

WELCOME TO THE 2017 DARWIN PERENNIALS LINE-UP

These varieties reflect our market's unprecedented resurgence in the retail, landscape and nursery segments and the lasting value that perennials offer. That's why we're proud to call them Perennials with Staying Power™!

Check out exciting new introductions that represent the best in class of hardy and tender perennials, especially the new **UpTick Coreopsis** series on page VII. UpTick promises to re-invent the hardy Coreopsis class with large, striking flowers and excellent hardiness to USDA Zone 5.

Don't miss our new hardy **Penstemons, MissionBells Deep Rose** and **Cherry Sparks**, on pages 51 and 49.
Beautiful, bell-shaped flowers combine Summerlong color with excellent container performance. Heat tolerance and Summerlong flowering are the hallmarks of our new **Mirage** series of tender **Salvia** greggii on page 65. Nine bold colors provide instant color throughout the South.

We are pleased to have the Star Roses & Plants sales team represent our program to the nursery market. This catalog features our entire line-up of perennials from our own development efforts plus the best of the rest in the industry. **Salvia Lyrical Blues** is a significant improvement over the standby, Salvia May Night. See our industry-leading **Echinaceas** (**Sombrero** and **Double Scoop**) plus the extensive assortment from Darwin Colombia. All are available as liners; check with your Star Roses and Plants sales rep for more details.

Your success is our success. We're committed to bringing you the best, Perennials With Staying Power, coupled with our Darwin Perennials team of customer service and technical support. We look forward to growing the perennial business with you!

Sincerely,

Mike Klopmever, General Mai

Mike Klopmeyer, General Manager 630 588-3107, mklopmeyer@ballhort.com





DARWIN PERENNIALS® VARIETIES

Achillea	1–3
Agastache	4
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See inside back cover for full product listing.

DarwinPerennials.

DARWIN TEAM WITH YOUALL THE WAY

MEET YOUR
DARWIN
PERENNIALS
TEAM...
PLANT-LOVING
PROFESSIONALS
DEDICATED TO
YOUR GROWING
AND SELLING
SUCCESS!



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STAR® ROSES AND PLANTS PERENNIALS ARE NOW DARWIN PERENNIALS

IN 2015, THIS EXCITING ACQUISITION INCORPORATED A STELLAR PERENNIALS LINE INTO THE DARWIN PERENNIALS PORTFOLIO.

Our similar philosophies on product development and the introduction of high-quality vegetatively propagated materials makes this a winning match for everyone involved...including you! Here's what this merger means for you:

More breeders on staff focusing on vegetative perennials in key product classes, to bring you a wider selection of in-demand products and new genetics.

Directed breeding with distinct goals of providing practical solutions to our grower customers and outstanding performance to home gardeners.

A rigorous trialing and selection process using container trial locations in all regions of the U.S., to ensure the best performance everywhere.

Garden trial performance in locations across the U.S., so you can grow and sell with complete confidence.

A dedicated team of industry veterans

knowledgeable in herbaceous perennial performance to evaluate and select new products to grow your

Leading genetics totaling 25 varieties from this portfolio, including Penstemon Rock Candy®, Moody Blues® Veronica and Nepeta Junior Walker.

Additional firepower from Star Roses' New Product Development team in trialing our products for the ultimate in performance.

New, dedicated East Coast trialing location in West Grove, PA for the entire lineup of Darwin Perennials genetics.



Achillea Moon Dust, p. 1



Caryopteris Grand Bleu, p. 14



Nepeta Junior Walker, p. 46



Coreopsis Little Bird, p. 16



Penstemon Rock Candy, p. 50-51



Penstemon Amethyst Quartz, p. 49



Penstemon Rose Quartz n. 49



Perovskia Little Lace, p. 52



Veronica Moody Blues Mauve, p. 83

BLOOMS OF BRESSINGHAM

TRIED & TRUSTED™

Blooms of Bressingham varieties are tested for years – in gardens and pot trials – at secure trial sites, leading perennial growers, universities and botanical gardens throughout North America. These comprehensive trials establish reliability and provide valuable information on regional performance, ensuring satisfaction for you and your customers.

Check out these Bressingham beauties:

Achillea 'Little Moonshine', p. 2. Very early-blooming, compact version of 'Moonshine.'

Achillea Seduction Series, p. 2. Heat-loving plants with no meltdown.

Coreopsis 'Creme Brulee', p. 17. Upgrades the standard for threadleaf-type Coreopsis.

Leucanthemum Freak!®, p. 40. Fluffy flowers make a real garden showstopper.

Rudbeckia 'Viette's Little Suzy', p. 61. Deep yellow flowers plus mahogany foliage in Fall.





Achillea 'Little Moonshine', p. 2



Achillea 'Strawberry Seduction', p. 2



Coreopsis 'Crème Brulee', p. 17



Leucanthemum Freak!, p. 40



Rudbeckia 'Viette's Little Suzy', p. 61



THE BEST OF THE REST

IN ADDITION TO OUR OWN
UNBEATABLE GENETICS, DARWIN
PERENNIALS BRINGS YOU THE FINEST
PERENNIALS ON THE MARKET FROM
OTHER LEADING BREEDERS. BUT
SOMETIMES WE HAVE OUR FAVORITES
FROM AMONG THOSE. BE SURE TO
CHECK OUT THESE NOTABLE VARIETIES
AND SERIES.

NEW Kudos Agastache (Terra Nova Nurseries, Inc.), p. 4–5. Six fiercely flowering varieties bred for lots of blooms on a mounded habit.

NEW Genti Campanula (Rene van Gaalen B.V.), p. 12–13. Beautiful, Winter-hardy series graces gardens with tons of Summer blooms.

NEW Wheels of Wonder™ Delosperma (Concept Plants B.V.), p. 21. Colorful, bigbloomed, drought-tolerant series lends Summer-long interest to rock gardens.

Gaudi™ Gaura (Florensis), p. 28. Incredibly vibrant blooms on a compact habit that's ideal for small containers.

Sensation™ Salvia (Florensis), p. 67. Nine compact and medium varieties join this series for rich displays of Summer color.



Agastache 'Kudos Mandarin', p. 4-5



Campanula Genti Twisterbell, p. 12–13



Delosperma Wheels of Wonder Golden, p. 21



Gaura Gaudi Red, p. 28



Salvia Sensation Compact Violet, p. 67



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FOR GROWERS

An industry first...the gro-getter® mobile app is take-it-with-you plant info, photos and culture for any crop in our catalogs. (grogetterapp.com)







FOR GARDENERS

Whether they want to show off their plants, or find something that will work in their garden... the GrowIt!® mobile app has something for every type of gardener. (growitmobile.com)





EXCLUSIVES FEATURING THE FINEST DARWIN PERENNIALS GENETICS

NEW UPTICK™ COREOPSIS

FOXLIGHT™ DIGITALIS

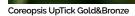
DOUBLE SCOOP™ ECHINACEA

SOMBRERO® ECHINACEA

SAI VIA 'BI UF MARVFI'

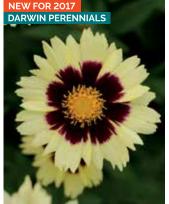








Coreopsis UpTick Yellow&Red



Coreopsis UpTick Cream&Red



Coreopsis UpTick Cream

COREOPSIS (TICKSEED)

Coreopsis hybrida

UPTICK™ SERIES

NEW FOR 2017

Height: 12 to 14 in. (30 to 35 cm) Bloom Months: May to September USDA Hardiness Zones: 5 to 9 Darwin Perennials

Easy-to-ship series has bigger flowers and longer blooming for more color at retail and in the garden.

- Tidy, mounded habit is easier to ship and shows better at retail.

- Keeps its shape and color in the landscape all Summer long.
 Cream is a clean, creamy white that's much sought-after for landscape design.
- · Low maintenance and very mildewresistant.

UpTick Gold&Bronze had outstanding grower trial results in 2016 – see darwinperennials.com for details.

Cream 'Balupteam' PPAF Cream&Red 'Balupteamed' PPAF Gold&Bronze 'Baluptgonz' PPAF Yellow&Red 'Baluptowed' PPAF







Digitalis Foxlight Plum Gold



Digitalis Foxlight Ruby Glow

DIGITALIS (FOXGLOVE) Digitalis x hybrida

FOXLIGHT™ SERIES

Height: 22 to 24 in. (56 to 60 cm) **Bloom Months:** April to September; Natural season flowering
USDA Hardiness Zones: 7 to 10 Darwin Perennials

Three bold novelty colors boost retail appeal and drive impulse sales.

- Lower input costs provide greater profit margin at wholesale and retail.
 First-year-flowering perennial needs no bulking for full plants.

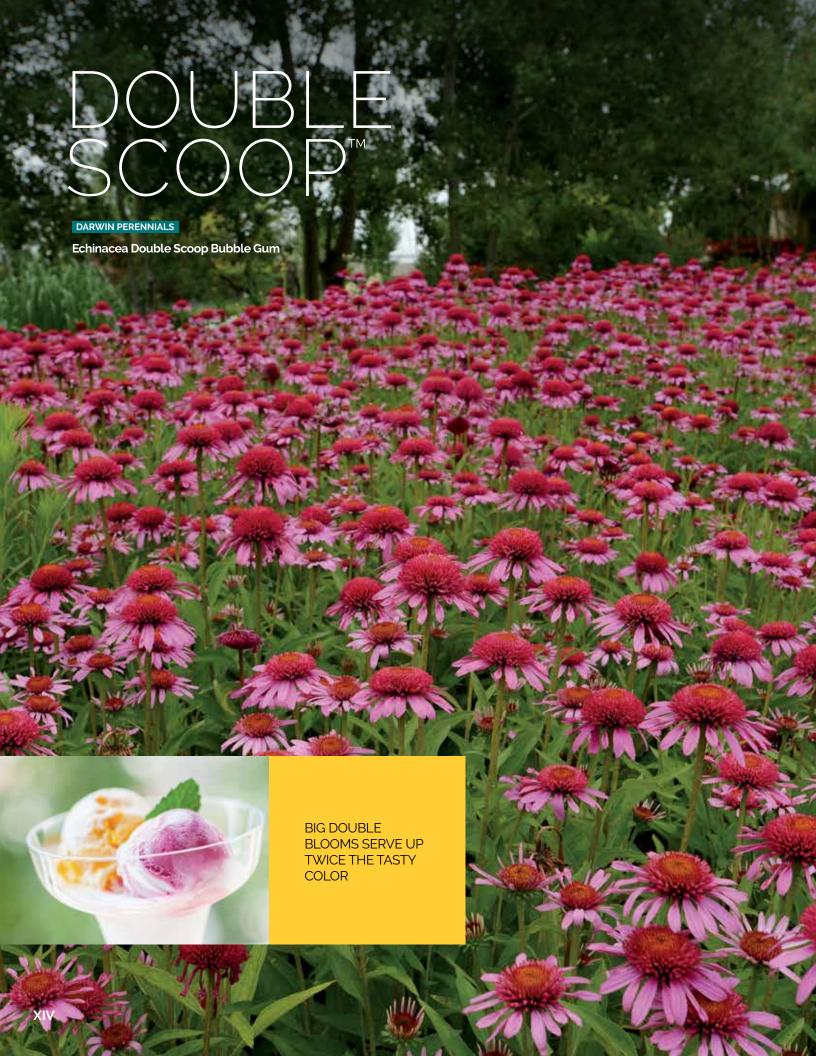
- More compact than competing varieties, with deeper green foliage.
- Blooms all Summer long, with outward-facing flowers for better retail show.

