Red. 55 days green, 70 days red. Fruit size 2x2 in. Compact plant, thick walled, mini bell. **C**

14278 Sweet Banana (Sweet Hungarian). 65 days. 6 x 2 in. Yellow to red.

21683 Sweet Heat. 35 days. 3 1/2 x 1 1/4 in. fruit. For salsa, or grilling. Has mildly spicy flavor like pepperoncini. Height: 10 in.

24815 Tomcat. 60 days. Green to red, medium size, 3 1/2 x 3 1/2 in., blocky bell, can be used in containers. Height: 12-14 in. **D**

20997 Yellow Bell Sunbright. 75 days. Blocky bell fruit 5 in. long x 7 in. wide. Matures from green to bright yellow. High yielding. **E**

17783 Yolo Wonder L. 72 days. Green to red 4 in. x 3 3/4 in. blocky bell fruit. Firm, thick walls.

Pumpkin

72°F. 7 days. Cover seed.

24713 Big Max. 120 days. Up to 100 lbs. Nearly round with bright red-orange skin. **25915-0z Organic Big Max**

24076 Hijinks. 100 days. **AAS Winner.** Blocky shape with nice square shoulders and medium-deep ribbing. Fruits average 7-9 lbs. with a long, dark green handle. Great for fall decorating! Consistent fruit shape and size. **F**

24714 Howden. 90 days. Classic, deep orange, ribbed, 20-30 lb., plump, 13-16 in. long fruit. **G**

15091 Jack-Be-Little. 95 days. Miniature Jack-O-Lanterns only about 3 x 2 in.

23622 Jack O Lantern. 100 days. Bred for carving, but also makes delicious pies and soups. Deep orange, 7-10 pound fruit, on 8-10 foot long vines.

25917-0z Organic Jack O Lantern

24077 Kandy Korn Plus. 85 days. Small but mighty! Compact, bush-type plants with intermediate resistance to powdery mildew. Large numbers of fruit per plant in a small amount of space. Dark green handles and deep orange, 1 lb. fruit make for great fall decorating. **H**

26473 NEW Musquee de Provence. 100 days. French heirloom, 5-10 lbs. Deeply ridged, flat shaped. Matures from dark green, through tan, to dark orange brown. Distinctive red flesh, with nutty flavor. **I**

25919-0z Organic Musquee de Provence

24878 Small Sugar New England Pie. 100 days. Produces 6-8 inch, orange fruit, up to 6 pounds. Great for canning.

25920-0z Organic Small Sugar New England Pie

Radicchio

(Chicory)

70°-75°F. 10-21 days.

18924 Rouge de Verone. 85 days. Attractive red-green apple size heads. Harvest early fall. **J**

Rhubarb

70°-75°F. 10 days. Cover seed.

23599 Victoria. Perennial. Large, tender, red stalks, mature to pink, then solid green towards the tip. Sweet and mild. Zone: 4-8.

Spinach

45°-65°F. 5-9 days. Cover seed.

22289 Bloomsdale Long Standing.

43 days. Early harvest, slow to bolt. Dark green, thickly crinkled leaves. Frost tolerant. **K**

24823 Imperial Green. Mid-early. Very dark green bunch variety. Smooth, Asian-leaf shape and upright habit. Heat tolerant and has more bolt tolerance than other Asian types. Downy mildew resistant. **L**

Squash

72°F. 10 days. Cover seed.

Summer Squash

24824 Brice. (Zucchini). 45 days. Round de Nice type. Speckled grey-green ball shaped fruit. More compact habit lends it to container gardens. Multiple disease resistance. **M**

20947 Early Prolific Straightneck. 42 days. Sets smooth, yellow fruits on bushy vines. For best flavor, pick squash at 4-7 in. **N**

25930-0z Organic Early Prolific Straightneck

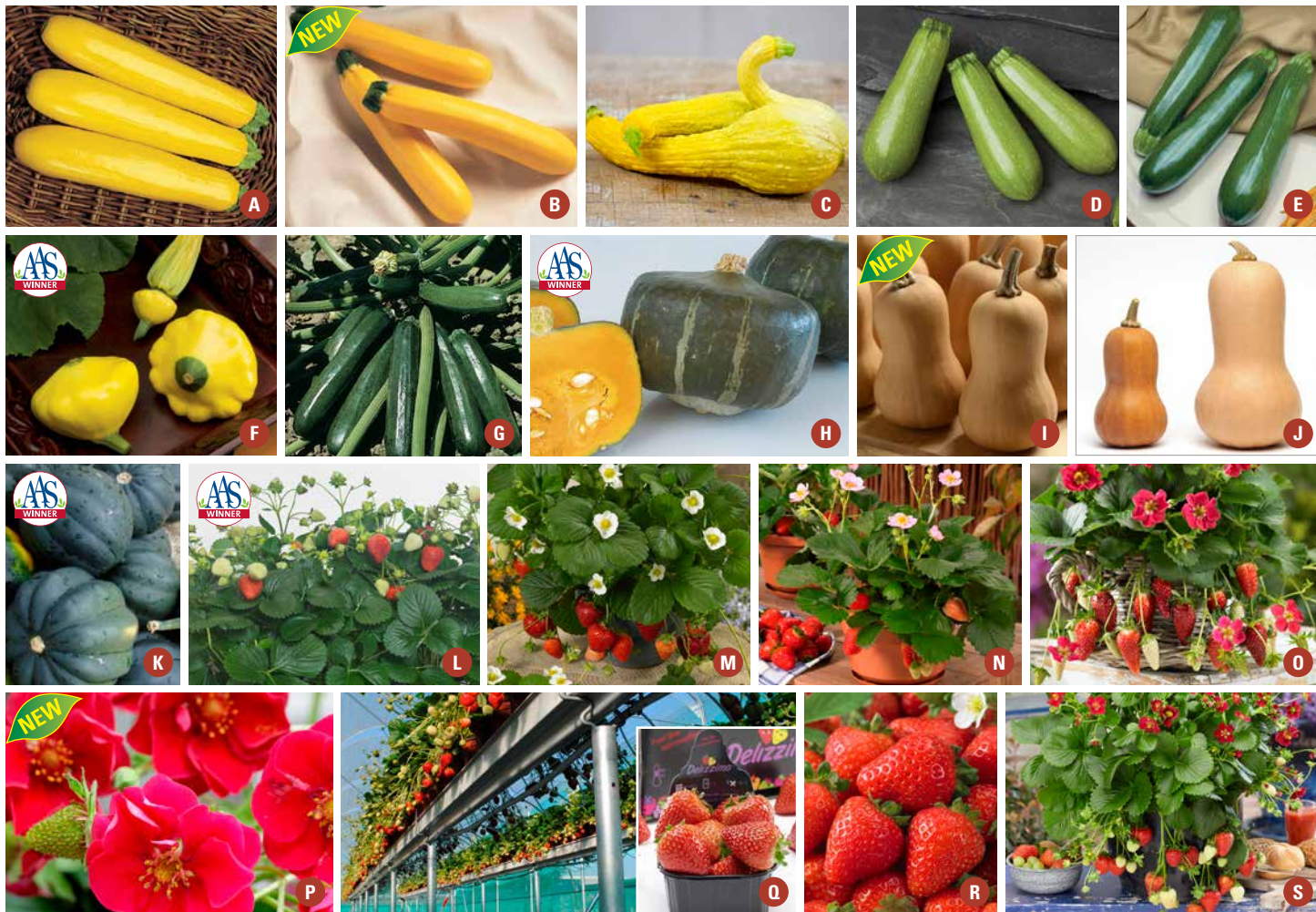
15645 NEW Fancycrook. 43 days. Yellow Crookneck. Pick at 6 inches long. Resists typical green streaking. Powdery Mildew resistant. Open bush habit makes for easy harvest.

Easy Pick Collection

Open habit with nearly no spines for easy harvest. Slender 'twist to pick' smooth 10 in. zucchini you can market together. 32 days. Height: 3-4 ft.

25392 Gold II **O**

22659 Green



Squash *continued*

15647 Gold Rush. 52 days. Gold Zucchini straight and uniform. **A**

26407 NEW Golden Delight. 47 days. Dark yellow, cylindrical, 7-8 x 1 1/2 in. zucchini. Vigorous, semi-spineless. **B**

20946 Golden Summer Crookneck. 42 days. Big, early yields of meaty, bright yellow fruits with a distinguishing crooked neck. Pick at 5-6 in. **C**

26555 NEW Lemon Sun. (Scallop). 40 days direct sow. Strong bush plant habit, yield 4-5 in. wide, yellow, patty pan fruits with no green on blossom end. Height: 24-36 in. Spread: 36-54 in.

24825 San Isidro. (Zucchini). 45 days. Grey, 6-7 in. gourmet variety popular in Mexican cooking. Open erect plants, nearly spineless. Resistant to powdery mildew and virus. **D**

24826 Spineless Perfection. (Zucchini). 44 days. Spineless Beauty with powdery mildew and virus resistance added. Medium green 7-8 in. fruits. **E**

24827 Sunburst. (Scallop). 50 days. **AAS winner.** Medium-dark yellow, 2 1/2 in. fruit with dark green blossom end. **F**

24828 Zucchini Ambassador. 41 days. Early, compact bush habit. Smooth, medium green 7-8 in. long fruit. **G**

19885 Zucchini Dark Green. 48 days. Highly productive, blocky 5-8 in. fruit.

Winter Squash

15642 Bonbon. 81 days. **AAS Winner.** Buttercup, dark green with silver stripes. Has an upright, semi-bush habit. Sweet taste, smooth texture. Fruits are only 4 lbs. Powdery mildew tolerant. **H**

26103 NEW Butterbaby. (Mini butternut). 100 days direct sow. Personal size, 1 lbs. butternut. Restricted vine. Fruit 4-6 x 3-4 in. **I**

15644 Early Butternut. 85 days. Gold, 10-12 in. smooth fruit.

23974 Honeynut. 85 days. 4-5 in. long, 2 1/2-3 in. wide at neck; 3-4 in. wide at base. First widely available small-fruited butternut squash in a high-germinating, uniform strain. Sweet, smaller fruit with exceptional yields. **J**

20979 Table King Bush Acorn. 75 days. **AAS Winner.** Space-saving bush plants. Glossy, dark gray-green, ribbed 2 lb. squash have thick pale orange flesh with excellent flavor. Compact 2 ft. tall plants yield 5-8 fruits each. **K**

25933-Oz Organic Table King Bush Acorn

19559 Vegetable Spaghetti. 100 days. Oblong yellow fruit 8-12 in. x 5-6 in. Pasta-like interior.

27045 NEW Zodiac. 110 days. Butternut. 4-6 Lbs. Elongated Waltham shape with shallow ribbing. Very uniform shape and size.

Strawberry

65°F 21-28 days. Cover seed.

ABZ Series

Extend the season with these day length neutral varieties. Plants will bloom and bear fruit within 3-5 months from sowing and fruit production will continue the whole summer into autumn. Sweet and delicate flavor, as well as ornamental.

25077 Delizz. **AAS Winner.** Red fruits are ready to pick. Holds fruit upright until mature. Indoors, close to a window in full sunlight, can give 4 weeks of delicious fruit. Also, outside, in a pot, will give 3 months of harvest during summer to early autumn. Is an ideal gift. **L**

ABZ Compact (a.k.a. Berries Galore) No runners. Early and compact.

15900 Loran. White flower. **M**

20781 Merlan. Pink flower. **N**

20782 Tristan. Deep rose flower. **O**

ABZ Double Flowered

26254 NEW Summer Breeze Rose. Beautiful bright rose double flowers, lasts long, and produce medium-size deep red fruit. Compact growth habit with very few runners. Seed to finish: 3 months. Transplant to flower: 5-7 weeks. Height: 10-16 in. Spread: 12-20 in. **P**

ABZ Fresh Market

Flavor and productivity for professional fresh market grower, all white flowered.

25268 Delizzimo. First full flavor strawberry that can be produced locally in a sustainable way in mid-winter. Grow in a greenhouse with lights, such as LED. **Q**

24156 Durban. Long shelf life. **R**

15898 Elan. Finest flavor.

24095 Milan. Fruit quality.

ABZ Hanging Basket (a.k.a. Berri Basket)

With runners. Continues to flower and fruit on runners.

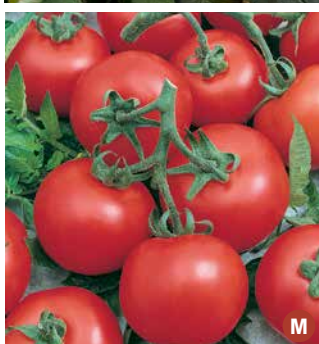
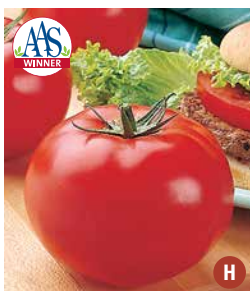
15897 Beltran. White flower.

21972 Frisan. Hot pink.

15901 Roman. Appleblossom.

24683 Ruby Ann. Vibrant red flowers. **S**

20783 Tarpan. Deep rose flower.



ABZ Large Flowered

22450 Gasana. Runner variety with large deep pink flowers, medium compact habit. **A**

24682 Montana. White flowers, medium compact.

22451 Toscana. Large deep rose flowers, conical fruits, vigorous habit with some runners. **B**

15896 Alexandria. Day-neutral, Alpine-type. Thimble-sized, dark red fruit. Great flavor, vigor, and yield. Runnerless, ever bearing plants. Height: 8-10 in. **C**

Swiss Chard

68°-72°F. 4-8 days.

16053 Bright Lights. 60 days. **AAS Winner.** Stems yellow, gold, orange, pink, violet or striped in addition to the standard red or white. A milder chard flavor and good ornamental plant. Widely adapted. **D**

25869-0z Organic Bright Lights

22276 Fordhook Giant. 55 days. Baby leaves in 20 days. Deep green leaves, with white stems. Great flavor and high bolt resistance. One of the largest swiss chards. Height: 2 ft. **E**

25867-0z Organic Fordhook Giant

24832 Peppermint. 58 days. Unique, beautiful white petiole with pink stripes from bottom to top. Glossy, dark green, savoy leaves. High bolt tolerance.

22277 Ruby Red. 50 days. Sweet tasting, candy-apple-red stalks and dark green, crinkly leaves with touches of red. Height: 1-3 ft. **F**

25870-0z Organic Ruby Red

Tomato

70°-72°F. 7-14 days. Cover seed.

Each variety has noted: Days to maturity, fruit weight, Growth type (IND = indeterminate/stake type or DET = determinate/bush type), Disease tolerance (V = Verticillium, F = Fusarium Wilt Race 1, F1&2 = Races 1 and 2, N = Nematodes, T = Tobacco Mosaic Virus)

Large Fruited

16071 Beefmaster. 80 days. 12-16 oz. IND. VFN. High yielding, true beefsteak. **G**

16072 Better Boy. 75 days. 8 oz. IND. VFN. Top selling variety.

24833 Better Bush. 70 days. 5-8 oz. DET. Stocky, compact habit for large pots or containers. Has that 'real' tomato flavor. Height: 3-3 1/2 ft.

