

2012 Catalogue



Kieft-**Pro**-Seeds

Kieft-Pro-Seeds

A vibrant garden scene featuring rows of purple spires, yellow daisy-like flowers, and pink gerberas. The purple spires are in the foreground, while the yellow and pink flowers are in the background. The overall scene is lush and colorful.

The Kieft brand offers a full line-up of unique, high-quality seed perennials. Professional growers count on Kieft's innovative yet solid genetics, reliable quality, personalized service and easy "one-stop shopping" to keep their program moving like a well-oiled machine.

This year the Kieft perennial assortment adds newcomers like Pixie Splash Gypsophila and expands with well-known varieties including PowWow® Echinacea and Mesa™ Gaillardia, formerly offered by PanAmerican Seed. Specialty crops like Revolution Gerbera and Bombay Celosia also enhance your choices.

Enjoy the 2012 Kieft catalogue. When you are ready to order, call PanAmerican Seed in the United States or Canada. Outside of North America, contact Kieft-Pro-Seeds in Holland.

On our cover: NEW Mesa™ Bright Bicolour Gaillardia. Page 224.

ACANTHUS 🌞

Acanthus mollis

Height: 40 in./1 m

Spread: 32 to 36 in./80 to 90 cm

USDA Hardiness Zones: 6 to 10 (-10 to 30°F/-23 to -1°C minimum temperatures)

Supplied as raw seed.

Impressive plant produces large rose and white spikes over attractive classic foliage. Good for borders, patio planters, or as a specimen plant.

AGASTACHE 🌞

Agastache pallidiflora ssp. *neomexicana*

Pink Pop

Height: 10 to 12 in./25 to 30 cm

Spread: 8 to 10 in./20 to 25 cm

USDA Hardiness Zones: 7 to 10 (0 to 30°F/-18 to -1°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Highly uniform strain of Agastache, with excellent basal branching and compact plant habit. Requires no vernalization and has a short production period, finishing in 10 to 12 weeks. Offers an appealing appearance at retail, and excellent garden performance with rich and long-flowering, fragrant pink spikes. Tender perennial; grow at minimum temperature of 59°F/15°C. Recommended sowing time is March to May.

AGERATUM 🌞

Ageratum houstonianum

New Everest Blue

Height: 26 in./65 cm

Spread: 8 to 12 in./20 to 30 cm

Supplied as easy-to-sow pelleted seed.

Outstanding new cut flower Ageratum offers a unique, true blue colour. Low-energy crop is suitable for professional greenhouse and outdoor production; also works as a home garden cut flower. The bright, attractive colour and sturdy stems make it especially suitable for mixed bouquets. In landscapes, Everest Blue delivers strong colour and season-long flowering. Can be pinched to produce uniform, sturdy stems and a wider plant spread.

Red Sea

Height: 26 in./65 cm

Spread: 8 to 12 in./20 to 30 cm

Supplied as easy-to-sow pelleted seed.

First red Ageratum for cut flower use on the market; the flowers open bright red and darken to purple-red upon aging. Low-energy crop is suitable for professional greenhouse and outdoor production, with a short finish time of 10 to 13 weeks. Best for April to October sales. Three-week flowering period with good vase life. Also good for backyard cut flower programs. *Fleuroselect Novelty.*

ALCEA 🌞

Alcea rosea (Hollyhock)

Chaters Series

Height: 70 to 80 in./1.75 to 2 m

Spread: 20 to 24 in./50 to 60 cm

Supplied as clean seed.

Large, fully double flowers on tall, well-branched plants in a range of attractive flowers. Late Summer flowering (July to September) for extended colour in garden beds. Very popular as a background in borders and against fences. Can be used as a backyard cut flower.

- **Chamois-Rose** Delicate, light rose.
- **Golden-Yellow** Light, clear yellow with golden glow.
- **Maroon** Deep, maroon-red centre with clear red outer petals.
- **Rose-Pink** Traditional, true pink colour.
- **Salmon-Pink** Attractive shades of salmon-rose.
- **Scarlet** Vibrant, bright red blooms.
- **White** Pure white, translucent flowers.
- **Formula Mixture**



Acanthus mollis



Pink Pop Agastache



New Everest Blue Ageratum



Red Sea Ageratum



Chaters Chamois-Rose Alcea



Chaters Golden-Yellow Alcea



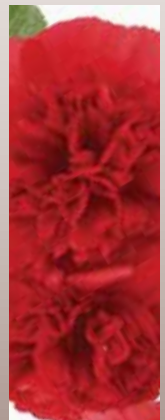
Chaters Maroon Alcea



Chaters Rose-Pink Alcea



Chaters Salmon-Pink Alcea



Chaters Scarlet Alcea



Alma Alchemilla



Irish Silk Alchemilla

ALCHEMILLA ☀️

ALCHEMILLA ERYTHROPODA

Alma

Height: 6 to 8 in./15 to 20 cm
Spread: 12 to 14 in./30 to 35 cm
USDA Hardiness Zones: 3 to 8
 (-40 to 10°F/-40 to -12°C minimum temperatures)
Supplied as TunedSeeds.

Compact, small-leaved Alchemilla produces attractive blue-green foliage and ornamental flower stems with yellow flowers in Spring. Premium perennial variety combines good basal branching with a strong, sturdy habit. Flowers 2 to 3 weeks earlier than *Alchemilla mollis* for early Spring sales potential. Recommended sowing times are December to January or June to July.

ALCHEMILLA MOLLIS

Irish Silk

Height: 12 to 14 in./30 to 35 cm
Spread: 14 to 16 in./35 to 40 cm
USDA Hardiness Zones: 3 to 8
 (-40 to 10°F/-40 to -12°C minimum temperatures)
Supplied as raw seed.

Large-leaved Alchemilla has well-defined, very ornamental leaves of mid-green with trusses of small yellow flowers in Spring. Well-filled plants with dense foliage are ideally suited for borders or early-season mixed containers. Recommended sowing times are December to January or June to July.



Luna Alyssum

ALYSSUM ☀️

ALYSSUM MONTANUM (MADWORT)

Luna

Height: 4 to 6 in./10 to 15 cm
Spread: 8 to 12 in./20 to 30 cm
USDA Hardiness Zones: 4 to 8
 (-30 to 10°F/-34 to -12°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Compact alpine variety produces grey-green foliage and masses of bright yellow flowers. Ideal for rock gardens, at the front of a border and in wall crevices. 1 to 2 weeks earlier than Mountain Gold when grown as a biennial. Can also be grown warm like an annual bedding plant. Rich and long-flowering, adds a touch of sunshine to the garden. Sow July to August for Spring/Summer flowering the following year, or February to May if scheduled as a first year-flowering perennial. *Fleuroselect Quality Award Winner.*

LOBULARIA MARITIMA

Allure Series

See Easter Bonnet Series in PanAmerican Seed, page 5.

AMARANTHUS ☀️

Amaranthus cruentus

Tower Series

Height: 40 to 48 in./1 to 1.2 m
Spread: 6 to 10 in./15 to 25 cm
Supplied as raw seed.

Professional cut flower with unusual "towerlike" flower spikes works well both fresh and dried in mixed bouquets. Very fast growing – 12 weeks sowing to flowering – for optimal turnaround time in the greenhouse. Produces 85% or more of useable stems. Striking colours accentuate the distinctive flower form.

- **Red** Deep, vibrant red.
- **Green** Striking, clear mid-green spikes.
- **Mixture** Includes Red and Green.



Tower Green Amaranthus



Tower Red Amaranthus

AMMI ☀️**AMMI MAJUS****Graceland**

Height: 40 to 55 in./1 to 1.4 m
Spread: 8 to 10 in./20 to 25 cm
Supplied as raw seed.

Strong and straight stems with very uniform growth produce more quality stems, an easier harvest and a better return per square foot/metre. Healthy, dark green foliage means less cleaning during harvest. The uniform growth prevents side shoots overgrowing the main umbel, resulting in a more manageable height. The large, flat flower umbels with clear white flowers are highly versatile for mixed bouquets. *Fleuroselect Quality Award Winner.*

AMMI VISNAGA**Casablanca**

Height: 40 to 50 in./1 to 1.25 m
Spread: 8 to 10 in./20 to 25 cm
Supplied as raw seed.

Casablanca grows very uniformly with strong, straight stems with no side shoots for easier harvest and better return per square foot/metre. Low-energy crop can be grown both indoors and outdoors. Larger, more mounded umbels than *Ammi majus*, with clear white flowers that work well in mixed bouquets.

ANACYCLUS ☀️*Anacyclus depressus***Spring Carpet**

Height: 4 to 6 in./10 to 15 cm
Spread: 12 to 16 in./30 to 40 cm
USDA Hardiness Zones: 5 to 7
 (-20 to 0°F/-29 to -18°C minimum temperatures)
Supplied as rubbed seed.

Compact plants display masses of daisylike flowers with yellow centres and white petals with a red reverse. Rosetting plants with finely indented grey-green leaves form a carpet of coverage in the border. Sow in July and August for sales in April and May the following year.

ANCHUSA ☀️*Anchusa azurea***Dropmore**

Height: 40 to 48 in./1 to 1.2 m
Spread: 20 to 24 in./50 to 60 cm
Supplied as raw seed.

This robust Summer forget-me-not produces large panicles of gentian blue flowers. Useful for borders and landscapes.

ANEMANTHELE

See ColorGrass™ in PanAmerican Seed, page 28.

ANEMONE ☀️*Anemone sylvestris* (Snowdrop Anemone)**Madonna**

Height: 8 to 10 in./20 to 25 cm
Spread: 6 to 8 in./15 to 20 cm
USDA Hardiness Zones: 4 to 7
 (-30 to 0°F/-34 to -18°C minimum temperatures)
Supplied as clean seed.

Large-flowered Anemone has white 'Snowdrop' flowers on strong stems that stand about 2 in./5cm above the plant. Very popular variety is a strong Spring seller. Sow May to June for Spring sales the following year.

ANTIRRHINUM

See Snapdragon in PanAmerican Seed, page 150.

**Graceland Ammi****Casablanca Ammi****Spring Carpet Anacyclus****Dropmore Anchusa****Madonna Anemone**



Dragonfly Mixture



Songbird Bluebird



Songbird Bunting



Songbird Cardinal



Songbird Dove



Songbird Robin



Songbird Goldfinch



Songbird Nightingale

AQUILEGIA (COLUMBINE) 🌞

AQUILEGIA X CAERULEA

Dragonfly Mixture

Height: 18 in./45 cm

Spread: 12 to 14 in./30 to 35 cm

USDA Hardiness Zones: 3 to 8
(-40 to 10°F/-40 to -12°C minimum temperatures)

Supplied as raw seed.

Multi-colour open-pollinated mixture is larger flowered and later blooming than Songbird varieties.

AQUILEGIA X HYBRIDA

Songbird F1 Series

Height: 11 to 18 in./28 to 40 cm; varies by variety

Spread: 10 to 14 in./25 to 35 cm

USDA Hardiness Zones: 3 to 9
(-40 to 20°F/-40 to -7°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

Well-adapted for 6-in./15-cm pot and garden use, economical-to-grow Songbird can be flowered in Spring from an Autumn sowing when grown in a cool greenhouse (night temperatures lower than 60°F/15°C) with no special vernalization treatment required.

Easy-to-force, free-flowering, medium-compact plants have eye-catching, 1.5 to 3.5-in./4 to 9-cm blooms in true, nonfading colours in late Spring and early Summer.

• **Bluebird** Large, light blue and white flowers. 11 in./28 cm tall.

• **Bunting** Blue and white. The 14-in./35-cm plants display flowers prominently above the foliage. Uniform and free-flowering. *Royal Horticultural Society Award of Garden Merit.*

• **Cardinal** Large, deep red and white flowers. Early-flowering and well-matched to Bluebird. 11 in./28 cm tall.

• **Dove** Pure white. Large flowers on uniform, 18-in./45-cm plants. Excellent overwintering. *Royal Horticultural Society Award of Garden Merit.*

• **Goldfinch** Pure light yellow; grows up to 18 in./45 cm in the garden.

• **Nightingale** Large, lavender and white bicolor flowers. 18-in./45-cm garden height.

• **Robin** Large, rose and white blooms on vigorous, 18-in./45-cm plants. Very easy to force into flower.

• **Mixture** Includes rose and white, lavender and white, blue, yellow, and red and white.



Swan F1 Series

Height: 20 to 24 in./45 to 60 cm

Spread: 12 to 14 in./30 to 35 cm

USDA Hardiness Zones: 3 to 9
(-40 to 20°F/-40 to -7°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Early and economical-to-grow Swan varieties can be flowered in Spring from an Autumn sowing when grown in a cool greenhouse (night temperatures lower than 60°F/15°C) with no special vernalization treatment required. Multi-stemmed plants that are well-matched for uniform size, exceptional garden performance, and abundant large blooms in vibrant colours make this the true garden aquilegia. Easy to force into flower in containers. Very high bud count for more flowers per plant. An excellent home garden cut flower that is taller than the Songbird varieties.

- **Blue And White**

- **Burgundy And White** Unique deep burgundy and white bicolor flowers. *Royal Horticultural Society Award of Garden Merit.*

- **Lavender** Deep lavender and white.

- **Pink And Yellow** Unique coral-pink and yellow blooms. Earliest to flower in the series – 3 to 4 weeks faster than other Swan varieties.

- **Red And White**

- **Rose And White** Rose and creamy white.

- **Violet And White**

- **White** Large flowers; 22-in./55-cm plants are about 20% taller than Songbird Dove.

- **Yellow** *Royal Horticultural Society Award of Garden Merit.*

- **Mixture** Matched for timing with all Swan colours except Pink And Yellow.



Swan Mixture



Swan Blue And White



Swan Burgundy And White



Swan Lavender



Swan Pink And Yellow



Swan Red And White



Swan Rose And White



Swan Violet And White



Swan White



Swan Yellow



Barlow Formula Mixture



Barlow Blue



Barlow Christa



Barlow Nora



Barlow Rose



Barlow White



Clementine Formula Mixture



Clementine Blue



Clementine Dark Purple



Clementine Red



Clementine Rose



Clementine Salmon Rose



Clementine White

AQUILEGIA VULGARIS

Barlow Series

Height: 28 to 30 in./70 to 80 cm

Spread: 16 to 20 in./40 to 50 cm

USDA Hardiness Zones: 3 to 5
(-40 to -20°F/-40 to -29°C minimum temperatures)

Supplied as raw seed.

Barlow Aquilegia is a true all-rounder – it's useful as a professional cut flower and equally at home in borders or landscapes. The first *Aquilegia vulgaris* series with fully double, spurless flowers, the highly uniform plants produce 3 to 5 stems in the first year and 5 to 10 stems in the second year. In the garden, the attractive plants and wide colour spectrum are good for backgrounds and home cut flower gardens.

- **Black** Dark, burgundy-black blooms on clear green foliage.
- **Blue** Clear purplish-blue.
- **Bordeaux** Bordeaux red with yellow heart.
- **Christa** Lilac shades with yellow reverse.
- **Nora** Pink shades.
- **Rose** Subtle rose tones.
- **White** Creamy white.
- **Formula Mixture**

Clementine™ Series

Height: 14 to 16 in./35 to 40 cm

Spread: 12 to 14 in./30 to 35 cm

USDA Hardiness Zones: 3 to 8
(-40 to 10°F/-40 to -12°C minimum temperatures)

Supplied as TunedSeeds.

The spurless double flowers face upwards and resemble Clematis flowers, hence the series name Clementine. Best-suited for 5 to 6-in./13 to 15-cm pots, the plants have good shelf life with high appeal in the store and in the perennial garden. Sow June to July for Spring sales the following year.

- **Blue** *Fluoreselect Novelty*.
- **Dark Purple** *Fluoreselect Novelty*.
- **Red**
- **Rose** *Fluoreselect Novelty*.
- **Salmon Rose** *Fluoreselect Novelty*.
- **White**
- **Formula Mixture** *Fluoreselect Quality Award Winner*.