Plum Gold 'Takfopglo' PP26,586 Rose Ivory 'Takforoiv' PP26,554 Ruby Glow 'Takforugl' PP25,640

Digitalis Foxlight Ruby Glow Digitalis Foxlight Rose Ivory

DARWIN PERENNIALS







DARWIN PERENNIALS Echinacea Double Scoop Mandarin



Echinacea Double Scoop Raspberry



Echinacea Double Scoop Bubble Gum



Echinacea Double Scoop Cranberry



Echinacea Double Scoop Lemon Cream



Echinacea Double Scoop Orangeberry

ECHINACEA O (CONEFLOWER) Echinacea x hybrida DOUBLE SCOOP™ SERIES

Height: 22 to 24 in. (56 to 60 cm) **Bloom Months:** June to August **USDA Hardiness Zones:** 4 to 9 Available as tissue culture-raised liners Darwin Perennials

Abundant, fully double flowers boast brilliant, non-fading color.

- Very hardy plants overwinter well and provide long-lasting garden enjoyment. • First-rate branching for more flowers and superior show at retail.
- More compact than the competition.
- · Lemon Cream opens yellow and matures to a rich cream, with Double Scoop's excellent branching and flower power – proven Zone 4 Winter hardiness, too!

Bubble Gum 'Balscblum' PP23,103; US7,982,110

Cranberry 'Balscanery' PP24,769; US7,982,110 Lemon Cream 'Balsclemc' PPAF; US7,982,110 Mandarin 'Balscandin' PP26,640; US7,982,110 Orangeberry 'Balscoberr' PP23,145;

Raspberry 'Balsceras' PP23,117; US7,982,110



Echinacea Double Scoop Mandarin





Echinacea Sombrero Baja Burgundy



Echinacea Sombrero Salsa Red



Echinacea Sombrero Flamenco Orange



Echinacea Sombrero Adobe Orange



Echinacea Sombrero Hot Coral



Echinacea Sombrero Lemon Yellow



Echinacea Sombrero Sandy Yellow



Echinacea Sombrero Blanco



SOMBRERO® SERIES

Height: 22 to 24 in. (56 to 60 cm) Bloom Months: June to August USDA Hardiness Zones: 4 to 9 Available as tissue culture-raised liners Darwin Perennials

Sombrero's vibrant colors are matched by its exceptional Winter hardiness and excellent branching.

- Highly floriferous series is naturally well-branched and compact for easy shipping.
- Excellent retail presentation, commanding a premium price.
 Well-matched in habit and timing.
- Plant Sombrero in the Spring and sell
- it the same year.

Adobe Orange 'Balsomador' PP26,639; US7,982,110

Baja Burgundy 'Balsombabur' PPAF;

Blanco 'Balsomblanc'

Flamenco Orange 'Balsomenco' PP25,523; US7,982,110

Hot Coral 'Balsomocor' PP23,097; US7,982,110

Lemon Yellow 'Balsomemy' PP24,768;

7,982,110

Salsa Red 'Balsomsed' PP23,105; US7,982,110 Sandy Yellow 'Balsomselo' PP23,104; US7,982,110



DARWIN PERENNIALS
Echinacea Sombrero Salsa Red

DARWIN PERENNIALS
Echinacea Sombrero Blanco





Salvia nemorosa

'BLUE MARVEL'

Height: 10 to 12 in. (30 to 35 cm) Bloom Months: March to September USDA Hardiness Zones: 4 to 9 Darwin Perennials

PPAF

The largest flowers of any S. nemorosa!

- Innovative variety can be finished as a first-year-flowering perennial.
- · No PGRs needed!
- Outstanding habit and reliable reblooming for landscapes and container gardening.
- Ideal for positioning as a premium perennial item for a greater profit margin opportunity.







PERENNIAL TALES: HEALING PLANTS

Digitalis (p. XII-XIII)

For many years, herbalists have used Digitalis to treat skin sores. In the late 1700s, Dr. W. Withering, a British physician, noted that small amounts of the plant helped with heart problems. This led to its widespread use for cardiac issues. The active ingredient, *digitalin*, is still prescribed today to treat congestive heart failure and heart rhythm problems and can help improve blood circulation.

Echinacea (p. XIV-XVII)

Archaeologists have found evidence that Native Americans may have used Echinacea for more than 400 years to treat infections and wounds, and as a general "cure-all." Throughout history people have used Echinacea to treat scarlet fever, malaria, blood poisoning and diphtheria. Today it is used to shorten the duration and reduce symptoms of the common cold and flu. Herbalists recommend Echinacea to help boost the immune system and help fight infections.

Achillea (p. 1-3)

Named after the Greek warrior Achilles, Achillea is also known as woundwort. It is said that Achilles used a poultice of the plant's leaves to staunch minor wounds of his soldiers. This plant is still used to help heal cuts, scratches, rashes and burns, and to stop the bleeding of minor cuts.

Much of the information above is from Dr. Allan M. Armitage, Professor Emeritus of Horticulture, UGA, and author of *It's Not Just About The Hat, Herbaceous Perennial Plants (3rd ed)*. Website: www.allanarmitage.net





Heuchera 'Carnival Black Olive'



Heuchera 'Carnival Candy Apple'



Heuchera 'Carnival Cocomint'



Heuchera 'Carnival Coffee Bean'



Heuchera 'Carnival Fall Festival'



Heuchera 'Carnival Plum Crazy'



Heuchera 'Carnival Rose Granita'



Heuchera 'Carnival Silver Streak'



Watermelon'



Keeps its striking coloration all the way to the garden!

HEUCHERA 🕕 🌑 (CORAL BELLS) Heuchera x hybrida

CARNIVAL SERIES

Height: 10 to 12 in. (25 to 30 cm) Bloom Months: April to May USDA Hardiness Zones: 4 to 9 Available as tissue culture-raised liners; contact your rep for more details. Darwin Perennials

Finally - outstanding, bright Heuchera that are well-matched and affordable!

- · Incredible color assortment of wellmatched varieties with distinct leaf venation.
- · Hybrid varieties have H. villosa parentage for excellent heat tolerance and better garden performance.
- Series is great for one-gallon programs and shade mixed containers.
- Mounding habits are also brilliant in shady landscapes.
- Carnival tissue culture-raised liners finish more quickly and uniformly.

'Carnival Black Olive' 'Carnival Candy Apple' 'Carnival Cocomint' PP24,927 'Carnival Coffee Bean' PP24,943 'Carnival Fall Festival' 'Carnival Limeade' PP24,899 'Carnival Peach Parfait' PP24,928 'Carnival Plum Crazy' PP24,771 'Carnival Rose Granita' 'Carnival Silver Streak' PP24.770 'Carnival Watermelon' PP24,803



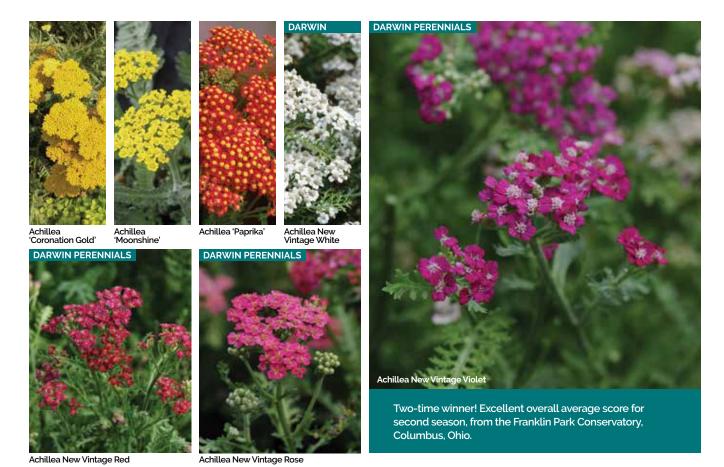
'FROSTY MORN'

Height: 8 to 10 in. (20 to 25 cm) Bloom Months: May to June USDA Hardiness Zones: 4 to 9 Available as tissue culture-raised liners; contact your rep for more details. Darwin Perennials

- Consistent, stable variegation won't revert to green
- · Eye-catching foliage has big consumer appeal.
- Does well in mixed shade containers and shady gardens.
- · Bright red flowers.

A-Z LISTING

FROM ACHILLEA TO WALDSTEINIA. NEARLY 600 UNROOTED. IN-DEMAND VARIETIES TO SATISEY YOUR FXPANDING PERENNIALS MARKET





ACHILLEA (YARROW)

Achillea

'CORONATION GOLD'

Height: 36 in. (90 cm)
Bloom Months: Mid-June to July
USDA Hardiness Zones: 3 to 9

Large, deep yellow heads, excellent for

'MOONSHINE'

Height: 18 to 24 in. (45 to 60 cm) Bloom Months: June to September USDA Hardiness Zones: 4 to 8 Blooms of Bressingham

- ${\bf \cdot}$ Bright yellow flowers over silvery foliage.
- Wide heads come in early Summer and are slow to fade.
- If cut back, more leaves and sometimes flowers appear later.

ACHILLEA (YARROW)

Achillea hybrid

MOON DUST

Height: 12 to 14 in. (30 to 35 cm) Bloom Months: June to July USDA Hardiness Zones: 5 to 8 Darwin Perennials 'Novaachdus' PP25.838

- · Soft yellow blooms.
- Silvery green foliage.
- Blends well with other colors in the garden.

ACHILLEA (YARROW)

Achillea millefolium

'PAPRIKA'

Height: 24 to 30 in. (60 to 75 cm) **Bloom Months:** June to September **USDA Hardiness Zones:** 3 to 9

Low, spreading plants have red blooms with yellow centers; gray-green, fernlike foliage.

ACHILLEA (YARROW)

Achillea millefolium

NEW VINTAGE™ SERIES

Height: 12 to 14 in. (30 to 35 cm) Bloom Months: June to July USDA Hardiness Zones: 4 to 9 Darwin Perennials

- Tidy plant habit with no gap between foliage and flowers outstanding in containers.
- Bold colors mature to attractive shades instead of fading to brown like other varieties.
- Great for late-Spring one-gallon programs.

Red 'Balvinred' PP25,618 Rose 'Balvinrose' PP25,712 Violet 'Balvinolet' PP25,750 White 'Balvinwite' PP25,711

Compact habit is perfect for containers.



Achillea Little Moonshine



Achillea Tutti Frutti 'Pomegranate'



Achillea Tutti Frutti 'Pink Grapefruit'





Achillea 'Peachy Seduction'



Achillea Tutti Frutti 'Apricot Delight'



Achillea Tutti Frutti 'Wonderful Wampee'









LITTLE MOONSHINE

Height: 12 to 14 in. (30 to 35 cm) Bloom Months: June to September USDA Hardiness Zones: 4 to 8 Blooms of Bressingham

- · Bright, golden-yellow flower clusters.
- · Similar to 'Moonshine' but more compact.
- Gray-green foliage and very earlyblooming.

SEDUCTION SERIES

Height: 23 to 27 in. (58 to 68 cm) Bloom Months: Mid-June to July **USDA Hardiness Zones**: 4 to 8 Blooms of Bressingham

Excellent flowering uniformity with remarkably dense columnar habit.

'Peachy Seduction' PP22,262 'Saucy Seduction' PP20,782 'Strawberry Seduction' PP18,401 'Sunny Seduction' PP20,808

TUTTI FRUTTI SERIES

Height: 22 to 29 in. (56 to 74 cm) Bloom Months: Mid-June to July USDA Hardiness Zones: 4 to 8 Blooms of Bressingham

Outstanding compact habit is sturdy and full, with excellent flowering uniformity.

'Apricot Delight' PP18,738 'Pink Grapefruit' PP20,741 'Pomegranate' PP20,763 'Wonderful Wampee' PP18,760

(YARROW)

Achillea millefolium

SONG SIREN™ COLLECTION Height: 20 to 22 in. (50 to 55 cm) Bloom Months: June to July

USDA Hardiness Zones: 4 to 9 Darwin Perennials

- · Rich color selection in a garden-height Achillea.
- Color holds up well in the garden.
- · Ideal for one- or two-gallon Summer programs.

