

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 Funnyplums
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: WFBUS6S

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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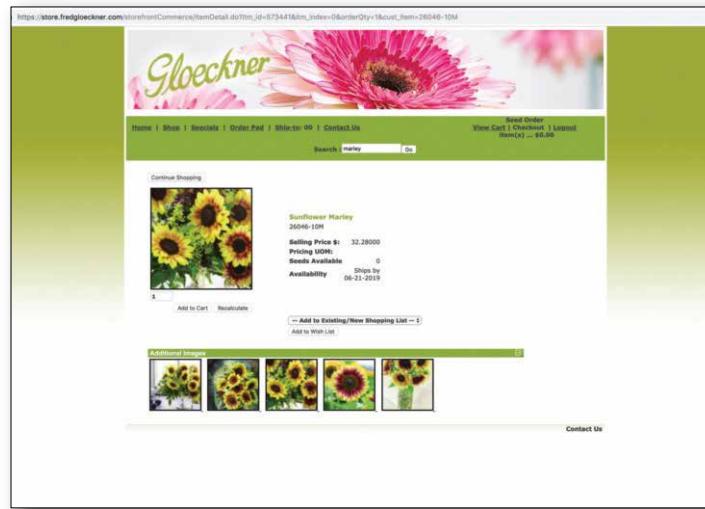
NOW YOU CAN ORDER **EVERYTHING** YOU NEED AT THE SHORE.



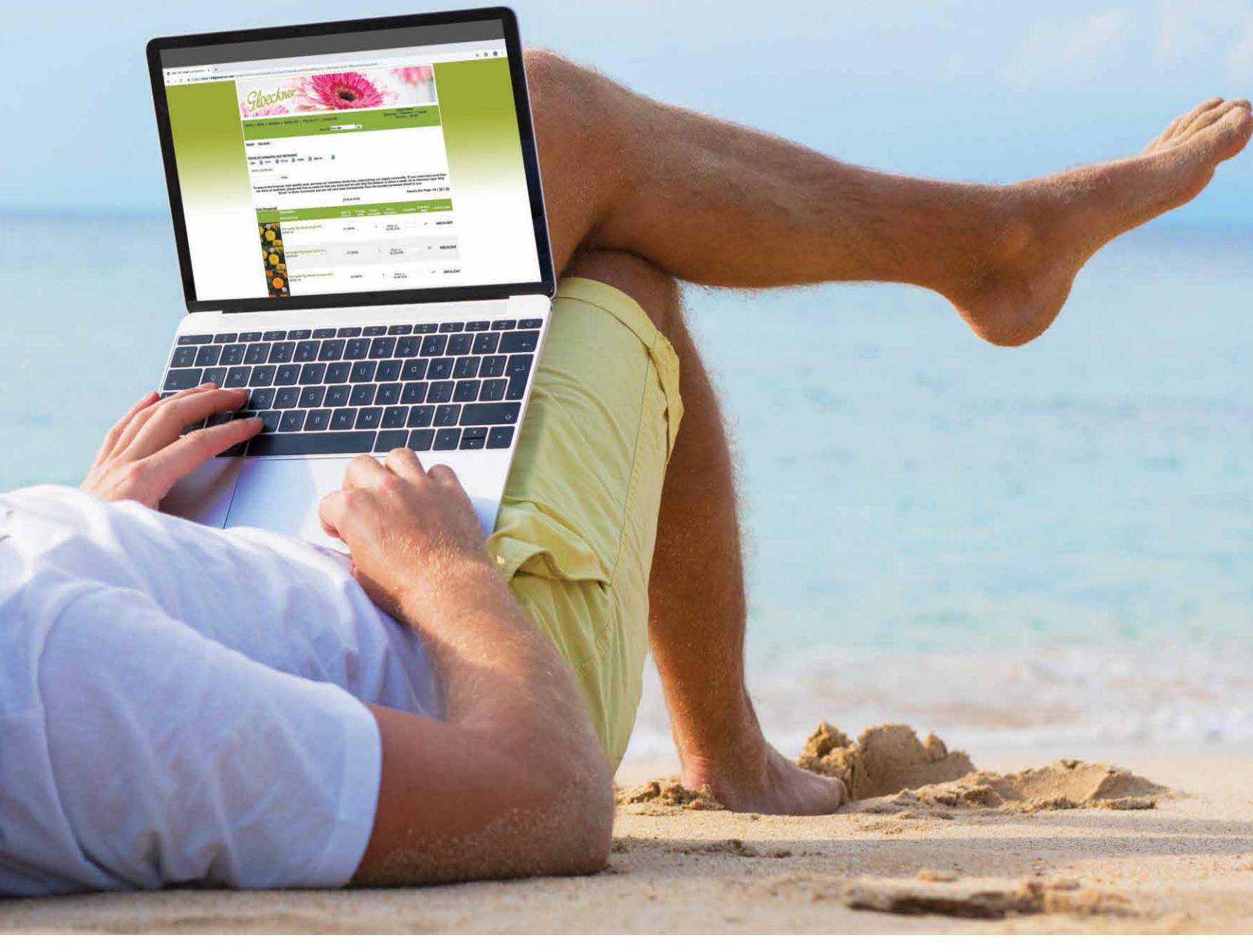
This will make your day.

Now you can access real-time Live Availability for hundreds of thousands of items including seed, young plants, plugs and grower supplies.

The ordering portal offers easy search functions that makes it simple to find the products you need. Ordering is easy and you will receive immediate acknowledgement of your orders placed on Storefront™.



It's easy to shop from our Seeds, Plants and Grower Supplies Pages



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 - Go Paperless—use Gloeckner Storefront™ for your electronic files
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Why wait? Sign up today.

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

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Contact Information

From: Craig Shepherd
From Address: craig.shepherd@brightclicker.com
Phone: 619 - 554 - 4429 Ext.: Country Code:

* Req Ship Date: 5/16/19 Customer PO #:

Address Information

Bill-To Address

Company: *** TEST *** Fred C Gloeckner & Co Inc
Address 1: 200 Homewood Avenue
Address 2: 200 Homewood Avenue

Ship-To Address

Company: *** TEST *** Fred C Gloeckner & Co Inc
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Address 2: 200 Homewood Avenue

City: **State/Prov:** **Zip Code:** **Country:**

City: **State/Prov:** **Zip Code:** **Country:**

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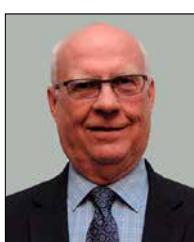
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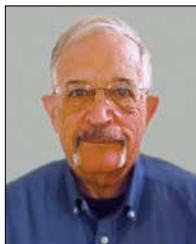
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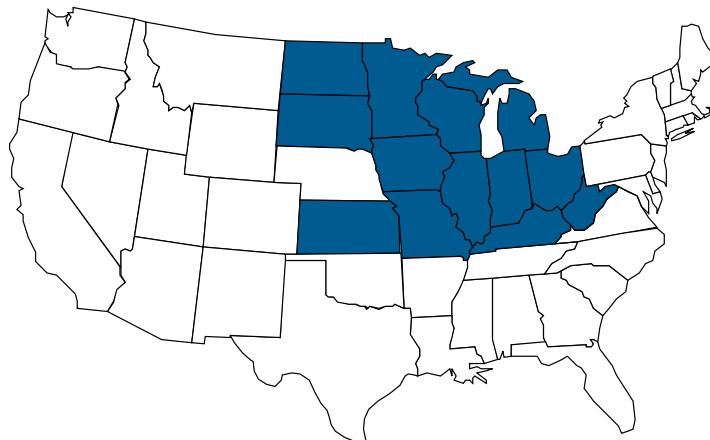
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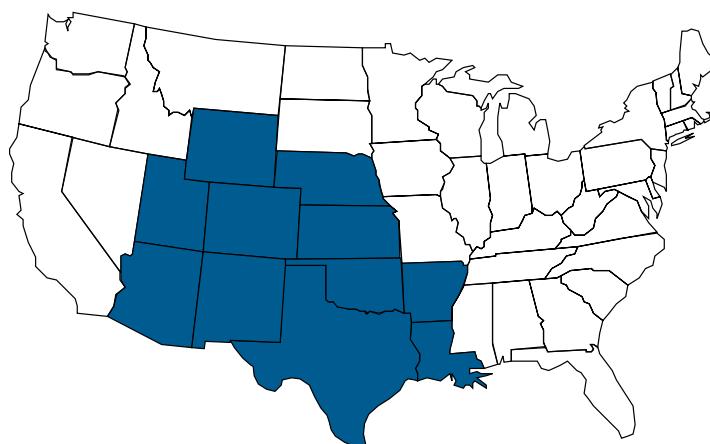
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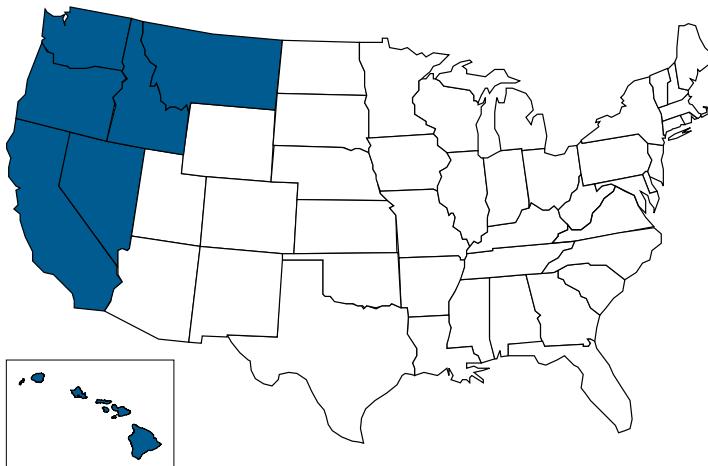
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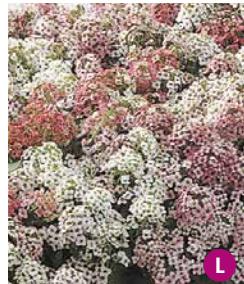
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BEDDING PLANTS

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. coronaria

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 1/2 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 1/2 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 1/2 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 1/2 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 or partial shade. Height: 8 in. Spread: 8 in. Pelleted seed.

26696 NEW Light Pink **F**
26697 NEW Orange **G**
24942 Pink **I**
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**
beauty inside®

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®

BEDDING PLANTS



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 **R**
- 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 ½ in. pots or less. Pelleted seed.

- 20008 Red **P**
- 20009 Rose **O**
- 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



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. I
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**

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**

Fresh Look Series

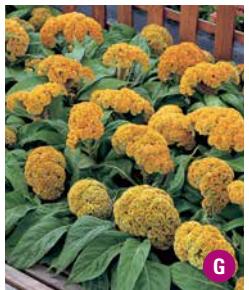
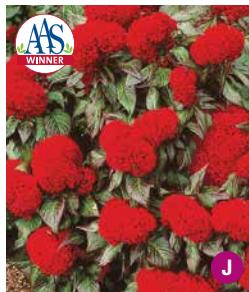
Vigorous and robust plants with feathery dense plumes. Height: 14 in. Spread: 12 in. Pelleted seed.