Tower Series

See page 200.



Winky Single Series

Height: 12 to 14 in./30 to 35 cm
Spread: 12 to 14 in./30 to 35 cm
USDA Hardiness Zones: 3 to 8
(-40 to 10°F/-40 to -12°C minimum temperatures)
Supplied as raw seed.

Winky offers unique colours and an abundance of upright-facing flowers for strong retail sales appeal. Plants ship and retail well, and are uniform in habit and height, with strong stems and a vigorous, bushy habit. Mildew-tolerant series is useful for containers and landscapes. Flowers Spring to early Summer. Recommended sowing time is June to July.

- **Blue-White**
- **Early Sky Blue** 1 to 2 weeks earlier than the rest of the series. *Fleuroselect Novelty.*
- **Purple-White**
- **Red-White** *Fleuroselect Quality Award Winner.*
- **Rose-Rose** *Fleuroselect Quality Award Winner.*
- **Mixture**

Winky Double Series

Height: 12 to 14 in./30 to 35 cm
Spread: 12 to 14 in./30 to 35 cm
USDA Hardiness Zones: 3 to 8
(-40 to 10°F/-40 to -12°C minimum temperatures)
Supplied as raw seed.

Unique double, upward-facing flowers in one-of-a-kind colour patterns offer "something different" for strong retail sales appeal. The Winky Double varieties deliver all of the same bench-to-garden benefits as the popular single types: excellent uniformity during culture and harvest, full and vigorous habit, long shelf life, mildew tolerance and versatile uses.

- **Dark Blue-White**
- **Red-White** *Fleuroselect Novelty.*
- **Rose-White**
- **White-White** *Fleuroselect Novelty.*
- **Mixture**



Winky Single Mixture



Winky Single Blue-White



Winky Single Early Sky Blue



Winky Single Purple-White



Winky Single Red-White



Winky Single Rose-Rose



Winky Double Dark Blue-White



Winky Double Red-White



Winky Double Rose-White



Winky Double White-White



Tower Formula Mixture Aquilegia



Tower Dark Blue Aquilegia



Tower Light Blue Aquilegia



Tower Light Pink Aquilegia



Tower White Aquilegia



Spring Charm Arabis



Pinky Arabis



Avalanche Arenaria

AQUILEGIA VULGARIS continued

Tower Series

Height: 28 to 30 in./70 to 80 cm
Spread: 16 to 20 in./40 to 50 cm
USDA Hardiness Zone: hardy to 4 (-30°F/-34°C minimum temperature)
Supplied as raw seed.

Unique Tower Aquilegia shows off many stems per plant, carrying highly decorative, fully double flowers with short spurs, resembling raspberry fruit. The floriferous habit and excellent garden performance makes this excellent for use as a perennial border plant.

- **Dark Blue** *Fleuroselect Novelty.*
- **Light Blue** *Fleuroselect Quality Award Winner.*
- **Light Pink** *Fleuroselect Novelty.*
- **White** *Fleuroselect Novelty.*
- **Formula Mixture**

ARABIS 🌻

ARABIS BLEPHAROPHYLLA

Spring Charm

Height: 6 to 8 in./15 to 20 cm
Spread: 8 in./20 cm
USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)
Supplied as raw seed.

Wintergreen, bushy and compact plant has spikes of strong pink flowers over attractive foliage. Uniform and professional product is early flowering, and well-suited to container production.

ARABIS CAUCASICA

Pinky

Height: 4 to 6 in./10 to 15 cm
Spread: 6 to 9 in./15 to 23 cm
USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)
Supplied as raw seed.

Early-flowering, compact and uniform variety with intense, bright, deep pink colour. Quality item for professional growers is recommended for 3.5 to 5-in./9 to 13-cm programs.

ARENARIA 🌻

Arenaria montana

Avalanche

Height: 6 to 8 in./15 to 20 cm
Spread: 10 to 12 in./25 to 30 cm
USDA Hardiness Zones: 4 to 8 (-30 to 10°F/-34 to -12°C minimum temperatures)
Supplied as raw seed.

Professional selection of popular perennial bedding variety makes a uniform and compact plant that is covered with a profusion of large, white blooms over a long flowering season. Suitable for pot and container production. Sow in June to July for late Spring and early Summer sales the following year.

ARMERIA

ARMERIA MARITIMA

Ministicks Series

Height: 6 to 8 in./15 to 20 cm

Spread: 5 to 6 in./12 to 15 cm

USDA Hardiness Zones: 4 to 8
(-30 to 10°F/-34 to -12°C minimum temperatures)

Supplied as clean seed and rubbed seed.

Compact version of this perennial border favourite produces richly flowering, uniform plants with attractive grassy foliage and an abundance of shorter 'sticks' (stems) with a proliferation of flowers. Sow in June to July for sales in March to May the following year.

- **Rose** Clear, bright rose-pink.
- **White**



Ministicks Rose



Ministicks White

ARMERIA PSEUDARMERIA

Ballerina Series

Height: 8 to 10 in./20 to 25 cm

Spread: 8 to 10 in./20 to 25 cm

USDA Hardiness Zones: 7 to 9
(0 to 20°F/-18 to -7°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as clean seed.

Ballerina is an early first year-flowering selection in Armeria and still a hardy perennial. Sow to flowering is only 15 to 19 weeks. The compact and uniform plants produce cushion-shaped, grassy foliage and long, strong stems topped with globe-shaped blooms. Low maintenance and salt tolerant, Ballerina delivers excellent first-year garden performance in beds, containers and mixed plantings. Suitable for 4-in./10-cm pot production. Recommended for sowing February to May or August to September.

- **New Lilac** Vibrant lilac-pink.
Fleuroselect Novelty.
- **Red** *Fleuroselect Gold Medal Winner.*
- **White** *Fleuroselect Gold Medal Winner.*



New Ballerina Lilac



Ballerina Red



Ballerina White



Joystick Lilac Shades Armeria



Joystick Red Armeria

ARMERIA PSEUDARMERIA
continued

Joystick Series

Height: 12 to 14 in./30 to 35 cm
Spread: 10 to 14 in./25 to 35 cm
USDA Hardiness Zones: 6 to 9
 (-10 to 20°F/-23 to -7°C minimum temperatures)

Supplied as clean seed and rubbed seed.

A breakthrough in Armeria breeding, Joystick is a first year-flowering selection and still a hardy perennial. Produces cushion-shaped, grassy foliage and long-stemmed globular blooms. Taller than Ballerina, the long-flowering plants are suitable for borders and backyard cut flower gardens.

- **Lilac Shades** *Fleuroselect Quality Award Winner.*
- **Red** *Fleuroselect Quality Award Winner.*
- **White** *Fleuroselect Quality Award Winner.*
- **Formula Mixture**

ARUNCUS 🌻

Aruncus aethusifolius

Noble Spirits

Height: 8 to 10 in./20 to 25cm
Spread: 8 to 10 in./20 to 25 cm
USDA Hardiness Zones: 4 to 8
 (-30 to 10°F/-34 to -12°C minimum temperatures)

Supplied as raw seed.

Compact Aruncus has elegant, fernlike leaves in a neat, dense, rounded shape. Plants are topped with many Astilbe-like white spikes. Flowering from May to July makes it a good Spring perennial. Even after flowering, the plants remain attractive due to the decorative red colouring of the seed plumes. Sow in March to May for flowering the following year.



Joystick White Armeria



Joystick Formula Mixture Armeria



Noble Spirits Aruncus



Silky Formula Mixture Asclepias

ASCLEPIAS

ASCLEPIAS CURASSAVICA 🌻

Silky Series

Height: 24 to 28 in./60 to 70 cm
Spread: 8 to 10 in./20 to 25 cm
Supplied as raw seed.

This high-quality cut flower is bred for greenhouse and outdoor Summer production and prefers a warm, rather dry location. Multi-purpose plants work well in gardens, landscapes, patio planters and as an annual cut flower. Produces beautiful flower umbels in intense colours on strong stems for an exotic look.

- **Deep Red** Fuchsia-red with golden yellow centres.
- **Gold** Golden yellow. *Fleuroselect Quality Award Winner.*
- **Scarlet** Golden yellow centres fan out to vibrant scarlet petals.
- **Formula Mixture**

ASCLEPIAS INCARNATA 🌻 🌻

Soulmate

Height: 40 in./1 m
Spread: 8 to 10 in./20 to 25 cm
Supplied as raw seed.

Robust garden plant produces deep rose umbels and is well-suited to borders. Also useful as a cut flower.



Silky Scarlet, Silky Deep Red and Silky Gold Asclepias



Soulmate Asclepias

BARBAREA *Barbarea rupicola***Sunnyola****Height:** 5 to 6 in./12 to 15 cm**Spread:** 6 to 8 in./15 to 20 cm**USDA Hardiness Zones:** 6 to 8 (-10 to 10°F/-23 to -12°C minimum temperatures)**Supplied as raw seed.**

Unique variety combines ornamental foliage, flowers and seed pods into one attractive Spring crop – plants produce a flush of intense yellow flowers in early Spring, above attractive, deep green foliage.

The flowering is followed by an ornamental display of long, slender, green seed pods which fade to red-green. Recommended sowing time is July and August.

BELLIS *Bellis perennis***Bellissima Series****Height:** 6 to 10 in./15 to 25 cm**Spread:** 5 to 8 in./13 to 20 cm**USDA Hardiness Zone:** 4 to 8 (-30 to 10°F/-34 to -12°C minimum temperatures)**Supplied as easy-to-sow pelleted seed.**

Needing no vernalization to flower, the robust, early-blooming plants are strong landscape performers in cool climates, displaying an abundance of large, fully double flowers. Best in packs to 5-in./13-cm pots.

- **Red**
- **Rose** *Fleuroselect Quality Award Winner.*
- **Rose Bicolour** *Fleuroselect Quality Award Winner.*
- **White** *Fleuroselect Quality Award Winner.*
- **Mixture**

Medicis Series**Height:** 8 in./20 cm**Spread:** 5 to 8 in./13 to 20 cm**Supplied as raw seed.**

Pomponette-type English daisies have large, fully double, quill-petaled flowers up to 1.25 in./3 cm across. Under cooler temperatures, flowers are more fully double. Best grown as a biennial bedding or pot plant for Spring displays.

- **Red**
- **Rose**
- **White**
- **Mixture**

BELLS OF IRELANDSee *Moluccella*, page 240.

Sunnyola Barbarea



Bellissima Red Bellis



Bellissima Rose Bellis



Bellissima Rose Bicolour Bellis



Bellissima Mixture Bellis



Medicis Red Bellis



Medicis White Bellis



Red Beauty Bergenia



Griffiti Bupleurum

BERGENIA 

Bergenia cordifolia

Red Beauty

Height: 20 to 25 in./50 to 60 cm

Spread: 18 to 24 in./45 to 60 cm

USDA Hardiness Zones: 3 to 5
(-40 to -20°F/-40 to -29°C minimum temperatures)

Supplied as raw seed.

A beauty year-round, this hardy perennial has ornamental, evergreen foliage and deep purplish-red flowers appearing in early Spring. Suitable for 4 to 5-in./10 to 12-cm pot production.

BUPLEURUM 

Bupleurum rotundifolium

Griffiti

Height

Direct-sown: 36 to 40 in./90 cm to 1 m

From plug: 28 to 36 in./70 to 90 cm

Spread: 18 to 24 in./45 to 60 cm

Supplied as raw seed.

Fashionable and uniform greenish-yellow filler for fresh cut flower bouquets has a long vase life. Also makes a very attractive green border background plant. Graded seed ensures uniform germination, culture and harvest for programmable production cycles.



Goldcap Calceolaria



Campana Deep Blue Campanula

CALCEOLARIA 

Calceolaria biflora

Goldcap

Height: 4 to 5 in./10 to 12 cm

Spread: 5 to 6 in./10 to 15 cm

Supplied as raw seed.

Attractive, rounded plants are ideal for rock gardens. Produces decorative foliage topped by intense flushes of golden yellow flowers.



Campana Lilac Campanula



Campana Pink Campanula



NEW Campana White Campanula

CAMPANULA

CAMPANULA MEDIUM 

Campana F1 Series

Height: 30 to 34 in./75 to 85 cm

Spread: 5 in./12 cm

Supplied as SowEasy single pellet seed.

Top-quality professional cut flower series is a low-energy crop that is suitable for Summer or Winter production. Well-matched across the series for timing and habit, Campana delivers excellent uniformity with a higher percentage of harvestable plants than competitive varieties. 100% top-flowering with attractive flowers in a range of popular colours, including the addition of consumer-favourite White. Strong stems with good foliage for great sales potential, followed through with excellent vase life.


• **Deep Blue** Deepest blue in cut flower Campanula.

• **Lilac**

• **Pink**

• **New White** Paper white.



CAMPANULA
COCHLEARIFOLIA 

Advance Series

Height: 6 to 8 in./15 to 20 cm
Spread: 8 to 10 in./20 to 25 cm
USDA Hardiness Zone: 4 to 7
(-30 to 0°F/-34 to -18°C minimum temperatures)
A First Year-Flowering Perennial.
Supplied as raw seed.

Outstanding in uniformity and early flowering, the compact Advance varieties are ideal for small pot programs, providing reliable, floriferous plants. Best used in well-drained, sunny gardens. Recommended sowing time is February to May.

- **Blue** Intense blue.
- **White** Clear white.

CAPSIUM

See Ornamental Pepper In PanAmerican Seed, page 114.

CAREX

Amazon Mist
Bronco
Phoenix Green
Red Rooster

See ColorGrass™ in PanAmerican Seed, page 28.

CARTHAMUS 

Carthamus tinctorius

Grenade Series

Height: 32 to 40 in./80 cm to 1 m
Spread: 8 to 10 in./20 to 25 cm
Supplied as filmcoated seed for healthy emergence.

Ideal for indoor and outdoor professional cut flower production, this special selection features round, thornless leaves and round flower buds. Stem length is uniform across the series. Grenade is excellent for fresh and dried use; can also be used green when harvested young.

- **Orange** Popular orange-yellow colour.
- **White** Soft, creamy white.
- **Yellow**

Zanzibar

Height: 32 to 40 in./80 cm to 1 m
Spread: 8 to 10 in./20 to 25 cm
Supplied as filmcoated seed.

Striking deep orange to yellow-red flowers that resemble thistles top stems of uniform length. Well-suited to indoor and outdoor professional cut flower programs; can be used for fresh and dried use.

CATANANCHE 

Catananche caerulea

Amor Series

Height: 20 to 22 in./50 to 60 cm
Spread: 12 to 14 in./30 to 35 cm
USDA Hardiness Zone: 4 to 7
(-30 to 0°F/-34 to -18°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

Elegant perennial produces fine flowers on slender stems with narrow foliage. Good for borders; sometimes used as fresh or dried cut flower. Best grown on a dry, sunny and chalky soil. Sow early for Spring flowering in the first year. Winter cover can be beneficial; plants need good drainage to survive wet Winters.

- **Blue** Soft, cornflower blue.
- **White** Dark centre.



Advance Blue Campanula



Advance White Campanula



Grenade Orange Carthamus



Grenade White Carthamus



Grenade Yellow Carthamus



Amor Blue Catananche



Amor White Catananche

Bombay

Bombay is the professional cut flower grower's choice for economical, high-density production.



CELOSIA

CELOSIA CRISTATA (COCKSCOMB)

Bombay Series

Height: 28 to 40 in./70 cm to 1 m
Spread: 5 in./13 cm
Supplied as SowEasy filmcoated seed.

The large, triangular comb-shaped flower heads are truly definitive of this series, which has set the industry standard for this popular, striking professional cut flower class. Bombay adds an exclusive touch to any bouquet, whether alone or mixed. This high-quality greenhouse series features round stems, flat combs, a wide range of appealing colours and truly uniform growth. The short, programmable production period; high yields; strong stems and absence of off-shoot flowers make the series suitable for economical, high-density production. Bombay offers a 3 to 4-week shorter production period, better transportability, better stress resistance and longer vase life – up to 3 weeks – versus the competition.