'Laura' 'Layla' 'Little Susie' 'Pretty Woman'

'Angie'

ACHILLEA 🖯 (YARROW)

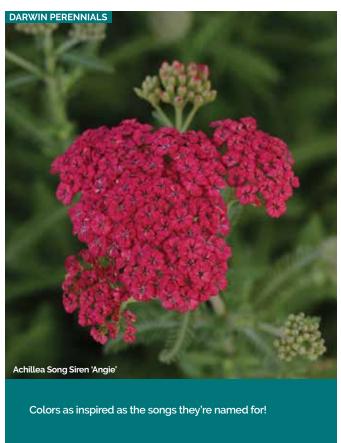
Achillea tomentosa

'KING EDWARD'

Height: 6 to 10 in. (15 to 25 cm) Bloom Months: Mid-June to July **USDA Hardiness Zones:** 3 to 8

Pale primrose-yellow flowers over wooly

2





Achillea Song Siren 'Pretty Woman'





Achillea Song Siren 'Laura'

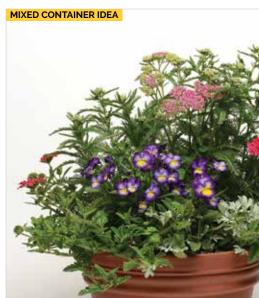
Achillea Song Siren 'Layla'



Achillea Song Siren 'Little Susie'



Achillea 'King Edward'



AEGOPODIUM O (GOUTWEED) Aegopodium podagraria

'VARIEGATUM'

Height: 8 to 10 in. (20 to 25 cm) Bloom Months: Summer USDA Hardiness Zones: 4 to 9

Green and white variegated groundcover with lacy, creamy white flowers.



Aegopodium 'Variegatum'

Perennial Mixed Container suggestion: Song Siren 'Layla' Achillea, 'Silver Brocade' Artemisia, 'Halo Violet' Viola and EnduraScape™ Hot Pink Verbena

DARWIN PERENNIALS Agastache 'Little Adder'

Agastache 'Blue Boa



Agastache 'Blue Fortune'



Agastache 'Kudos Silver Blue'



Agastache 'Kudos Coral'

AGASTACHE 🔾 🕕 (ANISE HYSSOP)

Agastache rugosa

'LITTLE ADDER'

Height: 15 to 18 in. (38 to 45 cm) Bloom Months: June to September **USDA Hardiness Zones:** 5 to 9 Darwin Perennials

- · Half the height of 'Black Adder' or 'Blue Fortune,' with better branching.
- · Three times the blooms of 'Black Adder' for three times the flower power.

• Great show at retail and in the garden for better sell-through and repeat sales.

AGASTACHE (MEXICAN HYSSOP)

Agastache hybrid

'BLUE BOA'

Height: 32 in. (80 cm) Bloom Months: June to September USDA Hardiness Zones: 5 to 10 Terra Nova Nurseries, Inc. PP24,050

Highly floriferous, with thick purple flower spikes and violet-blue blooms.

'BLUE FORTUNE'

Height: 24 to 36 in. (60 to 90 cm) Bloom Months: June to September USDA Hardiness Zones: 6 to 9

Tall spikes of soft blue flowers with fragrant foliage.

KUDOS SERIES

NEW FOR 2017

Height: 20 to 26 in. (50 to 66 cm) Bloom Months: June to September USDA Hardiness Zones: 5 to 10 Terra Nova® Nurseries, Inc.

- Uniform, genetically dwarf series with well-branched, mounded habit.
- · Resists downy mildew.
- · Lots of blooms with Summer-long impact.

'Kudos Ambrosia' PP25,614 'Kudos Coral' PP25,613 'Kudos Gold' PP26,410 'Kudos Mandarin' PP25,381 'Kudos Silver Blue' PP25,344 'Kudos Yellow' PP26,563

'PURPLE HAZE'

Height: 38 in. (96 cm) Bloom Months: June to September USDA Hardiness Zones: 6 to 10

Cool violet-blue flowers last into Fall.

Mint family member is an outstanding source of nectar for

bees and butterflies.



Agastache 'Kudos Mandarin'



Agastache 'Kudos Ambrosia'



Agastache 'Kudos Yellow'



Agastache 'Kudos Gold'



Agastache 'Purple Haze'



ATTRACT POLLINATORS!

Darwin Perennials offers a number of varieties that appeal to bees and other pollinators. These varieties have been identified by research as beneficial to pollinators.

Agastache 'Little Adder' and **Kudos Series** (p. 4–5)

Aster 'Purple Dome' (p. 10)

Boltonia Jim Crockett (p. 10)

Buddleia Cran Razz and **Flutterby Petite® Series** (p. 11–12)

Caryopteris Good as Gold (p. 14)

Centaurea 'Lavender Mist' (p. 15)

Eupatorium 'Little Joe' (p. 23)

Gaillardia Gallo™ Series (p. 26-27)

Geranium 'Miss Heidi' (p. 30)

Heliopsis 'Sunstruck' and **'Double Sunstruck'** (p. 31)

Monarda Balmy™ Series (p. 44-45)

Penstemon 'Dark Towers' and **'Prairie Twilight'** and **Penstemon digitalis varieties** (p. 48–49)

Phlox paniculata Garden Phlox varieties (p. 53)

Phlox divaricata Woodland Phlox varieties (p. 53)

Phlox stolonifera Creeping Phlox varieties (p. 54)

Rhodanthemum 'Casablanca' and **'Marrakech'** (p. 59)

Rudbeckia 'Viette's Little Suzy' (p. 61)

Salvia 'Radio Red' (p. 62)

Impress customers who are concerned about the environment and crop productivity by promoting Darwin Perennials varieties that attract pollinators!





Ajuga 'Black Scallop'



Ajuga 'Bronze Beauty



Ajuga 'Burgundy Glow



Ajuga 'Catlin's Giant'



Ajuga 'Mahogany'



Ajuga 'Pink Lightning'



Ajuga 'Silver Queen'





'METALLICA CRISPA'

Height: 6 in. (15 cm) Bloom Months: May to June USDA Hardiness Zones: 3 to 9

Blue flowers on cushions of curled, purple-bronze leaves with a metallic



'BLACK SCALLOP'

Height: 6 in. (15 cm) Bloom Months: May to June USDA Hardiness Zones: $4\ to\ 9$ PlantHaven, Inc.

PP15,815

Compact habit shows off shiny, nearly black leaves with neat, scalloped edges and violet-blue flowers.

'BRONZE BEAUTY'

Height: 8 in. (20 cm) Bloom Months: May to June USDA Hardiness Zones: 3 to 9

Deep bronze foliage topped by blue

'BURGUNDY GLOW'

Height: 3 to 6 in. (7 to 15 cm) Bloom Months: May to June USDA Hardiness Zones: 3 to 9

Blue flowers on pink and silver variegated leaves splashed with purple.

'CATLIN'S GIANT'

Height: 8 to 10 in. (20 to 25 cm) Bloom Months: May to June USDA Hardiness Zones: 3 to 9

Robust grower with bold leaves and large, dark purple flowers.

'MAHOGANY'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: May to June USDA Hardiness Zones: 3 to 9

Dark burgundy to black foliage with

'PINK LIGHTNING'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: May to June USDA Hardiness Zones: 3 to 9Sunny Border Nursery

Green and white variegated leaves with soft pink flower spikes.

flower spikes.



Perennial Mixed Container suggestion: Touch Of Class Polemonium, Swirling Fantasy Heuchera, 'Chocolate Chip' Ajuga



Ajuga 'Chocolate Chip



Ajuga 'Dixie Chip



Ajuga 'Mint Chip'



Amsonia 'Blue Ice'



Height: 6 in. (15 cm) Bloom Months: May to June USDA Hardiness Zones: 3 to 9

Blue flower spikes over white and green variegated leaves.



'CHOCOLATE CHIP'

Height: 4 in. (10 cm) Bloom Months: May to June USDA Hardiness Zones: 3 to 9

Dwarf form with narrow chocolatecolored leaves and blue flowers.

'DIXIE CHIP'

Height: 3 in. (7 cm) Bloom Months: May to June **USDA Hardiness Zones:** 3 to 9 ItSaul Plants LLC

Unique, multi-colored foliage with brilliant blue flowers; spreading habit.

'MINT CHIP'

Height: 3 in. (7 cm) Bloom Months: May to June **USDA Hardiness Zones**: 4 to 9 ItSaul Plants LLC

Narrow, deep green leaves are covered with brilliant blue flowers in Spring

AMSONIA 💛 🕕 (BLUE STAR)

Amsonia x hybrida

'BLUE ICE'

Height: 16 in. (40 cm) Bloom Months: May to June **USDA Hardiness Zones:** 4 to 9

Starry blue blooms against narrow, bright green leaves that turn yellow in Fall.



NEW RHYTHMIX™ COMBOS DELIVER EASY STEPS OR GROWING

Expand your premium offerings with unique, easy-care **RhythMix™** perennial combos from Darwin Perennials. Perfectly choreographed for dramatic designs, these colorful combos let you take the lead with easy scheduling, growing and shipping.

Featuring popular vegetative and seed varieties, each one of the RhythMix Combos has undergone thorough trials and has been carefully selected, keeping your needs in mind.

Want to get creative? Make your own perennial combos! See our suggestions on pages 3 and 6.

The bottom line: RhythMix Combos help you manage costs, put on a good show of color at retail and give gardeners long-lasting flower power through Summer heat.

RhythMix liners are available to meet key finish dates - you'll find combo photos and variety lists, supplier info and more at darwinperennials.com/ rhythmix.





Works well in mixed containers!

ALYSSUM 🔵 Alyssum wulfenianum

'GOLDEN SPRING'

Height: 6 to 8 in. (15 to 20 cm) Bloom Months: April to May USDA Hardiness Zones: 4 to 9 Darwin Perennials PP25.710

Exciting season extender brings a fresh class of "WOW" to the early-Spring flowering group.

- The first vegetative Alyssum of this species, with the largest flowers of its
- Easy-to-grow, heat-loving, pest-free, hardy perennial.
 Evergreen foliage.



Armeria 'Nifty Thrifty'



Armeria 'Rubrifolia'



Artemesia French Tarragon



Artemesia 'Silver Brocade'



Artemesia 'Powis Castle'

ARMERIA (THRIFT, SEA PINKS)

Armeria maritima

'NIFTY THRIFTY'

Height: 8 to 10 in. (20 to 25 cm) **Bloom Months:** May to July **USDA Hardiness Zones:** 4 to 8

Compact green foliage with cream edges, rose-red globular flowers.

'RUBRIFOLIA'

Height: 4 in. (10 cm) **Bloom Months:** May to July **USDA Hardiness Zones:** 4 to 8

Pink globe flowers over thin green foliage that turns red-purple in Fall.

ARTEMISIA (WORMWOOD)

Artemisia arborescens

'POWIS CASTLE'

Height: 24 to 30 in. (60 to 75 cm) **Bloom Months:** July **USDA Hardiness Zones:** 5 to 9

Features fine-textured, lacy silver foliage spikes that grow mounded and upright.

ARTEMISIA (WORMWOOD)

Artemisia dracunculus sativa

FRENCH TARRAGON

Height: to 36 in. (90 cm) **Bloom Months:** Non-flowering **USDA Hardiness Zones:** 3 to 7

This true French tarragon brings a distinct anise scent to perennial and herb gardens.

ARTEMISIA (WORMWOOD)

Artemisia schmidtiana

'SILVER MOUND'

Height: 6 to 12 in. (15 to 30 cm) **Bloom Months:** July **USDA Hardiness Zones:** 3 to 8

Compact, mounded plants have soft, silvery gray foliage and small yellow blooms.

ARTEMISIA (WORMWOOD)

Artemisia stelleriana

'SILVER BROCADE'

Height: 8 to 10 in. (20 to 25 cm) Bloom Months: July USDA Hardiness Zones: 3 to 8

Silvery foliage resembles Dusty Miller, outstanding for rock gardens and edging.



Artemesia 'Silver Mound'



Popular perennial scored very good to outstanding in trials from Georgia to Minnesota.



Drought and heat-tolerant Buddleias are first choice for low-water gardens.