16073 Big Beef. 73 days. **AAS Winner.** 10-12 oz. IND. VF1&2NT. Super yielding Beefsteak type. **H**

23854 Big League. 47 days. 14-21 oz. DET. Produces the largest beefsteak fruit of any true container type. Height: 48 in. Spread: 28 in. **I**

23392 Biltmore. 80 days. 10-12 oz. DET. VF1&2. Sets deep oblate, smooth, nice size fruit throughout each harvest. Fruit is firm with small blossom end scar. **J**

16075 Burpee Big Boy. 80 days. 8-9 oz. IND. Classic hybrid home garden variety.

24834 Carmello. 75 days. 5-7 oz. IND. VFT. Classic French variety developed to be eaten fresh off the vine. Sweet and juicy with rich and balanced flavor. Height: 4-6 ft. **K**

16077 Celebrity. 70 days. 8 oz. DET. VF1&2NT. Exceptionally flavorful. A strong plant for bush, cage, or short pole.

24108 Early Cascade. 73 days. 7 oz. IND. Delicious pink oblate fruit with green shoulders. **L**

24109 Early Doll. 59 days. 5 oz. IND. Extra-early maturing, bright red globe fruit. Excellent flavor! **M**

23299 Homeslice. 63 days. 5-6 oz. DET. Compact slicer, perfect for patio harvesters and small gardens. Height: 18-24 in.

16086 Husky Red. 67-68 days. 7-8 oz. IND, VF. Dwarf habit, grow staked or caged.

27034 NEW Lemon Boy. 72 days. 7 oz. IND. Lemon yellow skin and throughout. Wonderful flavor. Height: 4-5 ft. Spread: 2-3 ft.

25394 Little Sicily. 60 days. 3-4 oz., DET. Compact sturdy plants yield small red slicer fruit over a few weeks for longer harvest. Height: 18-24 in. Spread: 2-3 ft. **N**

24117 Mountain Pride. 70 days. 6 oz. DET. VF. Deep, oblate fruit. Large, adaptable plant. Excellent taste! **O**

24836 Mountain Spring. 73 days. 8-10 oz. DET. VF. Large, beefsteak fruit with perfect firmness for slicing and dicing. Bright red throughout. Height: 36-42 in. **P**

16094 Patio. 70 days. 4 oz. DET. For pots or garden. Plants compact and upright require only 2 ft. stakes.

16095 Pink Girl. 76 days. 8 oz. IND. VF. Classic pink tomato. Smooth and crack resistant.



Tomato *continued*

27041 NEW Roadster. 65 days. 8-12 oz. DET. Candy apple red, with smooth shoulders, and globe shaped. Disease resistant. Exceptional taste. Widely adapted. Can grow in containers.

25186 Stellar. 70-75 days. 5-7 oz. fruits. DET. Round, red slicer, perfect for all uses. Resistant to late blight, septoria leaf spot, fusarium race 2 and verticillium. Height: 2 ½-3 ft. Spread: 2-3 ft. **A**

24837 Summerpick. 75 days. 11-12 oz. DET. VFT. Extra-large jumbo beefsteak. Uniformly sized, great tasting fruit. Height: 32-36 in. **B**

24841 Think Pink. 70 days. 8 oz. IND. VFT. Smooth, globe shape, medium-large, raspberry-pink fruit. Very productive. Well balanced taste. **C**

25395 Tidy Rose. 60 days. 5-7 oz., IND. Deep pink, ribbed beefsteak with rich heirloom flavor. Height: 3-5 ft. Spread: 2-3 ft. **D**

Small-Fruited

23359 Apricot Dream. 70 days. 1 oz. IND. Unique apricot orange color fruit with candy-like sweetness. Produce 20-30 fruit per truss. Indeterminate, but controlled habit suitable for patio containers. **E**

26556 NEW Artemis. 50 days. 1 in. IND. F1&2TN. Early, red cherry with rich, sweet flavor, and a unique, crisp, firm texture. Height: 60-84 in. Spread: 36-48 in. **F**

25185 Candyland Red. 55-60 days. ½ oz. fruits. IND. **AAS Winner.** Early currant-type. Compact and easy to maintain. Height: 5-7 ft. Spread: 3-4 ft. **G**

27047 NEW Carmesin Grape. 65 days. DET. Good flavor. Vigorous, high yielding, easy to grow and harvest. Crimson red, oval, glossy grape fruit.

21975 Cherry Fountain (formerly Cherry Falls). 60 days. 1 oz. DET. Vigorous, tidy trailing habit, yielding heavy crop over a long period. For large baskets and containers. Height: 6 in.

26449 NEW Chocolate Cherry. 70 days. 1 in. IND. Rich fragrance, and gourmet flavor. Yields, 6-8 deep, purplish-red, crack resistant, fruit on long trusses. Height: 4-6 ft. **H**

24471 Chocolate Sprinkles. 50 days. 1-1½ in. IND. FNT. Improved "chocolaty" appearance tomato variety; more productive, better taste, and disease resistance. Height: 5-7 ft. Spread: 3-4 ft. **I**

NEW Funnyplums Series
Tasty and unique plum-shaped fruits. Dwarf and compact, heat tolerant. Fruits develop above the foliage, making a striking presentation. Early and easy to pick. Best in 4 inch pots and as spiller component. Crop time: 14-16 weeks. Height: 8 in.

26895 Creamy Yellow **J**

26894 Orange **K**

26893 Red **L**

26896 Mix Full

19572 Golden Sweet Grape. 70 days. ½ oz. fruit. IND. F. Golden yellow grape tomatoes.

26557 NEW Helix. 50 days. 1 in. IND. VF1&2TN. Early, elongated red cherry, with perfect balance of sweet and acid for great fresh eating. Height: 60-84 in. Spread: 36-48 in. **M**

16084 Husky Cherry Red. 65 days. 1 oz. IND. F. Dwarf habit, grow staked or caged.

16091 Juliet. 60 days. **AAS Winner.** 1-1½ oz. IND. Deep red, shiny grape shaped fruits. Delicious, rich flavor. Height: 6-8 feet.

25393 Little Bing. 60 days. 1 in., DET. Dwarf red cherry, ripens over a few weeks for longer harvest. Height: 18-24 in. Spread: 2-3 ft. **N**

20788 Micro-Tom. 50 days. ½-¾ in. DET. Sweet, small, round, red fruit on compact plant. Best in containers. Height: 12-18 in.

25721 Midnight Snack. 65 days. ½ in. IND. **AAS Winner.** Unique cherry, ripens red with a blush of glossy black-purple. Height: 5-6 ft. Spread: 3-4 ft. **O**

23980 Orange Zinger. 60 days. 1 ½ in. IND. FT. Crack-resistant, high-yielding, dark orange fruit. Balance of sweet and tangy flavor. **P**

20789 Peardrops. 50 days, ½ oz. DET. Sweet tasting, golden yellow small pear shaped fruit. Attractive, bushy plant with fruit held outside of foliage. Height: 18 in. **Q**

23852 Pink Charmer. 47 days. ¾ oz. IND. High yielding, round, deep rosy-pink fruit with up to 40 fruit per truss. Spread: 24 in. **R**



NEW Plumbrella Series
Tasty and unique plum-shaped fruits. Dwarf and compact, heat tolerant. Fruits develop above the foliage, making a striking presentation. Early and easy to pick. Best in 6 inch pots and as spiller component. Crop time: 14-16 weeks. Height: 14 in.

26899 Creamy Yellow A
26898 Orange B
26897 Red C
26900 Rosy Pink D
26901 Mix Full E

23360 Red Profusion. 70 days. 1 in. DET. Produces an abundance of scarlet cherry fruit on an attractive mounding plant with a 360° trailing habit. Will fill a large container.

18098 Red Robin. 55 days, 1 ¼ in. DET. Good for ornamental containers. Miniature 7 in. plants with sweet red cherry fruit.

26412 NEW Ruby Crush. 65 days. 1 oz. DET. F1&2, T. Dwarf, candy red, Grape. Does well in containers of ground. **F**

23853 Sugargloss. 50 days. ¾ oz. IND. Bright red grape fruit. Up to 60 fruit on long elegant trusses. Spread: 24 in. **G**

24475 Sugar Rush. 50 days. ¾-1 ¼ in., IND. FT. Super-sweet elongated cherry tomato with high Brix rating. Extremely productive all season. Long trusses of red fruit have great crunch and texture. Height: 5-7 ft. Spread: 3-4 ft. **H**

16100 Sugary. 60 days. **AAS Winner.** ½ oz. Semi-DET, T. Very sweet, with a reddish-pink oval shape. **I**

26252 NEW Summerlast. 65 days. 1 ½ oz. DET. Late Blight resistant. Bred with a 'lasting performance' trait which allows it to maintain very dark green and healthy foliage well into late summer. Also tastes sweeter than other patio varieties. Height: 14 in. Spread: 18 in. **J**

26446 NEW Sungold. 65 days. 0.5 oz., IND. Home garden favorite. Vigorous vines of apricot-orange fruity, tropical tasting cherry tomatoes borne on long, 10-15 fruit, grape-like trusses. Crack resistant. **K**

26445 NEW Sunpeach. 65 days. 0.5 oz., IND. Sister variety to Sungold. Vigorous vines of deep pink distinctly tasting cherry tomatoes borne on long, 10-15 fruit, grape-like trusses. Crack resistant. **L**

16102 Sunsugar. 62 days. ½ oz. IND, FT. Golden orange cherry. **M**

25282 Supersweet 100. 65 days, ½ oz. IND. High yielding red cherry in clusters on long branches.

24839 Sweet Hearts. 60 days. Top selling grape tomato. Brilliant, dark red fruit. Excellent flavor and shelf life. Resistant to cracking. **N**

24840 Sweet Million. 62 days. ½ oz. IND. VF. Small round red, full flavored classic cherry. **O**

Sweet N Neat Series
90 days. ½ oz. DET. Miniature 8 in. plants. Good for instant container gardens.

19733 Scarlet
19749 Yellow P

25623 Sweet Valentines. 14-16 weeks from sow to finish. DET. Very compact, cascading habit. Sweet tasting heart-shaped fruit. Ideal in hanging baskets or in combinations as spiller component. Can be sold with fruit on plant for Christmas and Valentines Day. Height: 16-20 in. **Q**

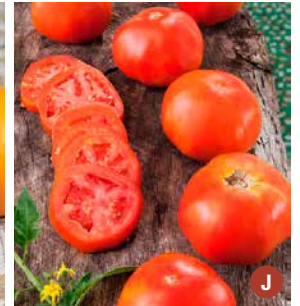
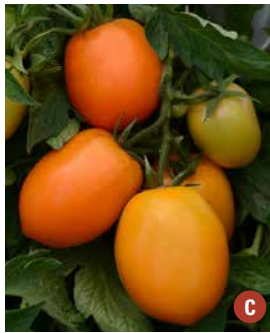
24476 Tidy Treats. 50 days. ¾-1 in. IND. VF. Good in smaller space gardens and containers. Produces all season long. Height: 3-5 ft. Spread: 2-3 ft. **R**

22664 Topsy Tom. 50 days. 0.6 oz. DET. Perfect for 'upside down' planters as well as traditional containers and garden. Bite sized fruit with 'big tomato' flavor. Height: 12-18 in. unstaked. **S**

19835 NEW Totem Red. 55 days. DET. Small, bright red fruit, throughout the summer. Compact, but needs support due to heavy yields. Height: 18 in. Spread: 10 in. **T**

20792 Tumbler. 49 days. 1 oz. DET. Sweet and tasty cherry tomatoes on cascading plants. Ideal for hanging baskets and containers. Very prolific.

16109 Tumbling Tom Yellow. 65-70 days, ½ oz. DET. Cascading, branching cherry tomatoes for ornamental baskets. Delicious to eat. Vines 2 ft.



Tomato *continued*

Paste/Saladette

27042 NEW Cedro. 75 days. 4-6 oz. DET. Saladette. Bright red color inside and out. Widely adapted. Sets well, even in heat.

27044 NEW Invincible. 65 days. 4 oz. DET. Saladette. Sets in extreme conditions. Great disease resistance package. Deep red, oval shaped medium sized, smooth fruit.

24474 Little Napoli. 60 days. 2-2 ½ oz. DET. VF. High yielding, tasty paste tomatoes on a small plant. Gardeners can harvest enough at one time to make a batch of salsa or sauce. Height: 12-18 in. Spread: 2-3 ft. **A**

24835 Monticello. 73 days. 4 ½-5 ½ oz. DET. VFT. Large saladette with a unique flavor and blocky shape. Widely adapted, with multiple disease resistances. Height: 44-46 in. **B**

16098 Roma VF. 78 days. 2 oz. DET. VFN. The pasta tomato.

25187 Sunrise Sauce. 55-60 days. 3-4 oz. fruit. DET. Sweet and meaty, best taste when cooked. Unique orange fruit color for paste-type. Height: 2.5-3 ft. Spread: 2-3 ft. **C**

24075 Supremo. 68 days. 5-6 oz. DET. VF. Extra-large tasty, blocky fruits wonderful fresh and cooked. Highly productive, concentrated maturity, convenient for cooking. **D**

Heirloom

24718 Ace 55 VF. 80 days. 7 oz. DET. VF. Bright red medium size fruit. Low acidic flavor. Height: 4-6 ft.

25935-Oz Organic Ace 55 VF

24720 Black Cherry. 65 days. 1 in. IND. Dusky, purple-black, true round cherry with rich, sweet and complex flavor. **E**

25938-Oz Organic Black Cherry

24721 Black Krim. 80 days. 8-12 oz. IND. Medium sized beefsteak. Dark red-purple fruit with thin skin and green shoulders. Rich flavor. **F**

16074 Brandywine Pink. 90 days. 10-16 oz. IND. A true heirloom tomato, with the classic potato leaf foliage. Great flavor. **G**

25939-Oz Organic Brandywine Black
25940-Oz Organic Brandywine Pink
25941-Oz Organic Brandywine Red
25942-Oz Organic Brandywine Yellow

23625 Cherokee Purple. 72-90 days. 10-12 oz. IND. Unique heirloom with purple, flavorful, large fruit. **H**

16079 Giant Beefsteak. 80 days. 10-16 oz. IND. Red heirloom.

16090 Jubilee. 80 days. 8 oz., IND. Bright golden orange, heirloom with few seeds. **I**

16092 Marglobe Improved. 75 days. 6-10 oz. DET. Red heirloom.

24096 Mortgage Lifter. 85 days. 1-2 lbs. IND. Heirloom with large, well shaped, very meaty, beefsteak fruit. Few seeds.

16099 Rutgers Select. 82 days. 5 oz. DET. Famous Jersey tomato flavor. **J**

25951-Oz Organic Rutgers Select

16096 Red Cherry Large. 75 days. 2 oz. IND. Strong vigorous plants, small 1-2 in. round red fruits borne in large clusters. Heavy yielder, fine flavor raw or in salads.

25948-Oz Organic Red Cherry Large

16097 Red Cherry Small. 75 days. 1 oz. IND. Strong vigorous plants, small ½-1 in. round red fruits borne in large clusters. Heavy yielder, fine flavor raw or in salads.

19886 Yellow Pear. 78 days. 1 oz. IND. Yellow, pear-shaped fruits are firm skinned, 1 ½ in. long, and have a nice flavor. Good in salads, sauces or by themselves. **K**

25958-Oz Organic Yellow Pear

Heirloom Marriage Series

A cross between 2 heirloom varieties creating a new hybrid with the best of both parents. Better yields, earlier maturing, fewer blemishes, and same great flavor.

23977 Big Brandy. 75 days. 12-15 oz. IND. Big, pink fruit with outstanding flavor. Cross of Big Dwarf x Brandywine. **L**

24472 Cherokee Carbon. 70 days. 10-12 oz. IND. Purple beefsteak with rich flavor. Cross of Cherokee Purple x Carbon. **M**

23978 Genuwine. 70 days. 10 ½-11 ½ oz. IND. Bright red slicer with well-balanced, old-time look and flavor. Cross of Costoluto Genovese x Brandywine. **N**

24473 Marziner. 70 days. 2-3 oz. IND. Red paste tomato produces large yields of meaty fruit. Great for cooking. Cross of San Marzano x Cream Sausage. **O**

23979 Perfect Flame. 65 days. 3 ½-4 oz. IND. Orange saladette tomato with sweet-tart fruitiness. Cross of Peron x Flamme. **P**

MICROGREENS & SALAD GREENS

Gloeckner is proud to offer you these select Microgreens and Salad Greens seed for this increasingly popular market. Fine dining chefs use microgreens for their taste, textures, appearance, and flavors. Salad Greens are in high demand in upscale supermarkets and farmers markets. Microgreens and Salad Greens are a quick turn crop. All of these seeds are untreated, and non-genetically modified. Our organic seed is CCOF Certified Organic.