The original Bombay series has been enriched with Bombay Fire colours, which are narrow and small-leaved, easily reach a good length and are well-matched for easy production planning.

Bombay classic colours:

- **New Bordeaux** Replaces Dark Red.
- **New Candy** Pink; matches Sunshine and Bordeaux well.
- **New Cherry** Cherry-red.
- **Orange**
- **Pink**
- **Purple** *Fleuroselect Gold Medal Winner.* European Community Plant Variety Rights Number EU1458.
- **Rose**
- **Salmon**
- **New Sunshine** Bright yellow; well-matched to Candy and Bordeaux.
- **Velvet**
- **Yellow Gold** *Fleuroselect Gold Medal Winner.*

Bombay Fire colours:

- **Fidor** Golden bronze-orange comb, light pink neck. European Community Plant Variety Rights Number EU17179.
- **Figo** Golden-yellow comb; creamy white neck. European Community Plant Variety Rights Number EU16690.
- **New Filemon** Lemon colour.
- **Fiora** Orange comb, rose neck.
- **Fire** Deep red comb, purple-red neck.
- **Firosa** Rose-pink comb, light pink neck. European Community Plant Variety Rights Number EU16689.
- **Fisal** Salmon-rose comb, light pink neck.
- **New Fivio** Vivid violet.



New Bordeaux



New Candy



New Cherry



Orange



Pink



Purple



Rose



Salmon



New Sunshine



Velvet



Yellow Gold



Fidor



Figo



New Filemon



Fiora



Fire



Firosa



Fisal



NEW Fivio



Jura Salmon



Madras Scarlet

CELOSIA CRISTATA continued

Jura Salmon

Height: 32 to 40 in./80 cm to 1 m
Spread: 5 in./12 cm
Supplied as SowEasy filmcoated seed.

High-quality greenhouse cut flower has a programmable cultivation period for year-round sales and produces a high percentage of saleable stems. Uniform plant habit with strong round stems for easy harvesting and good shipability. Very attractive in mixed bouquets, with excellent vase life, Jura Salmon produces a full, triangular comb in a delicate salmon shade.

Madras Scarlet

Height: 40 to 48 in./1 to 1.2 m
Spread: 5 in./12 cm
Supplied as SowEasy filmcoated seed.

This new type of *Celosia cristata* features attractive brilliant red triangular combs accompanied by several side flowers along the stem. It reaches a good length and produces a high percentage of first-quality stems and leaves. Short, programmable production period and easy harvesting make this suitable for high-density programs with strong shipability. *Fleuroselect Novelty.*



Spring Green



New Sunday Bronze

Madras Scarlet

Height: 40 to 48 in./1 to 1.2 m
Spread: 5 in./12 cm
Supplied as SowEasy filmcoated seed.

This new type of *Celosia cristata* features attractive brilliant red triangular combs accompanied by several side flowers along the stem. It reaches a good length and produces a high percentage of first-quality stems and leaves. Short, programmable production period and easy harvesting make this suitable for high-density programs with strong shipability. *Fleuroselect Novelty.*

Spring Green

Height: 40 to 48 in./1 to 1.2 m
Spread: 5 in./12 cm
Supplied as SowEasy filmcoated seed.

Easy to program for year-round sales, Spring Green is a high-quality, greenhouse cut flower that yields a high percentage of saleable stems. Uniform plant habit with strong round stems for easy harvesting and good shipability. The full, triangular combs are pale green with lime green edges. Eye-catching variety for mixed bouquets with excellent vase life.

CELOSIA PLUMOSA 

Icecream Series

See PanAmerican Seed, page 17.

New Sunday Series

Height: 28 to 40 in./70 cm to 1 m
Spread: 5 in./12 cm
Supplied as SowEasy filmcoated seed.

Popular plume-shape Celosia is now available for the first time as a professional cut flower, with sufficient stem length and strength for retail bouquets. Similar in production to the widely-used *Celosia cristata* varieties, the Sunday series has a short, programmable production time and a high yield percentage, making it ideal for high-density production. Excellent shipability and vase life. Attractive plumes in a wide colour range are perfect fillers for mixed bouquets; also makes an eye-catching backyard cut flower.

- **Bronze**
- **Dark Pink**
- **Orange** One of the latest to flower in the series.
- **Red**
- **Salmon**
- **Wine Red** Dark red stems. One of the latest to flower in the series, and the shortest of the series.



New Sunday Dark Pink



New Sunday Orange



NEW Sunday Red



NEW Sunday Salmon



NEW Sunday Wine Red

CELOSIA SPICATA 🌻

Kosmo Series

See PanAmerican Seed, page 18.

Celway Series

Height: 40 to 48 in./1 to 1.2 m

Spread: 5 in./12 cm

Supplied as SowEasy filmcoated seed.

A novel series in professional cut flower *Celosia spicata*, Celway produces “flowers” that consist of one central spiky plume surrounded by several smaller spikes, giving an impression of a well-filled bunch of spikes with extra side branches. Short programmable production time is comparable to the Bombay series and is suitable for high-density production. Strong stems with small top leaves allow for good sleeving and shipability. Available in a wide colour range, Celway is an excellent component in bouquets with a long vase life; also suitable as a backyard cut flower.

- Lemon
- Orange
- Purple
- Red
- Salmon
- Terracotta
- White



Celway Lemon



Celway Orange



Celway Purple



Celway Salmon



Celway Red



Celway Terracotta



Celway White



Enterprise Dark Pink



Enterprise White

CELOSIA SPICATA continued

Enterprise Series

Height: 40 to 48 in./1 to 1.2 m

Spread: 5 in./12 cm

Supplied as SowEasy filmcoated seed.

A valuable additional to the market assortment of cut flower Celosia, this innovative *C. spicata* series has a longer central plume surrounded by smaller plumes, forming a slender spike about 6 to 8 in./15 to 20 cm long. Production time is about 10 days longer than Bombay, but substantially shorter than competitive varieties. Enterprise holds flower colour well, even in the vase.

- Dark Pink
- White
- Wine Red

Pink Panther

Height: 36 to 48 in./90 cm to 1.2 m

Spread: 6 to 12 in./15 to 30 cm

Supplied as SowEasy filmcoated seed.

Cut flower variety has feathery flowers on slender, upright stems. Useful as a fresh cut flower in warm/tropical areas, as well as a tall annual bedding plant. (Formerly Flamingo Pink Panther)

Punky Red

Height: 20 to 23 in./50 to 60 cm

Spread: 20 in./50 cm

Supplied as SowEasy filmcoated seed.

Bred for professional landscape use as a border plant, this mid-height garden Celosia forms large, high-impact clusters of deep red flower spikes. Produces a colour display all through the Summer, especially in warm climates. Performs best in well-drained, fertile soil in full sun. *Fleuroselect Quality Award Winner.*



Enterprise Wine Red



Pink Panther



Spiky Pink



Spiky Purple



Punky Red



Startrek Lilac



Startrek Rose Pink

Spiky Series

Height: 16 in./40 cm

Spread: 8 to 12 in./20 to 30 cm

Supplied as SowEasy filmcoated seed.

Spiky delivers an exotic shape, strong colour and good garden stamina. Once flowering starts, the upright, red-stemmed plants continue to develop by extending the flower spikes into attractive forms with colour that lasts all Summer. Outstanding in well-drained, sunny borders and patio planters; excellent landscape variety for warmer areas.

• **Pink** Intense pink. *Fleuroselect Quality Award Winner.*

• **Purple**

Startrek Series

Height: 40 to 48 in./1 to 1.2 m

Spread: 5 in./12 cm

Supplied as SowEasy filmcoated seed.

Companions to the Enterprise series with the same culture and features, the Startrek varieties produce one central plume surrounded by several smaller plumes – the overall impression is that of a star-shaped cone.


• **Lilac**

• **Rose Pink** *Fleuroselect Quality Award Winner.*

CINERARIA

See Silverdust Dusty Miller in PanAmerican Seed, page 41.



CHAENORHINUM 
Chaenorhinum origanifolium

Arista

Height: 6 to 7 in./15 to 18 cm
Spread: 6 to 10 in./15 to 25 cm
USDA Hardiness Zones: 7 to 9
(0 to 20°F/-18 to -7°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as SowEasy single pellets.

Featuring the darkest blue flowers of Chaenorhinum on the market, this first year-flowering perennial is less spreading and more compact, making it less breakable and more attractive at retail. The semi-cascading plants have good centre flowering and finely textured foliage. Great for Spring mixed container programs with pansies and Alyssum; also makes a good groundcover. Recommended sowing time is February to May.

CHIASTOPHYLLUM 
Chiastophyllum oppositifolium

Solar Yellow

Height: 6 to 8 in./15 to 20 cm
Spread: 6 to 8 in./15 to 20 cm
USDA Hardiness Zones: 5 to 7
(-20 to 0°F/-29 to -18°C minimum temperatures)

Supplied as SowEasy single pellets.

A brilliant splash of colour in Spring! The compact plants have sturdy, upright stems with "weeping" blooms of bright yellow over fine, green foliage. Eye-catching at retail for strong sales appeal. Ideal for patio planters and gardens, performing best in well-drained, less fertile soil and partial sun. Sow June to July for May to June sales.

CLEMATIS 
Clematis tangutica

Radar Love

Height: up to 8.5 ft./2.5 m with support
Spread: 20 to 30 in./50 to 75 cm
USDA Hardiness Zone: 3 to 7
(-40 to 0°F/-40 to -18°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as clean seed.

Fully first year-flowering, this striking yellow-flowered Clematis produces "nodding" blooms in Summer and often again in October. The flowers are followed by very decorative, feathery seed heads. Very useful for informal landscapes; performs well in the back of a border against a fence. Sow in March to April indoors or July outdoors for sales in April to May of the following year.

COLORGRASS
See PanAmerican Seed, page 25.



Arista Chaenorhinum




Solar Yellow Chiastophyllum



Radar Love Clematis

Early Sunrise

COREOPSIS 
Coreopsis grandiflora

Early Sunrise

Height: 24 in./60 cm

Spread: 22 to 24 in./55 to 60 cm

USDA Hardiness Zones: 4 to 9
(-30 to 20°F/-34 to -7°C minimum temperatures); can also be marketed as an annual in premium packs.

A First Year-Flowering Perennial. Supplied as raw seed.

Compact and uniform Early Sunrise can be sold in blooming packs – plants flower just 11 to 12 weeks from sowing if grown during long days or under lights. Outstanding perennial produces golden yellow, semi-double flowers constantly all Summer. Blooming reliably the first year, it fits annual production scheduling and is a great variety for parks and landscapes. *All-America Selections Winner, Fleuroselect Gold Medal Winner.*

Award-winning, fast-growing
Early Sunrise makes ready-to-sell
blooming packs fast!



Early Sunrise



Rising Sun

Height: 18 to 30 in./45 to 75 cm
Spread: 24 to 26 in./60 to 65 cm
USDA Hardiness Zones: 4 to 9 (-30 to 20°F/-34 to -7°C minimum temperatures); can also be marketed as an annual in premium packs.

A First Year-Flowering Perennial. Supplied as raw seed.

Early to flower and naturally compact, Rising Sun blooms up to 1 week faster than Early Sunrise. Semi-double yellow blooms have a red fleck in the centre of each petal. More naturally compact in a pack or 4-in./10-cm pot, requiring less growth regulators. Produces a smaller, controllable habit in the garden the first year; after overwintering, plants are larger than Early Sunrise. *Fleuroselect Gold Medal Winner.*

Sunfire

Height: 24 in./60 cm
Spread: 22 to 24 in./55 to 60 cm
USDA Hardiness Zones: 4 to 9 (-30 to 20°F/-34 to -7°C minimum temperatures); can also be marketed as an annual in premium packs.

A First Year-Flowering Perennial. Supplied as raw seed.

Showing off large, single, yellow blooms with burgundy red centres, Sunfire is well-matched to Rising Sun for habit and timing, and earlier to flower than Early Sunrise. Naturally compact in a pack or 4-in./10-cm pot, requiring less PGRs, or no PGRs in certain conditions. *Fleuroselect Quality Award Winner.*



Rising Sun



Sunfire



Blue Donna Delphinium

CORTADERIA ☀️
Cortaderia selloana (Pampas Grass)

Pink Feather

Height: 80 in./2 m or more
Spread: 30 to 40 in./75 cm to 1 m
USDA Hardiness Zones: 7 to 10
(0 to 30°F/-18 to -1°C minimum temperatures)
Supplied as clean seed.

The most dramatic of all ornamental grasses, impressive Pink Feather makes a massive clump of narrow leaves and produces huge, feathery pink plumes from August to October. Maintains Winter interest.

White Feather

Height: 80 in./2 m or more
Spread: 30 to 40 in./75 cm to 1 m
USDA Hardiness Zones: 7 to 10
(0 to 30°F/-18 to -1°C minimum temperatures)
Supplied as clean seed.

Dramatic ornamental grass displays huge, feathery white plumes from August to October, over arching, green foliage. Good Winter-interest choice.

CORYNEPHORUS

Spiky Blue

See ColorGrass™ In PanAmerican Seed, page 28.

COSMOS

Antiquity

See PanAmerican Seed, page 31.

CRASPEDIA ☀️

Craspedia globosa

Billy Buttons

Height: 16 to 20 in./40 to 50 cm
Spread: 10 to 12 in./25 to 30 cm
Supplied as clean seed.

This hardy annual plant produces a basal rosette of long leaves and branchless flower stalks topped with bright yellow, globe-shaped flower clusters. Useful for a fresh and dried cut flower; can be cut over a long period.

CUPHEA
Matchmaker Series

See PanAmerican Seed, page 32.

DAHLIA
Deco Mixture

See PanAmerican Seed, page 33.

DELPHINIUM ☀️

DELPHINIUM X BELLADONNA

Belladonna (Clivedon Beauty)

Height: 30 to 36 in./75 to 90 cm
Spread: 10 to 12 in./25 to 30 cm
Supplied as raw seed.

Sky blue blooms are very popular with florists and consumers. Suitable for greenhouse, field or garden cut flower production

Blue Donna

Height: 32 to 40 in./ 80 cm to 1 m.
Spread: 8 to 10 in./20 to 25 cm
USDA Hardiness Zones: 5 to 9
(-20 to 20°F/-29 to -7°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

True blue Delphinium has improved uniformity and colour. Fast-growing, multiple-flush crop needs just 12 to 16 weeks from plant to finish for increased productivity and more stems per sq. ft./sq. m. Heat tolerant with low disease sensitivity, versatile Blue Donna can be grown as a hardy perennial, backyard cut flowers or annual in professional indoor or outdoor production.

Casa Blanca

Height: 42 in./1.1 m
Spread: 10 to 12 in./25 to 30 cm
Supplied as raw seed.

White-flowered Belladonna-type can be grown year-round in coastal or mild Winter regions. A small percentage of the blooms may be light blue. Suitable for greenhouse, field or garden cut flower production.



White Feather Cortaderia



Billy Buttons Craspedia



Casa Blanca Delphinium

DELPHINIUM ELATUM

Guardian F1 Series

Height: 30 to 39 in./75 to 100 cm

Spread: 10 to 12 in./25 to 30 cm

USDA Hardiness Zone: 4 to 7
(-30 to 0°F/-34 to -18°C minimum temperatures)

**A First Year-Flowering Perennial.
Supplied as raw seed.**

A breeding breakthrough, with very uniform blooming within each variety, especially under short days so you can program to meet ship dates. Multi-use Guardian works well as a tall landscape/perennial variety, as a commercial cut flower, and in potted plant programs. Up to 6 weeks faster from transplant to bloom than O.P. types means more turns per sq. ft./metre of greenhouse space. As a greenhouse cut flower, Guardian can be grown under the same conditions as dianthus and snapdragons. Produces excellent stem quality for good cut flower shipability. Suitable as a greenhouse cut flower or for garden cut flower production.