Aster 'Purple Dome'



Aster 'Professor Anton Kippenburg'



Aster novae angliae 'PURPLE DOME'

ASTER 🔵

Height: 20 in. (50 cm) Bloom Months: August to October USDA Hardiness Zones: 4 to 9

Solid masses of purple flowers with

ASTER O

Aster novi-belgii

PROFESSOR ANTON KIPPENBURG'

Height: 15 in. (38 cm) Bloom Months: Late Summer to Fall USDA Hardiness Zones: 4 to 8

Lavender-blue flowers with gold

'WOOD'S PINK'

Height: 12 to 18 in. (30 to 45 cm) Bloom Months: Late Summer to Fall USDA Hardiness Zones: $4\ to\ 8$

Pale pink flowers with light yellow

'WOOD'S PURPLE'

Height: 12 to 18 in. (30 to 45 cm) Bloom Months: Late Summer to Fall USDA Hardiness Zones: $4\ to\ 8$

Purple-blue flowers with light yellow

ASTER 🔵 Aster x frikartii

MOENCH

Height: 24 in. (60 cm) Bloom Months: Late Summer to Fall USDA Hardiness Zones: 4 to 8

Deep blue flowers measure 2.5 in.

BOLTONIA 💛 🕕 (FALSE ASTER)

Boltonia asteroides var. latisquama

JIM CROCKETT

Height: 18 to 24 in. (45 to 60 cm) **Bloom Months:** May to September **USDA Hardiness Zones:** 4 to 9 Darwin Perennials 'Mabolimket' PP16,678

- · Early and free-flowering U.S. native
- species.

 Medium to dark green foliage and abundant lavender blooms with yellow
- · Compact, mounded habit.



Aster 'Wood's Pink'

Aster 'Wood's Purple'



Aster Moench





A great pollinator plant - bees and hummingbirds love the deep cranberry-color flowers!

BUDDLEIA 🔵 (BUTTERFLY BUSH)

The first really pink Buddleia!

Buddleia davidii

BERRY FIZZ

NEW FOR 2017

Height: 4 to 5 ft. (1.2 to 1.5 m) Bloom Months: May to September USDA Hardiness Zones: $5\ to\ 10$ Star Roses and Plants

- Beautiful full habit.
- · Long blooming.
- · Spectacular color.

'BLACK KNIGHT'

Height: to 7 ft. (2 m) **Bloom Months:** July to September USDA Hardiness Zones: $6\ to\ 9$

Deep blue-black flowers and silvery

BLAZE PINK

NEW FOR 2017

Height: 5 to 6 ft. (1.5 to 1.8 m) **Bloom Months:** May to September USDA Hardiness Zones: 5 to 10 Star Roses and Plants 'Bosblink' PP25,731

- \cdot Smaller flowers accented by silvery foliage.
- · Long flowering period.
- · Drought and heat tolerant.

BUZZ™ SERIES

Height: 4 to 5 ft. (1.2 to 1.5 m) Bloom Months: July to September USDA Hardiness Zones: 5 to 10 Cultivaris North America LLC

Long-blooming series is suitable for gallon pots and smaller garden

Ivory 'TOBUD072' PP23,464 Lavender 'TOBUDVIOLE' PP22,063 Magenta Improved 'TOBUD0802'

Midnight 'TOBUDMIDNI' PPAF Purple 'TOBUDPIPUR' PP22,064 Sky Blue Improved 'TOBUD0615'

Velvet 'TOBUD0703' PP23,462

CRAN RAZZ

NEW FOR 2017

Height: 5 to 6 ft. (1.5 to 1.8 m) Bloom Months: May to September USDA Hardiness Zones: 5 to 10

- Extremely free-flowering.
- Blooms from Spring until mid-Fall. Panicles grow an amazing 8 in.
- (20 cm) long.



Buddleia Buzz Lavender

Buddleia Buzz Magenta Improved









Buddleia Buzz Purple

Buddleia Buzz Sky Blue Improved

Buddleia Buzz Ivory

Star Roses and Plants 'Boscranz' PP25.730



Blue Heaven and Tutti Fruitti Pink are THE first Buddleias to flower and sell at retail, sparking strong Spring sales.



The truest blue flowers, with silvery gray foliage.



Buddleia Flutterby Petite Blue Heaven

FLUTTERBY PETITE®

NEW FOR 2017

Height: 24 to 30 in. (60 to 75 cm) Bloom Months: May to September USDA Hardiness Zones: 5 to 10 Star Roses and Plants

- Truly dwarf and compact series.
- Proven cold tolerance. Non-invasive varieties.

Blue Heaven 'Podaras #8' PP22,069 Tutti Fruitti Pink 'Podaras #13' PP22,177

TRUE BLUE

NEW FOR 2017

Height: 61 to 73 in. (1.55 to 1.85 m) Bloom Months: May to September USDA Hardiness Zones: 5 to 10 Star Roses and Plants 'Bostulu' PP25.708

- Strong stems and upright habit.
- · Reblooming, with big flowers.
- · Low seed set.

CALAMINTHA O (CALAMINT)

Calamintha grandiflora

'VARIEGATA'

Height: 18 in. (45 cm) Bloom Months: May to July USDA Hardiness Zones: 6 to 11

Pink flowers on fragrant, variegated white and green foliage.

CAMPANULA 🔵 (BELLFLOWER)

Campanula garganica

'DICKSON'S GOLD'

Height: 4 to 6 in. (10 to 15 cm) **Bloom Months:** May to July **USDA Hardiness Zones:** 4 to 9

Blue star-shaped flowers on golden

CAMPANULA (BELLFLOWER)

Campanula glomerata

GENTI SERIES

NEW FOR 2017

Height: 14 to 19 in. (35 to 48 cm) Bloom Months: May to July **USDA Hardiness Zones:** 3 to 8 Rene van Gaalen B.V.

- Beautiful, long-flowering Campanula.
- Holds its shape well in the garden.
- · Very Winter-hardy

Blue 'Allgentibl' PP24,687 Twisterbell 'Allgentitwist' PP25,403 White 'Allgentiw' PP24,686



Campanula Genti Blue

CAMPANULA 🖯 (BELLFLOWER)

Campanula portenschlagiana

'BIRCH HYBRID'

Height: 4 to 6 in. (10 to 15 cm) **Bloom Months:** June to August USDA Hardiness Zones: 4 to 7

A dwarf form with pale blue flowers.

'MISS MELANIE'

Height: 8 in. (20 cm) Bloom Months: May to July USDA Hardiness Zones: 5 to 7

Lavender-blue flowers on a compact

plant.

CAMPANULA O (BELLFLOWER)

Campanula poscharskyana

'BLUE RIVULET'

Height: 6 in. (15 cm) Bloom Months: May to July USDA Hardiness Zones: 4 to 9 Blooms of Bressingham PP20,082

Vigorous grower features spreading habit and prolific star-shaped, lavenderblue flowers with white eye.

Height: 8 in. (20 cm) Bloom Months: May to July USDA Hardiness Zones: 4 to 9 **Blooms of Bressingham** 'Camgood' PP13,161

BLUE WATERFALL

Low-growing, vigorous, spreading habit with some repeat blooming in Fall; excellent in containers and baskets.

CAMPANULA O (BELLFLOWER)

Campanula punctata

'CHERRY BELLS'

Height: 18 to 24 in. (45 to 60 cm) Bloom Months: May to July **USDA Hardiness Zones:** 4 to 8

Cherry-red bells with creamy spotted interiors and spreading foliage.



Campanula Genti Twisterbell



Calamintha 'Variegata'



Campanula Genti White



Campanula 'Dickson's Gold'



Campanula 'Birch Hybrid'



Campanula 'Miss Melanie'



Campanula 'Blue Rivulet'



Campanula Blue Waterfall



Campanula 'Cherry Bells'



Blooms a long time for better sell-through and excellent garden show.



Compact, dense dome of brilliant Spring and Summer foliage.



CAMPANULA 🖯 (BELLFLOWER)

Campanula x hybrida

IRIDESCENT BELLS

Height: 24 to 30 in. (60 to 75 cm) **Bloom Months:** April to September **USDA Hardiness Zones:** 5 to 8 Burpee

- Eggplant-colored buds and light lavender flowers that bloom all Summer long.
- · Non-seeding variety won't become invasive in gardens and landscapes.
- Tidy habit for patio containers, smaller beds and mid-borders.

CARYOPTERIS (BLUEBEARD)

Caryopteris hybrid

GOOD AS GOLD

Height: 36 to 48 in. (90 cm to 1.2 m) **Bloom Months:** August to October **USDA Hardiness Zones**: 7 to 8 Darwin Perennials

'Novacargol' PP26,035

- · Tender perennial.
- Chartreuse foliage with violet-blue flowers in late Summer.
- Attracts butterflies.

CARYOPTERIS O (BLUEBEARD)

Caryopteris x clandonensis

GRAND BLEU®

Height: 48 in. (1.2 m) **Bloom Months:** August to October USDA Hardiness Zones: $6\ to\ 9$ Darwin Perennials 'Inoveris' PP17,837

- Deep purple-blue flower clusters.
- Compact, upright plant habit.
 Blooms till first frost.

One of the best blue Caryopteris on the market.



Centaurea 'Lavender Mist'

Better branching, shorter habit and lots more flower power!

Caryopteris 'Dark Knight'





Centaurea 'Gold Bullion'



Centaurea 'Amethyst in Snow'



Ceratostigma plumbaginoides

'DARK KNIGHT'

Height: 24 to 36 in. (60 to 75 cm) Bloom Months: July to September USDA Hardiness Zones: 6 to 9

Purple flowers complement dark green foliage.

CENTAUREA 🜕 (CORNFLOWER)

Centaurea montana

'AMETHYST DREAM'

Height: 20 in. (50 cm) Bloom Months: June to July **USDA Hardiness Zones:** 3 to 9 Blooms of Bressingham PP20,781

Unique "shingled" buds grow into showy, radiant, royal-purple blooms accented by softly haired, silver foliage.

'AMETHYST IN SNOW'

Height: 14 in. (35 cm) Bloom Months: June to July USDA Hardiness Zones: 3 to 9Blooms of Bressingham

Lovely bicolor blooms in a striking new flower form with dense masses of silvery green foliage.

'GOLD BULLION'

Height: 12 to 15 in. (30 to 38 cm) Bloom Months: June to July **USDA Hardiness Zones**: 3 to 9 Blooms of Bressingham

High-wattage chartreuse leaves contrast with electric blue blooms in late Spring, early Summer.

'LAVENDER MIST'

Height: 16 to 18 in. (40 to 45 cm) Bloom Months: April to June USDA Hardiness Zones: 4 to 9 Burpee

- 50% more flowers on a compact habit for plenty of retail appeal
- · Uniform flowering when bulked and overwintered.
- Longer blooming time than other cultivars.

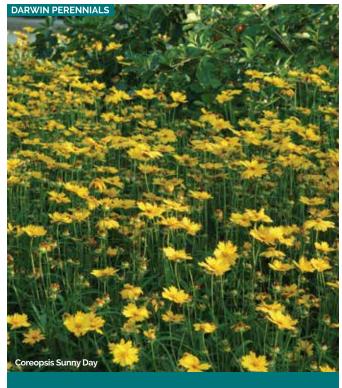
CERATOSTIGMA • • • (LEADWORT)

Ceratostigma plumbaginoides

Height: 8 to 12 in. (20 to 30 cm) **Bloom Months:** August to September **USDA Hardiness Zones**: 5 to 8

Small blue flowers over shiny green foliage that turns bronze-red in Fall.

PP18.284







Significant advancement in dwarf and rounded habit makes this a great container plant.

CHRYSOGONUM • (GREEN & GOLD)

Chrysogonum virginianum

'PIERRE'

Height: 6 in. (15 cm) **Bloom Months:** Spring USDA Hardiness Zones: 5 to 9

Yellow daisy flowers on soft green foliage clumps.

COREOPSIS O (TICKSEED)

Coreopsis auriculata

'NANA'

Height: 9 in. (22 cm) Bloom Months: April to June **USDA Hardiness Zones:** 3 to 9

Small, daisylike flowers in brilliant orange-yellow on bushy plants with large, rounded, dark green, evergreen foliage.