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

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 ½ 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 ½-4 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 1/2 ft. Long days mean tall plants, height: 5 ft.

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

Pink Zebra

NEW 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 **I****

- 12004 Yellow **R****

- 12000 Mix **S****

Limara Lemon

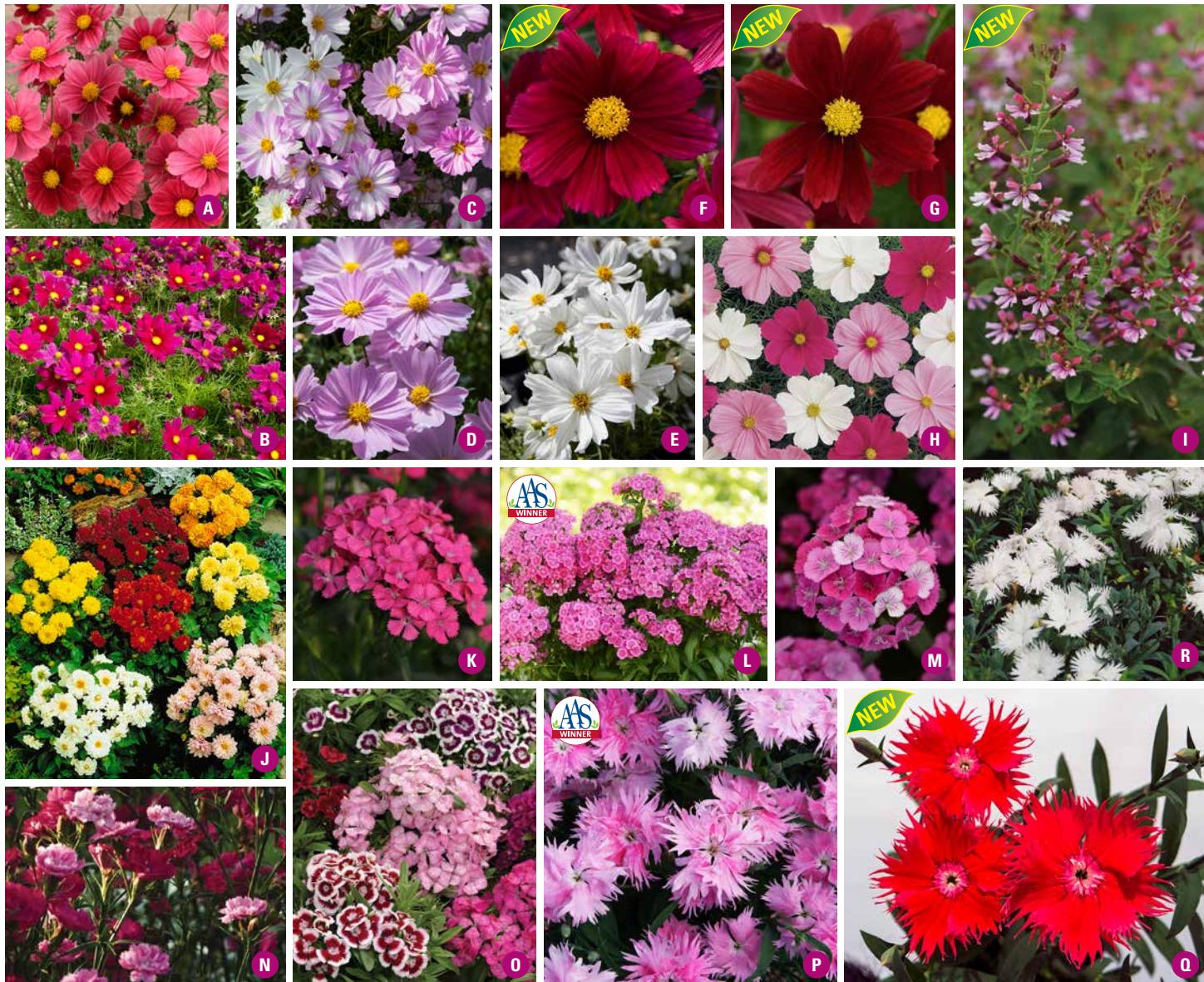
Multitude of creamy lemon flowers with darker golden eye. Compact, well branched and great in mixed containers. Height: 12 in. Spread: 12-14 in. Detailed seed.

- 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****

***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

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

25741 Lovesong. Blend of pink, picotee, white.

25033 Pink

25034 White

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

26510 NEW Red Shades

12014 White
12011 Mix Complete

Cuphea

72°-77°F. 4-5 days. Do not cover seed. Plug crop time: 4 weeks
Transplant to finish: 5-11 weeks.

C. ramosissima**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

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

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

24430 Pink. AAS Winner.

25363 Pink Magic

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

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

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.

12401 Purple. AAS Winner.

22682 Salmon

26887 NEW Scarlet

21139 White

21137 Mix Full

BEDDING PLANTS

DIANTHUS



Dianthus *continued*

D. chinensis

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**

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**

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 tints. 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

NEW 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

12518 Queen. Rose red.

Peacock Series

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

12533 Red

12532 White

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

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

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

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.

23250 Coleus Chocolate Symphony. Chocolate Mint, Lime Delight.

23251 Coleus Under The Sun. Crimson Gold, Lime Delight.

23287 Petunia Blueberry Lime Jam.

Sophistica Lime Green, Dreams Midnight.

23290 Petunia Lime Coral. Dreams Coral Morn, Sophistica Lime Bicolor.

23942 Petunia Ooh La La. Easy Wave Burgundy Star, Neon Rose, and Shock Wave Coconut.

23291 Petunia Pleasantly Blue. Dreams Midnight, Daddy Blue.

25115 Petunia Rise n Shine. Easy Wave Yellow, and Rosy Dawn.

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.

23268 Silk N Satin. Bacopa Snowtopia, Petunia Shock Wave Pink Shades.

23940 Wine Cooler. Viola Sorbet Midnight Glow, and Alyssum Clear Crystal Purple Shades.

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.

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

23654 Red

24980 White

19730 White Flame

23655 Yellow

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

22320 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 1/2 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

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beacon noun
 bea·con | /'bēkən
 a source of light
 and inspiration



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
- 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

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.

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 **O**

- 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.



BEDDING PLANTS



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.

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**

**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.

- 18177 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 **O**
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**

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 **O**

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 **R**

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

BEDDING PLANTS

NEMESIA

**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 1/2 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

(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 Mix Grand 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 ½ in. single blooms with azure blue centers. Height: 10-16 in. Spread: 12-18 in.

13895 Mix. AAS Winner. S

**Pansy****Viola x witrockiana**

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 Yellowina

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 **H****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 **I**

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 *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

Mix Clear F

Mix Jack-O-Lantern G

Mix Limoncello H

24223 Mix Mardi Gras. Includes: yellow purple face, yellow, violet face.

Mix Summer Skies I

24227 Mix Sun N Surf. Includes: true blue, blue blotch, marina, yellow.

Mix Sunny Day

Includes: yellow, orange, white.

Mix Wine Country J

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

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

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 O

26643 Clear Golden 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 Purple 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**

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 *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 Victoria 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

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 O
- 25377 Pink
- 25973 NEW Raspberry R
- 25378 Violet
- 25379 White
- 26042 NEW Mix S



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BEDDING PLANTS

PENTAS



Pentas *continued*

New Look Series

Compact plant has star shaped flower clusters. 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 tricolor 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 3/8 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

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

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.

**Single Flowered****Hedigiflora****Tidal Wave Series**

Tallest of the Wave family, grows outward then up forming a shrub like shape. Botrytis tolerant. Flower Size: 2-2 ¼ in. Height: 16-22 in. Spread: 2 ½-5 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 ½-3 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 O

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 ½-3 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**

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 ay 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!



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****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 **O**
- 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

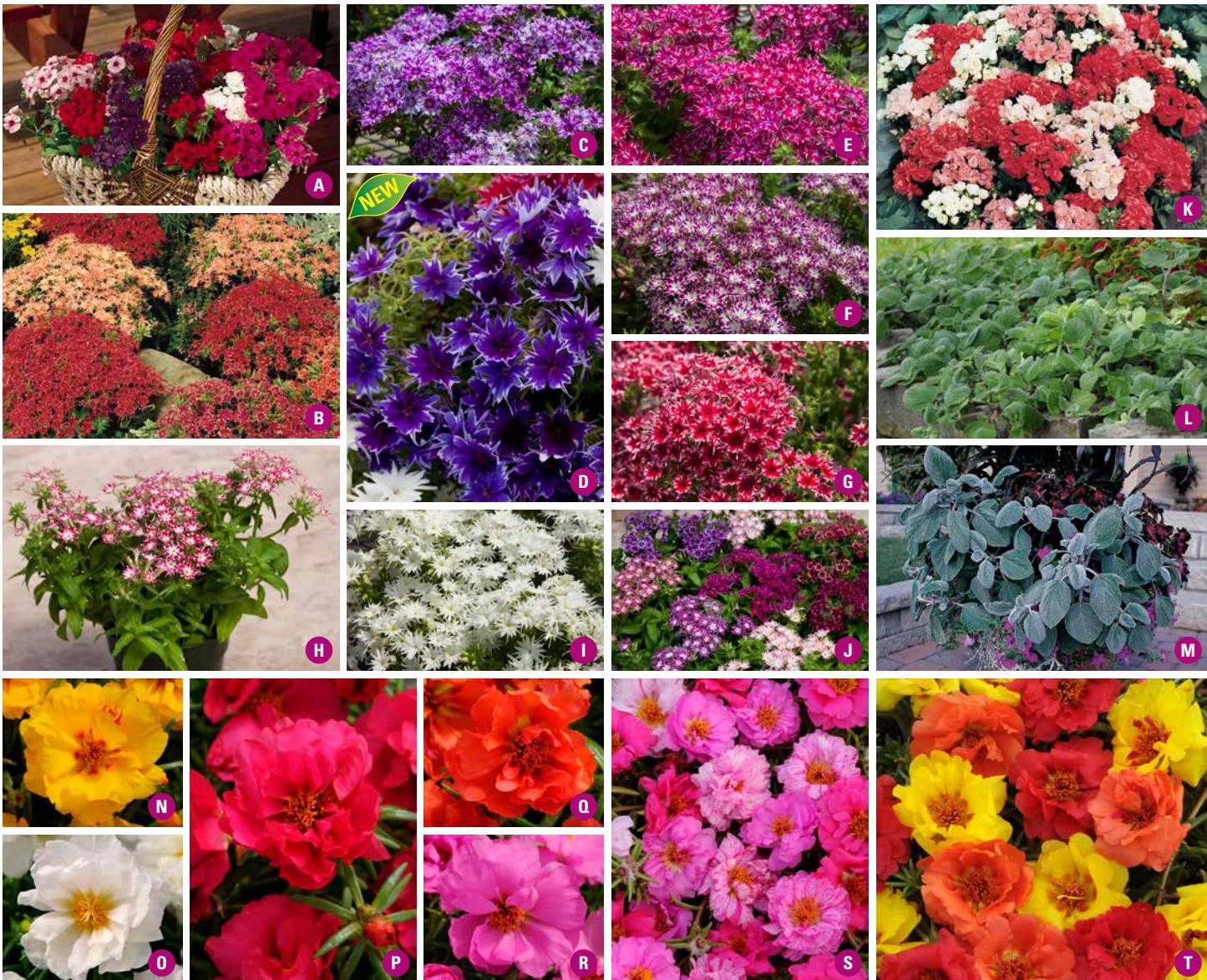
Limbo GP series

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. argentatus

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 acaulus, 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 **R****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

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**

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 (elatior)

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 **U**

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. Filmcoated 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 1/2 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 1/2 ft. Spread: 24 in.