- Blue
- Lavender
- White
- Mixture



Lavender, White & Blue

Guardian F1

Guardian makes it easy to program your crop to meet shipping dates. Pictured: Blue



Kieft-Pro-Seeds



Dasante Blue F1

DELPHINIUM ELATUM continued

Dasante Blue F1

Height: 28 to 34 in./70 to 85 cm

Spread: 10 to 12 in./25 to 30 cm

USDA Hardiness Zones: 4 to 8

(-30 to 10°F/-34 to -12°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Answer the "Do you have anything blue?" question with this exciting compact perennial. Dasante Blue shows off vibrant, true blue flowers with light purple accents and white bees. The grower-friendly, uniform plants are more compact, more responsive to PGRs and naturally earlier than other *D. elatum* types. This easy-care, cool-season crop can be grown with little or no heat for energy savings. Plants ship well with more plants per rack in flower than any other delphinium for tremendous retail impact. Best for gallons with 3 plants per pot. Suitable for greenhouse, field or garden cut flower production.

DELPHINIUM GRANDIFLORUM

Blue Pygmy

Height: 12 to 14 in./30 to 35 cm

Spread: 10 to 12 in./ 25 to 30 cm

USDA Hardiness Zone: 4 to 7

(-30 to 0°F/-34 to -18°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Ideal for 4 to 5-in./10 to 12-cm programs, Blue Pygmy produces compact plants with large, deep blue, spurred flowers. Excellent basal branching assures a good plant habit, with flower spikes located in the upper half of the plant. Attractive at retail with good sales potential. Sow in February for May to June flowering, or in May for July to August flowering.



Dasante Blue F1



Blue Pygmy



Diamonds Blue F1

Height: 16 to 24 in./40 to 60 cm
Spread: 10 to 12 in./25 to 30 cm
USDA Hardiness Zones: 4 to 8
(-30 to 10°F/-34 to -12°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

The first F1 spurless delphinium from seed, Diamonds Blue sparkles at retail and in the garden with cerulean blue flowers that “face up.” Give shoppers blue, and lots of it, and they’ll be satisfied. This high-value *D. chinensis* type eliminates the need for tissue culture inputs and is supplied with much higher germination – up to 25% better – than others for more effective scheduling. The uniform plants can be shipped and sold at first colour. A must-have for low-energy Spring programs; ideal for gallons with 3 plants per pot. Suitable for greenhouse, field or garden cut flower production.

DELPHINIUM NUDICAULE

Redcap

Height: 8 to 10 in./ 20 to 25 cm
Spread: 8 to 10 in./ 20 to 25 cm
USDA Hardiness Zones: 6 to 9
(-10 to 20°F/-23 to -7°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

Compact variety produces many stems of striking red flowers with strong red spurs, over shiny, deep green, indented leaves. Tender perennial is suitable for container production for Spring, Summer and Autumn. Recommended sowing time is February to May.

DIANTHUS ☀

DIANTHUS BARBATUS

Noverna Series
See PanAmerican Seed, page 36.

DIANTHUS DELTOIDES

Arctic Fire

Height: 6 to 8 in./15 to 20 cm
Spread: 8 to 10 in./20 to 25 cm
USDA Hardiness Zone: 4 to 7
(-30 to 0°F/-34 to -18°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

Striking colour combination in *Dianthus deltoides* – the white flowers have a glowing red eye. Very attractive plants have excellent foliage quality. Fully first year-flowering perennial starts to bloom abundantly 3 to 4 months after sowing. Recommended sowing time is February to May or July.



Diamonds Blue F1 Delphinium



Diamonds Blue works well in cool-season mixed containers



Redcap Delphinium



Arctic Fire Dianthus



Shrimp Dianthus



Dwarf Carillon Digitalis

DIANTHUS DELTOIDES continued

Shrimp

Height: 6 to 8 in./15 to 20 cm
Spread: 8 to 10 in./20 to 25 cm
USDA Hardiness Zone: 4 to 7
(-30 to 0°F/-34 to -18°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Attractive first-year flowering perennial starts to flower abundantly 3 months after sowing, producing straight, salmon-pink flowers. The sturdy, spreading plants have an upright habit, flower 2 to 3 weeks earlier than Arctic Fire, and continue flowering for several months. Recommended sowing time is February to May or July.

DIGITALIS ☀

DIGITALIS GRANDIFLORA

Dwarf Carillon

Height: 14 to 16 in./35 to 40 cm
Spread: 12 to 14 in./30 to 35 cm
USDA Hardiness Zone: 4 to 7
(-30 to 0°F/-34 to -18°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Compact Foxglove bears light yellow flowers on multi-stemmed plants; the dense flower stems emerge from clear green, small-leaved foliage rosettes. Carillon is very appealing in containers, thanks to its attractive flower colour and foliage. Performs well in gardens too, preferring humus-rich soil in partial shade. Recommended sowing time is February to May or June to July.

DIGITALIS PURPUREA

Dalmatian F1 Series

Height: 16 to 20 in./40 to 50 cm
Spread: 12 to 14 in./30 to 35 cm
USDA Hardiness Zones: 5 to 9
(-20 to 20°F/-29 to -7°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as SowEasy single pellets.

The fastest Digitalis on the market takes just 15 to 16 weeks from sowing to sales! Uniform in height and early flowering, this fully first year-flowering perennial is well-branched with excellent habit and compact foliage, and produces strong colours on good-quality spikes. Suitable for 4-in./10-cm and larger containers.

- **Purple** *Fleuroselect Novelty.*
- **White**



Dalmatian Purple Digitalis



Dalmatian White Digitalis

Foxy

Height: 30 to 36 in./75 to 90 cm
Spread: 16 to 20 in./40 to 50 cm
USDA Hardiness Zones: 4 to 9
(-30 to 20°F/-34 to -7°C minimum temperatures)
A First Year-Flowering Perennial. Supplied as raw seed.

Dense spikes display very showy, large tubular flowers in June and July. The mix includes shades of white, yellow, cream, lavender, rose and red with marbled markings. Good for woodland gardens, borders and as a cut flower. Allow 20 to 24 weeks from sow to flower. *All-America Selections Winner.*

ECHINACEA 🌻

Echinacea purpurea (Coneflower)

Leuchtstern

Height: 40 in./1 m
Spread: 12 to 16 in./30 to 40 cm
Supplied as raw seed.

Produced for its attractive flower cone, this perennial cut flower produces purple blooms with an orange brown disc.

Magnus

Height: 24 to 30 in./60 to 75 cm
Spread: 24 in./60 cm
USDA Hardiness Zones: 4 to 9
(-30 to 20°F/-34 to -7°C minimum temperatures)
Supplied as raw seed.

Single, 4.5-in./11-cm, daisylike flowers are purple-rose with raised, orange-brown centres. Dark green leaves. Tolerates heat, drought and windy conditions.

White Swan

Height: 24 to 30 in./60 to 75 cm
Spread: 18 to 24 in./45 to 60 cm
USDA Hardiness Zones: 4 to 9
(-30 to 20°F/-34 to -7°C minimum temperature)
Supplied as raw seed.

White, 4-in./10-cm flowers have yellow centres, over dark green, coarse and serrated leaves. Heat and drought tolerant.



Foxy Digitalis



Leuchtstern Echinacea



Magnus Echinacea



White Swan Echinacea

PowWow™

Put “Wow” into your perennial program with the super-showy PowWow series. Pictured: Wild Berry



ECHINACEA continued

PowWow™ Series

Height: 16 to 20 in./40 to 50 cm first year; 22 to 24 in./55 to 60 cm second year

Spread: 12 to 16 in./30 to 40 cm

USDA Hardiness Zones: 4 to 10 (-30 to 30°F/-34 to -1°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

PowWow puts more flowers on every plant than any other seed echinacea, whether grown for first-year Spring sales or as a traditional overwintered perennial. Very well-matched for habit and timing, the colour-packed duo is also faster to flower and genetically shorter than the competition, making it easy to grow and ship on racks. No PGRs are needed to maintain controlled height in quart or gallon programs. Very drought-tolerant, easy-care plants stay tidy at retail with long holdability, and look great in the garden. Echinacea is a “top five” perennial – gardeners and landscapers will especially flock to award-winning Wild Berry for its terrific, non-fading colour show!

- **White** Pure white with yellow centre. 'PAS702918'
- **Wild Berry** Unique, intense rose flowers with dark rose centre. Produces up to 2% taller plants. *All-America Selections Winner.* 'PAS702917' U.S. Utility Patent Applied For, European Community Plant Variety Rights Applied For.



White



Wild Berry



White



Stallone Erigeron



Goldrush Erysimum

ERIGERON

Erigeron karvinskianus

Stallone

Height: 6 to 8 in./15 to 20 cm

Spread: 12 to 14 in./30 to 35 cm

USDA Hardiness Zones: 6 to 9
(-10 to 20°F/-23 to -7°C minimum temperatures)

**A First Year-Flowering Perennial.
Supplied as raw seed.**

Attractive spreading plant features pretty, daisylike flowers in a two-toned pattern that changes from white to rose. Durable and long-flowering variety is well-suited to hanging baskets, planters and borders; excellent for use as a groundcover.

ERYSIMUM

ERYSIMUM PEROVSKIANUM

Goldrush

Height: 10 to 14 in./25 to 35 cm

Spread: 8 to 12 in./20 to 30 cm

USDA Hardiness Zones: 6 to 9
(-10 to 20°F/-23 to -7°C minimum temperatures)

**A First Year-Flowering Perennial.
Supplied raw seed.**

Rich-flowering and compact strain of Erysimum produces short, sturdy flower stems topped by large, dense, deep yellow flower heads with a delightful fragrance. Uniform, compact and early-blooming plants perform best in well-drained soil with moderate fertilizer. Recommended sowing time is February to April.



Citrona Orange Erysimum



Citrona Yellow Erysimum



Silverdrop Eucalyptus

ERYSIMUM SPECIES

Citrona™ Series

Height: 10 to 12 in./25 to 30 cm

Spread: 10 to 12 in./25 to 30 cm

Supplied as raw seed.

A good companion to grow alongside pansies, Citrona makes very floriferous, well-branched plants that display brightly coloured, scented blooms in Spring and Autumn landscapes and mixed containers. Flowers 10 to 12 weeks from sowing, with no vernalization needed. Matches pansy production well; can be grown in premium packs, 4-in./10-cm pots and gallons.

• **Orange** 'PAS415015' U.S. Plant Variety Protection Number 200600167, European Community Plant Variety Rights Number EU21394

• **Yellow** 'PAS415016' U.S. Plant Variety Protection Number 200600168, European Community Plant Variety Rights Number EU21395

EUCALYPTUS

EUCALYPTUS CINEREA

Silverdollar

Height: 24 to 32 in./60 to 80 cm

Spread: 8 to 10 in./20 to 25 cm

Supplied as raw seed.

Versatile, fragrant variety for multiple uses. Suitable for year-round greenhouse or outdoor production, Silverdollar is grown as a cut flower foliage variety for use a filler in mixed bouquets. Can also be produced as an annual bedding plant for border or patio planter use. Produces large, waxy leaves of blue-green.

EUCALYPTUS GUNNII

Silverdrop

Height: 24 to 32 in./60 to 80 cm

Spread: 8 to 10 in./20 to 25 cm

Supplied as raw seed.

Silverdrop is the small-leaved companion to Silverdollar (above) and shares all of its traits.



EUPHORBIA *Euphorbia marginata***Kilimanjaro****Height:** 36 in./90 cm (under long days)**Spread:** 8 to 10 in./20 to 25 cm
Supplied as raw seed.

An early and neat “flowering” selection produces pure white bracts that contrast well with the green foliage. The tall, strong stems have short side branches, just below the bracts. An excellent filler for natural-style bouquets. Can be direct sown in greenhouse or outdoor production, with a very short harvesting period – just 3 to 4 months from sow to flowering.

FESTUCA**Festina**

See ColorGrass™ in PanAmerican Seed, page 29.

GAILLARDIA **GAILLARDIA ARISTATA****Goblin****Height:** 14 in./35 cm**Spread:** 9 to 12 in./23 to 30 cm**USDA Hardiness Zones:** 3 to 9 (-40 to 20°F/-40 to -7°C minimum temperatures)**Supplied as clean seed.**

Dwarf variety produces daisylike flowers of yellow banded in crimson, over dense, dark green foliage. Hardy perennial can also be grown in annual programs. Best in 4 to 6-in./10 to 15-cm pots. Excellent border item; performs well in any soil type.

GAILLARDIA X GRANDIFLORA**Mesa F1 Series**

See page 224.

GAULTHERIA *Gaultheria procumbens***Very Berry****Height:** 5 to 6 in./12 to 15 cm**Spread:** 6 to 8 in./15 to 20 cm**USDA Hardiness Zones:** 6 to 9 (-10 to 20°F/-23 to -7°C minimum temperatures)**Supplied as TunedSeeds.**


Compact and uniform, evergreen shrub displays white flowers in July/August, followed by a rich flush of large, ornamental red berries, from August onwards. Uniquely suited for an annual production cycle thanks to the quick development of plants and berries. An appealing and durable product for Autumn and Winter sales. The ornamental deep red berries do not fall easily and make this plant a long-lasting product for both indoor and outdoor use. Reliable and high-quality seed means a high percentage of usable plants from plug.

GAURA *Gaura lindheimeri***The Bride****Height:** 32 to 40 in./80 to 100 cm**Spread:** 12 to 16 in./30 to 40 cm**USDA Hardiness Zones:** 6 to 9 (-10 to 20°F/-23 to -7°C minimum temperatures)**A First Year-Flowering Perennial.**
Supplied as raw seed.

Attractive, tall perennial produces spikes with large, graceful, clear white flowers. Uniform plant habit with strong basal branching. Heat resistant, low water needs. An adornment to any border, and ideal for backyard cut flower bouquets.

GAZANIA**Kontiki Mixture**

See PanAmerican Seed, page 52.

GERANIUM **Geranium sanguineum****Height:** 14 in./35 cm**Spread:** 20 to 24 in./50 to 60 cm**USDA Hardiness Zones:** to 4 (-30°F/-34°C minimum temperature)**Supplied as raw seed.**

Very long-lived plant produces solitary rose-purple flowers.

**Goblin Gaillardia****Kilimanjaro Euphorbia****Very Berry Gaultheria****The Bride Gaura****Geranium sanguineum**

Mesa F1

Mesa puts out lots of fast colour on the “no-flop” plants.
Pictured: NEW Bright Bicolour



GAILLARDIA X GRANDIFLORA

Mesa F1 Series

Height: 16 to 18 in./40 to 45 cm

Spread: 20 to 22 in./50 to 55 cm

USDA Hardiness Zones: 5 to 10
(-20 to 30°F/-29 to -1°C minimum temperatures)

A First Year-Flowering Perennial.

New Now supplied as clean seed.

The first F1 gaillardia from seed, award-winning Mesa Yellow arrived in 2010 to deliver a more uniform habit with more flowers than other varieties. Now exciting new Bright Bicolour debuts with the same outstanding performance! This first year-flowering perennial is suitable for both annual and traditional perennial production.

The strong, early-flowering and well-branched plants fill gallon containers quickly while maintaining a controlled height without “flopping” over. The uniform habit and flowering time make it easy to schedule and ship. Very drought tolerant once established, Mesa shows intense, non-fading colour all season on upright, well-branched plants that perform well in landscapes and mixed containers. Fits well into 4-in./10-cm to gallon programs.

- **New Bright Bicolour** Bright red flowers with bright yellow band; the width of the band varies depending on environmental conditions, but flowers always have more yellow than competing varieties.

- **Yellow** Clear, vivid yellow.

All-America Selections Winner, Fleuroselect Gold Medal Winner.

GERANIUM

See page 223.



Yellow



Bright Bicolour



Yellow

Revolution™

The four-series Revolution collection is fast to market and ideal for year-round production.



Revolution F1 Collection

The Revolution collection delivers a quick crop time across all four series. Superb seed quality and high uniformity with easy sowing assure that growers can produce consistent, high-quality plants in full programmable, high-density programs all year.