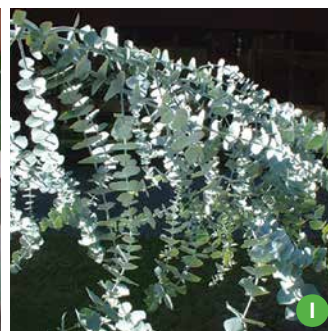
For all of our Organic vegetable seed varieties, see the Seed Price Booklet or visit us online at www.fredgloeckner.com.



California Certified
Organic Farmers (CCOF)
www.ccof.org

Item #	Variety	Microgreen	Salad Green	Form	Days	Taste	Stem	Leaf
25826	Amaranth Red	•	•	Organic	16-25	Mild	Bright Fuchsia	Bright Fuchsia
25827	Arugula A	•	•	Organic	16-25	Nutty	Red	Green
25828	Arugula Wild	•	•	Organic	16-25	Strong	Red	Green
25829	Basil Dark Opal	•		Organic	16-25	Mild	Purple	Purple
25830	Basil Large Leaf Italian	•		Organic	16-25	Full	Green	Green
25831	Basil Lemon	•		Organic	16-25	Spicy	Light Green	Shiny Green
25832	Beet Bulls Blood	•		Organic	16-25	Mild	Red	Red
25833	Beet Chioggia	•		Organic	16-25	Tangy	Pink	Light Green
25834	Beet Early Wonder	•		Organic	16-25	Mild	Red	Bright Green
25835	Beet Fresh Start B	•	•	Raw	16-25	Mild	Deep Red	Dark Green
25836	Beet Golden Detroit	•		Organic	16-25	Mild	Yellow	Bright Green
25837	Cabbage Red Acre	•		Organic	10-15	Mild	Red	Dark Green
25838	Chervil	•		Organic	16-25	Anise	Green	Green
25839	Chinese Cabbage Yuki	•		Raw	16-25	Mild	White	Green
24801	Cilantro Santo C	•	•	Raw	16-25	Medium	Green	Bright Green
25840	Coriander Long Standing	•		Organic	16-25	Medium	Green	Green
25841	Dill Bouquet	•		Organic	16-25	Mild	Green	Light Green
25842	Dill Dukat	•		Organic	16-25	Mild	Green	Light Green
25843	Kale Red Russian D	•		Organic	10-15	Mild	Red	Dark Green
25844	Kohlrabi Purple Vienna	•		Organic	10-15	Mild	Purple	Dark Green
25845	Lettuce Blend Leaf		•	Organic	16-25	Red and green leaf types and textures		
25846	Lettuce Blend Mesclun		•	Organic	16-25	Reds and greens, various textures		
25847	Lettuce Freckles Romaine		•	Organic	16-25	Bright green, with splashes of red		
25848	Lettuce Leaf Red		•	Organic	16-25	Dark red, ruffled and fringed		
25849	Lettuce Lolla Rosa Dark		•	Organic	16-25	Heavily fringed, green with red edges		
25850	Lettuce Romaine Green		•	Organic	16-25	Dark green, upright		
25851	Lettuce Romaine Red		•	Organic	16-25	Dark red, upright		
25852	Lettuce Royal Oakleaf		•	Organic	16-25	Bright, shiny dark green		
25853	Lettuce Salad Bowl Green		•	Organic	16-25	Lime-green, classic oakleaf		
25854	Lettuce Salad Bowl Red		•	Organic	16-25	Burgundy red, classic oakleaf		
25855	Lettuce Speckles Butterhead		•	Organic	16-25	Lime green, with specks of red all over		
25856	Lettuce Tango		•	Organic	16-25	Green, heavily fringed and curled		
25857	Mizuna	•	•	Organic	10-15	Mild	White	Green
25858	Mustard Mizuna Miz America E	•	•	Raw	16-25	Mild	Light Green	Red
25859	Mustard Red Giant	•	•	Organic	16-25	Spicy	Red	Green
25860	Orach Purple	•	•	Organic	16-25	Earthy	Purple	Purple
25861	Pac Choi Red	•	•	Organic	16-25	Earthy	Green	Dark Red
24866	Pak Choi White Stem	•	•	Raw	16-25	Mild	White	Bright Green
25862	Radish Daikon	•		Organic	10-15	Spicy	White	Dark Green
25863	Radish Sango Purple	•		Organic	10-15	Mild	Purple	Purple
25864	Spinach Nobel Giant	•		Raw	16-25	Medium	Green	Smooth Green
25865	Spinach Seaside F	•	•	Raw	16-25	Medium	Green	Deep Green
25866	Swiss Chard Celebration G	•		Raw	16-25	Mild	Multi-Color	Green
25867	Swiss Chard Fordhook Giant	•		Organic	16-25	Mild	White	Green
25868	Swiss Chard Orange Ribbed	•		Organic	16-25	Mild	Deep Orange	Bright Green
24832	Swiss Chard Peppermint H	•	•	Raw	16-25	Sweet	Fuchsia streaks	Dark Green
25869	Swiss Chard Rainbow Blend	•		Organic	16-25	Mild	Multi-Color	Green
27046	NEW Swiss Chard Ruby Fresh	•	•	Raw	16-25	Medium	Red	Dark Green
25870	Swiss Chard Ruby Red	•		Organic	16-25	Medium	Red	Bright Green
25871	Swiss Chard Yellow	•		Organic	16-25	Mild	Bright Yellow	Bright Green
25872	Tatsoi	•	•	Organic	10-15	Mild	Green	Green





12541 Agapanthus Getty White. A,D, 60 days. 32 in. flower with above average amount of white florets. Seed available all year. **A**

12542 Agapanthus Peter Pan (Lily of the Nile). A,D, 60 days. Seed available May-Sept.

12545 Aralia Sieboldii (Fastia japonica, Maple Leaf Aralia). A,D,J, 15 days. Very good keeper. Seed available all year. **B**

12551 Asparagus densiflorus Meyerii. B,D,I,J, 30 days. Stiff plume-like branches. Fox Tail. Height: 2-3 ft. Spread: 2-3 ft. Seed available Nov.-March. **C**

12552 Asparagus plumosus Nanus ✂ B,D,J, 30 days. Used extensively as a green filler for cut-flower. Seed available Jan.-March.

12553 Asparagus plumosus pyramidalis ✂ B,D,J, 30 days. Plumed asparagus for cut and pots. Seed available all year.

12554 Asparagus retrofractus (Myriocladus, Ming Fern). B,D,J, 35 days. Airy tufts on long fronds. Seed available Jan.-March.

12555 Asparagus densiflorus Sprengerei. B,D,J, 30 days. Good hanging basket plant. 70°-80°F. to germinate, but 60°F. to grow. Height: 2-3 ft. Spread: 2-3 ft. Seed available all year.

12557 Asparagus virgatus (Tree Fern). B,D,I,J, 20-30 days. Decorative and attractive erect habit. Seed available all year. **D**

12560 Beucarnea recurvata (Nolina, Ponytail). A, 60 days. Very tough. Seed available Aug.-Oct.

12570 Chamaerops humilis (Mediterranean Fan Palm). B,D, 90 days. Green to bluish green foliage on spiny leaf-stalks. Seed available Nov.-March.

12574 Cordyline atropurpurea Red Spike. A, 35 days. Bronze/red spike. Seed available all year. **E**

12576 Cordyline dracaena Spike. A, 35 days. Green Spike. Seed available all year.

12582 Dodonea viscosa purpurea (Purple Hop Bush). A,D, 60 days. Strongly bronze-tinted willowlike foliage that darkens in winter. Seed available Aug.-Sept.

Dracaena indivisa Spike – See Cordyline.

12583 Dracaena draco (Dragon Tree). B, 90 days. Stout trunk with spreading branches topped by heavy, 2 ft. sword-shaped leaves. Greenish white flowers form at branch ends. Seed available all year.

12585 Eucalyptus Baby. C, 45 days. Dwarf blue. Seed available March. **F**

12588 Eucalyptus cinerea ✂ C, 45 days. For cut foliage, not pots. Seed available all year.

42559 Eucalyptus citriodora Lemon Bush. Strong lemon fragrance. Repels insects. For containers. Seed available all year.

12594 Eucalyptus gunni (Cider Gum) ✂ C, 45 days. A cut foliage gum. Seed available all year. **G**

20179 Eucalyptus gunnii Silverdrop ✂ Fragrant, small, round, silvery-blue-green foliage on strong, fast growing upright stems. Great filler. Good branching. Height: 2-3 ft. Spread: 8-10 in.

12595 Eucalyptus Kira's Supreme ✂ C, 45 days. Improved Baby Blue strain with slightly larger leaf. Very blue-gray, round, closely spaced leaves. Ideal for fresh cut or dried. Clean seed. Available all year.

12597 Eucalyptus Nicholii (Nichol's Willow) C, 45 days. Graceful, weeping tree. Narrow, 3-5 in. long, light green leaves. Furrowed, reddish brown bark. Seed available all year.

26950 NEW Eucalyptus Parvula ✂ (Small-Leaved Gum) Noted for its small leaves and nice, typical, eucalyptus fragrance. Very popular filler.

12598 NEW Eucalyptus Polyanthemos ✂ (Silver Dollar) Silvery, round leaves, like silver dollars. Popular filler with strong color contrast. **H**

12599 Eucalyptus pulverulenta ✂ (Silver-leaved Mountain Gum) C, 45 days. The popular cut Eucalyptus. Seed available all year. Clean seed. **I**

12601 Ginkgo biloba (Maidenhair Tree). B,D,G, 60 days. 1-4 in. wide, fan shaped leaves, resemble maidenhair fern. Seed available Sept.-Jan. **J**



12602 Grevillea robusta (Silk Oak). B,D,J,K 68°F, 30 days. Seed available all year. **K**

12611 Mimosa pudica (Sensitive Plant). B,D,F, 10 days. Leaves collapse upon being touched. Seed available all year. **L**

12612 Monstera deliciosa (Split-leaf Philodendron). B,D, 14 days. Young foliage is uncut. Mature leaves are heavy, leathery, dark green, deeply cut and perforated. Seed available Sept.-July. **M**

12615 Neanthe Bella (Parlor Palm). A,D,I, 40-180 days. Fast growing foliage plant. Seed available Oct.-March. **N**

12620 Philodendron selloum (Tree Philodendron). C,D, 25 days. The most popular of the heading types. Seed available all year. **O**

12625 Pittosporum tobira (Mock Orange). A,D,G, 30 days. Tough evergreen shrub. Leathery, narrow, elliptical, shiny dark green 5 in. leaves. Fragrant, creamy white flowers in early spring. Seed available March. **P**

12629 Punica granatum nana (Dwarf Pomegranate). A,D, 30 days. Dense grower to 3 ft. high, 6 ft. wide. Blooms at a foot tall or less. Orange red single flowers followed by small, dry red fruit. Seed available Oct.-March. **Q**

12630 Radermachera sinica (China Doll). C,D, 30 days. A maze of small glistening leaves. Seed available Sept.-Dec.

12633 Schefflera arboricola (Dwarf Umbrella Plant). A,D,E, 40 days. Dark green leaves with 3 in. leaflets that broaden toward rounded tips. Yellowish flowers are clustered in flattened, foot wide spheres. They turn bronze with age. Seed available all year.

12638 Smilax Asparagus asparagoides. A,D,E,G, 40 days. Handsome shine foliage. A popular climber. Seed available all year.

12639 Strelitzia nicolai Giant (Giant Bird of Paradise). B,D, 75 days. Grown mainly for its dramatic gray-green foliage. Seed available Sept.-March. **R**

12640 Strelitzia reginae (Bird of Paradise) ✂ B,D, 50 days. Grown for spectacular flowers, which bear a startling resemblance to the heads of crested tropical birds. Seed available all year.

12641 Trachycarpus fortunei (Chinese Windmill Palm). B,D, 60 days. Cold tolerant ornamental palm. Seed available Feb.-May.

12642 Tulbaghia violacea (Society Garlic). A,D, 30 days. Leaves and flower stems have garlic odor if crushed. Deer repellent. Seed available all year.

12645 Washingtonia robusta (Mexican Fan Palm). B,D, 20 days. Trunk is slightly curved, slimmer than W. filifera. Seed available all year.

Germination Notes

Light – Not required unless marked "L".

Temperature – Fluctuation between 60° and 80°F daily is ideal, with daylight bottom heat of 70°-72°F.

Letter Key for culture information codes:

A. Cover seed with soil very lightly.

B. Cover seed with soil to depth of 1 to 2 times diameter of seed.

C. Sow on surface. Do not cover.

D. Soak seed overnight in water. Screen dry to avoid clumping.

E. Seed of very short viability. Positively must be sown at once.

F. Hot water treatment of seed. Pour water of 165°F. over seed, let cool and soak 24-36 hours before sowing.

G. Cold Treatment – Place seed in airtight mason jar or medicine vial and refrigerate in regular vegetable compartment 30 days.

H. Seed not stocked. Shipped only upon crop during month or months indicated.

I. Erratic seed supply. May be 3-4 months wait.

J. Germination best in dark.

K. Maintain steady temperature as indicated.

Example of culture information codes:

(A, 40 days)

A = Cover seed with soil very lightly

40 days = Days to germinate

ORNAMENTAL GRASS

ANEMANTHELE



18680 Anemanthele Sirocco. Only pink grass from seed. Turns shades of copper and pink in cool conditions. Height: 12-14 in. Zone to 6. Multi-seed pellet. **A**

12955 Briza maxima (Quaking Grass) ✂️ Annual cut flower. Flower resembles a shrimp or tail of rattle snakes. Direct sown. Height: 20 in.

21217 Carex comans Amazon Mist. Pot Height: 8 in. Garden Height: 10 in. Spread: 14 in. Zones: 7-9. Multi-seed pellet. **B**

21218 Carex comans Bronco. Pot Height: 8 in. Garden Height: 10 in. Spread: 14 in. Zones: 7-9. Multi-seed pellet.

20226 NEW Carex Comans Bronze Curls. A clumping sedge. Pale bronze, finely textured leaves form an arching mound. A lovely addition to mixed containers. A low-maintenance option for landscapes. Height: 12 in. **C**

20227 Carex comans Zora. Unique texture and deep caramel foliage. A perfect accent in mixed containers. Height: 12-14 in. **D**

21219 Carex comans Phoenix Green. Sturdy upright narrow bright green leaves. Heat tolerant, low maintenance plant. Height: 2 ft. Spread: 16-20 in. Zones: 6-8. Multi-seed pellet. **E**

21220 Carex buchananii Red Rooster. Pot Height: 12 in. Garden Height: 24 in. Spread: 12 in. Zones: 7-9. Multi-seed pellet. **F**

20228 Carex flagellifera Auburn. Weeping Brown Sedge. Bronze-red fine-textured leaves of young plants are tufted and erect. The upright leaves arch over the ground as it matures. Hardy and low maintenance – all around tough plant. Outstanding with silver foliage plants, brightly colored flowers, or variegated grasses. Best planted in groups close together. Height: 14 in. **G**

20230 Carex pendula Fresh Look (Pendulous Sedge). Cylindrical spikes of pendulous flowers. Attractive shiny green foliage cascades downward. In the fall, plant is topped with brown catkins. Best in containers, mixed borders and for naturalizing. Takes full sun in cool climates, needs some shade in hottest zones. Height: 5 ft.

20229 Carex Frosted Curls (New Zealand Hair Sedge). Very hardy dwarf sedge. Silvery, dense green tufts of fine-textured, hair-like cylindrical leaves shimmer with the slightest breeze. Best in mixed containers and landscape. Height: 10 in. **H**

Cortaderia selloana (Pampas Grass) ✂️ Tender perennial. Tall plants produce large silky, feathery plumes 12 in. long. Very popular. Will be shorter in Northern areas. Height: 6-10 ft. Zones: 7-10.