15163 Indian Summer. AAS Winner. G

Maya

First dwarf fully double flowering rudbeck-

ia. Strong stems hold 3 1/2-4 1/2 in. bright yellow flowers upright. Container: 6 in. to gallon. Height: 18-20 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

24422 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. O

21944 Red. AAS Winner. R

24170 White. AAS Winner. S

24169 Mix Formula

BEDDING PLANTS

SNAPDRAGON

***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 1/2 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 ½-3 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
- 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

Snaptastic 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

Snaptini Series

Controlled and consistent across all seasons. Programmable, reduced photoperiod 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

Twinny 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. I
- 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 I

- 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

Mime Series

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

26958 NEW Blue

25435 Light Pink

25440 Pink

25436 Purple

25437 Red

25439 Rose

26309 NEW White

25438 Mix

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

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

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

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.

24681 Blushing Susie. Red shades with eye.

16059 Spanish Eyes. Unusual warm color mix with eye.

Susie Series

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

16064 Orange w/Eye

16065 White w/Eye

16066 Yellow w/Eye

16063 Mix

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.

Vintage Series

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

15875 Vintage Mix

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 **O**

- 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**

**V. rigida****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 O

Upright**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 R

26135 Burgundy S

26136 Crimson

26137 Dark Red

26138 Icy 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 *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 Xtra Performance, Precision, and Profit 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 Appleblosson

- 24049 Apricot
- 24050 Blueberry
- 24051 Blush Pink
- 25197 Burgundy **O**
- 24053 Fresh Red **P**
- 24054 Lilac
- 24056 Orange with Eye **O**
- 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.



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**

Enduro 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.

20951 Enduro Sky Blue Martien. AAS

Winner.

**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**

Thumbeolina

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

16555 Thumbeolina Mix

Zinnita Series

Brightly colored 1 ½-2 in. flowers cover nice globe shaped plants. Zinnita is a much improved Thumbeolina 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**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 **I**
- 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 **O**
- 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

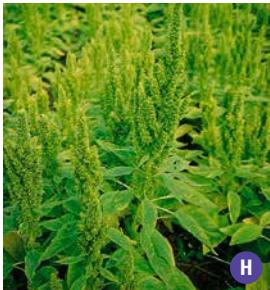
Zahara XL Series

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 1/2-3 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 1/2 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 ½-3 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 ½ 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 Shanghai 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 Shanghai 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

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 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.

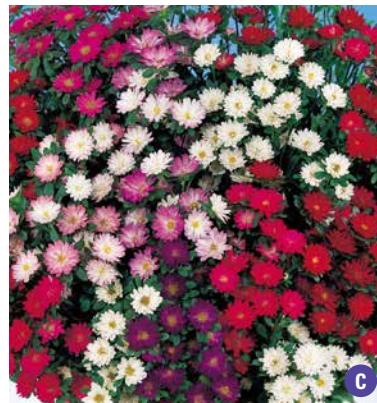
11369 Perfection Mix M

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 Apricot 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.

NEW 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. rapunculus

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 $\frac{3}{4}$ in sky blue and star shaped. Long vase life. Pelleted seed.

11682 Heavenly Blue **E**

Candytuft

Iberis odorata/arama

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

Cramers Series

Flowers feature a wide head with a full comb that makes a great fresh cut.

11789 Burgundy

11790 Lemon Lime

11793 Rose

Cramers Hi-Z

Unique, not crested. Tall slender deep red spikes. Use as fresh cut, or dried.

11792 Hi-Z

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.

22906 Red Flame. Red foliage and stem. Medium 6-8 in. crested combs. Height: 3 ft.

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.

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

25357 Pink

25358 Red

25359 Rose

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

11855 Mix

C. plumosa (Feather)**Hiryu No. 2 Red**

Excellent red plumed celosia.

11809 Hiryu No. 2 Red

Pampas Plume Series

Feathery plumes. Height: 2 1/2-3 ft.

11799 Forest Fire. Scarlet with bronze red foliage.

22260 Golden

20989 Scarlet

18562 Mix

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

26099 NEW Cherry

20958 Dark Pink

25095 Gold

20955 Orange

26100 NEW Purple

20954 Red

20959 Wine Red

23930 Yellow

22520 Mix

Sylphide

Great plumed celosia in a popular greenish yellow color. Ask for culture. Height: 30-40 in.

11856 Sylphide

CUT FLOWERS

CELOSIA



Celosia continued

C. spicata (Wheat Celosia)

Celway Series

Plumosa flower shape with short, programmable 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 **H**

Cerinthe

C. major purpureascens

70°F. 5-21 days.

NEW Kiwi Blue

Brilliant, blue-tinged bracts and stems, with purple flowers. Height: 28 in.

25267 Kiwi Blue **I**

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 **J**

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 **K**

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 1/2 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 1/2 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**Afternoon White**

Improved Tetraploid-type. Strong stems, sturdy, with thick flower petals. Best in trials. Height: 40 in.

27051 White

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 O

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.

18983 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 1/2-2 3/4 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 Camelot. 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

Pacific Giant Series

All have white bees unless noted. Flowers June-July. Height: 4 1/2-6 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 1/2 in. across, with a white bee. Can be grown year round. Crop Time: sow to finish 5 1/2 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 Bellamsum. 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****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****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.**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.** **O**

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 Bogдана. 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.

Godezia

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) H

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

CUT FLOWERS

LARKSPUR



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

NEW 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	NEW	Arena 2	Purple Picotee I	Standard Double		2		
21252		Arena 3	Apricot	Standard Double			3	
22964		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		3	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			
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		2		
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	NEW	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 **E**

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 **K**

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.

To order, contact your Gloeckner representative today!

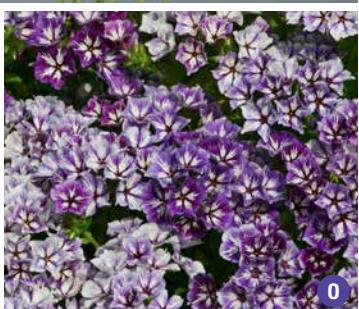
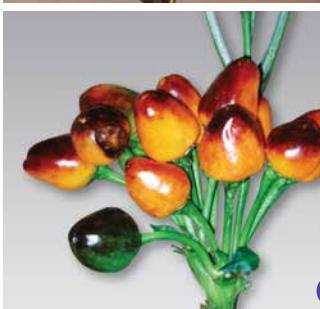
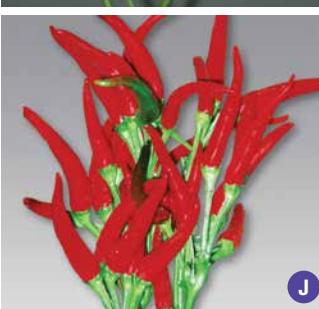
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It's in our nature.

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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.
2869 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 annuum

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

ASCGF 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.

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

S. stellata**Ping Pong**

Stems topped with attractive ball shaped semi-transparent seed heads. Height: 2 ft.

15278 Ping Pong P

Fata Morgana

Unique, yellowish pink pincushion flower, that will flower prolifically throughout the summer. Height: 39 in.

23644 Fata Morgana I

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

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 O
- 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 Plumbblossom.
 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 O
 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 (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**

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 1/2-3 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 Hari 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

Pruesse 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, Pruesse is tops.

For winter flowering, use the 95% double types, and follow up with Pruesse 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 O
26531 Rose B
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 **O**
- 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 Grisel 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

**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.

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 O

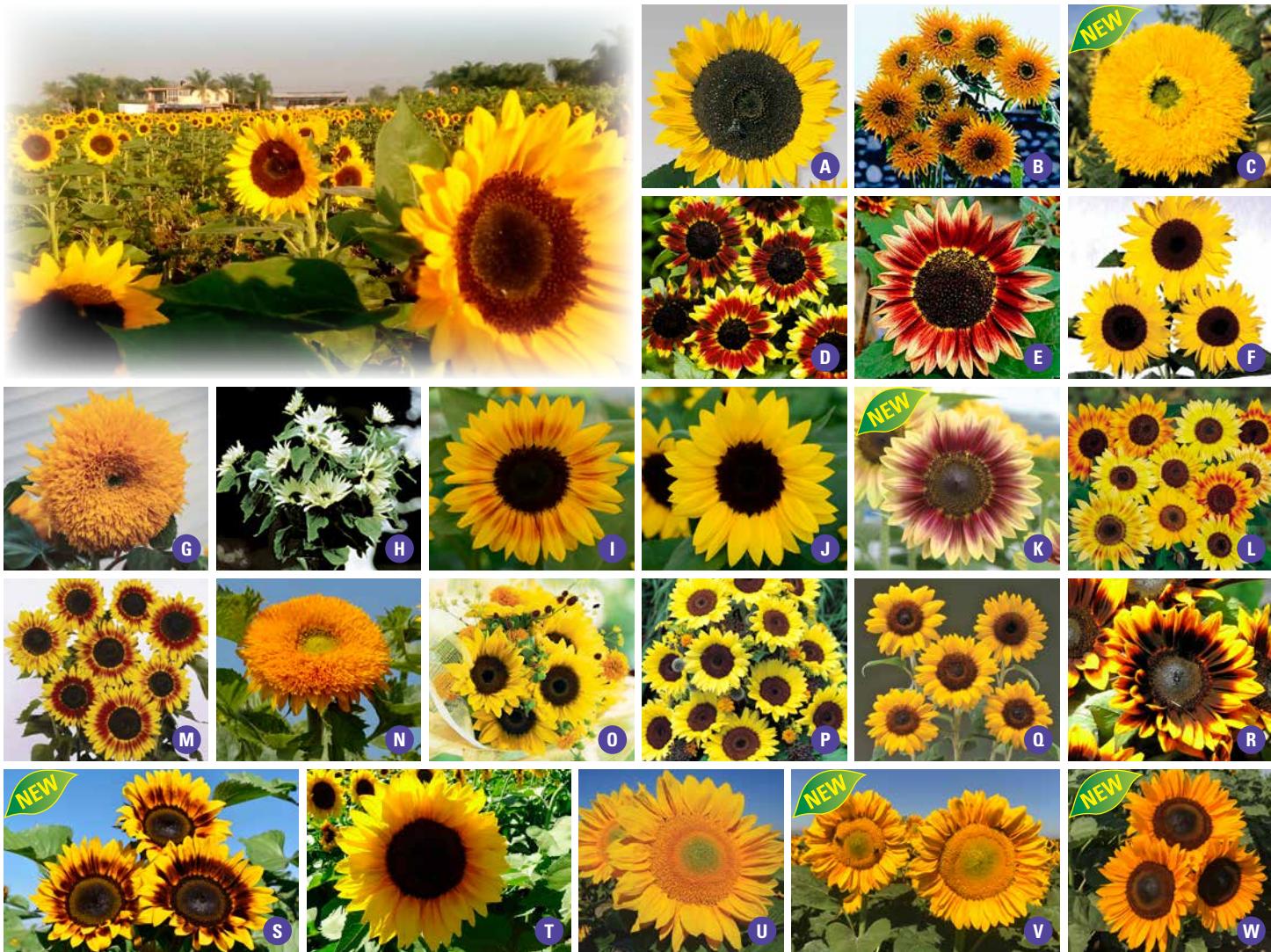
Purple Haze

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. <i>Gloeckner Exclusive.</i> K	Spring, Summer, Fall	Bicolor Purple/Orange	dark	Single	No	55-65	4-6 FT.	
26047-10M	NEW Marley TREATED. <i>Gloeckner Exclusive.</i>	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



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.	