Four different series are available to cover every market need: Mega Revolution for 6-in./15-cm and larger programs, Revolution for 4.5 to 5-in./11 to 13-cm programs, Mini Revolution for 3.5 to 4-in./9 to 10-cm pots, and Micro Revolution for packs and pots smaller than 3.5 in./9 cm.

Revolution™ Series

Height: 12 to 16 in./30 to 40 cm

Spread: 5 to 6 in./13 to 15 cm

Flower Size: 2.5 to 3 in./6 to 8 cm

Supplied as easy-to-sow coated seed.

Revolution beats every other gerbera series on the market for earliness. Compact and uniform plants are short-stemmed with dark green leaves. Good for 4.5 to 5-in./11 to 13-cm programs.

- **Baby Pink**
- **Golden-Yellow Shades**
- **Neon Rose with Dark Centre**
- **Pastel Orange with Dark Centre**
- **Pastel Pink Shades with Dark Centre**
- **Pink with Green Centre**
- **Red with Dark Centre**
- **Red Shades with Dark Centre**
- **Rose Shades**
- **Scarlet with Dark Centre**
- **Spring Pastels**
- **Terracotta**
- **White** Replaces Vanilla.
- **Yellow with Dark Centre**
- **Yellow with Green Centre**
- **Formula Mixture**



Baby Pink



Golden-Yellow Shades



Neon Rose with Dark Centre



Pastel Orange with Dark Centre



Pastel Pink Shades with Dark Centre



Pink with Green Centre



Red with Dark Centre



Red Shades with Dark Centre



Rose Shades



Scarlet with Dark Centre



Spring Pastels



Terracotta



White



Yellow with Dark Centre



Yellow with Green Centre



Formula Mixture



Champagne



Golden Yellow with Dark Centre



Orange with Dark Centre



Purple Shades



Rose with Green Centre



Scarlet with Dark Centre



Watermelon



White



Yellow Shades



Formula Mixture

F1 GERBERA continued

Mega Revolution™ Series

Height: 12 to 16 in./30 to 40 cm

Spread: 8 in./20 cm

Flower Size: 3.5 to 4 in./9 to 10 cm

Supplied as easy-to-sow coated seed.

Early-flowering Mega Revolution produces vigorous, bushy plants with extremely large flowers, making it the ideal choice for 6-in./15-cm and larger containers. Good in larger patio planters and gardens.

- Champagne
- Golden Yellow with Dark Centre
- Orange with Dark Centre
- Purple Shades
- Rose with Green Centre
- Scarlet with Dark Centre
- Watermelon
- White
- Yellow Shades
- Formula Mixture

Micro Revolution™ Irish Eyes Mixture

Height: 8 to 10 in./20 to 25 cm
Spread: 4 to 5 in./10 to 12 cm
Flower Size: 1 to 1.5 in./3 to 4 cm
Supplied as easy-to-sow coated seed.

Micro Revolution Irish Eyes Mixture is 100% green-centred and provides a wide range of colours, including many pastel shades and bicolours. It contains more than 50% double and semi-double flowers, on 3 to 7 flower stems per plant. The very compact, round-shaped plants are ideal for growing in packs in high-density production.



Micro Revolution Irish Eyes Mixture



Mini Revolution Red

Mini Revolution™ Series

Height: 8 to 10 in./20 to 25 cm
Spread: 4 to 5 in./10 to 12 cm
Flower Size: 2 to 2.5 in./5 to 6 cm
Supplied as easy-to-sow coated seed.

Mini Revolution is the new generation in genetically compact pot Gerbera. Early to flower, the plants have an excellent plant habit and short stem length. Ideal for 3.5 to 4-in./9 to 10-cm pots.

- Red
- Rose
- White
- Yellow
- **Formula Mixture** Contains a wide range of colours on dark and green-centred varieties, including bicolour and semi-double flowers.



Mini Revolution Rose



Mini Revolution White



Mini Revolution Yellow



Mini Revolution Formula Mixture



Mega Revolution™
Supersized flowers
on large, bushy plants

Revolution™
The number one in
standard size pot gerbera

Mini Revolution™
Compact plants &
miniature size flowers

Micro Revolution™
Super in small pots



QIS Carmine Gomphrena



QIS Orange Gomphrena



QIS Red Gomphrena

GOMPHRENA

Gomphrena haageana

QIS Series

Height: 24 to 26 in./60 to 70 cm

Spread: 8 to 10 in./20 to 25 cm

Supplied as clean seed.

The name 'QIS' stands for 'Quality in Seed', a title richly deserved by this first-class professional cut flower series for greenhouse and outdoor production. Produces large, 1 to 1.5-in./2.5 to 3.5-cm flowers in attractive colours, on stems with a good uniform length. Suitable or use in both fresh and dried bouquets and arrangements. Offers a long vase life – more than 14 days without preservatives.

• **Carmine** Bright carmine.

Fleuroselect Quality Award Winner.

• **Orange** Warm, dark orange.

• **Red** Glowing red.

• **Mixture**

GYPSOPHILA

Gypsophila cerastioides

New Pixie Splash

Height: 3 to 5 in./8 to 12 cm

Spread: 4 to 7 in./10 to 18 cm

USDA Hardiness Zones: 4 to 7
(-30 to 0°F/-34 to -18°C minimum temperatures)

Supplied as TunedSeeds.

Showy, early Spring perennial offers reliable seed quality and germination, along with uniform and compact habit, and short harvest window. The flowers are a unique and attractive colour – white with pink splash – for great retail impact. Long-lasting on the shelf for minimum waste. Mounded habit looks great for border edging; this versatile variety is also suited for hanging baskets and containers. Recommended sowing time is July to August.



New Pixie Splash Gypsophila enhances mixed containers



New Pixie Splash Gypsophila



HELIANTHUS

Helianthus annuus

Choco Sun

See PanAmerican Seed, page 54.

Double Shine F₁

Height

Garden: 60 in./1.5 m

Greenhouse: 70 in./1.75 m

Spread: 8 to 10 in./20 to 25 cm

Supplied as treated seed.

Striking, professional sunflower produces fully double, 8-in./20-cm, golden yellow flowers on strong stems. The pollenless flowers have excellent vase life. Suitable for greenhouse or outdoor production, length will vary according to light and culture conditions. 12 to 13-week production period when sown in May/June.

Solina

Height: 20 in./50 cm

Spread: 6 to 8 in./15 to 20 cm

Supplied as treated seed.

Solina is a compact *Helianthus* with large, golden yellow flowers that are highly decorative in patio planters and borders. This heat-loving Summer annual produces 8-in./20-cm blooms with a dark flower heart surrounded by golden yellow petals. Solina will flower under short day conditions.

Sun4U F₁ Series

Height: 60 in./1.5 m

Spread: 8 to 10 in./20 to 25 cm

Supplied as treated seed.

Not available in North America.

100% pollen-free single sunflowers for professional production are very uniform in growth with a small top leaf, flowering above the foliage. Flowers have short-petaled ray-florets and dark-coloured disc on good sturdy stems with perfect length. Sow indoors year-round, or use for outdoor sowing in May and June. The 5-ft./1.5-m height is dependent on soil, sowing time and light.

- **Bicolor** Golden yellow with dark red ray.
- **Lemon** Bright yellow.
- **Orange** Golden orange.



Double Shine



Solina



Sun4U Bicolor



Sun4U Lemon



Sun4U Orange



Melting Fire



Malachite



Palace Purple

HEUCHERA

HEUCHERA HYBRID

Malachite

Height

Foliage: 8 in./20 cm

Flower: 18 in./45 cm

Spread: 12 to 14 in./30 to 35 cm

USDA Hardiness Zones: 5 to 8

(-20 to 10°F/-29 to -12°C minimum temperatures)

Supplied as SowEasy single pellets.

Uniform, attractive seed Heuchera with excellent varietal quality is cost effective and easy to grow as a plug. Produces large, full plants with heavily curled leaves in an intense green colour. Strong garden performer has good weather tolerance. Excellent for mixed combos, the striking colour gives great contrast. *Fleuroselect Novelty*.

Melting Fire

Height

Foliage: 8 in./20 cm

Flower: 18 in./45 cm

Spread: 12 to 14 in./30 to 35 cm

USDA Hardiness Zones: 5 to 8

(-20 to 10°F/-29 to -12°C minimum temperatures)

Supplied as SowEasy single pellets.

Companion to Malachite is just as uniform and good looking, with the same excellent quality, cost-effective production, strong garden performance and good weather tolerance. Beautiful, large plants display strong curled leaves in an intense purple-red. The young leaves on the full-grown plants are bright blood red, which offers an exciting "hot" centre in each plant for a great contrast in mixed containers. True tissue culture alternative. *Fleuroselect Novelty*. European Community Plant Variety Rights Number 20557.

HEUCHERA MICRANTHA

Palace Purple

Height

Foliage: 10 in./25 cm

Flower: 20 in./50 cm

Spread: 14 to 16 in./35 to 40 cm

USDA Hardiness Zones: 4 to 7

(-30 to 0°F/-34 to -18°C minimum temperatures)

Supplied as SowEasy single pellets.

Compact variety has highly attractive ornamental foliage of strong bronze-purple, with small white flowers appearing later. The dark leaf colour offers outstanding contrast in borders and mixed containers. Excellent germination.

HIBISCUS

Hibiscus moscheutos

Luna F1 Series

Height: 2 to 3 ft./60 to 90 cm

Spread: 2 ft./60 cm

USDA Hardiness Zone: 5 to 9
(-20 to 20°F/-29 to -7°C minimum temperatures)

**A First Year-Flowering Perennial.
Supplied as raw seed.**

Dramatic and impressive, with numerous eye-catching, 6 to 8-in./15 to 20-cm flowers, the Luna series produces big, bushy, well-branched plants without pinching. Ideal for large containers, Luna can also be planted in the ground as a perennial and enjoyed for great garden performance year after year. Heat-loving plants not only tolerate moist soil conditions, but are also drought-tolerant once established in the garden. Very responsive to growth regulators. Crop time from seed is 13 to 14 weeks in the Summer; 16 weeks in the Spring. Reliable seed availability with a significantly high germination compared to other seed varieties.

- **Pink Swirl** Dark eye and pink picotee pattern; slightly shorter and a few days earlier to flower than Red and Blush.

- **Red**

- **Rose** Deep clear rose. Largest flowers in the series, similar to Red. Compact habit is similar to Pink Swirl. Flowers slightly earlier than others in the series.

- **White** White flowers with large red eye. Flowers a few days earlier than Red and Blush, with vigour similar to Red.

- **Mixture** Pink Swirl, Red, Rose and White.



White



Pink Swirl



Red



Rose



White



Snowflake Iberis

HOLLYHOCK

See Alcea.

IBERIS ☀️

IBERIS SEMPERVIRENS

Snowflake

Height: 6 to 8 in./15 to 20 cm
Spread: 8 to 12 in./20 to 30 cm
USDA Hardiness Zones: 3 to 8
 (-40 to 10°F/-40 to -12°C minimum temperatures)

Supplied as raw seed.

A different approach to Iberis, Snowflake is ideal for perennial overwintered production. Plants are blanketed with mid-sized, white flower clusters on uniform, neatly spreading plants with good foliage quality. Iberis is a "top three" early Spring perennial, and Snowflake is a rewarding selection for home gardeners. Excellent in mass plantings and balcony tubs. Recommended for sowing in May and June.

IBERIS UMBELLATA

Candy Cane Series

Height: 13 to 14 in./30 to 35 cm
Spread: 8 to 10 in./20 to 25 cm
Supplied as raw seed.

The fast-growing plants are well-suited to mass plantings, large beds and edgings, producing a striking display of sweet colours. The uniform habit means versatile Candy Cane can also be used as a cut flower, and produced as an attractive pot plant for Mother's Day.

- Lilac
- Purple
- Red
- Rose
- White
- Formula Mixture

INCARVILLEA ☀️

Incarvillea sinensis

Cheron Series

Height: 10 to 20 in./25 to 50 cm
Spread: 6 to 8 in./15 to 20 cm
Supplied as raw seed.

While Incarvillea is known as a traditional perennial crop, Cheron offers growers an unusual annual with a short crop time. Plants produce fernlike foliage and delicate, trumpet-shaped flowers that stand horizontal rather than hang for eye-catching retail impact in 4 to 5-in./10 to 12-cm pots. The strong, sturdy plants flower freely all season, and are highly suited for borders and patios, performing well even in windy conditions.

- New Pink
- White Formerly sold as 'Cheron'.

ISOTOMA

Tristar F1 Series

See PanAmerican Seed, page 69.



Candy Cane Lilac Iberis



Candy Cane Purple Iberis



Candy Cane Red Iberis



Candy Cane Rose Iberis



Candy White Iberis



Candy Cane Iberis



NEW Cheron Pink Incarvillea



Cheron White Incarvillea

LAVANDULA

LAVANDULA ANGUSTIFOLIA

Ellagance Series

Height: 12 to 14 in./30 to 35 cm

Spread: 10 to 12 in./25 to 30 cm

USDA Hardiness Zones: 5 to 8
(-20 to 10°F/-29 to -12°C minimum temperatures)

**A First Year-Flowering Perennial.
Supplied as TunedSeeds.**

Bred for large-scale, first year-flowering pot production, the varieties have excellent branching to fill the pots quickly and finish with large, dense flower spikes and very strong stems. The spreading and upright plants have rich gray-green foliage. Winter hardy and cold-tolerant with good tolerance to foliar diseases compared to other lavenders. Due to the high uniformity, harvest times are short and comparable to any vegetative variety. Ellagance ships well, and is long-flowering in perennial beds and patio planters.

- **Ice** White with petal edges colouring to light blue. *Fleuroselect Quality Award Winner.*
- **Purple** Purple-blue. *Fleuroselect Gold Medal Winner.*
- **Sky** Light sky blue. *Fleuroselect Gold Medal Winner.*
- **Snow** The only true white lavender from seed. *Fleuroselect Novelty.*



Sky



Ice

Snow

Ellagance

Ellagance stands out from other seed and vegetative lavenders for its excellent uniformity, colour range, earliness and spike quality!
Pictured: Purple





Lavance

**LAVANDULA
ANGUSTIFOLIA continued**

Hidcote Blue Strain

Height: 12 to 20 in./30 to 50 cm
Spread: 12 to 14 in./30 to 35 cm
USDA Hardiness Zones: 5 to 8
 (-20 to 10°F/-29 to -12°C minimum temperatures)

Supplied as TunedSeeds.

Suitable for professional plug production, this highly uniform perennial lavender strain requires an overwintering period. Produces large, deep blue flower heads on relatively tall flower spikes over contrasting grey-green foliage. Flowers June to September.

Lavance

Height: 10 to 20 in./25 to 50 cm
Spread: 10 to 12 in./25 to 30 cm
USDA Hardiness Zones: 5 to 8
 (-20 to 10°F/-29 to -12°C minimum temperatures)

**A First Year-Flowering Perennial.
Supplied as TunedSeeds.**

Featuring the most intense spike and flower colour of all seed lavenders, Lavance offers the perfect combination of true first year flowering with an excellent uniform, compact plant. The plants have a good base-branching habit, producing an excellent rich flush of attractive spikes with deep purple sepals and purple petals. Best used for late Spring and Summer production, in longer days and higher temperature. For the Dutch first year-flowering market, Ellagance Purple is scheduled for the earliest delivery weeks, as it grows and finishes well in cool, short-day conditions. It is followed by Lavance, which grows well and finishes quickly in the second part of the first year-flowering season (potting Week 17 onwards). Lavance Purple can also be scheduled for a traditional overwintering production with potting in Weeks 28 to 32. **NOTE:** Lavance does not grow quickly in cool climates. European Community Plant Variety Rights Number EU17706.