COREOPSIS 🖯 (TICKSEED) Coreopsis grandiflora

'Balcorsunay' PP17,405

SUNNY DAY

Height: 18 to 24 in. (45 to 60 cm) Bloom Months: June to September USDA Hardiness Zones: 4 to 9 Darwin Perennials

- Lots of big, bright, single yellow blooms on compact plants.
 Remove spent flowers to encourage
- reblooming.
- North American native species.

COREOPSIS O (TICKSEED) Coreopsis hybrid

CRUIZIN' MAIN STREET

Height: 18 in. (45 cm) Bloom Months: June to July USDA Hardiness Zones: 5 to 9 ItSaul Plants LLC. PP24,562

Brilliant flowers and dark green, threadleaf foliage.

LITTLE BIRD

Height: 12 to 14 in. (30 to 35 cm) Bloom Months: June to September **USDA Hardiness Zones:** 5 to 9 Darwin Perennials

- · True dwarf with rounded habit. · Yellow flowers and dense, narrow
- foliage.
- Makes a great container plant.



Chrysogonum 'Pierre'



Coreopsis 'Nana'



Coreopsis Cruizin' Main Street



Coreopsis Mayo Clinic Flower of Hope



Coreopsis 'Moonbeam'



Coreopsis



Coreopsis 'Limerock Ruby'



Coreopsis Solanna 'Golden Sphere'



Equally at home in mass plantings or containers.



Coreopsis 'Limerock Dream'

MAYO CLINIC FLOWER OF HOPE®

Height: 24 in. (60 cm) Bloom Months: June to July **USDA Hardiness Zones**: 5 to 9 ItSaul Plants LLC 'Electric Avenue' PP24,688

Produces lots of screaming yellow flowers with narrow green leaves. Tag purchase required.

SOLANNA™ 'GOLDEN SPHERE'

Height: 8 in. (20 cm) Bloom Months: May to September USDA Hardiness Zones: 5 to 9 Danziger "Dan" Flower Farms

Bright yellow, fully double flowers on a compact habit with lance-shaped foliage.

COREOPSIS O (TICKSEED) Coreopsis rosea

'AMERICAN DREAM'

Height: 9 to 15 in. (23 to 38 cm) Bloom Months: June to July USDA Hardiness Zones: 3 to 9

Fine, dark green foliage sprinkled with rose-pink flowers.

'LIMEROCK DREAM'

Height: 16 in. (40 cm) Bloom Months: June to July USDA Hardiness Zones: 8 to 10 Blooms of Bressingham PP16,923

Tender perennial has long-blooming daisy flowers that start apricot-pink and mature to hot orange.

'LIMEROCK PASSION'

Height: 16 in. (40 cm) Bloom Months: June to July USDA Hardiness Zones: 8 to 10 Blooms of Bressingham

Tender perennial has graceful habit and lavender-pink daisy flowers that mature to lighter pink tones.

'LIMEROCK RUBY'

Height: 16 in. (40 cm) Bloom Months: June to July USDA Hardiness Zones: 8 to 10 Blooms of Bressingham PP15,455

Tender perennial boasts bright ruby-red daisy flowers — a rarity among garden plants!

COREOPSIS O (TICKWEED)

Coreopsis verticillata

'CRÈME BRULEE'

Height: 20 in. (50 cm) Bloom Months: June to July USDA Hardiness Zones: 4 to 9 Blooms of Bressingham PP16.096

Larger, deeper yellow flowers and greater vigor than 'Moonbeam', with brighter foliage and better powdery mildew resistance.

CRÈME CARAMEL™

Height: 18 in. (45 cm) Bloom Months: May to July USDA Hardiness Zones: 5 to 9 Darwin Perennials 'Novcorcar' PP22,565

- Terracotta-colored blooms and narrow, bright green foliage.
- · Mixes well with other perennials and
- · Compact and dense habit.

'MOONBEAM'

Height: 15 to 18 in. (38 to 45 cm) Bloom Months: June to July USDA Hardiness Zones: 3 to 9

Small, lemon-yellow flowers on bushy plants with dark green foliage.



Coreopsis 'Crème Brulee'







Pure yellow blooms are perfect for small spaces - native cultivar in North America.

'ROUTE 66'

Height: 24 to 27 in. (60 to 68 cm) Bloom Months: June to August USDA Hardiness Zones: 5 to 9 ItSaul Plants LLC

Yellow flowers with a striking burgundy ring around the crown that bleeds to petal tips as the season progresses.

'SWEET MARMALADE'

Height: 12 in. (30 cm) Bloom Months: June to July USDA Hardiness Zones: 5 to 9 Blooms of Bressingham

Flowers open deep orange and mellow to soft apricot-yellow; can become bright yellow in very high temperatures.

'SYLVESTER'

Height: 16 to 20 in. (40 to 50 cm) Bloom Months: June to September **USDA Hardiness Zones:** 4 to 9 Darwin Perennials

- · Fuller plants can be finished from firstyear cuttings.
- Bright, golden yellow blooms are twice the size of other C. verticillata.
- $\boldsymbol{\cdot}$ Perfect for gallon programs.

'TWEETY'

Height: 14 to 16 in. (35 to 40 cm) Bloom Months: June to September **USDA Hardiness Zones**: 4 to 9 Darwin Perennials PP23,347

- · Ever-blooming plant with plenty of sunny yellow flowers
- Compact, bushy habit requires no PGRs or bulking.
- Ideal for quart programs.

'ZAGREB'

Height: 16 to 24 in. (40 to 60 cm) Bloom Months: June to July **USDA Hardiness Zones**: 3 to 9

Upright, bushy plants bear deep golden yellow flowers.



Coreopsis x hybrida

'JETHRO TULL'

Height: 15 in. (38 cm) Bloom Months: May to August USDA Hardiness Zones: 4 to 9 ItSaul Plants LLC PP18,789

Compact hybrid dwarf variety produces fluted, non-fading, golden yellow flowers all Summer.



Coreopsis 'Route 66'



Coreopsis 'Zagreb'



Coreopsis 'Jethro Tull'



Coreopsis 'Sweet Marmalade'



Delosperma 'Alan's Apricot'



Coreopsis 'Tequila Sunrise'



Delosperma Lavender Ice



Coreopsis Hardy Jewel Garnet



Delosperma Mesa Verde



Delosperma Red Mountain Flame

'TEQUILA SUNRISE'

Height: 14 to 16 in. (35 to 40 cm) Bloom Months: June to October USDA Hardiness Zones: 6 to 10 Ken and Linda Smith

Long, pointed leaves with yellow margins topped by golden blooms with red eye.

HARDY JEWEL™ GARNET

Height: 5 to 26 in. (13 to 66 cm) Bloom Months: June to July USDA Hardiness Zones: 7 to 10 Terra Nova Nurseries, Inc.

Brilliant, jewel-toned blooms on dense, low-growing mounds of fine foliage.

DELOSPERMA (ICE PLANT)

Delosperma

'ALAN'S APRICOT'

NEW FOR 2017

Height: 2 to 3 in. (5 to 7 cm) **Bloom Months:** June to September **USDA Hardiness Zones:** 4 to 10 *Plant Select*

Hardy, drought-tolerant groundcover in shades of apricot with yellow highlights is a Plant Select® award winner.

LAVENDER ICE

Height: 2 to 3 in. (5 to 7 cm) **Bloom Months:** June to August **USDA Hardiness Zones:** 4 to 9 *Plant Select*

'Psfave

Frosted lavender flowers and strong green succulent foliage.

MESA VERDE®

Height: 2 in. (5 cm) Bloom Months: June to August USDA Hardiness Zones: 4 to 8 Plant Select 'Kelaidis' PP13.876

Vigorous, compact plants have iridescent salmon-pink flowers and succulent gray-green foliage.

RED MOUNTAIN® FLAME

NEW FOR 2017

Height: 2 to 3 in. (5 to 7 cm) Bloom Months: June to August USDA Hardiness Zones: 6 to 9 Plant Select

'PWWG02S'

Tough, drought-tolerant groundcover has improved color and performance over Red Mountain.



Delosperma Table Mountain



Delosperma cooperi



Delosperma Red Mountain



Delosperma Fire Spinner



Delosperma 'Jewel of Desert Garnet'



Delosperma 'Jewel of Desert Ruby'



Delosperma 'Jewel of Desert Grenade'

TABLE MOUNTAIN®

Height: 2 in. (5 cm) Bloom Months: June to August USDA Hardiness Zones: 4 to 9 Plant Select

'John Proffitt'

Shimmering fuchsia blooms with white centers.

DELOSPERMA 🖯 (ICE PLANT)

Delosperma congestum

Height: 2 in. (5 cm)

Bloom Months: June to August USDA Hardiness Zones: 5 to 10

(NOT SHOWN) Cheery yellow flowers on tight, succulent foliage.

DELOSPERMA O (ICE PLANT)

Delosperma cooperi

Height: 3 in. (7 cm) Bloom Months: June to August USDA Hardiness Zones: 6 to 10

Rose-pink flowers on mats of succulent leaves.

DELOSPERMA 🔵 (ICE PLANT) Delosperma dyeri

RED MOUNTAIN®

Height: 2 in. (5 cm)

Bloom Months: June to August USDA Hardiness Zones: $5\ to\ 8$ Plant Select

- Shiny, light red blooms on robust,
- evergreen plants.
 Plenty of flowers throughout the growing season.
- · A great groundcover for slopes and borders.

DELOSPERMA 🖯 (ICE PLANT)

Delosperma floribundum

STARBURST®

Height: 4 in. (10 cm) Bloom Months: June to August **USDA Hardiness Zones:** 4 to 9 Plant Select

Orchid-pink blooms accented with white centers.



Delosperma 'Jewel of Desert Amethyst'



Delosperma 'Jewel of Desert Opal'



Delosperma 'Jewel of Desert Rosequartz'



Delosperma 'Jewel of Desert Topaz'



Delosperma 'Jewel of Desert Peridot'



Delosperma 'Jewel of Desert Moonstone'



Delosperma Wheels of Wonder Violet Wonder



Delosperma Wheels of Wonder Fire Wonder



Delosperma Wheels of Wonder Hot Pink Wonder

NEW FOR 2017



Delosperma Wheels of Wonder Orange Wonder





Delosperma Wheels of Wonder White Wonder

DELOSPERMA 🔵 (ICE PLANT)

Delosperma hybrid

FIRE SPINNER®

Height: 2 to 3 in. (5 to 7 cm) Bloom Months: June to August USDA Hardiness Zones: 5 to 8 Plant Select

Tricolored flowers of orange, magenta and white with succulent green foliage.

JEWEL OF DESERT SERIES

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: June to August USDA Hardiness Zones: 5 to 10 Concept Plants B.V.

Heat and sun-loving, first-year-flowering series is drought-tolerant once established.

NEW 'Jewel of Desert Amethyst' PPAF 'Jewel of Desert Garnet' PP23,471 **NEW 'Jewel of Desert Grenade'** PPAF 'Jewel of Desert Moonstone' PP23,491 NEW 'Jewel of Desert Opal' PPAF 'Jewel of Desert Peridot' PP23,566 'Jewel of Desert Rosequartz' PP23,452 'Jewel of Desert Ruby' PP23,453 'Jewel of Desert Topaz' PP23,492

WHEELS OF WONDER™ SERIES

NEW FOR 2017

Height: 6 to 8 in. (15 to 20 cm) Bloom Months: June to August USDA Hardiness Zones: 5 to 9 Concept Plants B.V

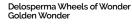
- Perfect for rock gardens.Drought tolerant.Large flowers.

Fire Wonder 'WOWDAY2' PP25,645 Golden Wonder 'WOWD20111' PP25,684 Hot Pink Wonder 'WOWDRY1' PPAF Orange Wonder 'WOWDOY3' PP25,600 Violet Wonder 'WOWDRW5' PP25,572 White Wonder 'WOWDW7' PP25,599

DELOSPERMA O (ICE PLANT)

Delosperma nubigenum **Height:** 2 to 3 in. (5 to 7 cm) **Bloom Months:** June to August USDA Hardiness Zones: $5\ to\ 9$

(NOT SHOWN) Spreading, succulent leaves and deep yellow flowers.