*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



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	Vincent's Choice P	DLN All Seasons	Golden Yellow	dark	Single	No	50-85	4-5 FT.	Up
22269-10M	Vincent's Choice TREATED	DLN All Seasons	Golden Yellow	dark	Single	No	50-85	4-5 FT.	Up
24929	Vincent's Choice Deep Orange DMR Q	DLN All Seasons	Deep Orange	dark	Single	No	50-85	4-5 FT.	DMR, Up
24930-10M	Vincent's Choice Deep Orange DMR TREATED	DLN All Seasons	Deep Orange	dark	Single	No	50-85	4-5 FT.	DMR, Up
22272	Vincent's Fresh R	DLN All Seasons	Golden Orange	light	Single	No	50-85	4-5 FT.	Up
22271-10M	Vincent's 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.	

*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

CUT FLOWERS

ZINNIA



Zinnia

Z. elegans

70°-80°F. 5-10 days. Cover seed lightly.

Benary's Giant Series

Fully double 4-4 1/2 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 1/2-4 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**

Mazurka

Large 3 in. scarlet with cream tips double flowers. Strong plant habit with excellent branching. Height: 25-30 in.

24777 Mazurka **F**

Oklahoma Series (Pumila type)

1 1/4-1 1/2 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**

Queenly 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. **O**

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. herbeo-hybrida

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

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 I

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

Frilly 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 **V**
- 26242 NEW Salmon Flame **W**
- 12136 Scarlet
- 12138 White
- 12139 Wine Flame
- 19739 Mix

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 *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 boyletris.

24092 Fantasy Mix

Frange Tetra Striata

Large flowers. Original color – streaks of purple and violet (orchid color).

24093 Frange Tetra Striata O

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

Friilly 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 1/2-4 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**

POT PLANTS



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 O

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

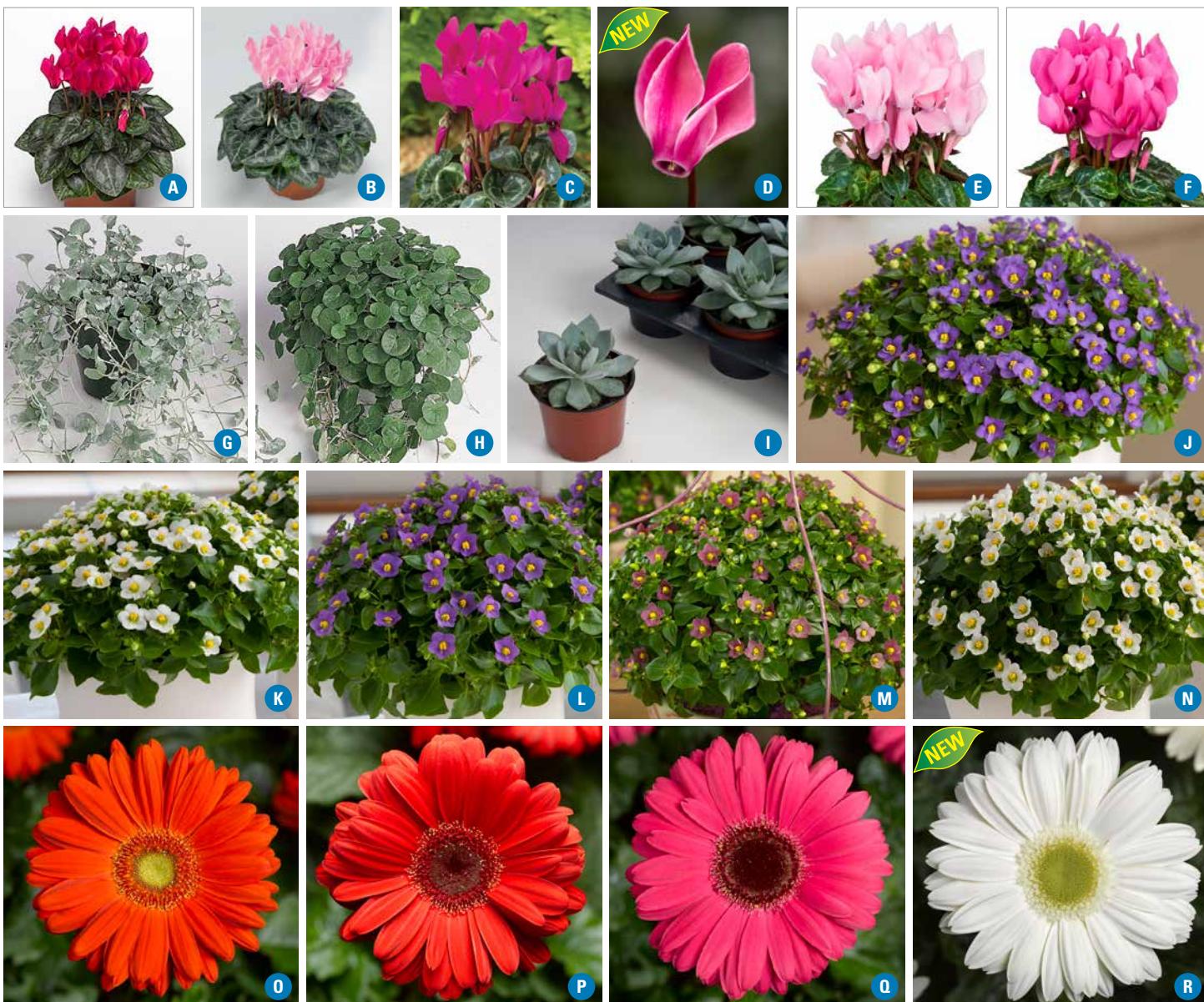
25471 Wine Red Fuji

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 vigorous plants for 5 in. pots and larger. 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**

Colorbloom Series

Designed for retail market quarts. About 10 days faster to flower than competition. Uniform, short flowering window, less PGPs. 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 1/2 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 Q
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 1/2 to 4 1/2 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

POT PLANTS

GERBERA



Gerbera continued

Flori Line Micro Series (2 1/2 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 1/2 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 1/2 to 4 1/2 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 1/2 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 **O**

Helichrysum

H. microphyllum

70°-75°F. 7-10 days. Cover seed lightly.

Silver Mist

Silver foliage and stems. 1/4 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**



A

B

C

D



E

F

G

H



I

J

K

L

M



N

O

P

Q

R

Mimulus

M. hybrida

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

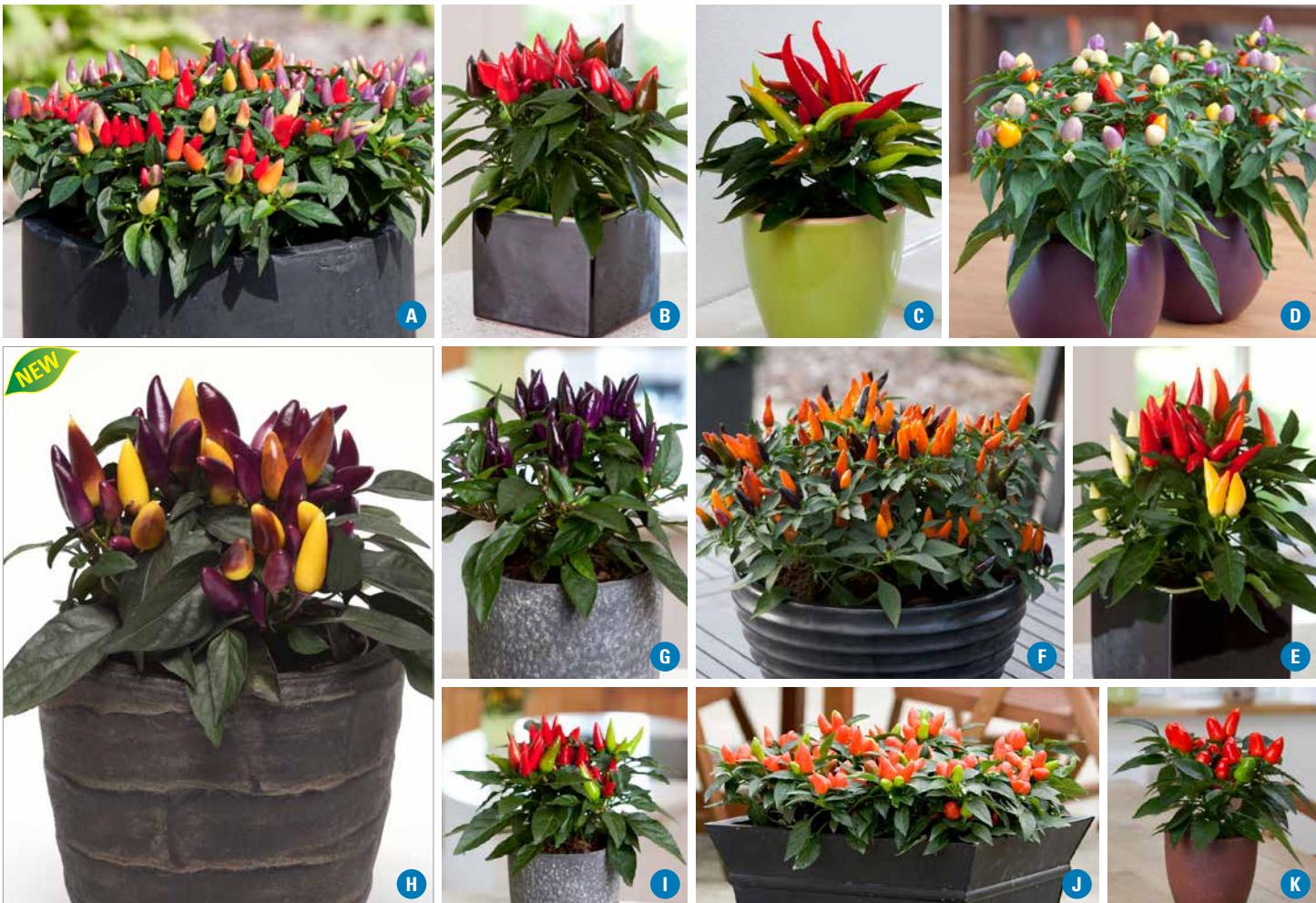
Wicked

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 O
- 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 *continued*

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. 4 days. Cover seed lightly.