Hidcote Blue Strain



Lavender Lady



Munstead Strain



Spanish Eyes

Lavender Lady

Height: 8 to 10 in./20 to 25 cm
Spread: 10 in./25 cm
USDA Hardiness Zones: 5 to 8
 (-20 to 10°F/-29 to -12°C minimum temperatures)
**A First Year-Flowering Perennial.
Supplied as TunedSeeds.**

Lavender Lady gives home gardeners the profuse, fragrant flowers they want during the first season of growing. Flowers reliably during the following Spring from Winter sowings, making it a good fit for annual programs. Uniform plants bloom consistently from plant to plant. An attractive component for fragrance in mixed container plantings. *All-America Selections Winner.*

Munstead Strain

Height: 16 to 24 in./40 to 60 cm
Spread: 20 to 30 in./50 to 75 cm
USDA Hardiness Zones: 5 to 8
 (-20 to 10°F/-29 to -12°C minimum temperatures)

Supplied as TunedSeeds.

Munstead produces large, lilac-blue flower heads from June to September on tall spikes over contrasting grey-green foliage. Highly uniform perennial lavender strain requires an overwintering period and is suitable for professional plug production.

LAVANDULA MULTIFIDA

Spanish Eyes

Height: 16 to 25 in./40 to 70 cm
Spread: 20 to 30 in./50 to 75 cm
USDA Hardiness Zones: 7 to 10
 (0 to 30°F/-18 to -1°C minimum temperatures)

Supplied as raw seed.

Fast-growing annual/tender perennial variety blooms all Summer long, right up until frost. The soft-textured and finely cut fernleaf foliage is topped by branched, 4-in./10-cm spikes that are beautiful in bud and stunning when the bright sky blue blooms open. Free-flowering in pot and garden.

LAVANDULA STOECHAS

Purple Ribbon

Height: 14 to 16 in./35 to 40 cm
Spread: 10 to 12 in./ 25 to 30 cm
USDA Hardiness Zones: 7 to 10
(0 to 30°F/-18 to -1°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

Uniform strain of *Lavandula stoechas* is first year-flowering and suitable for annual production. Bushy, uniform plants produce dark purple flower heads with large, attractive purple branches on plants with good foliage and strong stem quality. Performs well in moderately fertile, well-drained soil in full sun.



Purple Ribbon Lavandula



Twins Hot Pink Lavatera



Twins Cool White Lavatera

LAVATERA 🌻

Lavatera trimestris

Twins Series

Height: 12 to 20 in./30 to 50 cm
Spread: 12 to 20 in./30 to 50 cm
Supplied as raw seed.

Award-winning compact series delivers a short, 10 to 14-week crop time plus highly uniform habit and vigour. Twins blooms from May to September with a beautiful array of satiny flowers. Healthy throughout the entire season, the plants stay compact in containers, but reach their full height and spread in garden beds.

- **Hot Pink** *Fleuroselect Gold Medal Winner.*
- **Cool White** *Fleuroselect Quality Award Winner.*

LIMONIUM (STATICE) 🌻

Limonium sinuatum

Fortress Series

Height: 24 to 30 in./60 to 75 cm
Spread: 12 in./30 cm
Supplied as cleaned seed for optimal germination.

Fortress delivers excellent uniformity and timing, and is suitable for greenhouse or field cut flower production, as well as home garden cut flowers. One of the most popular series for both fresh and preserved cut flower production, Fortress produces clusters of brightly coloured, papery flowers at the top of long, sturdy stems.

- **Apricot**
- **Dark Blue**
- **Heavenly Blue**
- **Purple**
- **Rose**
- **White**
- **Yellow**
- **Mixture**



Fortress Mixture Limonium



Fortress Dark Blue Limonium



Fortress Rose Limonium



Fortress White Limonium



QIS Formula Mixture



QIS Apricot

LIMONIUM (STATICE) continued

QIS Series

Height: 30 to 35 in./75 to 90 cm

Spread: 8 to 10 in./20 to 25 cm

Supplied as raw seed.

Widely recognized by professional cut flower growers in the world as a real winner, QIS ('Quality in Seed') is a considerable improvement over standard varieties in uniformity, colour, flower size and stem quality. Suitable for greenhouse and outdoor production, the plants produce clouds of tiny, non-shattering flowers, and deliver shipability and long vase life.



QIS Dark Blue



QIS Lavender



QIS Pale Blue

- Apricot
- Dark Blue
- Lavender
- Pale Blue
- Rose
- Soft Pastel Shades
- Swan Lake Pure white.
- White
- Yellow
- Formula Mixture

Sunset

Height: 30 in./75 cm

Spread: 12 in./30 cm

Supplied as cleaned seed for optimal germination.

Very popular with cut flower growers for fresh and dried sales, Sunset produces flowers in warm tones of apricot, peach, orange and rose red.



QIS Swan Lake



QIS Soft Pastel Shades



QIS Rose



QIS White



QIS Yellow



LOBELIA 🌻
Lobelia valida

Delft Blue

Height: 10 to 12 in./25 to 30 cm
Spread: 12 to 16 in./30 to 40 cm
USDA Hardiness Zones: 7 to 9
(0 to 20°F/-18 to -7°C minimum temperatures)

Supplied as SowEasy single pellets.

Half-hardy perennial Lobelia makes compact, sturdy and well-branched plants. Produces intense blue flowers with white eye atop green, tooth-edged, succulentlike foliage. This self-cleaning, long-flowering variety is weather-tolerant in both wet and dry conditions.

LUPINUS 🌻
Lupinus polyphyllus

Gallery Series

Height: 16 to 20 in./40 to 50 cm
Spread: 8 to 10 in./20 to 25 cm
USDA Hardiness Zones: 4 to 7
(-30 to 0°F/-34 to -18°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as TunedSeeds.

Ideal Lupin series for professional 3.5 to 4-in./9 to 10-cm pot production. Full flower spikes are attractive at retail. Works well in patio planters.

- Blue
- Pink
- Red
- White
- Yellow
- Formula Mixture

LYSIMACHIA 🌻
Lysimachia atropurpurea

Beaujolais

Height: 16 to 20 in./40 to 50 cm
Spread: 14 to 16 in./35 to 40 cm
USDA Hardiness Zones: 5 to 8
(-20 to 10°F/-29 to -12°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Upright-growing and sturdy, this hardy perennial displays ornamental, waxy green leaves and attractive flower spikes with true deep wine-red colour. Great for gallon containers, Beaujolais works well in borders and landscapes; can also be used as backyard cut flower.

MATTHIOLA (STOCK)

BEDDING MATTHIOLA

Sugar & Spice Series

See PanAmerican Seed, page 88.

CUT FLOWER MATTHIOLA

Lucinda Series

See PanAmerican Seed, page 93.

MELAMPODIUM

Melanie

See PanAmerican Seed, page 94.

MIMOSA 🌻
Mimosa pudica

Touchy Tina

Height: 4 to 6 in./10 to 15 cm
Spread: 16 to 36 in./40 to 90 cm; dependent on location and plant age
Supplied as clean seed.

Easy-to-grow "sensitive plant" plant produces fernlike green foliage which folds together when touched. Flowers are pink.



Gallery Formula Mixture Lupinus



Delft Blue Lobelia



Beaujolais Lysimachia



Touchy Tina Mimosa



Bounty Orange Mimulus



Bounty Red Mimulus



Bounty Rose Mimulus



Bounty Yellow Mimulus

MIMULUS 🌻

Mimulus x hybridus

Bounty Series

Height: 4 to 6 in./10 to 15 cm
Spread: 8 to 10 in./20 to 25 cm
USDA Hardiness Zones: 7 to 9
 (0 to 20°F/-18 to -7°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as pelleted seed.

Bounty produces compact, lightly spreading plants with an abundance of trumpet-shaped flowers in bright, clear colours with a few spots at the throat. With its strong colours, these varieties are excellent for mixed container production. Bounty has a similar crop time as other varieties (9 to 11 weeks from sowing to flowering) and is easy to produce. Prefers a partial sun location and rich, moist soil.

- Orange
- Red
- Rose
- Yellow

MOLUCCELLA 🌻

Moluccella laevis

Bells of Ireland

Height: 24 to 32 in./60 to 80 cm
Spread: 8 to 10 in./20 to 25 cm
Supplied as filmcoated seed.

Moluccella is a popular professional cut flower variety, admired for its unusual spires of green, bell-formed blooms. It can be used both fresh and dried, and adds real interest to mixed bouquets. The small, hand-shaped leaves on the flower spikes are removed after cutting for optimum ornamental value. NOTE: The seed coating aids in visibility during sowing and holds a Thiram fungicidal addition to protect young plants in early emergence stage.

MONARDA 🌻

Monarda hybrida

Bergamo

Height: 20 to 24 in./50 to 60 cm
Spread: 16 to 20 in./40 to 50 cm
USDA Hardiness Zones: 5 to 8
 (-20 to 10°F/-29 to -12°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Unique, compact, first year-flowering Monarda provides a bright, long-lasting display in the garden, with intense rose-purple flowers in clusters around the stem. Much earlier flowering than other Monarda varieties, blooming from June until first frost. Excellent mildew tolerance. Suitable for pot production or direct sowing. *Fleuroselect Gold Medal Winner.*



Bells of Ireland Moluccella



Bergamo Monarda



MYOSOTIS (FORGET-ME-NOT) ☀️

Myosotis sylvatica

Bobo Series

Height: 6 to 7 in./15 to 18 cm

Spread: 8 to 10 in./20 to 25 cm

USDA Hardiness Zones: 4 to 7
(-30 to 0°F/-34 to -18°C minimum temperatures)

Supplied as raw seed.

This uniform Myosotis series for the professional grower offers compact, ball-shaped forget-me-nots for pots and packs. Bobo is more compact and earlier to flower than comparable biennial varieties. Ideal for easy and early Spring flowering in beds.

- Blue
- Rose
- White
- Formula Mixture

Mon Amie Blue

Height: 8 to 10 in./20 to 25 cm

Spread: 6 to 8 in./15 to 20 cm

Supplied as raw seed.

Mon Amie Blue lets you send your crop off to the market 3 to 6 months earlier than biennial Myosotis varieties as no vernalization is needed for this variety to flower.

Can be a good choice for annual programs and can be reliably scheduled for Autumn or Spring. The dainty, light blue blooms are reminiscent of cottage and English gardens. Media/soil pH requirements are similar to *Primula acaulis*.

Good for 306 premium packs and 4.5-in./11-cm pots. U.S. Plant Variety Protection Number 200800070



Bobo Series



Mon Amie Blue



Mon Amie Blue



Blue Moon Nepeta



Pink Cat Nepeta

NASTURTIIUM

See Tropaeolum, page 249.

NEPETA ☀️

Nepeta nervosa

**Blue Moon
Pink Cat**

Height: 10 to 12 in./25 to 30 cm

Spread: 10 to 12 in./25 to 30 cm

USDA Hardiness Zones: 4 to 7
(-30 to 0°F/-34 to -18°C minimum temperatures)

Supplied as raw seed.

Uniform strains produce large, dense flower spikes on full, bushy plants that flower early and then freely all season. Well-suited to container production. Will flower from an April sowing in only 12 weeks. Gives a colourful garden display in well-drained soil – can take the heat! Recommended sowing time is March to May.

- **Blue Moon** Blue with white lower lip.
- **Pink Cat** Hot pink. *Fleuroselect Quality Award Winner.*

NIEREMBERGIA

Robe Series

See PanAmerican Seed, page 97.

PANSY

Promise Series

See PanAmerican Seed, page 108.

PAPAVER (POPPY) ☀️

PAPAVER MYABEANUM

Moondance

Height: 6 to 8 in./15 to 20 cm

Spread: 5 to 7 in./12 to 18 cm

USDA Hardiness Zones: 4 to 7
(-30 to 0°F/-34 to -18°C minimum temperatures)

**A First Year-Flowering Perennial.
Supplied as raw seed.**

One of the most elegant poppies, this compact and easy-to-grow variety is best-suited for container production. Moondance produces lemon yellow flowers held just 4 in./10 cm over dense rosettes of light green, hairy foliage. The flowers develop later into beautiful, clear green seed pods. Can be produced as an annual.



Champagne Bubbles Series Papaver



Moondance Papaver



Navigator Penstemon

PAPAVER NUDICAULE

Champagne Bubbles F1 Series

Height: 15 in./38 cm

Spread: 6 in./15 cm

USDA Hardiness Zone: 6 to 8
(-10 to 10°F/-23 to -12°C minimum temperatures)

**A First Year-Flowering Perennial.
Supplied as TunedSeeds.**

Hybrid vigour delivers uniform flowers, earliness and long-lasting garden performance compared to O.P. varieties. Many large, cup-shaped flowers top bushy, strong-stemmed plants. Performs well in hot-day, cool-night conditions, and is a good Winter item in Florida, California and comparable climates. Well-suited to 4 and 6-in./10 and 15-cm pots.

- **Orange**
- **Pink**
- **Scarlet** Scarlet-orange with some scarlet-rose-pink shades.
- **White**
- **Yellow**
- **Citrus Mixture** Orange, Yellow and White.
- **Mixture** Includes all colours.

PENSTEMON ☀️

PENSTEMON BARBATUS

Navigator

Height: 8 to 10 in./20 to 25 cm

Spread: 10 to 12 in./25 to 30 cm

USDA Hardiness zones: 5 to 7
(-20 to 0°F/-29 to -18°C minimum temperatures)

**A First Year-Flowering Perennial.
Supplied as raw seed.**

Extremely uniform and compact selection in Penstemon flowers 16 to 20 weeks after sowing. Plants have attractive, grey-green foliage and large, well-rounded flower spikes in a well-balanced mix of red, pink, rose, blue and purple shades. Useful for borders, beds and planters, this half-hardy first year-flowering perennial is well-suited to pot production and best grown as an annual. *Fleuroselect Quality Award Winner.*



PENSTEMON HARTWEGII

Tubular Bells Series

Height: 14 to 16 in./35 to 40 cm

Spread: 10 to 14 in./25 to 35 cm

USDA Hardiness Zones: 7 to 10
(0 to 30°F/-18 to -1°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

First series of this type available in separate colours produces self-cleaning plants with good garden performance and long flowering period. Heat-tolerant, first year-flowering perennial is a North American prairie plant. Upright, robust and strong-stemmed – good for mass plantings, home cutting gardens and large containers (1 to 2 gallons). Flowers in early Summer.

- **Red** *Fleuroselect Novelty.*
- **Rose** Light rose with deep rose centre. *Fleuroselect Quality Award Winner.*
- **Wine Red With White Throat** *Fleuroselect Novelty.*

PENSTEMON HETEROPHYLLUS

Electric Blue

Height: 18 in./45 cm

Spread: 24 in./60 cm

USDA Hardiness Zones: 6 to 8
(-10 to 10°F/-23 to -12°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

A good performer in warm climates, producing multiple stems with branched spikes holding intense blue flowers. No vernalization is required for flowering. Allow 16 to 18 weeks to flower in a 4-in./10-cm pot.

PENSTEMON HIRSUTUS

Snowbells

Height: 8 in./20 cm

Spread: 6 to 8 in./15 to 20 cm

USDA Hardiness Zones: 4 to 8
(-30 to 10°F/-34 to -12°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

Compact, dark-leaved Penstemon is a first year-flowering variety with short crop time, making it well-suited to programmable pack or pot production. Free-flowering plants produce white blooms with a touch of pink from June to October.

PENSTEMON X MEXICALI

Carillo Series

Height: 8 to 10 in./20 to 25 cm

Spread: 10 to 12 in./25 to 30 cm

USDA Hardiness Zones: 5 to 7
(-20 to 0°F/-29 to -18°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

Heat and drought-tolerant North American prairie plant offers an economical, high-quality option to growers. Well-branched plants are the most compact of any seed or vegetative varieties, with shiny foliage and clear, strong flower colours. First year-flowering series is suited to high-density programs for 4-in./10-cm pots and larger. Good shelf life; easy-care and long-flowering in landscapes and containers. Flowers in early Summer.

- **Purple** *Fleuroselect Novelty.*
- **Rose** *Fleuroselect Novelty.*



Tubular Bells Red



Tubular Bells Rose



Tubular Bells Wine Red With White Throat



Electric Blue



Snowbells



Carillo Rose



Carillo Purple



Violet Dusk Penstemon

PENSTEMON SMALLII

Violet Dusk

Height: 24 in./60 cm

Spread: 18 in./45 cm

USDA Hardiness Zones: 6 to 8 (-10 to 0°F/-23 to -12°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as TunedSeeds.