12964 Pink Feather I **12965 White Feather J**

21222 Corynephorus canescens Spiky Blue (Clubawn Grass). Blue-green, matures to reddish green. Pot Height: 6 in. Garden Height: 8-10 in. Spread: 8 in. Multi-seed pellet. Zones: 7-9. **K**

21223 Festuca cinera Festina (Blue Fescue). Perennial for rock gardens and borders. Tufts of silvery blue thread-like leaves. Pot Height: 6 in. Garden Height: 10 in. Spread: 10-15 in. Zones: 4-10. Multi-seed pellet. **L**

13290 Isolepis cernua Live Wire (Fiber Optic Grass). A unique looking grass for mixed containers. Flowers look like fiber optic strands. Dense, mounded habit without pinching or PGRs. Best in packs, 4 in, 6 in. Height: 6-8 in. Spread: 18-20 in. Multi-seed pellet.

12972 Juncus effusus Spiralix. Upright twisted leaves. Interesting texture for containers and landscape. Height: 19 in. Pelleted seed.

24159 Juncus inflexus Afro (European Meadow Rush). Attractive blue-grey strong spiral stems. Height: 14 in. Spread: 1-2 ft. Pelleted seed. **M**

18676 Juncus inflexus Blue Arrows. Very versatile, with stiff upright blue green foliage. Can be grown as a pond plant, but is drought tolerant when grown in ground. Height: 3 ft. Spread: 12 in. Zones: 5-9. Multi-seed pellet. **N**

18677 Juncus pallidus Javelin. Tall stately green grass. Rugged plant can grow in standing water, but handles heat and drought. Straw color winter interest. Height: 4-5 ft. Spread: 18-20 in. Zones to 7. Multi-seed pellet. **O**

19078 Juncus ensifolius Starhead. Foliage is green with dark green star inflorescence. Height: 10 in. Zones to 6. Multi-seed pellet.



19080 Juncus tenuis Blue Dart. Alternative to dracaena. Linear, blue foliage with strong vertical habit. Height: 14-16 in. Spread: 10-12 in. Zone: 5. Multi-seed pellet. **A**

19081 Juncus Twisted Arrows Fuseable. Each pellet includes Blue Arrows and Spiralis. Height: 18-36 in. Spread: 12-18 in. Multi-seed pellet. **B**

20238 Juncus Twisted Dart Fuseable. Each pellet contains seed of Juncus Blue Dart and Juncus effusus spiralis. Height: 14-16 in. Spread: 10-18 in. Multi-seed pellet. **C**

21224 Koeleria glauca Coolio. Pot Height: 4 in. Garden Height: 6-8 in. Spread: 8 in. Zones: 6-9. Multi-seed pellet.

12974 Lagurus ovatus (Hares Tail Grass) ✂️
Annual for garden and cut-dried arranging. Velvety foliage and plumes. Blooms in 14-16 weeks from early April sowing. Height: 16-18 ft. **D**

21225 Luzula nivea Lucius. Pot Height: 6 in. Garden Height: 24 in. Spread: 18 in. Zones: 6-10. Multi-seed pellet. **E**

23856 Melinis Savannah (Ruby Grass) ✂️
Dense, velvety, ruby pink panicles. Blue green leaves turn deep red in fall. Flat tuft-forming habit. Ideal for container production and fresh and dried floral arrangements. Height: 18 in. Spread: 12 in. **F**

12977 Millet Pennisetum glaucum Jester. Mature height is approximately ¾ of the height of Purple Majesty with wider leaves and more basal branches. Plants spike and develop seed slightly later than Purple Majesty. Well

suited to containers, gardens and mass plantings. Height: 3 ½ ft. Spread: 10-14 in. **G**

12978 Millet Limelight (Spray Millet) ✂️
A long arching light green seed head, if dried with heat. Great fresh cut with a long harvest. **H**

25370 Millet Pennisetum glaucum Jade Princess. Rich brown, pollenless panicles with controlled, mounded compact habit. Branches at soil line. Likes it hot; needs above 60°F to perform well. Plug: 2-3 weeks. Finish: 4-5 weeks. Height: 24-30 in. Spread: 18-24 in. **I**

12979 Millet Pennisetum glaucum Purple Majesty. **AAS Winner.** Striking corn-like plant with deep purple foliage, stems and flower plumes. Cat-tail like flowering plumes are 12-14 in. long. The more sun, the deeper the foliage color and the narrower the leaves. Suited for 4 in. pots to gallon containers. Height: 4-5 ft. Spread: 8-12 in. **J**

12981 Millet Purple Mist (German Millet) ✂️
Easy annual that produces a slender head with purplish color. Use as fresh cut and dried. Height: to 36 in. **K**

12980 Millet Tapestry ✂️
Grey/green/purplish seed head that is semi-open. Direct seed. Use as fresh cut or dried. **L**

18947 Panicum elegans Frosted Explosion ✂️
Exciting new bouquet filler. High germination, good uniformity and high production rate per plant. For field or greenhouse production. Height: 2-3 ft. Spread: 3-4 in. **M**

12984 NEW Pennisetum setaceum Fuzzy ✂️
(Crimson Fountain Grass)

Grown as annual. Stems topped with wispy 6 in. rosy-purple plumes. Very desirable for fresh and dried arrangements. Best to cut stems before they set seed to prevent self-sowing. Height: 2-3 ft. Zones: 8-10. **N**

12985 Pennisetum villosum (Feathertop) ✂️
Grown as annual. Produces plump, creamy white 4 in. plumes. Best when ground is irrigated or very lightly sprayed overhead. Does not hold up well under heavy overhead watering. Height: 2 ½-3 ft. **O**

12986 Phalaris canariensis (Canary Grass) ✂️
An annual ideal for cut-dried arrangements. Green seed heads make fine fresh cut material while brown dried seed heads can be dyed or used naturally in autumn arrangements. Sow in April, transplant to garden in May. Plants will bloom June/July. **P**

19776 Setaria Red Jewel ✂️
Easy to grow and extremely productive millet. One planting may harvest up to 6 weeks. Long leaves mature from green with a hint of red to a red brown. Height: 4 ft. **Q**

20943 Stipa tenuissima Pony Tails. Pot Height: 10 in. Garden Height: 1-2 ft. Spread: 24 in. Zones: 7-10. Multi-seed pellet. **R**

Product	Category	Seeds/ Ounce	Cover Seed	Germ Temp °F	Days to Germ	Sow to Transplant	Finishing Night Temp °F	Transplant to Flower from 512
Abelmoschus	Annual	400	Yes	70	4-9			
Abutilon	Annual	8,500	Yes	65-75	3	25-35 days	62-65	8-9 weeks
Achillea	Perennial	140,000	No	65-70	8-14	35-40 days	60-65	5-6 weeks
Agastache	Perennial	68,000	Yes	60-70	4-8	25-35 days	65-70	10-12 weeks
Ageratum	Annual	200,000	No	78-85	7-10	28-38 days	60-65	Spring, 8 weeks
Agrostemma	Annual	42,000		65-70	4-8			
Alternanthera	Annual	17,400	Yes	72-76	3	28-35 days	62-65	4-5 weeks
Alyssum	Annual	90,000	No	75-82	6-10	28-38 days	50-55	Spring, 3-4 weeks
Alyssum	Perennial	30,000	No	62-70	10-25	49 days	50-55	
Amaranthus	Annual	44,000	No	73-75	8-10		65-67	
Ammi	Annual	40,000		68-70	7-14		60-62	
Anemone	Annual	56,000	Yes	59	14-21		42-48	
Anemone	Perennial	56,000	Yes	59	14-21		42-48	
Anethum	Annual	24,800	No	65-70	5-8	28-35 days	62-65	
Angelonia	Annual	28,500	No	74	4-5	35-42 days	64-66	8-10 weeks
Aquilegia	Perennial	15,000	No	68-72	14-30	54-70 days	55-60	15-20 weeks
Arabis	Perennial	125,000	No	70	15	42 days	50	
Asclepias	Perennial	11,000	Yes	70-75	21-28	35-55 days	60-65	7-11 weeks
Asparagus orn	Foliage	500	Yes	78-80	22-40	32-44 days	60-65	Spring, 24 weeks
Aster	Annual	12,000	Yes	70	8-10	32-44 days	60-65	24 weeks
Aster	Perennial	62,300	No	65-70	15	21-30 days	55-60	14-16 weeks
Astilbe	Perennial	350,000	No	50-65	14-21	56 days	50	
Atriplex	Annual	7,500	Yes	68-72	7-14			
Bacopa	Annual	34,020	No	68-77	4	21-28 days	55-60	4-6 weeks
Basil	Vegetable	16,000		65-70		23-28 days	62-65	Spring, 4-5 weeks
Basilicum	Annual	16,000	Yes	70	5-8	23-28 days	62-65	Spring, 4-5 weeks
Begonia Fibrous	Annual	2,000,000		72-78	15-20	41-56 days	60-65	Spring, 6-8 weeks
Begonia Tuberous	Annual	1,000,000	No	72-78	15-28	49-73 days	65-68	Spring, 10-12 weeks
Bellis	Perennial	140,000	No	68-75	6	35 days	50	
Bells of Ireland	Annual	4,200	No	50N-86D	28-35		60-62	
Bergenia	Perennial	110,000	No	72-75	12-21	35-42 days	65	
Brazilian Fireworks	Annual	15,000		65-75	4-5	35-42 days	66-68	10-14 weeks
Broccoli	Vegetable	6,000	Yes	70	5-10	10-14 days	50-55	4-6 weeks
Browallia	Annual	125,000		75-78	7-14	49-52 days	60-65	Spring, 8-9 weeks
Brussels Sprouts	Vegetable	7,000	Yes	70	5-10		50-60	
Bupleurum	Annual	10,000		60-65	14-21		69-75	
Cabbage	Vegetable	7,000	Yes	70	5-10	10-14 days	50-55	4-6 weeks
Calceolaria	Annual	1,000,000	No	65-70	10-15		55-62	
Calendula	Annual	3,000	Yes	70	7-10	32-36 days	55-58	Spring, 9-10 weeks
Campanula	Annual	1,500,000	Yes	68-72	7-14		50-55	
Campanula	Perennial	1,500,000	No	60-65	14-25	49-70 days	58-60	Spring, 10-15 weeks
Candytuft ibris	Annual	9,500		65-70	7-14		50-55	
Canna	Annual	100	Yes	70-75	8-12	42-56 days	65	
Cantaloupe	Vegetable	1,000	Yes	75-80	5-10		65-70	
Carex	Grass	51,000	Yes	68-72	7-14	28 days	50-60	10-12 weeks
Carnation	Ann/Per	25,000	Yes	68-70	7-10	35-42 days	50-55	10-14 weeks
Carthamus	Annual	800	No	70	7-10	28-42 days	65-68	
Cauliflower	Vegetable	7,000	Yes	70	5-10		50-60	
Celery	Vegetable	70,000	Yes	70	10-15		60	
Celosia	Annual	34,000	Yes	75-80	5-10	32-40 days	65-68	Spring, 13 weeks

Product	Category	Seeds/ Ounce	Cover Seed	Germ Temp °F	Days to Germ	Sow to Transplant	Finishing Night Temp °F	Transplant to Flower from 512
Centaurea	Annual	7,000	Yes	65-70	5-10	35-42 days	50-55	
Centaurea	Perennial	2,100	Yes	65-72	14-21	28 days	60	
Centranthus	Perennial	17,500	No	60-65	14-21	42 days	60	
Cerinth	Annual	560		70	5-21			
Chives	Vegetable	28,000	Yes	70	7-14		68-70	
Chrysanthemum	Annual	25,000	No	60-65	10-14	35-49 days		
Chrysanthemum	Perennial	15,000	No	68-75	7-14	35 days	50	
Cineraria	Annual	150,000	No	70-75	10-14	40-52 days	60-62	Winter, 12-14 weeks
Cirsium	Annual	18,000		60-65	7-14		50-58	
Cleome	Annual	14,000	Yes	70-72	8-11	20-25 days	70-75	7-8 weeks
Coleus	Annual	100,000	No	70-80	10-13	35-43 days	62-65	Spring, 4-6 weeks
Cordylone	Foliage	10,000	No	80	34-40		62-65	10 weeks
Coreopsis	Perennial	10,000	No	68-75	7-21	35 days	50	
Coriander	Vegetable	2,000	Yes	60	14-18		55-58	
Corynephorus	Grass	225,000	No	68-72	14-21	30 days	50-60	10-12 weeks
Cosmos	Annual	3,500	Yes	72-75	5-7	25-33 days	60-65	Spring, 4-6 weeks
Craspedia	Annual	10,000	No	70	7-14	35-42 days	65	
Cucumber	Vegetable	1,000	Yes	72	7-8		60-62	
Cuphea	Annual	16,000		64-68	7-10	28-42 days	60	
Cyclamen	Annual	2,500	Yes	65-68	28-32	56-77 days	58-62	Spring, 23-25 weeks
Dahlia	Annual	2,800	Yes	75-80	6-9	27-32 days	60-65	Spring, 5-7 weeks
Delphinium	Perennial	8,000	Yes	70-75	12-18	20-28 days	50-55	9-12 weeks
Dianthus	Ann/Per	22,000	Yes	70-72	7-9	31-40 days	50-55	Spring, 8-10 weeks
Diascia	Annual	4,900	Yes	65-70	4-6	28 days	50-60	6-8 weeks
Dicentra	Perennial	5,600	Yes	55	21-28		55	
Dichondra	Annual	6,070	Yes	72-76	4	35 days	62-65	5-6 weeks
Didiscus	Annual	3,600	Yes	70-72	6-12		60-65	
Digitalis	Perennial	125,000	No	70-75	7-9	35 days	50	
Dill	Vegetable	27,000	No	68-72	5-8	30-43 days	55-60	Spring, 4-5 weeks
Dimorphotheca	Annual			68-72	3-5			
Dusty Miller	Annual	50,000	No	72-75	10-15	31-48 days	60-65	Spring, 7-9 weeks
Echinacea	Perennial	8,000		70	10-15	14-21 days	50-55	8-10 weeks
Eggplant	Vegetable	6,000	Yes	70-75	7-14	12-20 days	60-62	4-6 weeks
Eragrostis	Grass	107,000	Yes	72-76	3-8	20-28 days	60-64	6-8 weeks
Erigeron	Annual	386,000	No	59-64	7			
Erigeron	Perennial	85,000		70-72	5-10			
Erysimum	Annual	14,000	Yes	72	2-4	28 days	55-60	7-9 weeks
Euphorbia	Annual	7,500	Yes	68-72	10-15		60-62	
Felicia	Annual	17,000	Yes	70	5-10			
Fennel	Vegetable	6,000	Yes	70	7-10		55-60	
Festuca	Grass	23,000	Yes	68-72	7-21	21-28 days	58-60	10-12 weeks
Flower Kale/Cabbage	Annual	7,000	Yes	70	7-14	14-24 days	50-55	Spring, 7-8 weeks
Gaillardia	Annual	16,800	Yes	68-72	4-6	35-49 days	55-60	
Gaillardia	Perennial	9,000	Yes	68-75	8-21	35 days	50	
Gazania	Annual	12,000	Yes	70	10-14	25-28 days	55-60	Spring, 7 weeks
Geranium	Annual	6,000	Yes	72-75	2-7	17-25 days	65-70	Spring, 8-11 weeks
Geranium Ivy	Annual	6,000	Yes	72-75	2-7	12-20 days	60-65	14-15 weeks
Gerbera	Annual	7,000	Yes	68-72	8-12	35-30 days	60-65	14-20 weeks
Geum	Perennial	10,000	No	68-75	10-20	35 days	50	
Gloxinia	Annual	800,000	No	65-70	15-25	35-42 days	65-68	11-14 weeks