Spilanthes

S. olereace

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

Shamrock

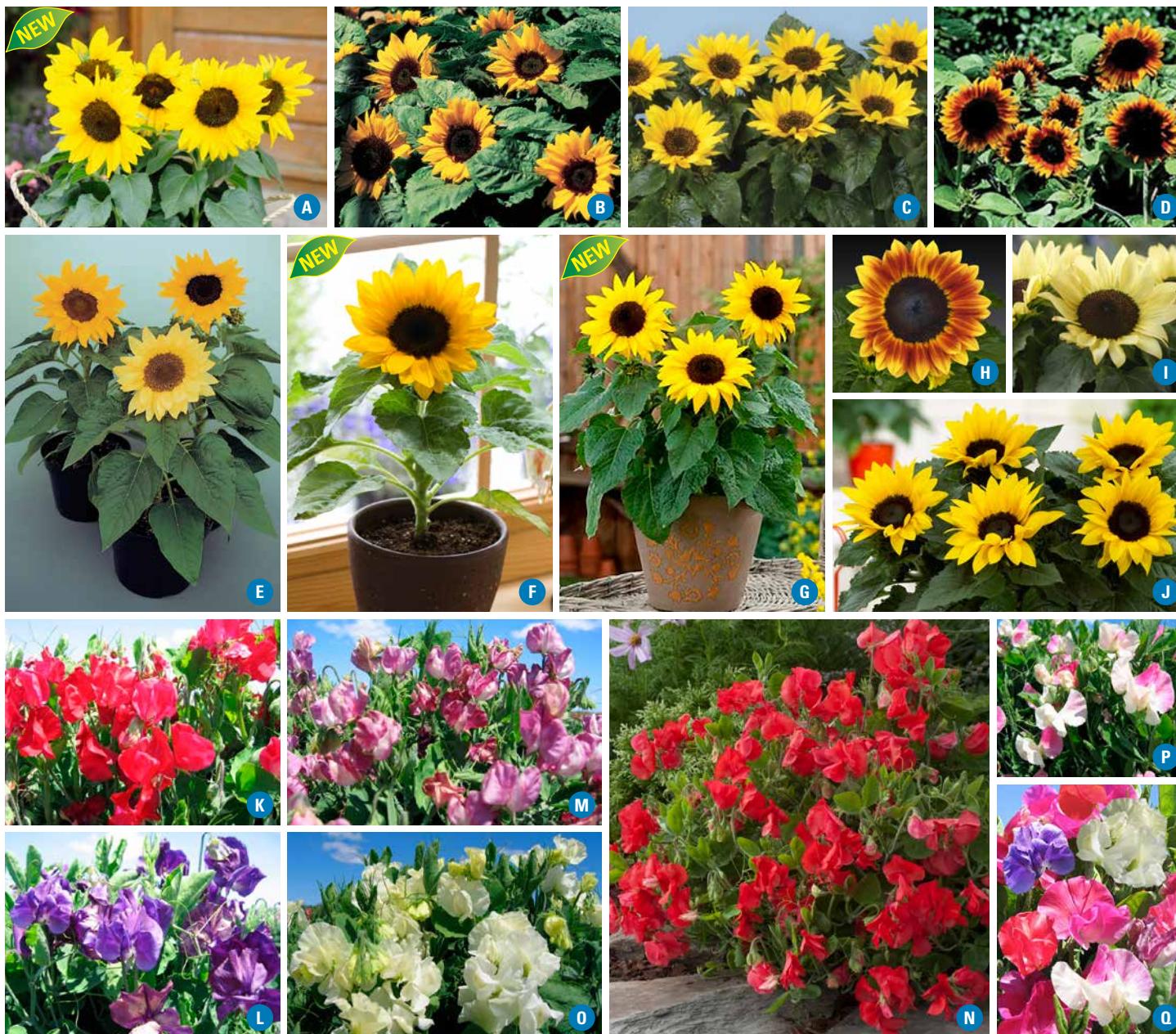
Trifolium repens minus

65°F. 10 days. Cover seed.

True Irish

Popular St. Patrick's Day pot plant.

15300 True Irish O



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**

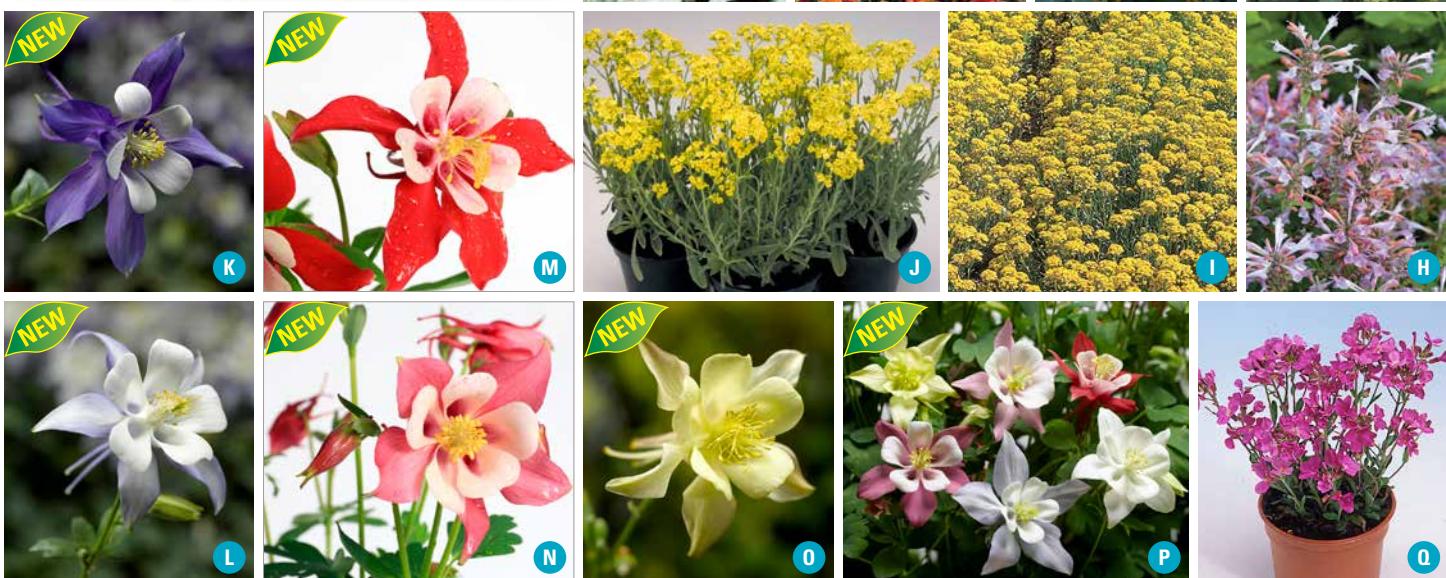
22688 White **O**

22687 White w/Rose **P**

22689 Mix Full **Q**

PERENNIALS

ACHILLEA



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

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. Zones: 3-8.

Spring Charm

Carmine red. Height: 6-8 in. Spread: 8 in. Zones: 3-7.

11217 Spring Charm O

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**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. arendsi**

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 I

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

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

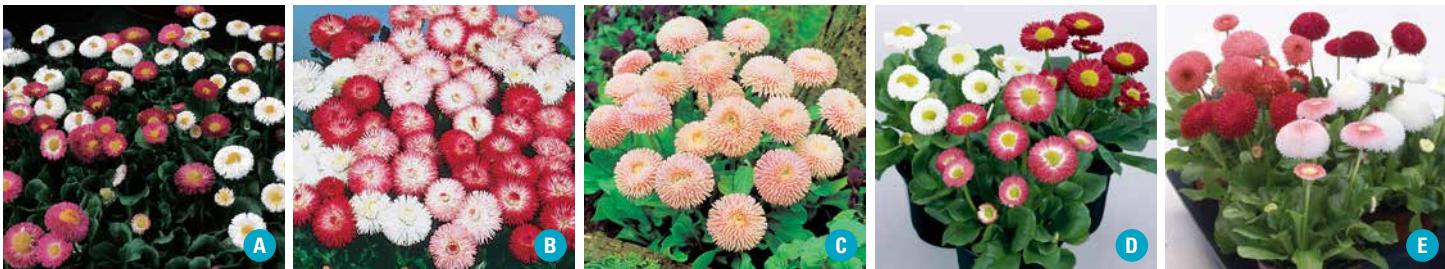
Bellisima Series

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 Bellisima Mix O

PERENNIALS

BELLIS



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. calycanthema

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

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

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.