Branched spikes are covered with many tubular, fade-resistant lavender blooms. Adapted to warm climates, plants prefer dry conditions and light watering. No vernalization is required for flowering. Allow 16 to 18 weeks to flower in a 4-in./10-cm pot.



Taiga Perovskia

ORNAMENTAL PEPPER

Cappa F1 Series

Garda F1 Series

Peppa F1 Series

See PanAmerican Seed, page 115.

PEROVSKIA 🌞

Perovskia atriplicifolia

Taiga

Height: 40 to 48 in./1 to 1.2 m

Spread: 12 to 16 in./30 to 40 cm

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as TunedSeeds.

Attractive, bushy plants have long, feathery, deep sky blue flower spikes and contrasting silvery-green foliage. First year-flowering for late season sales in large pots at 16 to 20-in./40 to 50-cm plant height. Heat and drought-tolerant variety is a perfect landscape or accent border plant.



Balou Blue Platycodon



Balou White Platycodon



Bambino Blue Polemonium

PHLOX

Chanal Double

Ethnie Series

Promise Series

See PanAmerican Seed, pages 139-140.

PLATYCODON 🌞 🌞

Platycodon grandiflorus

Balou Series

Height: 8 to 10 in./20 to 25 cm

Spread: 6 to 8 in./15 to 20 cm

USDA Hardiness Zones: 4 to 8 (-30 to 10°F/-34 to -12°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Balou is bred for outdoor field container production and performance, with good foliage/flower quality and weather tolerance. The upright, compact and multi-flowering plants produce an abundance of balloon-shaped buds and large, star-shaped flowers. Performs best in a well-drained garden location. Recommended sowing time is March to May.

- Blue
- White

POLEMONIUM 🌞 🌞

Polemonium viscosum

Bambino Blue

Height: 10 to 12 in./25 to 30 cm

Spread: 6 to 8 in./15 to 20 cm

USDA Hardiness Zones: 4 to 8 (-30 to 10°F/-34 to -12°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Very attractive variety of Jacob's Ladder is bred for professional container production. Outstanding for earliness and compact, uniform habit, the plants have multiple short stems with large, intense blue flower clusters. Performs well in the garden in fertile, well-drained soil. Recommended sowing time is March to May.

POPPY

See Papaver.

PRIMULA

PRIMULA ACAULIS

Heritage F1 Series

See PanAmerican Seed, page 145.

PRIMULA CAPITATA SSP.

MOOREANA 🌞

Noverna Deep Blue

Height: 8 to 10 in./20 to 25 cm

Spread: 6 to 8 in./15 to 20 cm

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

This amazing Primula needs no cold period and will flower abundantly when grown as an annual bedding plant. Produces pretty, round clusters of deep blue flowers on contrasting powdery white stems, over an attractive rosette of clear green leaves. Noverna Deep Blue is an excellent, extremely weather-tolerant garden performer, flowering richly from Summer well into Autumn. Recommended sowing time is March to May.

PRIMULA VIALII 🌞🌈

Miracle

Height: 12 to 14 in./30 to 35 cm

Spread: 8 to 10 in./20 to 25 cm

USDA Hardiness Zones: 6 to 8 (-10 to 10°F/-23 to -12°C minimum temperatures)

Supplied as raw seed.

Unusual and striking Primula displays exotic scarlet and lavender-pink spires in June and July. The long-lasting screen of flowers makes eye-catching borders and alpine or rock gardens. Well-suited to professional perennial pot production.

PULSATILLA 🌞

Pulsatilla vulgaris

Bells Series

Height: 6 to 8 in./15 to 20 cm

Spread: 8 to 10 in./20 to 25 cm

USDA Hardiness Zones: 5 to 7 (-20 to 0°F/-29 to -18°C minimum temperatures)

Supplied as raw seed.

Charming, softly hairy garden plant produces upward-facing, trumpet-shaped, yellow-centred flowers, followed by feathery seed heads. Sow in March and April for Spring sales the following year. NOTE: Pulsatilla is a cold-germinator and pre-cooling is recommended.

- **Red** Fuchsia-red.
- **Violet** Deep violet-purple.
- **White** Creamy white.

RUDBECKIA

RUDBECKIA FULGIDA

VAR. SULLIVANTII 🌞🌈

Goldsturm

Height: 24 to 28 in./60 to 70 cm

Spread: 14 to 18 in./35 to 45 cm

USDA Hardiness Zones: 3 to 9 (-40 to 20°F/-40 to -7°C minimum temperatures)

Supplied as TunedSeeds.

This premium, late Summer-flowering perennial is considered "best in class" for landscapes and also makes a nice cut flower. Goldsturm is noted for its large, single, scentless golden yellow blooms, each highlighted by a contrasting dark centre. The upright plants produce a flower on every stem, over tight, dark green foliage. Recommended sowing time is January to March.

RUDBECKIA HIRTA 🌞

Irish Eyes

Height: 24 to 36 in./60 to 90 cm

Spread: 14 to 18 in./35 to 45 cm

USDA Hardiness Zones: 7 to 9 (0 to 20°F/-18 to -7°C minimum temperatures)

Supplied as raw seed.

Attractive tender perennial garden plant bears large, sunshine yellow flowers with distinct green eye on robust, tall and well-branched plants with contrasting dark green foliage. This first year-flowering variety has a short culture period; grow as an annual. Makes a nice backyard cut flower with excellent vase life.

Moreno

Height: 12 to 20 in./30 to 50 cm

Spread: 10 to 12 in./25 to 30 cm

USDA Hardiness Zones: 7 to 9 (0 to 20°F/-18 to -7°C minimum temperatures)

Supplied as raw seed.

Moreno is vigorous in the garden, producing an abundance of large flowers in a unique mahogany-red colour with golden orange tips all season. The heat-tolerant plants are compact and basal branching with a spreading habit, making them ideal for landscapes, garden beds and containers. Tender perennial can also be marketed as an annual. *Fleuroselect Novelty.*



Noverna Deep Blue Primula



Miracle Primula



Red Bells Pulsatilla



Violet Bells Pulsatilla



White Bells Pulsatilla



Goldsturm Rudbeckia



Irish Eyes Rudbeckia



Moreno Rudbeckia





Crispy Sagina



Saga Blue Salvia

SAGINA ☀️

Sagina subulata

Crispy

Height: 4 to 6 in./10 to 15 cm

Spread: 8 to 14 in./20 to 35 cm

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Carpet-forming perennial is covered with masses of small, starlike, white flowers. Suitable for annual production. Prefers a well-drained, moderately fertile garden location.

SALVIA HORMINUM ☀️

Marble Arch Mixture

Height: 10 in./25 cm

Spread: 10 in./25 cm

Supplied as raw seed.

Extremely uniform mix in *S. horminum* is an interesting choice for landscapes, borders and patio planters. The broad upper flower bracts are the main attraction, along with tiny flowers in intense deep blue, rose and white. Marble Arch Mixture has good uniformity in timing, habit, height and flowering window between the colours, and delivers strong weather tolerance.



Marble Arch Mixture Salvia



Purple Volcano Salvia

SALVIA

SALVIA SPLENDENS

Lighthouse Red

See PanAmerican Seed, page 148.

SALVIA FARINACEA ☀️

Saga Blue

Height: 10 in./25 cm

Spread: 8 to 10 in./20 to 25 cm

Supplied as raw seed.

Attractive bedding plant produces intense deep blue flower spikes on compact plants with a very well-branched habit and excellent garden vigour. Late Spring and Summer-flowering with good heat tolerance.

SALVIA LYRATA ☀️

Purple Volcano

Height: 8 to 10 in./20 to 25 cm

Spread: 6 to 8 in./15 to 20 cm

USDA Hardiness Zones: 6 to 8 (-10 to 10°F/-23 to -12°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Impressive foliage bedding plant displays bronze-purple foliage year-round, with white-tipped purple flower spikes all Summer. The leaf colour intensifies during late Summer and Autumn to deep purple. Heat-tolerant plants deliver long-lasting performance in the front of borders and landscapes, as well as in containers. Recommended sowing time is March to June or August to September.



New Dimension Blue Salvia



New Dimension Rose Salvia

SALVIA NEMOROSA (SUPERBA) ☀️

New Dimension Series

Height: 8 to 10 in./20 to 25 cm

Spread: 6 to 8 in./15 to 20 cm

USDA Hardiness Zones: 4 to 8 (-30 to 10°F/-34 to -12°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as SowEasy filmcoated seed.



New Dimension Blue Salvia

Economical and easy-to-produce duo creates large, compact and well-branched plants topped by strong-coloured flowers that are long-lasting in the landscape. Well-matched series finishes fast with no PGRs needed. First-year flowering perennial fits into annual production schedules. Suited to 4-in./10-cm to 2-gallon containers.

- **Blue** Deepest blue from seed. *Fleuroselect Novelty.*
- **Rose** Deepest rose from seed. *Fleuroselect Novelty.*

SALVIA PATENS 🌞

Patio Series

Height: 12 to 14 in./30 to 40 cm

Spread: 8 to 12 in./20 to 30 cm

USDA Hardiness Zones: to 8
(10°F/-12°C minimum temperature)

Supplied as raw seed.

A breakthrough in *Salvia patens*, available in an unprecedented range of colours! Thanks to excellent branching plant habit, Patio is more compact and richer flowering than similar strains. First-year flowering series works well as an annual. Well-suited to Summer containers and borders/beds.

- **Deep Blue** *Fleuroselect Quality Award Winner.*
- **Lilac** *Fleuroselect Novelty.*
- **Rose**
- **Sky Blue** *Fleuroselect Quality Award Winner.*

SALVIA ROEMERIANA 🌞

Hot Trumpets

Height: 8 to 10 in./20 to 25 cm

Spread: 6 to 8 in./15 to 20 cm

USDA Hardiness Zones: 7 to 10
(0 to 30°F/-18 to -1°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

Eye-catching tender perennial displays masses of intense scarlet flowers on well-branched flower stems over tidy, deep green leaves; the foliage has a nice spicy scent. A charmer that flowers all season, Hot Trumpets is compact, very early to bloom and creates a neat uniform, rich flowering plant that works well in small to large container production. Recommended sowing time is April to May.

SANVITALIA 🌞

Sanvitalia procumbens

Sprite Series

Height: 4 in./10 cm

Spread: 10 to 14 in./25 to 35 cm

Supplied as raw seed.

Trailing annual produces a profusion of tiny, semi-double, sunflowerlike flowers with green centres. Low-maintenance, long-flowering plants work well in beds and baskets – Sprite can take the heat, making it an ideal Summer groundcover.

- **Orange** *Fleuroselect Quality Award Winner.*
- **Vanilla** *Fleuroselect Novelty.*
- **Yellow**

SAXIFRAGA 🌞

Saxifraga x arendsii

Purple Robe

Height: 3 to 5 in./8 to 13 cm

Spread: 4 to 6 in./10 to 15 cm

USDA Hardiness Zones: 4 to 7
(-30 to 0°F/-34 to -18°C minimum temperatures)

Supplied as raw seed.

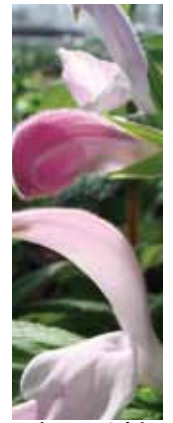
Early-flowering, compact and mounded variety delivers masses of intense purple, star-shaped flowers from March to July, on a uniform plant habit. Good groundcover for borders or filler for perennial containers. Prefers a sunny location that is not too wet.



Patio Deep Blue Salvia



Patio Lilac Salvia



Patio Rose Salvia



Patio Sky Blue Salvia



Hot Trumpets Salvia



Orange Sprite Sanvitalia



Vanilla Sprite Sanvitalia



Yellow Sprite Sanvitalia



Purple Robe Saxifraga



Blue Note Scabiosa



Pink Diamonds Scabiosa



Starry Dreams Silene



Starry Dreams Silene



Icecups Silene



Yellow Stone Sisyrinchium

SCABIOSA

SCABIOSA COLUMBARIA 🌞🌞

Blue Note

Height: 8 to 10 in./20 to 25 cm

Spread: 8 to 10 in./20 to 25 cm

USDA Hardiness Zones: 5 to 9
(-20 to 20°F/-29 to -7°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

Blue Note is a breakthrough in uniformity and compactness, with no PGRs needed in production. The basal-branching plants have dense, dark green foliage, and are rich and long flowering. The short-stemmed, clear blue flowers are produced abundantly throughout the growing season, while the plant maintains a perfect shape. First year-flowering variety can be grown as an annual for Summer or overwintered for early Spring sales. Good companion to Pink Diamonds. European Community Plant Variety Rights Number EU27547.

SCABIOSA JAPONICA VAR.

ALPINA 🌞

Pink Diamonds

Height: 8 to 10 in./20 to 25 cm

Spread: 8 to 10 in./20 to 25 cm

USDA Hardiness Zones: 5 to 9
(-20 to 20°F/-29 to -7°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

These highly uniform, genetically compact plants need no PGRs to produce basal-branching, short-stemmed plants that maintain their perfect shape all season. Dense, dark green leaves are topped with an abundance of beautiful, long-lasting, soft pink blooms. First year-flowering varieties can be produced as an annual crop.

SILENE 🌞

SILENE ALPESTRIS

Starry Dreams

Height: 6 to 8 in./15 to 20 cm

Spread: 8 to 10 in./20 to 25 cm

USDA Hardiness Zones: 5 to 8
(-20 to 10°F/-29 to -12°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

Starry Dreams has a compact, fresh green leaf cushion from which small, star-shaped, upward-facing pure white flowers emerge. Suitable for pack or pot production. Useful in borders and patio planters.
Fleuroselect Novelty.

SILENE MARITIMA

Icecups

Height: 5 to 7 in./13 to 18 cm

Spread: 6 to 8 in./15 to 20 cm

USDA Hardiness Zones: 4 to 7
(-30 to 0°F/-34 to -18°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

Icecups is a highly ornamental variety, with attractive seed pods producing pure white, bell-shaped, upright flowers over full-branching foliage that complements the decorative plants. Richly flowering from May to July, the heat-tolerant plants prefer a semi-shaded location. Works well in annual programs.

SISYRINCHIUM 🌞

Sisyrinchium californicum

Yellow Stone

Height: 6 to 8 in./15 to 20 cm

Spread: 10 to 12 in./25 to 30 cm

USDA Hardiness Zones: 7 to 10
(0 to 30°F/-18 to -1°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as raw seed.

Clean and attractive, sun-loving plant produces large, yellow, star-shaped flowers all Summer long, over compact foliage that resembles an Iris. Uniform and sturdy habit. Well-suited to annual production.

SNAPDRAGON (ANTIRRHINUM)

Axiom Series

Connexion Series

Paxia Series

See PanAmerican Seed, page 151.



STACHYS 🌻

Stachys byzantina (lanata, olympica)

Height: 16 in./40 cm

Spread: 20 to 24 in./50 to 60 cm

USDA Hardiness Zones: 4 to 9
(-30 to 20°F/-34 to -7°C minimum temperature)

Supplied as raw seed.

Strong border plant for larger plantings features evergreen silvery grey leaves with a wooly texture and deep rose flowers. Grow as an annual; mainly used for the foliage.

STATICE

See Limonium.

STOCK

See Matthiola in PanAmerican Seed, page 88.

SUNFLOWER

See Helianthus.

THYMOPHYLLA 🌻

Thymophylla tenuiloba

Golden Dawn

Height: 6 in./15 cm

Spread: 12 in./30 cm

Supplied as raw seed.

Long-flowering, spreading plant is covered with daisylike, golden yellow flowers on fine, ferny foliage. Heat and humidity-lover is an excellent performer in hanging baskets, patio planters and garden beds.