Product	Category	Seeds/ Ounce	Cover Seed	Germ Temp °F	Days to Germ	Sow to Transplant	Finishing Night Temp °F	Transplant to Flower from 512
Godetia	Annual	37,000		70	10	35-49 days	55	
Gomphrena	Annual	11,000	Yes	72-75	9-12	30-43 days	62-65	Spring, 4-5 weeks
Gourds Orn	Annual	425	Yes	70-72	5-8		60-72	
Gypsophila	Annual	24,000	Yes	70-80	10-14	14-21 days	50-55	
Gypsophila	Perennial	33,000	No	70	7-10	35 days	50	
Helenium	Annual	5,000	Yes	65-75	3-5	21-28 days	64-66	5-7 weeks
Helenium	Perennial	8,500	No	72	8-12	35 days	45-50	
Helichrysum	Annual	45,000		70-75	7-10	27-34 days	55-60	Spring, 6-6.5 weeks
Heliopsis	Perennial	8,000	No	65-60	14-21		55	
Hesperis	Perennial	14,000	No	70-85	10		55	
Heuchera	Perennial	500,000	No	65-75	10-18	35-55 days	55-60	6-9 weeks
Hibiscus	Ann/Per	2,835	Yes	70-72	7-10	21-28 days	68-70	9-13 weeks
Hollyhock	Perennial	3,000	Yes	63-70	8-14	28 days	50	
Hypoestes	Annual	18,000	No	70-75	7-9	31-39 days	60-68	Spring, 8-10 weeks
Iberis	Perennial	11,500	No	60-65	16-20	35 days	50	
Impatiens wallerana	Annual	40,000	Yes	75-78	7-18	34-43 days	62-65	Spring, 5-6 weeks
Iresine	Annual	44,800	Yes	72-74	3-4	28 days	62-65	5-6 weeks
Isolepis	Grass	13,500		64-68		28-35 days	64-66	4-6 weeks
Isotoma	Annual	300,000	Yes	70-72	8-12	28-49 days	60	
Juncus	Grass	29,000		64-75		35-42 days	59-64	5-7 weeks
Koeleria	Grass	79,000	Yes	68-72	21-28	21-28 days	55-58	7-9 weeks
Kohlrabi	Vegetable	9,000	Yes	70	10		50-60	
Larkspur	Annual	10,000	Yes	55-65	10-20	56 days	50-55	4-6 weeks
Lavandula	Perennial	30,000	Yes	65-70	21-28	35 days	50	
Lavatera	Annual	5,600		68-72		21-35 days	64-68	8-10 weeks
Lettuce	Vegetable	15,000	Yes	70	5-7		55-58	
Liatris	Perennial	9,500	No	65-70	12-14	35 days	50	
Linaria	Annual	18,900	No	68-70	5-12	28-35 days	50-60	5-7 weeks
Linum	Perennial	17,000	No	65-70	7-14	28 days	50	
Lisianthus	Annual	28,550	No	73-75	10	63-70 days	62-68	Spring, 10-12 weeks
Lobelia	Annual	700,000	No	75-80	14-21	32-41 days	50-55	Spring, 8-9 weeks
Lupinus	Perennial	1,000	Yes	70-75	16-20	28 days	50	
Luzula	Grass	57,000	Yes	68-70	21-28	21-28 days	55-58	9-10 weeks
Lychnis	Perennial	64,000	Yes	70	14-21	28 days	60	
Marigold	Annual	9,000	Yes	70-75	5-8	30-33 days	55-60	Spring, 6-8 weeks
Marjoran, sweet	Vegetable	132,000	Yes	70	4-8		55-58	
Matricaria	Annual	200,000	Yes	70	7-15	21-28 days	56-59	Spring, 9-10 weeks
Melampodium	Annual	5,500	Yes	65-70	7-10	20-24 days	60-62	7-9 weeks
Millet	Grass	3,300	Yes	72-78	7-10	14-21 days	64-66	Spring, 4-5 weeks
Mimulus	Annual	624,000	No	60-70	14-21	20-25 days	55-60	8-9 weeks
Mina lobata	Annual			61-64		14-21 days	64-75	11-14 weeks
Mint	Vegetable	472,000	Yes	70-75	12	17-22 days	50-55	Spring, 3-4 weeks
Monarda	Annual	56,000	No	60-65	14-21	35 days	60	
Monarda	Perennial	56,000	No	65-70	14-21	35 days	60	
Morning Glory	Annual	640	Yes	68-75	6-14		65-70	
Myosotis	Annual	50,000	Yes	68-74	3-5	35 days	50	
Myosotis	Perennial	50,000	Yes	65-70	7-14	35 days	50	
Nasturtium	Annual	220	Yes	65-70	10-14	24-31 days	62-65	Spring, 8-9 weeks
Nemesia	Annual	90,000	Yes	65-72	4-5	14-21 days	55-60	13-15 weeks
Nepeta	Perennial		Yes		14-21	35-49 days		7-10 weeks

Product	Category	Seeds/ Ounce	Cover Seed	Germ Temp °F	Days to Germ	Sow to Transplant	Finishing Night Temp °F	Transplant to Flower from 512
Nicotiana	Annual	250,000	No	70	7-12	31-43 days	60-65	Spring, 9 weeks
Nierembergia	Annual	176,000	Yes	70	6-15	35-49 days	60-62	
Nigella	Annual	11,000	Yes	65-70	7-14	60-62 days		
Oenothera	Perennial	5,600	No	65-75	14-21	42 days	65	
Okra	Vegetable	500	Yes	70	7-14		60-62	
Onion	Vegetable	9,000	Yes	70	7-10		55-60	
Oregano	Vegetable	245,000	Yes	70	4-8		50-55	
Osteospermum	Annual	3,680	Yes	68-70	8-12	28-35 days	60-62	7-10 weeks
Pansy	Annual	20,000	Yes	60-65	8-15	31-42 days	50-55	Spring, 8-9 weeks
Parsley	Vegetable	18,000	Yes	70	15-20		60-62	
Penstemon	Perennial	55,000	Yes	68-72	5-9		50	
Pentas	Annual	31,900	Yes	70-72	7-10	45-57 days	60-65	Spring, 9 weeks
Pepper	Vegetable	4,000	Yes	70-75	7-10	29-38 days	55-65	Spring, 4-7 weeks
Pepper-Orn	Annual	6,000	Yes	72-76	5-7	15-21 days	60	12-16 weeks
Perovskia	Perennial		Yes		21-28	56-70 days		14-16 weeks
Petunia	Annual	245,000	No	70-75	7-12	31-43 days	60-62	Spring, 6-8 weeks
Petunia Spreading	Annual	33,000	No	75-78	7-12	31-43 days	60-65	Spring, 7-10 weeks
Phlox	Annual	14,000	Yes	60-63	10-14	33-42 days	50-55	Spring, 8-9 weeks
Phlox	Perennial	2,500	Yes	68-72	9-12	45 days	50-55	
Physalis	Perennial	17,500	No	65-75	14	28 days	65	
Platycodon	Perennial	32,000	No	68-70	21-28	18-28 days	55-60	6-9 weeks
Plectranthus	Annual	21,200	No	68-75	5-7	35-42 days	64-68	9-10 weeks
Poppy	Perennial	100,000	No	65-75		23-35 days	50-55	Spring, 15-16 weeks
Portulaca	Annual	280,000	No	70-75	7-10	30-38 days	60-65	Spring, 8 weeks
Primula acaulis	Annual	28,000	No	60	10-14	63-66 days	56-58	Spring, 8-12 weeks
Primula obconica	Annual	190,000		65-68		40-45 days	60-65	18 weeks
Ptilotus	Annual		No	75-79	5-7	42-56 days	68-75	
Pumpkin	Vegetable	200	Yes	72	7		62	
Purslane	Annual	7,260	No	68-74	3-4	28-35 days	65-68	6-7 weeks
Pyrethum	Perennial	17,500		65	14-21		55	
Radicchio	Vegetable	20,000		70-75				
Ranunculus	Annual	42,000	Yes	50-60	14-21	49-70 days	40-50	Fall, 14-16 weeks
Rhodochiton	Annual	104,000	No	70-72	5-8		60-65	
Rudbeckia	Ann/Per	25,000		70-72	5-10	20-35 days	50-55	8-10 weeks
Ruellia	Annual	13,850	Yes	72-76	5-6	35-42 days	65-68	8-10 weeks
Sage	Vegetable	3,000	Yes	68-70	6-10	20-27 days	55-58	Spring, 9-12 weeks
Salvia	Perennial	28,000	No	70	12-15	49 days	70	
Salvia farinacea	Annual	24,000	No	75-78	12-15			
Salvia splendens	Annual	7,500	No	65-75	10-14	33-42 days	55-60	Spring, 8 weeks
Sanvitalia	Annual	29,500	Yes	70-75	10	35-42 days	60-65	
Saponaria	Annual	14,000	No	68-72	4-8	63 days	55	
Saponaria	Perennial	14,000	Yes	60-70	14-21	63 days	55	
Savory, Summer	Vegetable	50,000	No	70	12-15		60-62	
Scabiosa	Annual	2,800	Yes	65-70	10-12		55-58	
Scabiosa	Perennial	2,100	Yes	65-70	14-21	28 days	65	
Schizanthus	Annual	45,000	No	64-72	8-14	21-35 days	45-65	Spring, 6-8 weeks
Sedum	Perennial	500,000	No	60	10-14	35 days	50	
Shamrock	Annual	28,000	Yes	65	10		50-55	
Shasta Daisy	Annual	37,500	Yes	70-75	10-14		55-60	
Silene	Ann/Per	85,000	Yes	70-72	3-6	7-21 days	50	

Product	Category	Seeds/ Ounce	Cover Seed	Germ Temp °F	Days to Germ	Sow to Transplant	Finishing Night Temp °F	Transplant to Flower from 512
Snapdragon Gdn	Annual	180,000	No	70-75	10-14	32-43 days	60-65	Spring, 10-12 weeks
Solidago	Perennial	220,000	Yes	68-70	5-8	21-28 days	50-55	
Spilanthus	Annual	116,200	Yes	72-76	4	28-35 days	62-65	6-7 weeks
Squash	Vegetable	260	Yes	72	10		62	
Stachys	Perennial	15,875		65-74		28-35 days	64-68	7-9 weeks
Statice sinuata	Annual	11,000		70	14-18		50-55	
Stipa	Grass	4,000	Yes	64-75	7-14	35-42 days	59-64	6-7 weeks
Stock	Annual	19,000	No	65-70	10-14	22-26 days	50-55	Spring, 10-11 weeks
Strawberry	Vegetable	60,000	Yes	65	21-28	21-28 days	60-62	10-12 weeks
Sunflower	Annual	625	Yes	68-72	5-10	21 days	61-68	9-11 weeks
Sweet Pea	Annual	350	Yes	55-70	14	7-15 days	41-50	16-20 weeks
Swiss Chard	Vegetable	1,700		68-72	4-8			
Talinum	Annual	26,500	Yes	68-74	3-4	35 days	62-66	4-5 weeks
Thalictrum	Perennial	12,000	No	70	15-30	42 days	60	
Thunbergia	Annual	1,100	Yes	70-75	12	17-24 days	60-62	Spring, 8-9 weeks
Thyme	Vegetable	10,000	Yes	70-75	7-14		62-65	
Tithonia	Annual	3,600	No	68-70	3-8	28-35 days	60-62	Spring, 6-10 weeks
Tomato	Vegetable	9,000	Yes	70-72	7-14	23-24 days	50-60	Spring, 3-5 weeks
Torenia	Annual	28,500	No	70-75	8-16	29-41 days	55-58	Spring, 6-7 weeks
Trachelium	Annual	18,500	No	62-70	14-21	25-30 days	52-68	10-14 weeks
Tritoma	Perennial	16,000	Yes	65-75	21-28	56 days	50	
Verbascum	Perennial	28,350	No	70-72	4-7	14-21 days	50	9-11 weeks
Verbena	Annual	10,000	Yes	75-80	12-18	35-42 days	62-65	Spring, 7-8 weeks
Verbena Bonariensis	Annual	112,000	Yes	75	5-12		60	
Veronica	Perennial	275,000	No	60-70	10-16	42 days	50	
Vinca	Annual	21,000	Yes	70-75	14-21	32-44 days	65-68	Spring, 9 weeks
Viola	Annual	30,000	Yes	65	14-21	40-45 days	50-55	Spring, 5-6 weeks
Zinnia elegans	Annual	2,000	Yes	68-70	5-10	25-28 days	55-60	Spring, 4-6 weeks

ASTER LIGHTING SCHEDULES

Sow Seeds	Pot Seedlings	Bench Plants	Approximate Flowering Date
Dec. 10	Jan. 10	March 1	May
Feb. 1	Feb. 20	April 1	June
March 15	April 10	May 15	July
April 20	May 10	June 15	August
May 20	June 10	July 15	September
June 10	July 1	August 15	October
June 20	July 15	August 20	November
July 10	August 1	Sept. 1	December
July 15	August 10	Sept. 15	January
August 15	Sept. 10	Nov. 1	February
Sept. 10	Oct. 1	Dec. 1	March
Oct. 20	Nov. 15	Jan. 1	April

Plants must be given additional light between September 1 and May 1 whether they are in seed flats or in the bench. If the plants are not lighted while in small pots they develop a rosette of leaves and growth of the stem and flowers is delayed. Plants should be lighted until the first flowers show color.

Low wattage bulbs will suffice for additional light. On a 4 ft. bench 60-watt lamps spaced 5 ft. apart and about 24 in. above the plants will give ample light for this crop. Spacing is usually 8 x 8 in. in the bench and a 60°F. night temperature is essential.

ADDITIONAL LIGHTING SCHEDULE

3 hours during the months of Sept., Oct., March and April.

4 hours during the months of November and February.

5 hours during the months of December and January.