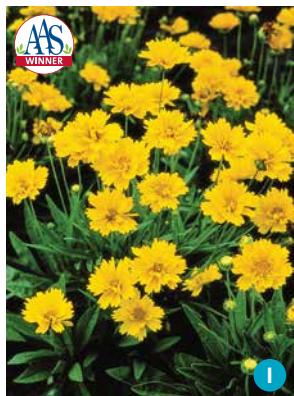
24964 Blue Q
24965 White R

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**

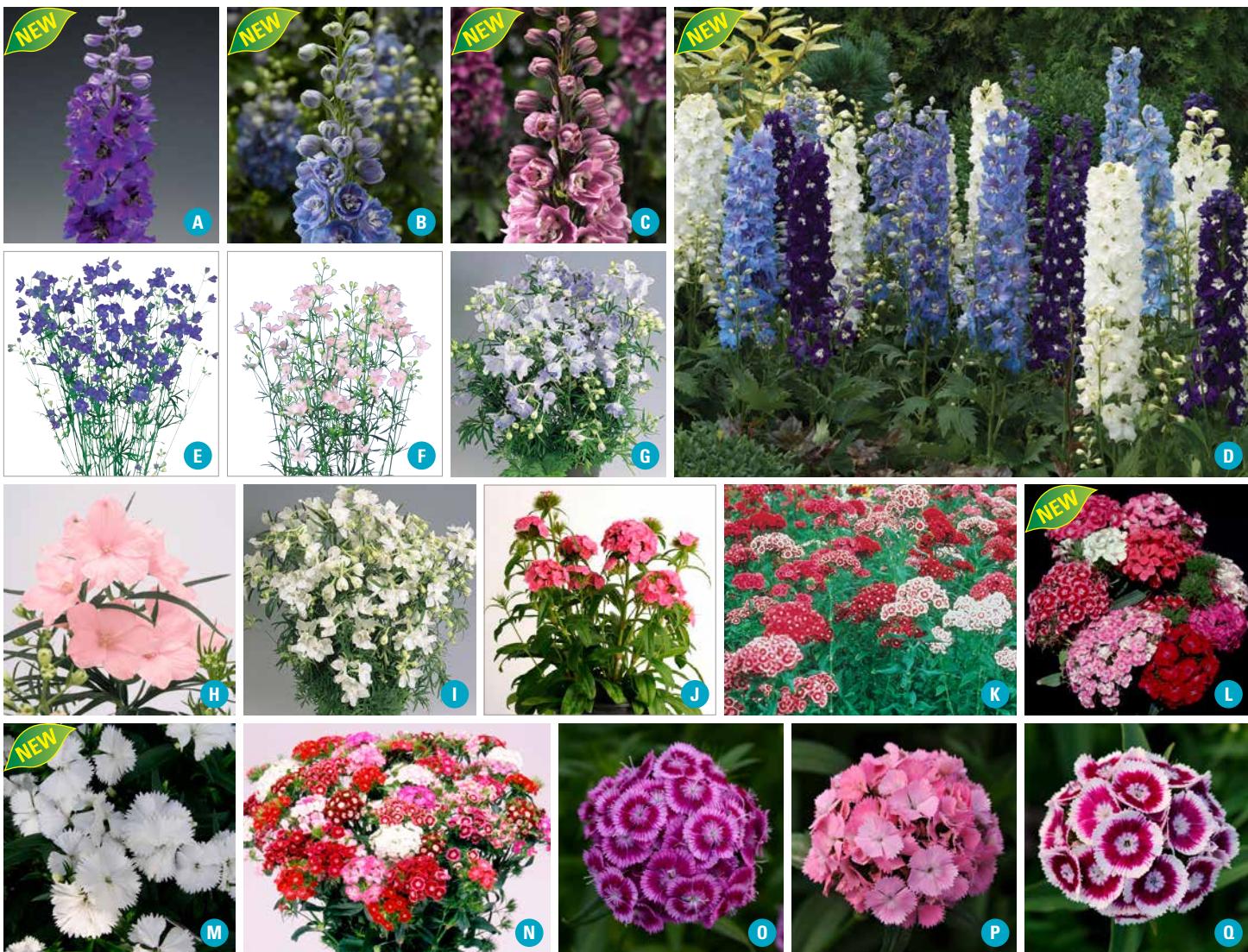
Sunkiss

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**

PERENNIALS

DELPHINIUM



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.

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**

NEW 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 **O**
- 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

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 I

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

Primadonna 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

Luminous flowers are a striking contrast to dark green leaves. Striking red foliage in fall. Hardy and drought tolerant. Great for rock gardens, stonewalls 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. chiloense

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

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. cerastioides

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.

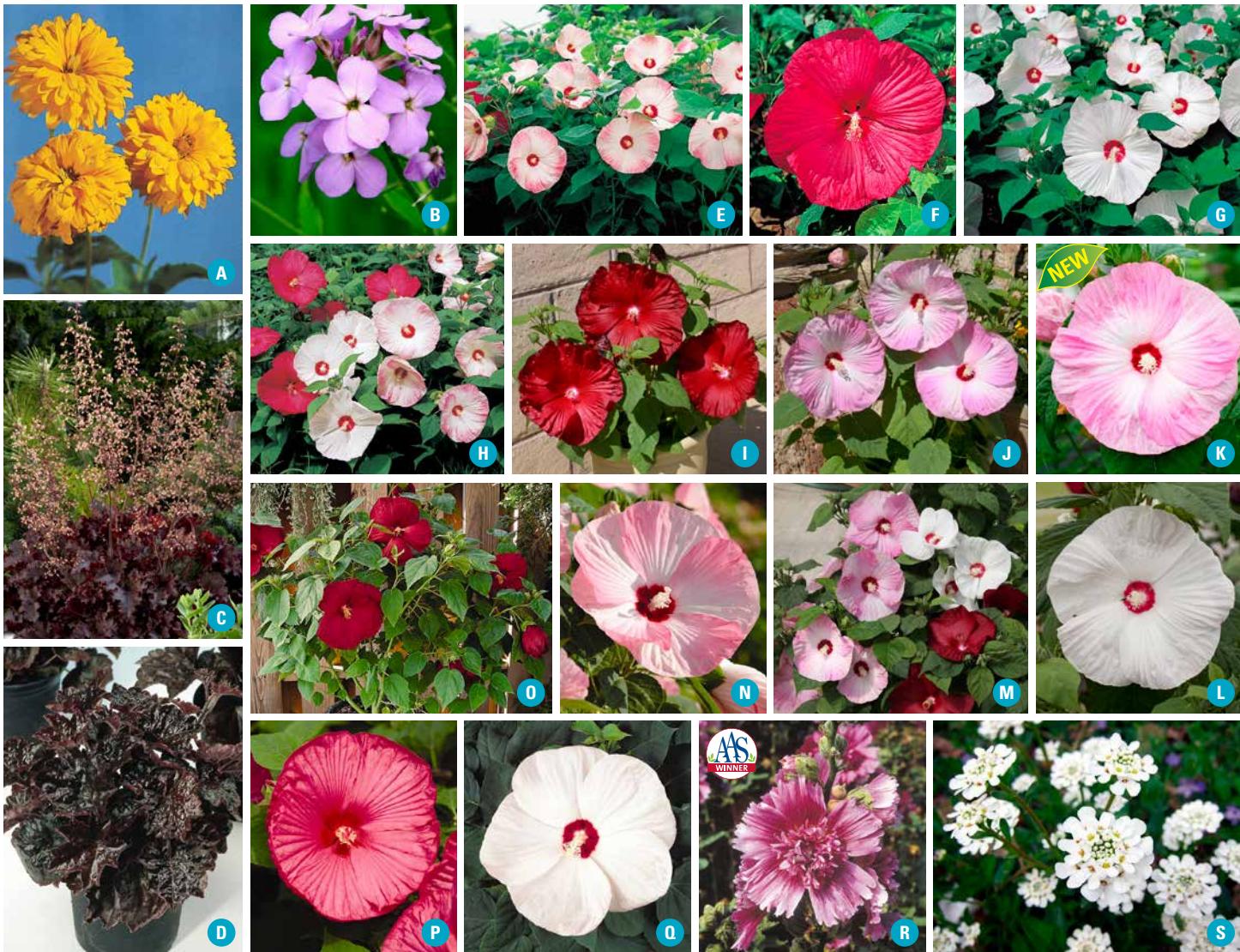
21227 Pixie Splash **P**

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 rosa

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

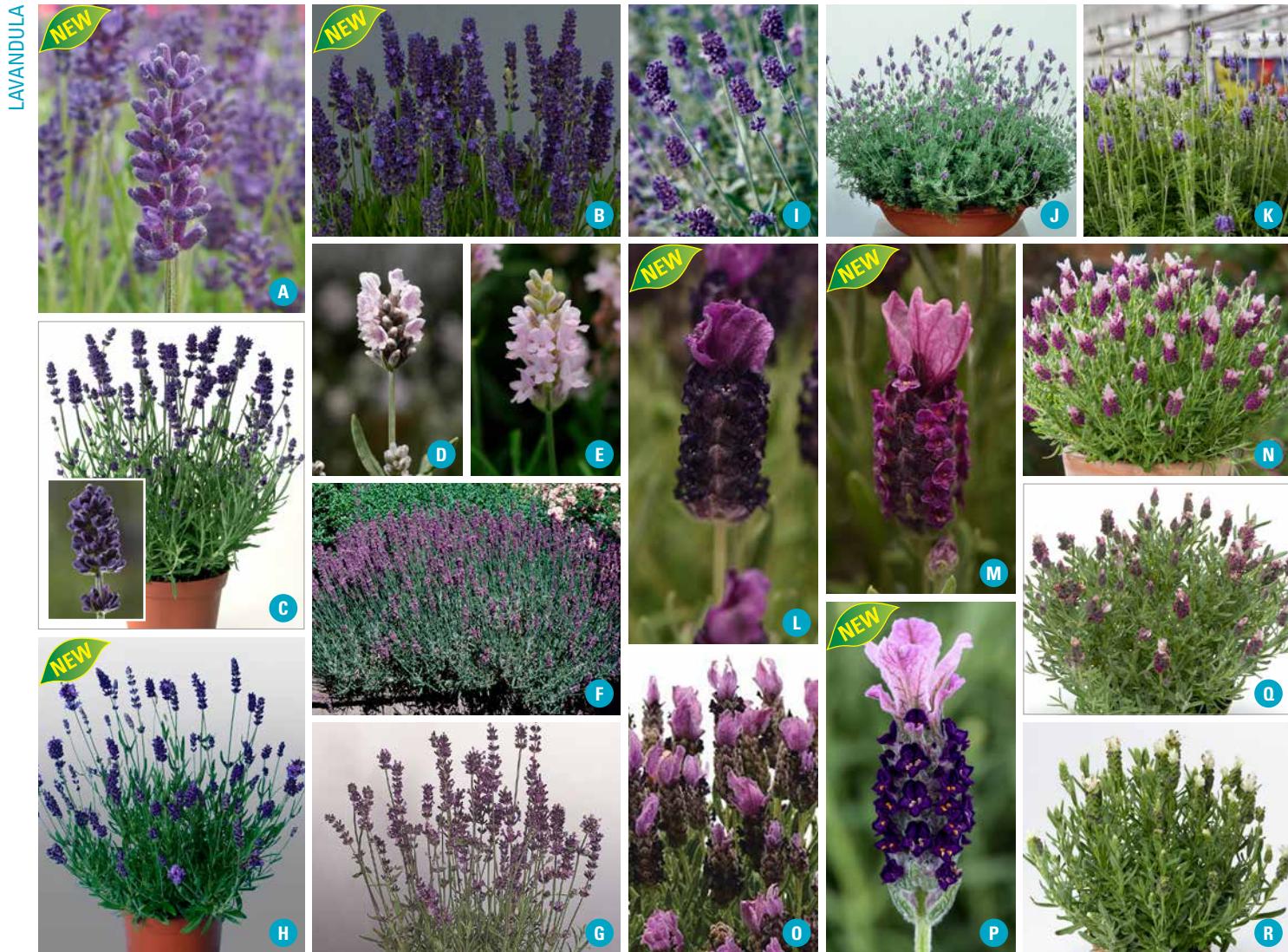
More uniform flowering and plant habit. Improved branching and center fill provides a more attractive finished plant. No pinching needed. Height: 6-8 in. Spread: 8-12 in. Zones: 3-8.

23952 Whiteout

Kniphofia

See Tritoma

PERENNIALS



Lavandula (Lavender)

L. angustifolia or vera (English Lavender)
65°-70°F. 21-28 days. Cover seed.
Flowers June-August

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

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

Elegance 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

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



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

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.