Strong, sturdy stems won't flop!

Erysimum Winter 'Party'



Erysimum Winter 'Light'



Eupatorium 'Gateway'



Eupatorium 'Chocolate'

ERYSIMUM (WALLFLOWER) Erysimum linifolium

'BOWLES MAUVE'

Height: 12 to 15 in. (30 to 38 cm) **Bloom Months:** April to May **USDA Hardiness Zones:** 6 to 8 'Balchermauv' PP26,604

Narrow, gray-green leaves and large flower heads with bright lavender blooms.

EUPATORIUM (JOE-PYE WEED)

Eupatorium dubium

'LITTLE JOE'

Height: 3 to 4 ft. (90 cm to 1.2 m)
Bloom Months: August to September
USDA Hardiness Zones: 3 to 9
Darwin Perennials
PP16.122

- Dwarf variety with green foliage and lavender-pink flowers.
- Large clusters of flowers in Summer dry to attractive light brown seed head in Fall.
- Tolerates seasonally wet to rather dry sites

EUPATORIUM (JOE-PYE WEED) Eupatorium maculatum

'GATEWAY'

Height: 5 to 6 ft. (1.5 to 1.8 m) **Bloom Months:** July to September **USDA Hardiness Zones:** 4 to 8

Mauve-pink flowers against deep red stems make a bold garden display.

'CHOCOLATE'

Height: 4 to 5 ft. (1.2 to 1.5 m) **Bloom Months:** August to September **USDA Hardiness Zones:** 4 to 8

Upright perennial with dark bronzepurple, lanceolate foliage and creamy white flowers.



Erysimum 'Bowles Mauve'



REDESIGNED **WEBSITE**

Our NEW **DarwinPerennials.com** website looks fantastic on your mobile phone! Useful information on perennials is now easily accessible 24/7 on multiple platforms.

Quickly locate specific plant details and culture in a convenient format. Find hardiness zone, plant habit, height and width, watering and fertilizer needs, recommended spacing and exposure, and general information about each plant.

Watch helpful videos including:

- Presentations of the latest new varieties from **Darwin Perennials**
- A closer look at **Darwin Colombia**, our new production farm

Learn about upcoming events and the latest updates in the world of perennials.

Visit 'Ask The Experts' to get growing and selling info from Darwin Perennials' plant-loving professionals.

View listings of suppliers to find the perfect source for your needs.

All this and more is at your fingertips via your computer or mobile device!



Strong red color sparks Summer and Fall programs and sales.

EUPHORBIA 🔾 🕕 (SPURGE)



Euphorbia amygdaloides

RED VELVET

Height: 18 to 20 in. (45 to 50 cm) Bloom Months: March to May USDA Hardiness Zones: 6 to 10 Florensis

'Floreupred' PPAF

- Striking foliage survives Summer heat and intensifies into Fall.
- Perfect for container gardens and landscapes.
- Thrives in full sun and well-drained soils

RUBY GLOW

Height: 12 to 18 in. (30 to 45 cm) Bloom Months: March to May USDA Hardiness Zones: 6 to 11

PlantHaven, Inc. 'Waleuphglo' PP22,200

Eye-catching, ruby foliage on compact plants with spreading habit.

EUPHORBIA 🔾 🕕 (SPURGE)



Euphorbia characias x martinii

BLACKBIRD

Height: 14 to 16 in. (35 to 40 cm) **Bloom Months:** Spring to Summer USDA Hardiness Zones: 6 to 9 PlantHaven, Inc. 'Nothowlee' PP17,178

- Chartreuse flowers contrast with dark purple foliage.
- · Foliage is dark green when planted in shadier areas.
- · Compact, bushy habit.

EUPHORBIA 🔵 (SPURGE)

Euphorbia polychroma

'BONFIRE'

Height: 10 in. (25 cm)

Bloom Months: Spring to Summer **USDA Hardiness Zones**: 5 to 9 Blooms of Bressingham

Neat, uniform mounds of green foliage quickly mature to rich maroon-red in Summer; has glowing chartreuse-gold flowers in Spring.



Euphorbia Ruby Glow



Euphorbia 'Ascot Rainbow



Euphorbia Blackbird



Euphorbia 'Blue Haze



Euphorbia 'Shorty'



Euphorbia Tiny Tim



Euphorbia 'Bonfire'

EUPHORBIA (SPURGE)

Euphorbia sequieriana x nicaeensis

'BLUE HAZE'

Height: 12 to 18 in. (30 to 45 cm) Bloom Months: April to May USDA Hardiness Zones: 7 to 9 PlantHaven, Inc.

Tender perennial's blue foliage, red stems and yellow flowers make a stunning display.

EUPHORBIA 🔵 🕽 (SPURGE)

Euphorbia wulfenii

'SHORTY'

Height: 24 in. (60 cm) Bloom Months: April to May USDA Hardiness Zones: 7 to 9 ItSaul Plants LLC

Tender perennial has blue-green foliage and large yellow blooms.

EUPHORBIA 🔾 🕕 (SPURGE)

Euphorbia x martinii

'ASCOT RAINBOW'

Height: 20 in. (50 cm) Bloom Months: April to May USDA Hardiness Zones: 6 to 9 PlantHaven, Inc.

PP21,401

Vigorous variety has very colorful, variegated foliage that turns deep red in cooler weather.

TINY TIM

Height: 10 to 12 in. (25 to 30 cm) Bloom Months: April to May USDA Hardiness Zones: 6 to 9 PlantHaven, Inc. 'Waleutiny' PP16,930

Fleshy, medium green leaves topped with spikes of chartreuse flowers with red eyes.





Gaillardia Gallo 'Bright Red'



Gaillardia Gallo 'Red'



Gaillardia Gallo 'Fire'



Gaillardia Gallo Dark Bicolor



Gaillardia Gallo 'Yellow Trumpet'



Gaillardia Gallo Peach



Gaillardia Gallo Yellow



Gaillardia 'Celebration' GAILLARDIA 🔵



Gaillardia 'Fanfare Blaze'



Gaillardia 'Fanfare Citronella'

GAILLARDIA 🜕 (BLANKET FLOWER) Gaillardia aristata

GALLO™ SERIES

Height: 10 to 12 in. (25 to 30 cm) **Bloom Months:** June to frost USDA Hardiness Zones: 6 to 8

Long-blooming for stunning Summer

- · Compact series with a uniform flower
- · Excellent performance in containers.
- Heat-tolerant plants bloom all Summer, well into Fall.

Gallo 'Bright Red' Gallo Dark Bicolor 'Kiegaldab' PP20,718 Gallo 'Fire' Gallo Peach 'Kiegalpea' PP20,717 Gallo 'Red' Gallo Yellow 'Kiegalyel' PP20,716 Gallo 'Yellow Trumpet'

GAILLARDIA (BLANKET FLOWER) Gaillardia x hybrida

'CELEBRATION'

Height: 16 in. (40 cm) Bloom Months: June to frost **USDA Hardiness Zones:** 5 to 9 PlantHaven, Inc.

Long-blooming, colorfast variety has elegant red flowers on strong stems.

(BLANKET FLOWER) Gaillardia x grandiflora

'FANFARE BLAZE'

Height: 12 in. (30 cm) **Bloom Months:** June to frost USDA Hardiness Zones: 5 to 9 PlantHaven, Inc.

Unsurpassed performance in containers, beds and borders, with unique pinwheel blooms in warm, burnt orange tones.

'FANFARE CITRONELLA'

Height: 21 in. (52 cm) Bloom Months: June to August USDA Hardiness Zones: 5 to 9 PlantHaven, Inc.

Floriferous variety with sunny, bright yellow pinwheel flowers is great in containers, beds, borders.



Galium odoratum

Height: 6 to 12 in. (15 to 30 cm) Bloom Months: April USDA Hardiness Zones: 3 to 9

Low-growing groundcover with glossy green foliage and fragrant white flowers.



Galium odoratum





Unique contrasting flower parts add new color interest to a popular class.

GAURA 🔵 (WAND FLOWER)

Gaura lindheimeri

GAUDI™ SERIES

Height: 12 in. (30 cm) Bloom Months: June to October USDA Hardiness Zones: 6 to 9 Florensis

- · Compact, well-branched habit.
- · Darker foliage in cooler temperatures.

A trio of incredibly vibrant blooms.

· Makes a beautiful container plant.

Red 'Florgaure' PP26,518 Rose Pink

'PASSIONATE BLUSH'

Height: 18 to 24 in. (45 to 60 cm) Bloom Months: May to September USDA Hardiness Zones: 7 to 9 PlantHaven, Inc. 'SME-2' PP27,293

Floriferous tender perennial has medium pink flowers, beautifully variegated foliage and a tidy appearance.

'PASSIONATE RAINBOW'

Height: 18 to 24 in. (45 to 60 cm) Bloom Months: May to September USDA Hardiness Zones: 7 to 9 PlantHaven, Inc. PP17,002

Tender perennial has variegated green leaves bordered in creamy white with pink flowers; tight-flowering with dense habit

PINK FOUNTAIN

Height: 24 to 36 in. (60 to 90 cm) Bloom Months: May to September USDA Hardiness Zones: 6 to 9 PlantHaven, Inc.

'Walgaupf' PP15,555

Heavy lateral branching for a dense habit and an abundance of soft pink blooms with an exceptionally long flowering period.

'SISKIYOU PINK'

Height: 24 to 36 in. (60 to 90 cm) Bloom Months: May to September USDA Hardiness Zones: 6 to 9

Clusters of bright, red-pink flowers with white stamens on willowy foliage.

SNOW FOUNTAIN

Height: 24 to 36 in. (60 to 90 cm) Bloom Months: May to September USDA Hardiness Zones: 6 to 9 PlantHaven, Inc.

'Walsnofou' PP19,376

Extraordinary upright habit with strong stems and masses of heavy white blooms.

'WHIRLING BUTTERFLIES'

Height: 23 to 35 in. (58 to 88 cm) Bloom Months: May to October USDA Hardiness Zones: 6 to 9

Airy blooms move in the breeze like a cluster of white butterflies.



Gaura Gaudi Rose



Gaura Gaudi Pink





Gaura 'Passionate Rainbow'



Gaura 'Siskiyou Pink'



Gaura Snow Fountain



Gaura 'Whirling Butterflies'



Continuous blooms on compact, well-branched, upright plants.



Compact, bicolor Gaura holds its shape from bench to garden.



A great-looking companion plant in containers and landscapes.

'WHISKERS DEEP ROSE'

Height: 14 to 16 in. (35 to 40 cm) Bloom Months: April to September USDA Hardiness Zones: 6 to 9 Darwin Perennials PP26,399

- · White filaments set off deep rose petals.
- · Compact, bushy habit and dark red foliage.
- A great container item for impulse sales.

BALLERINA™ SERIES

Height: 12 to 18 in. (30 to 45 cm) Bloom Months: April to September **USDA Hardiness Zones:** 6 to 9 Darwin Perennials

- Striking flowers complement dark foliage. · Well-suited to landscapes and mixed
- containers • White is the most compact, well-branched white Gaura on the market.

Blush 'Baltinblus' PP14,683 Rose 'Baltinrose' PP14.635 White 'Baltincite' PP20,326

BELLEZA™ SERIES

Height: 12 to 18 in. (30 to 45 cm) Bloom Months: May to September USDA Hardiness Zones: 6 to 9 Selecta

- Excellent branching with short flower stems
- · Dark Pink and White Improved have upright habits; Compact Light Pink is mounded.
- · Compact Light Pink is well-suited to high-density programs.