SNAPDRAGON FLOWERING SCHEDULE

Group No. 1 — Winter and Early Spring Flowering

NORTHERN GROWERS

Sow Date	Bench Date	Flowering Date	Sow Date	Bench Date	Flowering Date	Sow Date	Bench Date	Flowering Date
Aug. 15	Sept. 5	Nov. 28	Sept. 5	Sept. 26	Jan. 16	Sept. 26	Oct. 17	Feb. 27
Aug. 18	Sept. 8	Dec. 5	Sept. 8	Sept. 29	Jan. 23	Oct. 3	Oct. 24	Mar. 5
Aug. 25	Sept. 12	Dec. 12	Sept. 12	Oct. 3	Jan. 30	Oct. 13	Nov. 3	Mar. 13
Aug. 25	Sept. 15	Dec. 26	Sept. 15	Oct. 6	Feb. 6	Oct. 24	Nov. 14	Mar. 20
Aug. 29	Sept. 19	Jan. 2	Sept. 19	Oct. 10	Feb. 13			
Sept. 1	Sept. 22	Jan. 9	Sept. 22	Oct. 13	Feb. 20			

SOUTHERN GROWERS: Not Recommend

Group No. 2 — Late Winter and Spring Flowering

NORTHERN GROWERS

Sow Date	Bench Date	Flowering Date	Sow Date	Bench Date	Flowering Date	Sow Date	Bench Date	Flowering Date
July 18	Aug. 8	Oct. 31	Aug. 25	Sept. 15	Jan. 9	Oct. 17	Nov. 7	Mar. 20
July 21	Aug. 11	Nov. 7	Aug. 29	Sept. 19	Jan. 16	Oct. 27	Nov. 17	Mar. 27
July 25	Aug. 15	Nov. 14	Sept. 1	Sept. 22	Jan. 23	Nov. 7	Nov. 28	Apr. 3
July 28	Aug. 18	Nov. 21	Sept. 5	Sept. 26	Jan. 30	Nov. 17	Dec. 8	Apr. 10
Aug. 1	Aug. 22	Nov. 28	Sept. 8	Sept. 29	Feb. 6	Nov. 28	Dec. 19	Apr. 17
Aug. 4	Aug. 25	Dec. 5	Sept. 12	Oct. 3	Feb. 13	July 17	Aug. 7	Oct. 31
Aug. 11	Sept. 1	Dec. 12	Sept. 15	Oct. 10	Feb. 20	July 20	Aug. 10	Nov. 6
Aug. 15	Sept. 5	Dec. 19	Sept. 19	Oct. 10	Feb. 27	July 24	Aug. 14	Nov. 13
Aug. 18	Sept. 8	Dec. 26	Sept. 26	Oct. 17	Mar. 6	July 27	Aug. 17	Nov. 20
Aug. 22	Sept. 12	Jan. 2	Oct. 6	Oct. 27	Mar. 13	July 31	Aug. 21	Nov. 27

SOUTHERN GROWERS:**Sow Date**

Aug. 22-Dec. 20

Flowering Date

Dec. 1-May 1

Group No. 3 — Late Spring and Fall Flowering

NORTHERN GROWERS

Sow Date	Bench Date	Flowering Date	Sow Date	Bench Date	Flowering Date	Sow Date	Bench Date	Flowering Date
June 23	July 14	Sept. 26	Nov. 14	Dec. 5	Apr. 10	June 26	July 17	Oct. 2
June 27	July 18	Oct. 3	Nov. 24	Dec. 15	Apr. 17	June 29	July 20	Oct. 9
June 30	July 21	Oct. 10	Dec. 5	Dec. 26	Apr. 24	July 3	July 24	Oct. 16
July 4	July 25	Oct. 17	Dec. 15	Jan. 5	May 1	July 6	July 27	Oct. 23
July 7	July 28	Oct. 24	Dec. 26	Jan. 16	May 8	July 10	July 31	Oct. 31
July 11	Aug. 1	Oct. 31	Jan. 5	Jan. 26	May 15	July 13	Aug. 3	Nov. 6
July 14	Aug. 4	Nov. 7	June 22	July 13	Sept. 25			

SOUTHERN GROWERS:**Sow Date**July 6-Aug. 16
Jan. 7-Mar. 8**Flowering Date**Oct. 1-Dec. 1
May 1-June 15

Group No. 4 — Summer Flowering

NORTHERN GROWERS

Sow Date	Bench Date	Flowering Date	Sow Date	Bench Date	Flowering Date	Sow Date	Bench Date	Flowering Date
Apr. 11	May 2	July 4	June 20	July 11	Sept. 12	May 1	May 22	July 17
Apr. 21	May 12	July 11	June 23	July 14	Sept. 19	May 11	June 1	July 24
May 2	May 23	July 18	Jan. 19	Feb. 9	May 22	May 22	June 12	July 31
May 12	June 2	July 25	Jan. 30	Feb. 20	May 29	June 1	June 22	Aug. 7
May 23	June 13	Aug. 1	Feb. 13	Mar. 9	June 5	June 5	June 26	Aug. 14
June 2	June 23	Aug. 8	Feb. 27	Mar. 20	June 12	June 7	June 29	Aug. 21
June 6	June 23	Aug. 15	Mar. 20	Apr. 10	June 19	June 12	July 3	Aug. 28
June 9	June 30	Aug. 22	Mar. 30	Apr. 20	June 26	June 15	July 6	Sept. 4
June 13	July 4	Aug. 29	Apr. 10	May 1	July 3	June 19	July 10	Sept. 11
June 16	July 7	Sept. 5	Apr. 20	May 11	July 10	June 22	July 13	Sept. 18

SOUTHERN GROWERS:**Sow Date**

Mar. 15-July 2

Flowering Date

June 15-Oct. 1

SPECIAL NOTICE: These forcing Snapdragon flowering timetables for northern growers are based upon repeated flowering trials. The dividing line between both areas generally follows the 38 parallel just south of the Mason-Dixon line. This line is only approximate, and growers on either side will notice exceptions depending on their locality. The addition of 800 ppm of CO₂ will speed up the schedules by several weeks.

GREENHOUSE SNAPDRAGON CULTURE

Seed Germination:

As a beneficial precautionary measure, particularly for Pythium control a "Root Shield" drench is highly recommended. Before sowing, drench filled seed flats using the "root shield" prescribed dosage. Allow flat to soak up liquid throughout, then immediately sow seed. Sow into an open soil-less mix with a pH of 5.5-5.8. Keep medium moist, but not saturated. Start the seeds at 70°-75°F; no warmer as snap seeds do not germinate well at higher temperatures. Keep the soluble salts low because snap seed and seedlings are very sensitive to high starter charges. Do not cover seeds, but light is not necessary for the first 4 days. Then 500-800 FC is required. After 10 days lower the soil temperature to 65°-70°F. and allow the soil to dry out slightly. A feed of 75 PPM N from a Calcium/Potassium Nitrate feed should be applied. Wash the fertilizer off the leaves if it is a bright day.

Drop the temperature to 60°-65°F after the 3rd week. The feed can be raised to 150 PPM N from a 20-10-20 source. Avoid any Ammonium Nitrate fertilizer on snaps, especially if the soil temperature is cool. Apply a fungicide drench at this stage. Seedlings are ready for transplanting in about 5 weeks from sowing. Do not plant too deep or pinch the tender stems with your fingernails while handling the small seedlings.

Soil Preparation:

Soil should have good aeration; add organic amendment as needed. As a soil amendment, "Waterworks", can be added at a rate of 8 lbs. per 100 sq. ft. in addition to regular organic amendment; it retains water yet helps drainage. Run a soil test and adjust pH and fertilize according to soil test results. Soil-borne disease can build up over time, steaming or fumigation can be used to pasteurize the soil medium prior to planting.

Spacing:

Northern Growers: Single stem space 12 plants per sq. ft. Support with Hortonova netting, place 3 plants per 6 x 6 in. square. Pinched, space 4 plants per sq. ft.

Southern Growers: Increase density by 1-2 plants per sq. ft.

Single-stem crops always grade higher, time faster, and cut cleaner than a pinched crop. Retail growers who like to cut over a long period and like different grades of flowers, may find a pinched crop is best. Pinched crops are too short and do not grade well for summer culture.

Temperature:

Snaps are a cool temperature growing crop, but respond to outside temperatures and cloudy and sunny weather. During cloudy weather, 50°F. nights and 58°F days. During sunny weather, raise these temperatures 5°F. The addition of CO2 at 1000 PPM requires the temperature to be raised another 5°F to take advantage of the CO2.

Flowering Groups 1,2,3,4:

Snap varieties have been bred to perform best during specific flowering periods.

Group 1 is for mid-winter, low light, short day length, and low temperature flowering. It also requires the longest growing schedule.

Group 4 is for mid-summer, high light, long day length, and higher temperatures. It also has the shortest growing schedule. The other 2 groups fall in between. Temperature, HID lights, and CO2 will also influence which group to use. Without HID lights it is not advisable to flower Snaps out of their recommended flowering periods.

Carbon Dioxide:

Winter grown Snaps respond to the addition of CO2 in tight greenhouses. It should be added for top quality and crop time reduction. This will often allow the use of a faster group.

HID:

The use of HID lights will speed up a crop of Snaps. Group 3 can be used all year round except in mid-summer. If you do not have fan and pad cooling, then a group 4 Snap should be used. HID lights will reduce crop time from 3 to 6 weeks.

Fertilizer:

Snaps are very sensitive to excessive salinity and high ammonium levels. The soil fertility should be monitored throughout the crop cycle. A program of adding 200 PPM nitrogen and potassium every third watering can be used. Stop fertilizing at bud elongation stage. The amount of fertilizer added can be adjusted up or down depending on growth rate.

Post Harvest Handling:

Cut when 7 to 10 flowers are open. Place cut stems immediately in water containing a preservative. Store at 40°F and be certain to keep the stems upright. Snap stems will bend up almost immediately if stored for even the briefest time in a non-verticle position. Once the tips bend it is permanent.

Direct Benching-Transplanting:

Snaps respond best when seedling or plugs are planted directly into the final growing medium. Transplanting to pots will almost always result in some checking. Many growers purchase snap seedlings from plug specialists. They are most commonly offered in 392 cell trays. Use of a plug extractor is highly recommended to speed planting and prevent damage to the plugs.

Watering:

Water thoroughly with a half strength feed. After the first watering check and lift any seedlings that have settled in too deeply. Also pick up any that are bent over or have leaves buried.

Schedules:

See your Gloeckner representative for assistance in establishing a workable Snap program for your particular growing conditions.

SUNFLOWER CULTURE

Common Name: Sunflower

Botanical Name: *Helianthus annuus*

Optimum Germination Temperature: 75°F/24°C

Optimum Growing Temperature: 55-65°F/13-18°C

Site Selection:

Choose a sunny site with good drainage.

Soil Preparation:

Sunflowers do best planted in soils with relatively low nutrient content. Soils with an EC greater than 0.7 mmhos (2:1 dilution) will cause the plants to grow too tall.

Seed Sowing:

Sow seeds directly into beds and cover lightly with soil. Water the seed beds thoroughly being careful not to oversaturate the bed which depletes the soil of oxygen. For greenhouse sowings maintain a maximum air temperature of 75°F/25°C with a minimum soil temperature of 50°F/10°C. For outdoor production sow when the soil has warmed to a minimum of 50°F/10°C. Seeds germinate in about 7 days. 7 to 10 days after seedlings emerge, thin out leaving only the strongest and most sturdy seedlings. A final spacing of 4 x 5 inches/10 x 12 cm. is ideal. Dense growing will help to reduce the amount of side branching and yield a flower size of 5 inches/12 cm.

Temperature:

After thinning, maintain a minimum air temperature of 50°F/10°C at night, and a maximum of 75°F/25°C during the day.

Fertilizer:

Sunflowers require less fertilizer to produce flower stems of high quality. Fertilize with a calcium nitrate-based formulation at 50-75 ppm N, targeting a media EC between 0.5 to 0.7 mmhos (2:1 slurry). Monthly supplemental drenches with magnesium sulfate (MgSO₄) at 30 ppm Mg (4 ounces per 100 gallons/30 grams per 100 liters) are recommended to maintain a healthy leaf color. Water the plants only moderately to avoid overgrowth and weak plants.

Note: Excessive Nitrogen, especially in the summer, causes plants to grow too vigorously with abnormal flower shapes.

Timing:

In general, during short days (<12 hours), plants will flower more quickly with smaller discs on shorter stems. Under long day conditions (>13 hours), plants will flower later with larger discs on taller stems.

Insects:

Aphids, lygus bugs and whiteflies are the principal pests. Spray as needed.

Harvesting:

Cut stems when the flowers are 1/4 open with the petals perpendicular to the center disc. To ensure the longest vase life, cut the stems at the proper stage. Late harvesting will result in reduced vase life.

Post-Harvest Care:

Stems should be cut into and held in a commercial holding solution with a biocide or acidified water. Sunflowers benefit greatly from solution with a low pH (acidic). Sunflowers are prone to water stress problems so make sure stems stay hydrated.

Culture for dwarf (gerbera-sized) Sunflowers for use in bouquets

Flower size is controlled by plant density, temperature, soil EC and day length. Long days, low-density, moderate EC levels and warm temperatures promote large flowers. Conversely, short days, high density, low EC levels and cool temperatures promote smaller flowers. Using the following culture, one can produce smaller, (more dwarf), flowers than normal with 2 1/2-3 foot/75-90 cm. stems.

- Irrigate the cut flower bed thoroughly before sowing and avoid watering after sowing, except at the point of wilt.
- Spread a 4 x 4 inch/10 x 10 cm. netting on the cut flower bed.
- Use a high-density production by thinning to leave 3 seedlings per 4 inch/10 cm. square for outdoor production or 2 seedlings per 4 inch/10 cm square for indoor production.
- After germination, apply short days, (March to September in the Northern Hemisphere and September to March in the Southern Hemisphere), for 15 days (dark condition 5 PM-8 PM).

The Basic concept is to maintain the plants in a hungry condition with less water and fertilizer to make them bloom faster under short day conditions. Harvest twice a day, (morning and late afternoon), when the buds show color.

"All information given is intended for general guidance only and may have to be adjusted to meet individual needs. Cultural details are based on North America conditions and Fred C. Gloeckner cannot be held responsible for any crop damage related to the information given herein. Application of recommended growth regulators and chemicals are subject to local and state regulations. Always follow manufacturer's label instructions."

SUBSTRATE MOISTURE LEVEL TABLE

	Level 1 Dry	Level 2 Medium Dry	Level 3 Medium	Level 4 Medium Wet	Level 5 Saturated
Substrate colour	Very light brown or gray	Light brown	Brown to dark brown	Dark brown	Brown-black, glistening with water
Substrate feel when squeezed in hand	No moisture is detected in substrate	Substrate squeaks when squeezed	A small drop of water can be squeezed from the substrate	Water can be easily squeezed from the substrate	Water runs freely out of the substrate
Substrate structure	Substrate is dusty and freely scatters when blown	Substrate will barely stick together under pressure	Substrate will clump together but cracks apart under its own weight	Substrate easily clumps together and stays as one clump	Substrate has a semi-liquid consistency

CONTAINER/POT CONVERSION FROM CM TO IN.

European Container/Pot	Equivalent U.S. Container/Pot
9 cm 5° – H	3.5 in. Standard
10.5 cm 5° – L	4 in. Azalea
10.5 cm 5° – H	4 in. Standard
11 cm 8° – H	4.25 in. Standard
12 cm 8° – H	4.5 in. Geranium
13 cm 8° – L	5 in. Azalea
13 cm 5° – H	5 in. Standard
14 cm 5° – H	6 in. Trade
15 cm 5° – L	6 in. Azalea
15 cm 5° – H	6 in. Standard
17 cm – L	6.5 in. Azalea
15 to 18 cm – H	Trade Gallon
19 cm – L	8 in. Standard
23 cm/5 liter	8 in. /1.5 Gallon
25 cm/7-7.5 liter	10 in. /2 Gallon
30 cm/10 liter	12 in. /2.5 Gallon
25 cm Hanging Basket	10 in. Hanging Basket
30 cm Hanging Basket	12 in. Hanging Basket

USDA PLANT HARDINESS ZONE AND AVERAGE ANNUAL MINIMUM TEMPERATURE RANGE

Zone	Fahrenheit	Celsius
1	Below -50°F	Below -46°C
2	-45 to -40°F	-43 to -40°C
3	-40 to -30°F	-40 to -34°C
4	-30 to -20°F	-34 to -29°C
5	-20 to -10°F	-29 to -23°C
6	-10 to 0°F	-23 to -18°C
7	0 to 10°F	-18 to -12°C
8	10 to 20°F	-12 to -7°C
9	20 to 30°F	-7 to -1°C
10	30 to 40°F	-1 to 4°C
11	above 40°F	above 4°C

FERTILIZER RATE TABLE

Fertilizer Rate	PPM Nitrogen	EC (mS/cm)
One	Less than 100 ppm	Less than 0.7 EC
Two	100 to 175 ppm	0.7 to 1.2 EC
Three	175 to 225 ppm	1.2 to 1.5 EC
Four	225 to 300 ppm	1.5 to 2.0 EC
Five	More than 300 ppm	More than 2.0 EC

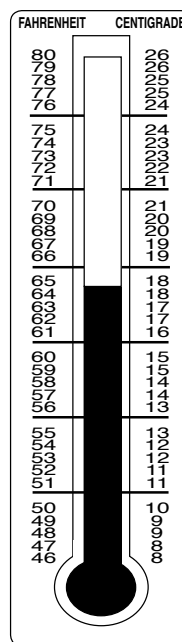
Note: This list is presented for information only. No endorsement is intended for products mentioned, nor is criticism meant for products not mentioned. Before purchasing and using any pesticides or growth regulators, you must check all labels for registered use, ratios and application frequency. Fred C. Gloeckner recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by Fred C. Gloeckner of any products listed herein. Fred C. Gloeckner's terms and conditions of sale shall apply to all products listed herein.