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

PERENNIALS

MYOSOTIS



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 X

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. Pruned 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

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

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 nudicaule (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 1/2 ft. Spread: 14-18 in. Primed seed.

20698 Goldsturm P

R. occidentalis**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 O

PERENNIALS

SALVIA



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. arendssii

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 arendssii* 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 X

Single 2-2 ½ 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 X

Graceful fernlike sprays of gold. Excellent bouquet filler. Height: 2 ft. Spread: 1-1 ½ 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 X**

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) X

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 ½ 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 X

Strong grower. Good cut flower. Height: 2 ft. Spread: 1 ft. Zones: 3-8.

16221 Alba (White) K

16219 Blue L

18118 Rose M

VEGETABLES

ARTICHOKE



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.

24790 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 Aspabroc. 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 personal-sized 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. Gynoecious, increases yields. Tolerances: scab, powdery and downey mildew. **O**

12027 Fanfare. 63 days. **AAS Winner.** Disease tolerance includes: downey 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**

VEGETABLES

CUCUMBER



Cucumber continued

23849 Peticue. 45 days. Bred to stay compact, vines take up $\frac{1}{3}$ 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 Dusty. 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 flavor and leaf size. Height: 12-14 in. Spread: 10-12 in. **C**

13032 Basil Dwarf Bouquet Spicy Globe. Aromatic leaves about ½ 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 basils 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-Oz Organic Basil Genovese

13033 Basil Large Leaf Italian. Leading general purpose Basil. Height: 1-2 ft.

25830-Oz Organic Basil Large Leaf Italian

13034 Basil Lemon. Strong lemon fragrance. Height: 2 ft.

25831-Oz 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 basils. Larger leaves. Thicker stems and late flowering, higher yields. Height: 28-39 in. **J**

25892-Oz 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 ½ 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-Oz Organic Dark Opal

13044 Dill Bouquet. Chiefly grown for seed clusters used in pickling. Very prolific. Height: 12 in.

25841-Oz 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-Oz 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 vulgaris. 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. **R**

VEGETABLES

HERBS



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 Mandarina 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 Orangello. (*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, Rouquette 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**

NEW 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-curled 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**

VEGETABLES

PEAS



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**

25911-0z 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 1/2 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 3/4 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, 1/2 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 1/4 in. wide fruit with tapered end. **G**

27040 NEW Early Flame. 60 days. Jalapeño. Compact, productive, and fast. Good in containers. Large 4 x 1 1/2 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 1/2 in. x 3/4 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 1/2 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 1/2 in. **J**

14265 Hungarian Yellow Wax (Hot Banana). 65-68 days. Very early, long fruit. 5 1/2 x 1 1/4 in. tapered, waxy, light yellow. **K**

25382 Jalapeno La Bomba II. 50 days. Matures green to red. Improved disease resistance. Fruit: 3 x 1 1/2 in. Height: 32-40 in. Spread: 12-18 in. **L**

14268 Jalapeño M. 72-75 days. Compact plants produce fruit 3 x 1 1/2 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 1/2 x 2-2 1/2 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 1/2 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.

VEGETABLES

PEPPER



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.

25903-0z 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.

25907-0z 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**

Pillar Mimi Series **N**

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

Pillar Sweet Series **O**

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. **P**

14271 Purple Beauty. 70 days. Blocky, 4 x 3 ½ in. Thick-walled green to dark purple. **R**



Pumpkin

72°F. 7 days. Cover seed.

24713 Big Max. 120 days. Up to 100 lbs. Nearly round with bright red-orange skin. **25915-Oz 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. **M**

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-Oz 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**

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.

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-Oz 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-Oz 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-Oz 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

VEGETABLES

SQUASH



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 ½ 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 ½ 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 ½-3 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 Merian. 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 Delizioso. 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. **O**

24156 Durban. Long shelf life. **R**

15898 Elan. Finest flavor.

24095 Milan. Fruit quality.

ABZ Hanging Basket (a.k.a. Berry 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-Oz 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-Oz 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-Oz 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 containers 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.

VEGETABLES

TOMATO



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**

26895 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.** 1-1 ½ 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**

**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 1/4 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. 3/4 oz. IND. Bright red grape fruit. Up to 60 fruit on long elegant trusses. Spread: 24 in. **G**

24475 Sugar Rush. 50 days. 3/4-1 1/4 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.** 1/2 oz. Semi-DET, T. Very sweet, with a reddish-pink oval shape. **I**

26252 NEW Summerlast. 65 days. 1 1/2 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. 1/2 oz. IND, FT. Golden orange cherry. **M**

25282 Supersweet 100. 65 days, 1/2 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. 1/2 oz. IND. VF. Small round red, full flavored classic cherry. **O**

Sweet N Neat Series
90 days. 1/2 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. 3/4-1 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, 1/2 oz. DET. Cascading, branching cherry tomatoes for ornamental baskets. Delicious to eat. Vines 2 ft.

VEGETABLES

TOMATO



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 1/2 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 1/2-5 1/2 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 acidity 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 1/2-1 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 1/2 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 1/2-11 1/2 oz. IND. Bright red slicer with well-balanced, old-time look and flavor. Cross of Costoluto Genovese x Brandywine. **N**

24473 Marzinera. 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 1/2-4 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.



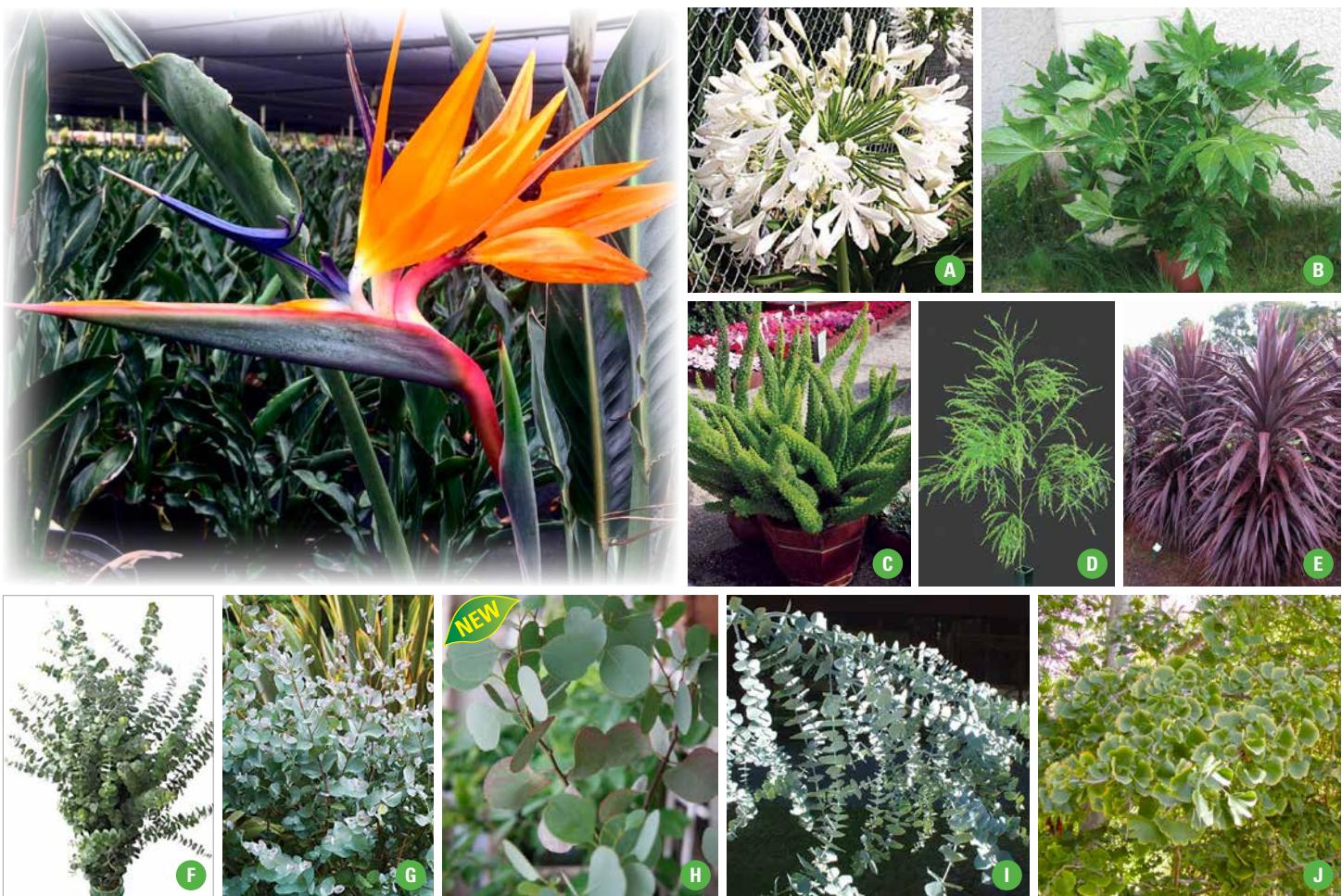
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Item #	Variety	Microgreen	Salad Green	Form	Days	Taste	Stem	Leaf
25826	Amaranth Red	•	•	Organic	16-25	Mild	Bright Fuchsia	Bright Fuchsia
25827	Arugula A	•	•	Organic	16-25	Nutty	Red	Green
25828	Arugula Wild	•	•	Organic	16-25	Strong	Red	Green
25829	Basil 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 Yuko	•		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



FOLIAGE & EXOTIC

AGAPANTHUS



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 Sprengerii. 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 Chamarops 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

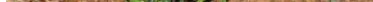
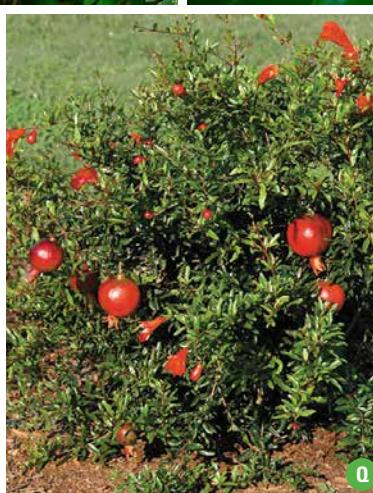
(Silver Dollar)
Silvery, round leaves, like silver dollars. Popular filler with strong color contrast. **H**

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. **I**

12612 Monstera deliciosa (Split-leaf Philondendron). B,D, 14 days. Young foliage is uncut. Mature leaves are heavy, leathery, dark green, deeply cut and perforated. Seed available Sept.-July. **II**

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. **II**

12630 Radernachera 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 asperagooides. A,D,E,G, 40 days. Handsome shiny 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

ANEMANTHE



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.

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.

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.

20227 Carex comans Zora. Unique texture and deep caramel foliage. A perfect accent in mixed containers. Height: 12-14 in.

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.

21220 Carex buchananii Red Rooster. Pot Height: 12 in. Garden Height: 24 in. Spread: 12 in. Zones: 7-9. Multi-seed pellet.