Compact Light Pink 'KLEGL06261' Dark Pink 'KLEAU04263' NEW White Improved 'KLEGL14844'

'LITTLE JANIE'

Height: 16 to 18 in. (40 to 45 cm) Bloom Months: April to September USDA Hardiness Zones: 6 to 9 Darwin Perennials

- · Finished plants are easier to ship and arrive in better shape.
- Excellent retail appeal and longer shelf life.
- Maintains a beautiful Spring, Summer and Fall display of white and rose bicolored blooms.



Gaura Ballerina Rose



Gaura Ballerina White



Gaura Belleza
Compact Light Pink
Gaura Belleza
White Improved





Excellent performance in its first season trial (2015) by University of Minnesota, Morris, Minnesota.



Geum 'Totally Tangerine'



Geum Cocktails 'Alabama Slammer'



Geum Cocktails 'Mai Tai'



Geum Cocktails 'Tequila Sunrise'



'MISS HEIDI'

Height: 14 to 16 in. (35 to 40 cm) **Bloom Months:** April to June USDA Hardiness Zones: 4 to 9 Darwin Perennials

- Compact habit holds its shape well in containers.
- · Attractive pink flowers, patterned foliage with chocolate brown blotch.
- Long blooming time, with heavy flowering in Spring.

GEUM 🛑 (AVENS)

Geum chiloense x rivale

'TOTALLY TANGERINE'

Height: 30 in. (75 cm) Bloom Months: May to June USDA Hardiness Zones: 4 to 8 PlantHaven, Inc. PP22.041

Large apricot blooms form sprays of color for a long flowering period; robust habit.

GEUM 🛑 (AVENS) Geum hybrid

COCKTAILS™ SERIES

Height: 11 to 14 in. (28 to 35 cm) Bloom Months: May to June USDA Hardiness Zones: $5\ to\ 7$ Intrinsic Perennial Gardens

Hybrid series features good vigor and disease tolerance.

NEW 'Alabama Slammer' PP23,750 NEW 'Banana Daiquiri' PP25,351 'Mai Tai' PP22,433 'Tequila Sunrise' PP21,514

GYPSOPHILA (BABY'S BREATH)

Gypsophila paniculata

FESTIVAL SERIES

Height: 12 to 18 in. (30 to 45 cm) Bloom Months: June to August USDA Hardiness Zones: 5 to 11 Danziger "Dan" Flower Farms

Semi-double, long-blooming flowers, glaucous foliage and mounding habit.

Pink Snow

Festival Star® 'Danfestar' PP14,818



Geum Cocktails 'Banana Daiquiri'



Gypsophila Festival Pink



Gypsophila Festival Snow



Gypsophila Festival Star





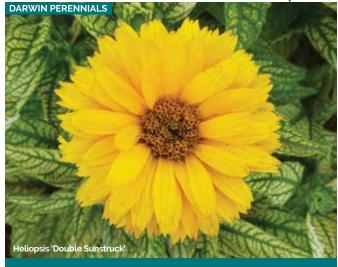
Hedera 'Thorndale'



Helenium Mardi Gras



Helenium 'Ruby



Semi-double flowers on free-branching plants make a striking season extender.



The biggest blooms in its class, plus eye-catching variegated foliage.



Heliopsis 'Bressingham Doubloon'

HEDERA 🖯 🕕 Hedera helix

ENGLISH IVY

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: None USDA Hardiness Zones: 5 to 10

Large, semi-evergreen leaves, bright to

'THORNDALE'

Height: 3 to 5 in. (7 to 13 cm) Bloom Months: None USDA Hardiness Zones: 5 to 9

Purple-green stems; large, dark green leaves with light veins that turn white in Winter.

HELENIUM 🜕 (HELEN'S FLOWER) Helenium autumnale

MARDI GRAS

Height: 36 to 40 in. (90 to 101 cm) Bloom Months: June to August **USDA Hardiness Zones**: 4 to 8 Blooms of Bressingham 'Helbro' PP15,124

- Produces a riot of "tie-dyed" blooms with deep brown, mounded center
- Forms upright clumps with sturdy
- stems that sway in the Summer breeze.

 Massed plantings form tight, shrubby bushes of impressive size in two years.

HELENIUM 🔵 (HELEN'S FLOWER)

Helenium hybrida

'RUBY TUESDAY'

Height: 28 to 30 in. (70 to 75 cm) Bloom Months: July to September USDA Hardiness Zones: 4 to 8 Inspiration Plant

Very compact variety with plenty of small, dark red flowers.

HELIOPSIS 🖯 (OX-EYE)

Heliopsis helianthoides

'BRESSINGHAM DOUBLOON'

Height: 4 to 5 ft. (1.2 to 1.5 m) Bloom Months: June to September USDA Hardiness Zones: 3 to 9Blooms of Bressingham PP11,270

Semi-double, true golden flowers on strong, sturdy stems-no staking needed!

'DOUBLE SUNSTRUCK'

Height: 14 to 16 in. (35 to 40 cm) Bloom Months: May to July **USDA Hardiness Zones**: 4 to 9 Darwin Perennials PP26,608

- · Compact habit lets growers ship more plants per rack.
- · Intense yellow flowers and variegated foliage command attention
- Long-flowering plants light up Spring and Summer gardens.

'SUNSTRUCK'

Height: 14 to 16 in. (35 to 40 cm) Bloom Months: June to August USDA Hardiness Zones: 4 to 9 Darwin Perennials PP25 524

- · Compact habit is easier to ship and shows better at retail.
- · Blooms 4 to 6 weeks earlier than other Heliopsis and stays in flower all Summer.
- Produces full one-gallon containers with more plants per rack and lower input costs

'LORAINE SUNSHINE'

Height: 30 in. (75 cm) Bloom Months: June to September USDA Hardiness Zones: 4 to 9 Blooms of Bressingham PP10,690

Large, golden-yellow daisy flowers on erect, loosely branched plants with unique variegated leaf form.



Heliopsis 'Loraine Sunshine'

HERBS



YOU'LL FIND A WIDE VARIETY OF THE MOST POPULAR CULINARY PERENNIAL HERBS BY USING THIS EASY HERB INDEX.



ARTEMISIA/FRENCH TARRAGON p. 9



MENTHA/MINT p. 43

Chocolate Mint Citrata **Ginger Mint** Kentucky Colonel Mojito **Peppermint** Spanish Mint **Spearmint** Variegata

Apple Mint



OCIMUM/BASIL p. 47

Kasar



ORIGANUM/OREGANO p. 47

Aureum Compactum Greek Oregano **Hot and Spicy** Italian Oregano Variegated Oregano



ROSEMARINUS/ROSEMARY p. 60

Arp Barbecue Gorizia **Huntington Carpet** Madeline Hill Prostratus Salem Spice Island Tuscan Blue



SALVIA/SAGE p. 61, 68

Pineapple Sage Berggarten Berggarten Variegated Garden Sage



THYMUS/THYME p. 79

English Thyme French Thyme Golden Lemon Thyme Lemon Thyme Orange Thyme Silver Edged Thyme Variegated



Hypericum Hypearl Star



Hypericum calycinum



Hypericum Hypearl Yellow



Hypericum Hypearl Red



Iberis 'Alexander's White'



HYPERICUM O (ST. JOHN'S WORT) Hypericum calycinum

Height: 15 to 18 in. (38 to 45 cm) Bloom Months: May to July USDA Hardiness Zones: 5 to 9

Long, blue-green leaves with wide, solitary, bright golden yellow flowers.

HYPERICUM • (ST. JOHN'S WORT) Hypericum inodorum

HYPEARL® COMPACT SERIES

Height: 18 in. (45 cm) Bloom Months: May to June USDA Hardiness Zones: 6 to 9 De Ruiter Innovations B.V.

Compact, well-branched shrubs for landscapes and containers have starshaped flowers in Spring and showy berries in Summer.

Red 'Ruihyi174a' **Star** 'Ruihyg219a' PP26,342 Yellow 'Ruihyh002a' PP26,341

IBERIS 🖯 (EVERGREEN CANDYTUFT) Iberis sempervirens

'ALEXANDER'S WHITE'

Height: 10 to 12 in. (25 to 30 cm) Bloom Months: March to April USDA Hardiness Zones: 3 to 8

Deep green evergreen foliage is covered by dense, pure white flowers in Spring.

'PURITY'

Height: 8 to 10 in. (20 to 25 cm) Bloom Months: March to April USDA Hardiness Zones: 3 to 8

Low-growing, evergreen shrub with deep green foliage and abundant white blooms.



Extremely long-blooming variety for a longer selling window.



Long-blooming variety in a color consumers love!

IBERIS 🖯 (EVERGREEN CANDYTUFT) Iberis amara

'WHITE HEAT'

Height: 8 to 10 in. (20 to 25 cm) **Bloom Months:** January to August **USDA Hardiness Zones:** 7 to 10 Darwin Perennials

- \cdot No vernalization needed for flowering.
- ${\boldsymbol{\cdot}}$ Ideal for very early sales in the South.
- · High heat tolerance.

IBERIS O (EVERGREEN CANDYTUFT) Iberis gibraltarica

'LAVISH'

Height: 10 to 12 in. (25 to 30 cm) **Bloom Months:** April to August **USDA Hardiness Zones:** 6 to 9 Darwin Perennials

- · Requires no vernalization for flowering.
- · Long bloom time, with deep lavender flowers.
- · Great in mixed containers.

LAMIASTRUM • (YELLOW ARCHANGEL)

Lamiastrum galeobdelon

'HERMAN'S PRIDE'

Height: 6 in. (15 cm) Bloom Months: April to May USDA Hardiness Zones: 3 to 9

Trailing habit of green and silver leaves with yellow flowers.

'VARIEGATUM'

Height: 12 in. (30 cm) Bloom Months: May to June USDA Hardiness Zones: 4 to 8

Silver-spotted with yellow flowers in



'ANNE GREENAWAY'

Height: 6 to 8 in. (15 to 20 cm) Bloom Months: April to May USDA Hardiness Zones: 3 to 9

Mixture of green, silver and chartreuse leaves turn mauve in Spring.

'BEACON SILVER'

Height: 6 to 8 in. (15 to 20 cm) Bloom Months: April to May **USDA Hardiness Zones:** 3 to 9

Trailing, mounded variety has silver leaves edged in green with pink-purple flowers



Lamiastrum 'Herman's Pride'



Lamiastrum 'Variegatum'



Lamium 'Anne Greenaway'



Lamium 'Beacon Silver'



Lamium 'Orchid Frost'

Lamium 'Pink Pewter'



'ORCHID FROST'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: April to May USDA Hardiness Zones: 4 to 9 PlantHaven, Inc.

- · Orchid-pink flowers rebloom in Fall.
- Good resistance to leaf spots.
- · Low-maintenance garden performer.

'PINK PEWTER'

Height: 4 to 8 in. (10 to 20 cm) Bloom Months: April to May USDA Hardiness Zones: 3 to 9

Beautifully variegated leaves and long-blooming, soft pink flowers.

Height: 6 in. (15 cm) Bloom Months: April to May USDA Hardiness Zones: 3 to 9

'SHELL PINK'

Height: 8 in. (20 cm)

'WHITE NANCY'

Bloom Months: April to May

USDA Hardiness Zones: 4 to 8

Fast-growing groundcover with silver and green variegated foliage, pure white flowers.

Soft pink flowers – excellent for shaded border or container.

Lamium 'Purple Dragon'



Height: 4 to 8 in. (10 to 20 cm) Bloom Months: April to May USDA Hardiness Zones: 3 to 9 Hortech, Inc.

- Rich purple spikes contrast with bright silvery foliage.
 Snapdragon-like flowers.
 Robust habit.



Lamium 'White Nancy'

Lamium 'Shell Pink'



Excellent performer boasts the biggest blooms! Scored 4.7/5 average during July-Sept. Best of Species at Penn State University, Landisville, Pennsylvania, first season.



Lavandula Big Time Blue

LAVANDULA 🖯 (LAVENDER)

Lavandula angustifolia

BIG TIME BLUE

NEW FOR 2017

Height: 22 to 24 in. (55 to 60 cm) Bloom Months: May to August **USDA Hardiness Zones:** 5 to 9 Concept Plants B.V. 'Armtipp01' PP24,827

Early-blooming variety has silver-gray foliage and mid-blue flowers.