HELPFUL FACTS

GROWTH REGULATORS AS SPRAYS			Mixing Amount per 10 Gallons of Water		
SPRAY 1 GALLON OF SOLUTION PER 200 SQUARE FEET OF BENCH AREA			*Check Label for Drench Rate Application		
Active Ingredient (percent)	Brand	Mixing Concentration (ppm)	Fluid oz.	ml	Dry oz.
Ancymidol (0.0264%)	ABIDE / A-REST	25	121.2	3584.3	
Benzyladenine (2%)	CONFIGURE	100	6.4	189.3	—
Benzyladenine (1.8%) + Gibberellin (1.8%)	FASCINATION /FRESCO	10/10	0.7	21.0	—
Chlormequat chloride (11.8%)	CITADEL / CYCOCEL	1500	16.3	481.1	—
Daminozide (85%)	B-NINE SP / DAZIDE	2500	—	—	3.93
Dikegulac-sodium (18.5%)	AUGEO	400	2.5	73.0	—
Ethephon (3.9%)	FLOREL	500	16.4	485.3	—
Flurprimidol (0.38%)	TOPFLOR	10	3.37	99.6	—
Paclobutrazol (0.4%)	BONZI / PACZOL / PICCOLO	10	3.2	94.6	—
Paclobutrazol (4%)	PICCOLO 10XC	10	0.32	9.46	—
Uniconazole (0.055%)	CONCISE /SUMAGIC	5	11.6	344.1	—

*Check Label for Application Rates		INSECTICIDES & FUNGICIDES MEASUREMENT TIPS		*Check Label for Registered Uses	
AKARI	16 fl. oz. - 24 fl. oz. per 100 gal.	MARATHON 1G	1/3 tsp. to 1/2 tsp. per 5 1/2" to 7" Pot.		
ARIA	1 - 6 pkts. per 100 gal.	MARATHON II	1.7 oz. per 100 gal.		
AVID	4 oz. to 8 oz. per 100 gal.	MESUROL	8 oz. to 16 oz. per 100 gal.		
BANROT 40WP	4 oz. to 12 oz. per 100 gal.	OVERTURE 35 WP	4 pkt. (8 oz.) per 100 gal.		
BOTANIGARD 11.3ES	16 oz. to 64 oz. per 100 gal.	PAGEANT	4 oz. to 18 oz. per 100 gal.		
CLEARY'S 3336 F	8 oz. to 24 oz. per 100 gal.	PYLON	2.6 oz. - 10 oz. per 100 gal.		
CONSERVE SC	6 oz. to 22 oz. per 100 gal.	SANMITE WP*	4 oz. to 6 oz. per 100 gal.		
DECREE	0.75 to 1.5 lbs. per 100 gal.	SAFARI 20SG (drench)	12 oz. - 24 oz. per 100 gal.		
DISTANCE	6 oz. to 12 oz. per 100 gal.	SHUTTLE O	6.4 fl. oz. - 12.8 fl. oz. per 100 gal.		
ENDEAVOR	2.5 oz. to 5 oz. per 100 gal.	SUBDUE MAXX (drench)	0.13 fl. oz. to 1.25 fl. oz. per 100 gal.		
FLORAMITE SC	4 oz. to 8 oz. per 100 gal.	SUFFOIL-X	1 gal. - 2 gal. per 100 gal.		
HERITAGE WDG	1 oz. to 4 oz. per 100 gal.	TALSTAR S SELECT	5 oz. - 20 oz. per 100 gal.		
HOIST WSB	3 oz. to 6 oz. per 100 gal.	TERRAGUARD SC 2	16 fl. oz. per 100 gal.		
JUDO	1 fl. oz. - 4 fl. oz. per 100 gal.	TETRASAN	8 oz. - 16 oz. per 100 gal.		
KONTOS (spray)	1.7 fl. oz. to 3.4 fl. oz. per 100 gal.	TRISTAR 8.5SL	4 fl. oz. - 25.3 fl. oz. per 100 gal.		
M-PEDE	1 gal. to 2 gal. per 100 gal.	ULTRA-PURE OIL	0.5 gal. to 1 gal. per 100 gal.		

APPROX. RATES OF APPLICATION		
Amount	To Area	Equals Equivalent Of
1 Ounce	Sq. Foot	2722 lbs. per acre
1 Ounce	Sq. Yard	302.5 lbs. per acre
1 Ounce	100 Sq. Feet	27.2 lbs. per acre
1 Pound	100 Sq. Feet	435.6 lbs. per acre
1 Pound	1000 Sq. Feet	43.6 lbs. per acre
1 Pound	Acre	1/3 oz. per 1000 sq. ft.
5 Gal.	Acre	1 pint per 1000 sq. ft.
100 Gals.	Acre	2.5 gallons per 1000 sq. ft.
100 Gals.	Acre	1 quart per 100 sq. ft.
100 Pounds	Acre	2.5 pounds per 1000 sq. ft.



METRIC CONVERSIONS		
To Convert From	To Obtain	Multiply By
Centimeters	Feet	.03281
Centimeters	Inches	.3937
Meters	Feet	3.281
Meters	Yards	1.094
Feet	Meters	.3048
Square Meters	Square Feet	10.7638
Square Meters	Square Yards	1.196
Milliliters	Ounces (fluid)	.03381
Gallons	Liters	3.7853
Liters	Fl. Oz.	33.814
Liters	Quarts	1.0567
Liters	Gallons	.2642
Kilograms	Pounds	2.20462
Ounces	Grams	28.3495
Tablespoons (dry)	Ounces	.3333
Hectares	Acres	2.471

TEMPERATURE CONVERSIONS

To convert Fahrenheit to Centigrade (Celsius):
Subtract 32 and multiply by .55,
thus 68°F = 20°C

To convert Centigrade to Fahrenheit:
Multiply by 1.8 and add 32,
thus 60°C = 140°F.

LIQUID CONVERSIONS	
1 Pint/100 gallons	= 1 tsp./gallon
1 Quart/100 gallons	= 2 tsp./gallon
1 Teaspoon	= 1/3 Tbsp. or 1/6 oz.
1 Tablespoon	= 3 tsp. or 1/2 oz.
1 Fluid ounce	= 2 Tbsp. or 6 tsp.
1 Cup	= 8 oz., 1/2 pint, 16 Tbsp., 48 tsp.
1 Quart	= 32 oz., 4 cups, 2 pints, 64 Tbsp.
1 Gallon	= 4 quarts, 8 pints, 16 cups, 128 ounces

PARTS PER MILLION	
To determine Parts Per Million (ppm) of an element in fertilizer, simply multiply the percent of that element by 75. The answer will be the ppm of the element per ounce of the fertilizer in 100 gallons of water.	
For instance, how much 20-20-20 fertilizer should you use to get a 200 ppm nitrogen solution?	
EXAMPLE: 0.20 x 75 = 15 ppm (% nitrogen in fertilizer multiplied by 75). Therefore you need 200 ÷ 15 = 13.3 oz (desired ppm solution divided by ppm per ounce).	
13.3 oz. of 20-20-20 are required to produce a 200 ppm nitrogen solution in 100 gallons of water.	

• This list is presented for information only. No endorsement is intended for products mentioned, nor is criticism meant for products not mentioned. Before purchasing and using any pesticides or growth regulators, you must check all labels for registered use, ratios and application frequency.

BULB ORDERING CALENDAR

To ensure our customers the best selection for all of the bulb crops offered by the Gloeckner & Company Inc. or Ednie Flower Bulbs, a division of Fred C. Gloeckner & Company, Inc., it is important to place your orders in a timely manner for each crop. To assist you with the best time of year to place your order, we have put together a bulb ordering calendar. The prime order dates listed in the center of the table below is the optimum date range for placing your orders. This does not imply that we cannot accept orders placed outside of this date range but rather these are the best dates to place your orders to ensure the best selection of varieties and sizes you have programmed for your production schedule. To place your order for any of our bulb crops offered by the Gloeckner & Company Inc. or Ednie Flower Bulbs, a division of Fred C. Gloeckner & Company, Inc., you can contact either a Gloeckner or an Ednie Sales Representative.



Bulb Crop	Prime Order Time	Crop Shipped
AMARYLLIS Dutch, Israeli, Peruvian	February to May	October to January
ANEMONES Carmel Galilee Jerusalem Merom	April to June	Late August to March Late August to March Late August to March Late August to March
DAHLIA TUBERS	June to September	Late January to end of June
DUTCH FLOWER BULBS Crocus Daffodils & Narcissus Hyacinths Misc. Bulbs Tulips	May to June	Late September to November Late September to November Late September to November Late September to November Late September to November
DUTCH IRIS BULBS Outdoor Cut Iris Programmed Greenhouse	April to June	Late September - Year Round Late October to Late March
HYBRID LILIES Southern Hemisphere New Crop Asiatics & LA New Crop Star Gazer Other Hybrids Other Orientals	April to August	All Lilies Available Year Round Mid-October Late December Late December Mid-January 3rd week of January
LIATRIS	April to August	Early January to December
ORNITHOGALUM	January to April	Mid September to Late January
OXALIS	March to September	November to April
PAPERWHITES	February to May	Early October to January
RANUNCULUS Amandine La Belle Super Greens Butterfly	April to June	Late August to February Late August to February Late August to February Late September to February
TULIPS – Precooled 9 Degree C Program 5 Degree C Program	April to June	Mid October to January Early November to February

2020

2021

WK.	JANUARY							WK.	JULY						
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
1				1	2	3	4					1	2	3	4
2	5	6	7	8	9	10	11	28	5	6	7	8	9	10	11
3	12	13	14	15	16	17	18	29	12	13	14	15	16	17	18
4	19	20	21	22	23	24	25	30	19	20	21	22	23	24	25
5	26	27	28	29	30	31		31	26	27	28	29	30	31	
WK.	FEBRUARY							WK.	AUGUST						
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
							1								1
6	2	3	4	5	6	7	8	32	2	3	4	5	6	7	8
7	9	10	11	12	13	14	15	33	9	10	11	12	13	14	15
8	16	17	18	19	20	21	22	34	16	17	18	19	20	21	22
9	23	24	25	26	27	28	29	35	23	24	25	26	27	28	29
								36	30	31					
WK.	MARCH							WK.	SEPTEMBER						
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
10	1	2	3	4	5	6	7				1	2	3	4	5
11	8	9	10	11	12	13	14	37	6	7	8	9	10	11	12
12	15	16	17	18	19	20	21	38	13	14	15	16	17	18	19
13	22	23	24	25	26	27	28	39	20	21	22	23	24	25	26
14	29	30	31					40	27	28	29	30			
WK.	APRIL							WK.	OCTOBER						
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
15	5	6	7	8	9	10	11	41	4	5	6	7	8	9	10
16	12	13	14	15	16	17	18	42	11	12	13	14	15	16	17
17	19	20	21	22	23	24	25	43	18	19	20	21	22	23	24
18	26	27	28	29	30			44	25	26	27	28	29	30	31
WK.	MAY							WK.	NOVEMBER						
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
19	3	4	5	6	7	8	9	45	1	2	3	4	5	6	7
20	10	11	12	13	14	15	16	46	8	9	10	11	12	13	14
21	17	18	19	20	21	22	23	47	15	16	17	18	19	20	21
22	24	25	26	27	28	29	30	48	22	23	24	25	26	27	28
	31							49	29	30					
WK.	JUNE							WK.	DECEMBER						
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
23		1	2	3	4	5	6				1	2	3	4	5
24	7	8	9	10	11	12	13	50	6	7	8	9	10	11	12
25	14	15	16	17	18	19	20	51	13	14	15	16	17	18	19
26	21	22	23	24	25	26	27	52	20	21	22	23	24	25	26
27	28	29	30					53	27	28	29	30	31		

WK.	JANUARY							WK.	JULY						
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
1	3	4	5	6	7	8	9	27	4	5	6	7	8	9	10
2	10	11	12	13	14	15	16	28	11	12	13	14	15	16	17
3	17	18	19	20	21	22	23	29	18	19	20	21	22	23	24
4	24	25	26	27	28	29	30	30	25	26	27	28	29	30	31
	31														
WK.	FEBRUARY							WK.	AUGUST						
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
5		1	2	3	4	5	6	31	1	2	3	4	5	6	7
6	7	8	9	10	11	12	13	32	8	9	10	11	12	13	14
7	14	15	16	17	18	19	20	33	15	16	17	18	19	20	21
8	21	22	23	24	25	26	27	34	22	23	24	25	26	27	28
	28								29	30	31				
WK.	MARCH							WK.	SEPTEMBER						
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
9		1	2	3	4	5	6	35				1	2	3	4
10	7	8	9	10	11	12	13	36	5	6	7	8	9	10	11
11	14	15	16	17	18	19	20	37	12	13	14	15	16	17	18
12	21	22	23	24	25	26	27	38	19	20	21	22	23	24	25
13	28	29	30	31				39	26	27	28	29	30		
WK.	APRIL							WK.	OCTOBER						
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
14					1	2	3							1	2
15	4	5	6	7	8	9	10	40	3	4	5	6	7	8	9
16	11	12	13	14	15	16	17	41	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	42	17	18	19	20	21	22	23
	25	26	27	28	29	30		43	24	25	26	27	28	29	30
									31						
WK.	MAY							WK.	NOVEMBER						
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
18							1	44		1	2	3	4	5	6
19	2	3	4	5	6	7	8	45	7	8	9	10	11	12	13
20	9	10	11	12	13	14	15	46	14	15	16	17	18	19	20
21	16	17	18	19	20	21	22	47	21	22	23	24	25	26	27
22	23	24	25	26	27	28	29	48	28	29	30				
	30	31													
WK.	JUNE							WK.	DECEMBER						
	S	M	T	W	T	F	S		S	M	T	W	T	F	S
23			1	2	3	4	5	49			1	2	3	4	5
24	6	7	8	9	10	11	12	50	5	6	7	8	9	10	11
25	13	14	15	16	17	18	19	51	12	13	14	15	16	17	18
26	20	21	22	23	24	25	26	52	19	20	21	22	23	24	25
27	27	28	29	30				53	26	27	28	29	30	31	

FLOWER HOLIDAY CALENDAR

Year	Valentine's Day	Easter	Admin. Assistants' Day	Mother's Day	Memorial Day	Sweetest Day	Halloween	Thanksgiving	Hanukkah	Christmas
2020	February 14	April 12	April 22	May 10	May 25	October 17	October 31	November 26	December 11	December 25
2021	February 14	April 4	April 21	May 9	May 31	October 16	October 31	November 25	November 29	December 25
2022	February 14	April 17	April 27	May 8	May 30	October 15	October 31	November 24	December 19	December 25

GROWER SUPPLY ITEMS FOR SEED & PLUG GROWERS



Galvanized Welded Wire Flower Support (Wire Netting)

Ideal as a flower support for long stem cut flowers, this handy item is a terrific time saver for the greenhouse grower compared to traditional methods.

- 14 gauge wire, 6" x 8" spacing
- High quality galvanized wire
- Easy to roll
- Very durable
- Sizes are available as follows: 36" x 100', 36" x 200', 42" x 100', 42" x 200', 48" x 100', 48" x 200'

Please call for custom pricing, bulk skid volume discounts available. Welded Wire Flower Support is manufactured by special order only. Please allow a minimum of eight (8) weeks for delivery.



Hortonova Crop Support Net

Tenex Hortonova is a strong, versatile polypropylene mesh specially designed for more efficient and economical cold fusion of vegetables and flowers. Tenex Hortonova fully satisfies the requirements for a variety of growing techniques, both vertical and horizontal.