TIARELLA 🌻

Tiarella wherryi

Silverado

Height: 10 to 12 in./25 to 30 cm

Spread: 8 to 10 in./20 to 25 cm

USDA Hardiness Zones: 4 to 8
(-30 to 10°F/-34 to -12°C minimum temperatures)

**A First Year-Flowering Perennial.
Supplied as TunedSeeds.**

Eye-catching variety displays delicate, creamy white blooms with a tinge of pink, on densely set flower spikes over silky green foliage with contrasting veins. Long-flowering in semi-shade areas. First-year flowering variety; grow as an annual.

TRACHELIUM

Helios Pandora

See PanAmerican Seed, page 163.

TROPAEOLUM (NASTURTIUM) 🌻 🌻

Tropaeolum majus

Whirlybird Series

Height: 12 in./30 cm

Spread: 12 in./30 cm

Supplied as raw seed.

Large, spurless, semi-double, edible flowers face upwards over the solid green leaves. Works well in containers.

- **Apricot**
- **Cherry Rose**
- **Cream**
- **Gold**
- **Mahogany Red**
- **Scarlet**
- **Tangerine**
- **Seven-Colour Blend**

Melba Series

Height: 12 in./30 cm

Spread: 8 to 10 in./20 to 25 cm

Supplied as raw seed.

Uniform, compact and non-trailing annual plants with grey-green foliage and edible flowers work well in borders and pots.

- **Peach Melba** Bright cream colour with maroon dots.
- **Yellow Melba** Clear, bright cream-yellow.



Golden Dawn Thymophylla



Stachys byzantina



Silverado Tiarella



Whirlybird Series Tropaeolum



Peach Melba Tropaeolum



Yellow Melba Tropaeolum



Southern Charm Verbascum



Temptress Purple Verbascum



Temptress White Verbascum



Buenos Aires Verbena



Ramona Veronica



Blue Bouquet Veronica

VERBASCUM

VERBASCUM X HYBRIDA

Southern Charm

Height: 24 to 30 in./60 to 75 cm
Spread: 12 to 18 in./30 to 45 cm
USDA Hardiness Zones: 5 to 8
 (-20 to 10°F/-29 to -12°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as easy-to-sow pelleted seed.

Offers a unique blend of creamy yellow, soft lavender and peachy rose shades, each marked with a fuzzy purple "bee." The 2 to 2.5-ft./60 to 75-cm stems hold florets arranged in pairs; as the first floret dies, the second blooms, doubling the life of the flower spike. While the foliage is a low-growing rosette, the tall, graceful flower stems make it an excellent garden background plant and backyard cut flower that never self-sows or becomes "weedy." The full sun and drought-tolerant plants hold their flowers well. Plants bloom in Spring, go dormant under high temperatures and rebloom in Autumn. Best sold green in 4.5-in./11-cm pots or in bloom in 1 to 2-gallon containers (8 to 10-in./20 to 25-cm standard pots). No vernalization needed for flowering.

VERBASCUM PHOENICEUM

Temptress Series

Height: 24 to 28 in./60 to 70 cm
Spread: 12 to 16 in./30 to 40 cm
USDA Hardiness Zones: 5 to 7
 (-20 to 0°F/-29 to -18°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as SowEasy single pellets.

Flat, deep green foliage rosette is topped with multiple, slender flower spikes that hold 0.75-in./2-cm blooms. Temptress is a graceful border plant which remains attractive even after flowering, with numerous tiny seedpods along the stems. First year-flowering for annual production, or sow in August to September for overwintering.

- **Purple** The most intense colour from seed.
- **White** Striking pure white.

VERBENA

Verbena bonariensis

Buenos Aires

Height: 40 to 50 in./1 to 1.5 m
Spread: 12 to 16 in./30 to 40 cm
USDA Hardiness Zones: 7 to 9
 (0 to 25°F/-17 to -3°C minimum temperature)

Supplied as TunedSeeds.

Tall, free-flowering Verbena with open plant habit is grown primarily as an annual and used as a pretty accent plant or height divider in the border. Displays long-lasting, bright lilac-violet flowers.

VERONICA

VERONICA GENTIANOIDES

Ramona

Height: 10 to 12 in./25 to 30 cm
Spread: 14 to 16 in./35 to 40 cm
USDA Hardiness Zones: 4 to 7
 (-30 to 0°F/-34 to -18°C minimum temperatures)

Supplied as raw seed.

Ramona is a delight during Spring, with elegant spikes well-filled with light blue, dark-veined flowers. Can be used as an impulse item for Spring sales and sold green for perennial landscaping. Suitable for small to medium-size pot production.

VERONICA SPICATA

Blue Bouquet

Height: 12 in./30 cm
Spread: 12 in./30 cm
USDA Hardiness Zones: 5 to 8
 (-20 to 10°F/-29 to -12°C minimum temperatures)

A First Year-Flowering Perennial.
Supplied as easy-to-sow pelleted seed.

Versatile perennial bedding plant makes an excellent choice for landscapes, and also works well as a cut flower and a pot crop. Tapered blue spikes with many small florets top deep green foliage. Higher soil moisture and soil fertility levels have promoted increased stem length.

VIOLA

Eryln Series

Microla Series

Pierrot

Skippy Series

Valentine

See PanAmerican Seed, pages 182-183.



Award Winners



PowWow Wild Berry Echinacea

ALL-AMERICA SELECTIONS



Coreopsis Early Sunrise
 Digitalis Foxy
 Echinacea PowWow Wild Berry
 Gaillardia Mesa Yellow
 Lavandula Lavender Lady



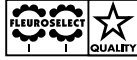
Mesa Yellow Gaillardia

FLEUROSELECT GOLD MEDAL



Armeria Ballerina Red
 Armeria Ballerina White
 Celosia Bombay Purple
 Celosia Bombay Yellow Gold
 Coreopsis Early Sunrise
 Coreopsis Rising Sun
 Gaillardia Mesa Yellow
 Lavandula Ellagance Purple
 Lavandula Ellagance Sky
 Lavatera Twins Hot Pink
 Monarda Bergamo

FLEUROSELECT QUALITY AWARD



Alyssum Luna
 Ammi Graceland
 Aquilegia Clementine Formula Mix
 Aquilegia Tower Light Blue
 Aquilegia Winky Single Red-White
 Aquilegia Winky Single Rose-Rose
 Armeria Joystick Lilac Shades
 Armeria Joystick Red
 Armeria Joystick White
 Asclepias Silky Gold
 Bellis Bellissima Rose
 Bellis Bellissima Rose Bicolour
 Bellis Bellissima White
 Celosia Punky Red
 Celosia Spiky Pink
 Celosia Startrek Rose Pink
 Coreopsis Sunfire
 Gomphrena QIS Carmine
 Lavandula Ellagance Ice
 Lavatera Twins Cool White
 Nepeta Pink Cat
 Penstemon Tubular Bells Rose
 Penstemon Navigator
 Salvia Patio Deep Blue
 Salvia Patio Pink
 Salvia Patio Sky Blue
 Sanvitalia Orange Sprite

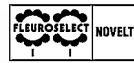


Winky Double Red-White Aquilegia



Ellagance Ice Lavandula

FLEUROSELECT NOVELTY



Ageratum Red Sea
 Aquilegia Clementine Blue
 Aquilegia Clementine Dark Purple
 Aquilegia Clementine Rose
 Aquilegia Clementine Salmon Rose
 Aquilegia Tower Dark Blue
 Aquilegia Tower Light Pink
 Aquilegia Tower White
 Aquilegia Winky Single
 Early Sky Blue
 Aquilegia Winky Double Red-White
 Aquilegia Winky Double White-White
 Armeria Ballerina Lilac
 Celosia Madras Scarlet
 Digitalis Dalmatian Purple
 Heuchera Malachite
 Heuchera Melting Fire
 Lavandula Ellagance Snow
 Penstemon Tubular Bells Red
 Penstemon Tubular Bells Wine Red With White Throat
 Penstemon Carillo Purple
 Penstemon Carillo Rose
 Rudbeckia Moreno
 Salvia New Dimension Blue
 Salvia New Dimension Rose
 Salvia Patio Lilac
 Sanvitalia Vanilla Sprite
 Silene Starry Dreams

ROYAL HORTICULTURAL SOCIETY AWARD OF GARDEN MERIT

Aquilegia Songbird Bunting
 Aquilegia Songbird Dove
 Aquilegia Swan Burgundy and White
 Aquilegia Swan Yellow

EUROPEAN COMMUNITY PLANT VARIETY RIGHTS

Celosia Bombay Fidor (EU17179)
 Celosia Bombay Figo (EU16690)
 Celosia Bombay Firosa (EU16689)
 Celosia Bombay Purple (EU1458)
 Erysimum Citrona Orange (EU 21394)
 Erysimum Citrona Yellow (EU 21395)
 Heuchera Melting Fire (EU 20557)
 Lavandula Lavance (EU 17706)
 Scabiosa Blue Note (EU 27547)

EUROPEAN COMMUNITY PLANT VARIETY RIGHTS APPLIED FOR

Echinacea PowWow Wild Berry

U.S. UTILITY PATENT APPLIED FOR

Echinacea PowWow Wild Berry

U.S. PLANT VARIETY PROTECTIONS

Erysimum Citrona Orange –
 USPVP 200600167
 Erysimum Citrona Yellow –
 USPVP 200600168
 Myosotis Mon Amie Blue –
 USPVP 200800070



Songbird Bunting Aquilegia

Index

PanAmerican Seed varieties 1 – 192
Kieft-Pro-Seeds varieties 193 – 251

Abutilon 3
 Acanthus 193
 Acmea See Spilanthes
 Agastache 193
 Ageratum 3, 193
 Alcea 193
 Alchemilla 194
 Alstroemeria 4
 Alternanthera 4
 Alyssum 5, 194
 Amaranthus 194
 Ammi 195
 Anacyclus 195
 Anchusa 195
 Anemanthele 28
 Anemone 8, 195
 Anethum See Dill
 Angelonia 10
 Antirrhinum See Snapdragon
 Aquilegia 196
 Arabis 200
 Arenaria 200
 Armeria 201
 Aruncus 202
 Asclepias 202
 Asparagus 12
 Aster 9
 Award Winners . . . 188, 251

Bergenia 204
 Bracteantha See Helichrysum
 Brazilian Fireworks 16
 Browallia 16
 Bupleurum 204
 Calceolaria 204
 Callistephus See Aster
 Campanula 204
 Capsicum See Ornamental Pepper
 Carex 28
 Carthamus 205
 Catananche 205
 Catharanthus See Vinca
 Celosia 17, 206
 Chaenorhinum 211



Cool Season Production Solutions 100

Chiastophyllum 211
 Cineraria See Dusty Miller
 Circle of Life EcolIndex . . . 191
 Clematis 211
 Cobaea 18
 Coleus 19
 ColorGrass 25
 Cool Season Chart 100
 Coreopsis 212
 Cortaderia 214
 Corynephorus 28
 Cosmos 31
 Craspedia 214
 Crossandra 31
 Cuphea 32
 Cyclamen 32

Dahlia 33
 Delphinium 214
 Deschampsia 33
 Dianthus 34, 217
 Diascia 40
 Dichondra 40
 Digitalis 218
 Dill 165
 Dusty Miller 41



PowWow Echinacea 220

Echinacea 219
 EcolIndex 191
 Eragrostis 28
 Erigeron 222
 Erysimum 222
 Eucalyptus 222
 Euphorbia 223
 Eustoma See Lisianthus
 Fantastic Foliage 42
 Festuca 29
 Fiber Optic Grass See Isolepis
 Fragaria See Strawberry
 Fuseables 46

Gaillardia 223
 Gaultheria 223
 Gaura 223
 Gazania 50
 Geranium sanguinem 223
 Geranium, Ivy 52
 Geranium, Open-Pollinated 53
 Gerbera 226
 Gomphrena 53, 230
 Grasses See ColorGrass
 Gypsophila 230
 Helenium 54
 Helianthus 54, 231
 Helichrysum 55
 Herbs 165
 Heuchera 232
 Hibiscus 56, 233
 Hollyhock See Alcea
 Hypoestes 56
 Iberis 234
 Impatiens 57
 Impatiens, New Guinea 66
 Incarvillea 234
 Iresine 69
 Isolepis 29
 Isotoma 69
 Juncus 29, 70
 Koeleria 30
 Laurentia See Isotoma
 Lavandula 235
 Lavatera 237
 Lavender 235
 Lettuce & Greens See SimplySalad
 Leycesteria 70
 Limonium 237
 Linaria 70
 Lisianthus 71
 Lobelia 75, 239



Bombay Celosia 206

Bacopa 12
 Barbarea 203
 Basil 165
 Begonia 13
 Bellis 203
 Bells of Ireland See Molucella



Fantastic Foliage 42



Fuseables 46

Lobularia See Alyssum
 Lupinus 239
 Luzula 30
 Lycopersicum See Tomato
 Lysimachia 239
 Marigold 78
 Matricaria 87
 Matthiola 88
 Melampodium 94
 Millet, Ornamental 94
 Mimosa 239
 Mimulus 240
 Moluccella 240
 Monarda 240
 Multi-Species Multi-Pellets
 46, 149
 Myosotis 241
 Nasturtium See Tropaeolum
 Nemesia 96
 Nepeta 242
 New Guinea Impatiens 66
 Nicotiana 97
 Nierembergia 97

Osteospermum 98
 Pansy 102
 Papaver 242
 Patent Information 190
 Pelargonium See Geranium
 Pennisetum glaucum
 See Ornamental Millet
 Penstemon 242
 Pentas 113
 Pepper 165
 Pepper, Ornamental 114
 Perovskia 244
 Petunia 117
 Phlox 139
 Platycodon 244
 Plectranthus 141



Revolution Gerbera 226

Plumbago 141
 Polemonium 245
 Poppy See Papaver
 Porphyrocoma
 See Brazilian Fireworks
 Portulaca 142
 Primula 145, 245



Wave Petunias 117



XP Varieties 168

Pulsatilla 245
 Purslane 146
 Rudbeckia 245
 Ruellia 146
 Sagina 246
 Salvia 147, 246
 Sanvitalia 247
 Saxifraga 247
 Scabiosa 248
 Stipa 30
 Stock See Matthiola
 Strawberry 159
 Strawflower
 See Helichrysum
 Sunflower See Helianthus
 Sutera See Bacopa
 Sweet William
 See Dianthus



Impatiens Production Solutions 57

Tagetes See Marigold
 Talinum 159
 Tanacetum See Matricaria
 Tecoma 160
 Thunbergia 160
 Thymophylla 249
 Tiarella 249
 Tomato 166
 Torenia 161
 Trachelium 162
 Tropaeolum 249
 Vegetables 164
 Verbascum 250
 Verbena 167, 250
 Veronica 250
 Vinca 170
 Viola 178
 Wave Petunia 117
 XP Varieties 168
 Zinnia 183

Schizanthus 148
 Scutellaria 148
 Silene 248
 SimplySalad 149
 Single-Species Multi-Pellets
 46
 Sisyrinchium 248
 Snapdragon 150
 Spilanthes 159
 Stachys 249
 Statice See Limonium



Contact your preferred supplier to order
PanAmerican Seed and Kieft-Pro-Seeds products.

622 Town Road
West Chicago, Illinois 60185-2698
USA
630 231-1400
800 231-7065
Fax: 630 293-2557

P.O. Box 63
1606 ZH Venhuizen, The Netherlands
+31 (0)228 54 1844
Fax: +31 (0)228 54 3440

panamseed.com kieft-pro-seeds.com

Pictured: Easy Wave™, Tidal Wave™ and
Wave™ Spreading Petunias. Page 117.

© 2011 Ball Horticultural Company PAS11002
♻️ Printed in the U.S. on 10% post-consumer recycled paper with soy-based inks.
™ denotes a trademark and ® denotes a registered trademark, of either Ball Horticultural Company
or Kieft Bloemzaden B.V. in the U.S., which may also be registered in other countries.

PanAmerican Seed™



Kieft-Pro-Seeds