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.

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.

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 **12965 White Feather**

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.

21223 Festuca cinerea 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.

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 Spiralis. 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.

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.

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.

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 effuses 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 ¼ 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**

REFERENCE MATERIALS

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
Cordyline	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

REFERENCE MATERIALS

GODETIA

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
Marjoram, 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
Pyrethrum	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	

REFERENCE MATERIALS

SNAPDRAGON

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	
Spilanthes	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.

SNAPDRADON 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	Flowering Date
Aug. 22-Dec. 20	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	Flowering Date
July 6-Aug. 16	Oct. 1-Dec. 1
Jan. 7-Mar. 8	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	Flowering Date
Mar. 15-July 2	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.

REFERENCE MATERIALS

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 annus

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 ½-3 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."

REFERENCE MATERIALS

SUBSTRATE MOISTURE LEVEL TABLE

HELPFUL FACTS

	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/7.5 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.

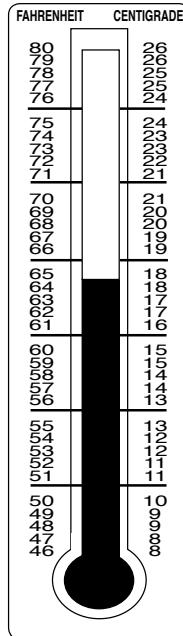
HELPFUL FACTS

HELPFUL FACTS

GROWTH REGULATORS AS SPRAYS SPRAY 1 GALLON OF SOLUTION PER 200 SQUARE FEET OF BENCH AREA		*Check Label for Drench Rate Application	Mixing Amount per 10 Gallons of Water		
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.

**TEMPERATURE CONVERSIONS**

To convert Fahrenheit to Centigrade (Celsius):
Subtract 32 and multiply by .55,
thus $68^{\circ}\text{F} = 20^{\circ}\text{C}$

To convert Centigrade to Fahrenheit:
Multiply by 1.8 and add 32,
thus $60^{\circ}\text{C} = 140^{\circ}\text{F}$.

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

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: $0.20 \times 75 = 15 \text{ ppm}$ (% nitrogen in fertilizer multiplied by 75). Therefore you need $200 \div 15 = 13.3 \text{ oz}$ (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.

REFERENCE MATERIALS

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 Meron	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
3	12	13	14	15	16	17	18	29	12	13	14	15	16	17
4	19	20	21	22	23	24	25	30	19	20	21	22	23	24
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
6			2	3	4	5	6	7	8	32	2	3	4	5
7	9	10	11	12	13	14	15	33	9	10	11	12	13	14
8	16	17	18	19	20	21	22	34	16	17	18	19	20	21
9	23	24	25	26	27	28	29	35	23	24	25	26	27	28
								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	15	16	17	18	19	20	21	38	13	14	15	16	17	19
13	22	23	24	25	26	27	28	39	20	21	22	23	24	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
16	12	13	14	15	16	17	18	42	11	12	13	14	15	17
17	19	20	21	22	23	24	25	43	18	19	20	21	22	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	7
20	10	11	12	13	14	15	16	46	8	9	10	11	12	14
21	17	18	19	20	21	22	23	47	15	16	17	18	19	21
22	24	25	26	27	28	29	30	48	22	23	24	25	26	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	5
24	7	8	9	10	11	12	13	50	6	7	8	9	10	12
25	14	15	16	17	18	19	20	51	13	14	15	16	17	19
26	21	22	23	24	25	26	27	52	20	21	22	23	24	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
2	10	11	12	13	14	15	16	28	11	12	13	14	15	17
3	17	18	19	20	21	22	23	29	18	19	20	21	22	24
4	24	25	26	27	28	29	30	30	25	26	27	28	29	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	31	1	2	3	4	5	7
6	7	8	9	10	11	12	13	32	8	9	10	11	12	14
7	14	15	16	17	18	19	20	33	15	16	17	18	19	21
8	21	22	23	24	25	26	27	34	22	23	24	25	26	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	35	1	2	3	4	5	6
10	7	8	9	10	11	12	13	36	5	6	7	8	9	11
11	14	15	16	17	18	19	20	37	12	13	14	15	16	18
12	21	22	23	24	25	26	27	38	19	20	21	22	23	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			4	5	6	7	8	40	3	4	5	6	7	9
15	11	12	13	14	15	16	17	41	10	11	12	13	14	16
16	18	19	20	21	22	23	24	42	17	18	19	20	21	23
17	25	26	27	28	29	30	31	43	24	25	26	27	28	30
								31						
WK.	MAY						WK.	NOVEMBER						
	S	M	T	W	T	F	S	S	M	T	W	T	F	S
18			2	3	4	5	6	1	44	1	2	3	4	5
19	9	10	11	12	13	14	15	45	14	15	16	17	18	20
20	16	17	18	19	20	21	22	46	21	22	23	24	25	27
21	23	24	25	26	27	28	29	47	28	29	30			
30	31													
WK.	JUNE						WK.	DECEMBER						
	S	M	T	W	T	F	S	S	M	T	W	T	F	S
22			1	2	3	4	5	48		1	2	3	4	4
23	6	7	8	9	10	11	12	49	5	6	7	8	9	11
24	13	14	15	16	17	18	19	50	12	13	14	15	16	18
25	20	21	22	23	24	25	26	51	19	20	21	22	23	25
26	27	28	29	30				52	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'

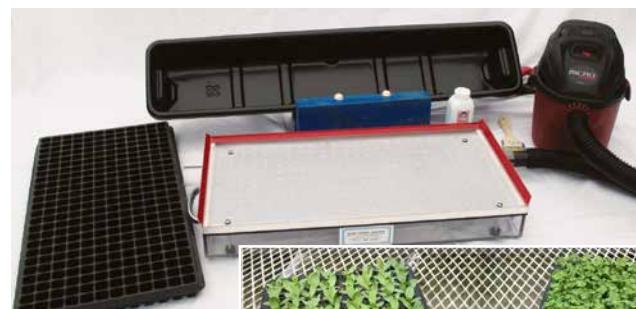
Please call for custom pricing, bulk skid volume discounts available. Welded Wire Flower Support is manufactured by special order only. Please allow a minimum of eight (8) weeks for delivery.



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"



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 unequaled 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.



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



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



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.

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 cycolac 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 $\frac{3}{4}$ " 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 400 AL
- High impact cycolac plastic and aluminum
- $\frac{3}{4}$ " 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 $\frac{3}{4}$ " 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



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!



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 cycolac 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-W	7 @ 40 PSI	1.6 oz	11.75	10.75

Seedling Nozzle™

- Water fragile plants, delicate seedlings or plant cuttings
- Produces and extra fine, hollow "Cone Mist Pattern"
- Sprays $\frac{1}{2}$ gallon of water per minute
- $\frac{3}{4}$ " brass threads



Item #	Mfr #	GPM	Weight	Price (\$ 1-5)	Price (\$ 6+)
41009	510C	$\frac{1}{2}$ @ 40 PSI	2.7 oz	7.50	6.75

Brass Hose Swivel

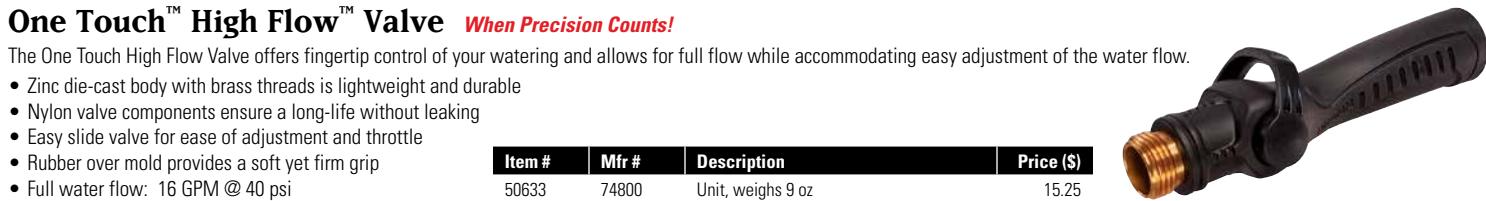
Heavy-duty Brass Swivel is a live swivel, meaning it swivels under pressure, allowing unencumbered movement between the hose and attachment.

- 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

NEW!



Item #	Mfr #	Description	Price (\$)
50634	72700	18 GPM, weighs 6 oz	11.25



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



COM-100

COM-80

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 topighting; 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!



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, WHICH-EVER 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.

Delays, Shortages and Substitutions

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.

Survival

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.

Protected Varieties

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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Key to Seed Form Codes used in Seed Price Booklet and online:

Code	Seed Form
Ctd	Coated
Dtl	Detailed
Fct	Film Coated
Mpl	Multi Seed Pellet
Or	Organic
Plt	Pelleted
Pmpl	Precision Multi Seed Pellet
Prm	Primed
Sct	Slick Coat
Td	Treated with fungicide
No Code	Raw

Gloeckner has the following divisions for all of your growing needs...

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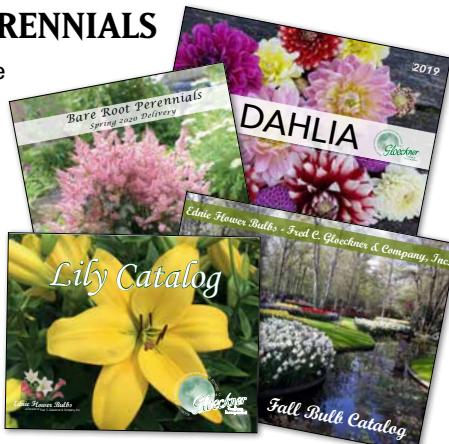
We offer rooted, unrooted, and callused cuttings as well as annual and perennial plugs from the world's leading propagators and breeders. Below are just a few of our leading Young Plant and Plug sources:



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- Bulbs for Landscapers
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For program information, culture, catalogs, and pricing, please contact your local Gloeckner Field Representative (see pages 4-7). Or for Young Plants, Plugs, Grower Supplies, and Seeds, you may contact our New York office at 1.800.345.3787; for Bulbs and Perennials, you may contact our Clackamas, Oregon office at 1.888.655.0907 or our Fredon, New Jersey office at 1.800.24.EDNIE.

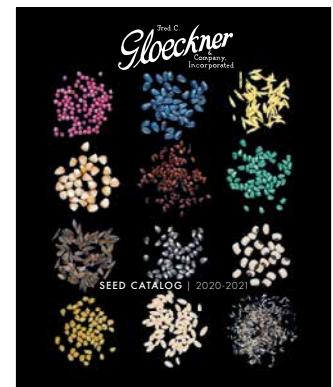
GROWER SUPPLIES

We carry a wide range of Grower Supplies to meet the needs of any size growing operation. Below are just a few of our leading Grower Supply sources:



SEED

Gloeckner provides a full range of seed products from breeders throughout the world. There are over 4000 products listed in this year's catalog, plus on our online website we offer over 9000 seed varieties. Below are just a few of the Seed breeders we represent:



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