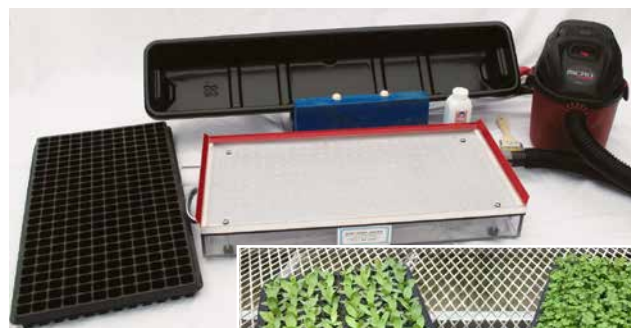
- Reduces installation labor costs
- Provides better exposure to light and air
- Is resistant to UV rays and chemical agents; Rot and rust proof
- Is aseptic, reducing pesticide costs
- Maximizes cultivation density
- Usage results in higher crop yields
- Size of the mesh squares is 5.9" x 6.7"



Item #	Description	Size	Price (\$)
Hortonova SM			
41214	7SM	36" x 328'	43.25
45727	7SM	36" x 3280'	200.75
41216	8SM	42" x 328'	47.50
45729	8SM	42" x 3280'	241.00
41218	9SM	48" x 328'	52.00
45731	9SM	48" x 3280'	281.25
Hortonova LM			
49121	10LM	59" x 328'	64.00
45732	10LM	59" x 3280'	361.50
51952	11LM	67" x 328'	69.75
48133	11LM	67" x 3280'	401.50
49122	13LM	78" x 328'	78.00
45733	13LM	78" x 3280'	482.00



For a full listing of grower supplies, visit us at www.fredgloeckner.com to download your copy of our 152 page catalog, call 800.345.3787, or contact your local Fred C. Gloeckner Field Representative for a hard copy.



Berry Precision Seeder

Grow Your Own Plugs!

Ideal for small to midsize operations, the Berry Seeder featuring the patented seed channel is one of the most accurate seeders on the market today. What's more, the flexible usage of the Berry Seeder extends to watermelon, raw petunias, cell packs, and more.

- Seed up to 250 trays per hour with unequalled accuracy
- Seeds the whole plug tray at once, not one row at a time
- Made of lightweight polycarbonate and machined aluminum
- Transparent seeder body allows for easy inspection of clogged holes and/or misses
- No motors, solenoids, bearings, or electrical components to break down

Please contact us for pricing/seed chart information.



Floral Stem Cutter

Add to your productivity with the handy Floral Stem Cutter.

- Mechanism slides blade horizontally when lever is moved up or down
- Optional table mounting hardware
- Arched stainless steel cutting blade, replaceable

Item #	Description	Price (\$) 1-11	Price (\$) 12+
41545	B798S Stem Cutter, blade 13 1/4"	134.75	121.25



GROWER SUPPLY ITEMS FOR SEED & PLUG GROWERS

DRAMM Watering Tools

170PL Water Breaker™

- Narrow water pattern for containers & hanging baskets
- Adjusts flow to 50% of possible volume
- Designed for low or restricted water pressures/volumes
- Professional's lightweight alternative to 170AL
- High impact cyclolac plastic and aluminum



Item #	Mfr #	GPM	Weight	Price (\$) 1-5	Price (\$) 6+
41004	170PL	7 @ 40 PSI	1.3 oz	4.25	4.00

170AL Water Breaker™

- Narrow water pattern for containers & hanging baskets
- Designed for low or restricted water pressures/volumes
- Adjusts flow to 50% of possible volume
- Cast aluminum with 3/4" brass threads



Item #	Mfr #	GPM	Weight	Price (\$) 1-5	Price (\$) 6+
41003	170AL	7 @ 40 PSI	1.6 oz	10.25	9.25

400PL Water Breaker™

- Fast, full-flow watering
- Gentle flow won't damage plants or wash away soil
- Professional's lightweight alternative to original 400AL
- High impact cyclolac plastic and aluminum
- 3/4" hose threads



Item #	Mfr #	GPM	Weight	Price (\$) 1-5	Price (\$) 6+
41006	400PL	11.1 @ 40 PSI	1.3 oz	5.00	4.50

Now available with plastic ring. Contact us for more details.

400AL Water Breaker™

- Original professional waterbreaker
- Fast, full-flow watering
- Gentle flow won't damage plants
- Cast aluminum with 3/4" brass threads



Item #	Mfr #	GPM	Weight	Price (\$) 1-5	Price (\$) 6+
41005	400AL	11.1 @ 40 PSI	5.1 oz	15.00	14.00

750PL Lemonhead Water Breaker

The Lemonhead Water Breaker is designed to offer a lower, softer flow. Moreover, the 750PL allows for more precise watering and gives growers more flexibility in watering.

- 25% less hole surface area offers lower flow that can be regulated by a shut-off valve for minimal water and still retain a pattern



Item #	Mfr #	GPM	Weight	Price (\$) 1-5	Price (\$) 6+
51721	750PL	7 @ 40 PSI	1.6 oz	11.50	10.75



1000PL Water Breakers™

New Green and Orange!

- Softest full-flow watering nozzle available
- Waters plugs or seedlings
- Over 1000 micro-holes create an ultra-soft shower
- Will not disturb delicate soil or harm tender plants
- High impact cyclolac plastic and stainless steel



Redhead™ Model

Standard model with a *medium* pattern.

Item #	Mfr #	GPM	Weight	Price (\$) 1-5	Price (\$) 6+
41001	1000PL	7 @ 40 PSI	1.6 oz	11.75	10.50

Green Model

Perfect for *focused watering* where more control is required.

Item #	Mfr #	GPM	Weight	Price (\$) 1-5	Price (\$) 6+
51719	1000PL-N	7 @ 40 PSI	1.6 oz	11.75	10.75

Orange Model

Throws a wider pattern than the Redhead, offering the ability to cover more area with a soft, gentle flow.

Item #	Mfr #	GPM	Weight	Price (\$) 1-5	Price (\$) 6+
51720	1000PL-VV	7 @ 40 PSI	1.6 oz	11.75	10.75

Seedling Nozzle™

- Water fragile plants, delicate seedlings or plant cuttings
- Produces an extra fine, hollow "Cone Mist Pattern"
- Sprays 1/2 gallon of water per minute
- 3/4" brass threads



Item #	Mfr #	GPM	Weight	Price (\$) 1-5	Price (\$) 6+
41009	510C	1/2 @ 40 PSI	2.7 oz	7.50	6.75

Brass Hose Swivel

Heavy-duty Brass Swivel is a live swivel, meaning it swivels under pressure, allowing unencumbered movement between the hose and attachment.

- Unwind hose without having to manually twist the hose
- Wands can be oriented in any direction without fighting the hose
- Brass construction is made to last; large brass nut is easy to grip and thread



Item #	Mfr #	Description	Price (\$)
50634	72700	18 GPM, weighs 6 oz	11.25

One Touch™ High Flow™ Valve *When Precision Counts!*

The One Touch High Flow Valve offers fingertip control of your watering and allows for full flow while accommodating easy adjustment of the water flow.

- Zinc die-cast body with brass threads is lightweight and durable
- Nylon valve components ensure a long-life without leaking
- Easy slide valve for ease of adjustment and throttle
- Rubber over mold provides a soft yet firm grip
- Full water flow: 16 GPM @ 40 psi

Item #	Mfr #	Description	Price (\$)
50633	74800	Unit, weighs 9 oz	15.25

***Be sure to also purchase item #50634 – Brass Hose Swivel. It's a must with the One Touch!**



GROWER SUPPLY ITEMS FOR SEED & PLUG GROWERS



Handheld pH and EC Testers & Meters

Portable, high-performing equipment when fast and accurate measurements are required.



PH-P7



PH-80



PH-200



CP-1000



COM-80



COM-100

ECO pH Tester

Low battery warning • Fast readings • Water resistant • Rewettable tips • Great value

Item #	Description	Price (\$)
49445	PH-80 ECO pH Tester	51.95

PRO pH Meter

Measures 0.00-14.0 pH • Low battery warning • Floating waterproof body • Easy automatic digital calibration • Replaceable probe • Includes lanyard

Item #	Description	Price (\$)
49446	PH-200 PRO pH Meter	86.25

Accessories		
49448	PH-P7 Calibration Solution, ready to use, 20/box	26.00
49449	PH-STOR Storage Solution, pH electrode 60 cc	7.75
49450	SP-P1 replacement pH sensor for pH-200	55.50

Digital ECO EC Tester

Fast and accurate readings • Dry storage, no liquid needed • Low battery warning • Water resistant • 1-year warranty • Great value

Item #	Description	Price (\$)
49443	COM-80 ECO EC Tester	41.50

Digital PRO EC Tester

Measures EC/PPM/TEMP • Pinpoint accuracy, versatile – 0.5 & 0.7 scale • Easy digital calibration • Low battery warning • Replaceable probe • Floating waterproof body • 1-year warranty • Includes lanyard

Item #	Description	Price (\$)
49444	COM-100 ECO EC Tester	64.50

Accessories		
49451	SP-C1 replacement TDS/EC Sensor for COM-100	42.50
49447	CP-1000 Calibration Solution, ready to use, 20/box	26.00



GreenPower LED Toplighting

LEDs are Great for Propagation and Your Growing Area!

LED Toplighting produces significantly less heat, especially less radiation heat, than conventional HPS lamps, so you can control your

greenhouse climate more precisely and grow better crops faster, year-round. Less heat gives you more flexibility to use light more effectively; for example, by increasing light levels, extending lighting periods, or by using light on warmer days without having to ventilate. Less heat also means you can place the light source closer to your plants to reduce light loss even in low-ceiling greenhouses.

- **Improves Production:** Shortens growth cycles; Improves color, shape, and taste; Grow with more control over your climate; Grow year-round in low greenhouses
- **Cut Operational Costs:** Saves up to 42% on energy costs compared to HPS toplighting; Reduces cost of power infrastructure to obtain your light level; Avoid costly remodeling with easy plug and play installation; Lower maintenance costs
- **Long-Life:** Emit at least 90% of their output after 25,000 hours and can last 5 times longer than conventional HPS light sources



Earthway Precision Garden Seeder

- Eliminates the problem of seed rot and skipped plants
- Plants row crops fast and easy
- Plants at precise depth, space and covers and packs all in one pass
- Features a durable, yet lightweight aluminum frame
- Works for cut flower seeds, too!

Item #	Description	Price (\$)
44138	Unit – Includes six seed plates*, adjustable depth gauge and 30" row marker	136.25
48174	Seed Plate Storage Case	24.50
44137	Fert-A-Ply 5#/2.2kg Adjustable Side-Dress Fertilizer Attachment	72.50
44139	Seed Plate Kit for Kale, Cabbage, Cucumbers, Popcorn, Lima Beans and more	25.75

*Seed plates included: Corn, Radish/Leeks/Spinach, Carrots/Lettuce/Turnips, Beans/Small Peas, Jumbo Peas, Beets/Okra/Swiss Chard.



Our Best Selling Fertilizers!



Acceptance of Terms

These terms and conditions shall govern all orders for seeds, bulbs, plants, supplies and other materials ("merchandise") placed with Seller. All negotiations with salesmen or other agents of Seller are merged herein. Purchaser acknowledges that it has not relied on any representation not contained herein. No modification of these terms and conditions shall be effective unless in writing signed by Seller. Placement of the order shall constitute Purchaser's offer to purchase the merchandise on these terms and conditions. All orders and contracts are subject to acceptance or rejection by Seller at its offices in Harrison, New York and shall be deemed accepted upon shipment by Seller.

Limitation of Warranty

Seller warrants, to the extent required by law, that merchandise conforms to the description appearing in Seller's catalog and on container labels, within recognized tolerances. SELLER MAKES NO OTHER OR FURTHER WARRANTY, EXPRESS OR IMPLIED. ALL OTHER OR FURTHER WARRANTIES, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED, AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

Certain merchandise may be separately warranted by the manufacturer. Seller does not adopt or ratify any manufacturer warranties, express or implied, and Seller shall have no liability thereunder. Seller does not adopt or ratify any warranties, express or implied, made by Purchaser upon resale of the merchandise, and Seller shall have no liability thereunder.

Purchaser agrees to defend, indemnify and hold Seller harmless from and against any liability of any kind to any person arising out of any warranty, express or implied, made by Purchaser upon resale of the merchandise. Seller shall have no liability for breach of warranty unless notice of any breach is given within a reasonable time, not to exceed thirty (30) days, after such breach is or should have been discovered. Any action for breach of warranty must be commenced within one year after the cause of action has accrued.

Limitation of Remedy

PURCHASER'S SOLE AND EXCLUSIVE REMEDY SHALL BE REFUND OF THE PURCHASE PRICE. SELLER'S LIABILITY, WHETHER FOR BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, PRODUCTS LIABILITY, OR ANY OTHER THEORY OF LIABILITY, IS LIMITED TO THE AMOUNT OF THE PURCHASE PRICE. UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE, OR FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

Confirmation and Governing Law

The law of the State of New York shall govern the rights, duties and obligations of the parties. Purchaser hereby submits to the jurisdiction of the courts of that State as to any dispute arising out of the contract between the parties and agrees that any litigation between the parties shall be brought in the Supreme Court of New York located in Westchester County, New York. In the event of litigation, the prevailing party shall be entitled to recover reasonable attorney's fees in addition to any other award.

Prices

All prices are subject to change without notice. The price in effect at time of shipment will prevail. Prices do not include installation; Seller takes no responsibility, and shall have no liability for installation.

Payment

Payment is due in accordance with terms specified on invoice. All payments shall be made in U.S. funds. In the event of default in the payment of any amount when due, and in addition to all other rights and remedies available to Seller, SELLER SHALL BE ENTITLED TO COLLECT A LATE CHARGE OF 1.5% PER MONTH (18% PER YEAR) OR THE MAXIMUM RATE ALLOWED BY LAW, WHICHEVER IS LESS, ON ALL AMOUNTS PAST DUE FROM THE DATE DUE UNTIL THE DATE PAID.

Inspection and Return Policy

Purchaser should inspect merchandise upon receipt. Seller shall have no liability for any defect unless notice is given promptly, not to exceed thirty (30) days after such defect is or should have been discovered. In cases of loss or damage due to transportation, Purchaser should obtain and forward an inspection report to Seller's Traffic Department within fifteen (15) days of delivery. No merchandise conforming to the Purchaser's order may be returned without Seller's prior written authorization. Requests to return merchandise and any complaints or claims not arising under the Seller's warranty must be made within thirty (30) days after delivery. All returns must be in accordance with Seller's shipping instructions with freight paid by Purchaser. Returns of conforming merchandise are subject to a 10% restocking charge.

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Seller shall not be responsible for delays in delivery or for losses resulting from such delays due to unforeseen, supervening circumstances. Seller reserves the right to make partial shipment if full shipment is commercially impracticable. In the event of shortages, Seller may substitute such other, similar merchandise as is available.

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If any provision of the terms and conditions of sale stated herein and on the face hereof shall for any reason be held prohibited by or invalid under applicable law, in whole or in part, such provision shall be ineffective to the extent of such prohibition or invalidity, without invalidating the remainder of such provision or the remaining provisions hereof.

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Varieties listed with the symbols PP# (Plant Patent Number), USPP or PAP (U.S. Patent Pending), PVPA (Plant Variety Protection Act Certificate issued), PVPAP (Plant Variety Protection Act Pending), BR (Breeder's Rights certificate issued) or BRP (Breeder's Rights Protection Pending) are protected by U.S. or foreign plant patents or plant variety protection laws. These varieties may not be reproduced without authorization. The breeder (or authorized representative) has the right to inspect customers' nurseries during normal business hours to assess compliance with the restrictions on use of protected varieties.

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Dtl	Detailed
Fct	Film Coated
Mpl	Multi Seed Pellet
Or	Organic
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