'BLUE CUSHION'

Height: 16 in. (40 cm) Bloom Months: June to August **USDA Hardiness Zones:** 5 to 8 Blooms of Bressingham

Spectacular dwarf habit and freeflowering performance with deep blue flowers and gray-green, evergreen foliage.

'HIDCOTE'

Height: 12 in. (30 cm) Bloom Months: June to August USDA Hardiness Zones: 5 to 8

More compact than others in the species, with deep blue flowers.

'JEAN DAVIS'

Height: 10 to 12 in. (25 to 30 cm) Bloom Months: June to August **USDA Hardiness Zones:** 5 to 8

Pale pink flowers over silvery foliage.

'MUNSTEAD'

Height: 14 to 18 in. (35 to 45 cm) **Bloom Months:** June to August **USDA Hardiness Zones:** 5 to 8

Compact and upright, with narrow foliage and lavender-blue flower spikes.

PLATINUM BLONDE™

Height: 16 to 24 in. (40 to 60 cm) Bloom Months: June to August USDA Hardiness Zones: 6 to 9 Cultivaris North America LLC 'Momparler' PP23,834

Vigorous grower has green and yellow stable variegation and striking purple blooms.

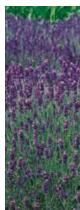
SUPERBLUE

Height: 10 to 12 in. (25 to 30 cm) **Bloom Months:** June to August USDA Hardiness Zones: $5\ to\ 8$ Darwin Perennials 'Balavurlu' PP24,929

- Rich blue blooms on short flower spikes.
- · Less gapping among spikes for more
- · Excellent Winter hardiness and landscape performance.



Lavandula 'Blue Cushion'





Lavandula 'Hidcote' Lavandula 'Jean Davis'



Lavandula 'Munstead'



Lavandula Platinum Blonde



Lavandula 'Thumbelina Leigh'



Lavandula 'Vera'



Reblooming Spanish Lavenders have excellent weather tolerance and retail shelf life.



Lavandula French



Lavandula pinnata



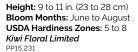


Lavandula Anouk Supreme



Lavandula Double Anouk

'THUMBELINA LEIGH'



Compact habit with sturdy stems of fragrant foliage and purple flowers.

'VERA'

Height: 24 to 30 in. (60 to 75 cm) **Bloom Months:** June to August **USDA Hardiness Zones:** 5 to 8

Long, broad, silver-green leaves and lavender flowers in Summer.

LAVANDULA 💛 (LAVENDER)

Lavandula dentata

FRENCH LAVENDER

Height: 28 in. (70 cm) Bloom Months: June to August **USDA Hardiness Zones:** 8 to 9

Tender perennial; purple-blue flowers are smaller than L. angustifolia.

LAVANDULA 🖯 (FERNLEAF LAVENDER)

Lavandula pinnata Height: 24 in. (60 cm)

Bloom Months: June to August USDA Hardiness Zones: 9 to 11

Tender perennial has shrub-like habit with gray-green leaves, large blue-purple flower spikes.



 Outstanding in containers and landscapes.

USDA Hardiness Zones: 6 to 9

LAVANDULA 🔵 (LAVENDER)

Lavandula stoechas

ANOUK SERIES

Darwin Perennials

- High resistance to foliar disease.
- 'Anouk' has dark violet flower spikes topped by clear purple flags.

Height: 14 to 18 in. (35 to 45 cm); 'Silver Anouk' 20 to 24 in. (50 to 60 cm)

Bloom Months: March to September

- · Anouk Supreme flowers one week earlier than Anouk.
- Deep Rose has deep rose flags on lavender-rose flowers Double Anouk has double lavender
- flags on purple flowers. · 'Silver Anouk' is compact and upright
- with narrow, blue-silver foliage.
- White Anouk has bright white, non-burning flags on blue flowers.

'Anouk' PP16,685

Deep Rose 'Anouk Deluxe 179' PP26,493 Double Anouk 'Anouk Deluxe 1205' PPAF

'Silver Anouk' PP20.068

Anouk Supreme 'Anouk Deluxe 901'

White Anouk 'Anouk Deluxe 10173' PPAF



Lavandula Anouk Deep Rose



Lavandula White Anouk

37





compact variety is perfect for small novelty containers... and big sell-through!

BRIGHT LUXURIOUS

Height: 14 to 18 in. (35 to 45 cm) **Bloom Months:** March to July **USDA Hardiness Zones:** 6 to 9 *Darwin Perennials*

'Anouk Deluxe 1956' PP26,496

- Full, compact habit.
- · Excellent reblooming variety.
- Can be grown in quarts and specialty
 containers
- Lighter color flags than Luxurious.

LUXURIOUS

Height: 14 to 18 in. (35 to 45 cm) Bloom Months: March to July USDA Hardiness Zones: 6 to 9 Darwin Perennials

'Anouk Deluxe 109' PP26,494

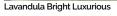
- Stands up to boxing and shipping better than other Spanish Lavenders.
 Outstanding weather and humidity
- · Very resistant to foliar disease.

'OTTO QUAST'

Height: 24 to 30 in. (60 to 75 cm) **Bloom Months:** June to August **USDA Hardiness Zones:** 7

Tender perennial with large, two-tone flowers, silvery foliage, upright habit.







Lavandula Luxurious



Lavandula 'Otto Quast'



Lavandula 'Goodwin Creek Grey'



Lavandula 'Dilly Dilly'



Lavandula 'Provence'



Lavandula Phenomenal

LAVANDULA 🜕 (LAVENDER)

Lavandula x ginginsii

'GOODWIN CREEK GREY'

Height: 36 in. (90 cm) where hardy, 12 to 18 in. (30 to 45 cm) in non-hardy zones

Bloom Months: June to August USDA Hardiness Zones: 7 to 10

Tender perennial has small, intense purple flowers on long wands.

LAVANDULA (LAVENDER) Lavandula x intermedia

'DILLY DILLY'

Height: 12 in. (30 cm) **Bloom Months:** June to August USDA Hardiness Zones: 6 to 9

Compact growth habit with flower spikes high above the foliage.

PHENOMENAL™

Height: 24 to 32 in. (60 to 80 cm) Bloom Months: June to August USDA Hardiness Zones: 5 to 8 Cultivaris North America LLC 'Niko' PP24,193

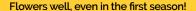
Strong, disease-resistant foliage and long purple flower spikes in Summer; overwinters well.

'PROVENCE'

Height: 30 in. (75 cm) Bloom Months: June to August USDA Hardiness Zones: 5 to 8

Fragrant, light purple florets atop graygreen, evergreen leaves.







Makes a fun, frilly statement in beds and containers.

LEUCANTHEMUM (SHASTA DAISY)

Leucanthemum x superbum

'BECKY'

Height: 36 in. (90 cm) **Bloom Months:** June to August USDA Hardiness Zones: 5 to 8

Big, single white flowers and shiny, deep green foliage.

FREAK!®

Height: 13 in. (33 cm) **Bloom Months:** June to August USDA Hardiness Zones: $5\ to\ 8$ Blooms of Bressingham 'LEUZ0001' PP23.426

Fluffy-looking flowers on compact, well-branched plants make a real garden show-stopper.

OOH LA™ 'LACROSSE'

Height: 10 to 12 in. (25 to 30 cm) **Bloom Months:** June to August **USDA Hardiness Zones:** 4 to 8

- Unique, trumpet-shaped white petals.
- · Compact, dark green foliage.
- · Ideal for borders, rock gardens and

OOH LA™ 'LASPIDER'

NEW FOR 2017

Height: 12 to 14 in. (30 to 35 cm) Bloom Months: June to July USDA Hardiness Zones: 4 to 10

- Attractive semi-double flowers.
- * Fringed flower petals.
- · Compact habit.

REALFLOR® COLLECTION

Height: 16 to 36 in. (40 to 90 cm) Bloom Months: June to August USDA Hardiness Zones: 5 to 9 PlantHaven, Inc.

Well-branched, floriferous varieties with unique flower forms, improved disease resistance and upright habits.

'Real Dream' PP25,664 'Real Galaxy' PP23,873 'Real Glory' PP25,733



Leucanthemum 'Becky



Leucanthemum Freak!



Leucanthemum Realflor 'Real Dream'



Leucanthemum Leucanthemum Realflor 'Real Galaxy' Realflor 'Real Glory'





Leucanthemum Spellbook 'Lumos'



Leucanthemum 'Snowcap



Lithodora 'Grace Ward'



Lithodora 'Heavenly Blue'



Impressively hardy variety of a perennial garden classic!



Lithodora 'White Star'

'SANTÉ'



- Double, pure white flowers with yellow centers.
- Strong stems make an excellent cut flower.
- Upright habit.

SPELLBOOK® 'LUMOS'

Height: 12 to 18 in. (30 to 45 cm) Bloom Months: April to August USDA Hardiness Zones: 5 to 9 EuroAmerican

Fade-resistant, true yellow flowers; blooms wonderfully without vernalization.

'SNOWCAP'

Height: 14 to 18 in. (35 to 45 cm) Bloom Months: June to August USDA Hardiness Zones: 4 to 8 Blooms of Bressingham

Compact, single white Shasta Daisy flowers on exceptionally uniform plants.

LITHODORA O

'GRACE WARD'

Height: 8 to 12 in. (20 to 30 cm) **Bloom Months:** March to April **USDA Hardiness Zones:** 6 to 8

Low-growing, trailing habit with glossy green, mat-forming leaves and intense blue flowers at the ends of lateral stems in early Spring.

'HEAVENLY BLUE'

Height: 8 to 12 in. (20 to 30 cm) **Bloom Months:** March to April **USDA Hardiness Zones:** 6 to 8

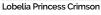
Low-growing, spreading variety with small, mid-blue flowers and evergreen foliage in warm climates.

'WHITE STAR'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: May to June USDA Hardiness Zones: 6 to 8 Blooms of Bressingham PR20 078

Neat, compact bright green cushions with white-striped, bright blue flowers.





LOBELIA O (CARDINAL FLOWER) Lobelia hybrid

PRINCESS SERIES

Height: 20 in. (50 cm) Bloom Months: July to September USDA Hardiness Zones: 7 to 10Walter Blom Plants BV

- · Tender perennials.
- Bright, fan-shaped flowers.
- · Deep-toned foliage.

Crimson 'Gencrim' PP24,945 Rose 'Genross' PP24,930 Scarlet 'Genlet' PP24,944

LYCHNIS O (CATCHFLY)

Lychnis flos-cuculi

PETITE JENNY

Height: 14 in. (35 cm) Bloom Months: May to June USDA Hardiness Zones: 3 to 8Blooms of Bressingham 'LychJen' PP14,139

Double-flowered dwarf variety forms compact, bushy clumps with masses of soft lavender-pink blooms.

LYSIMACHIA 🔾 🕕 (LOOSESTRIFE) Lysimachia punctata

'ALEXANDER'

Height: 24 in. (60 cm) **Bloom Months:** August to September USDA Hardiness Zones: 4 to 9 PlantHaven, Inc.

Bright golden flowers on upright stems with variegated cream and green leaves.

LYSIMACHIA (LOOSESTRIFE) Lysimachia nummularia

'GOLDI'

Height: 2 to 4 in. (5 to 10 cm) Bloom Months: None USDA Hardiness Zones: 3 to 10

Trailing habit and golden foliage are beautiful in mixed containers.

MAZUS 🔾 🕕 (CREEPING MAZUS)

Mazus reptans Height: 2 in. (5 cm)

Bloom Months: May to June USDA Hardiness Zones: 5 to 8

Small, toothed leaves and purple-blue flowers with red and yellow spots.



Lychnis Petite Jenny



Lysimachia 'Goldi'



Lobelia Princess Rose



Lysimachia 'Alexander'



Mazus reptans



Mentha 'Kentucky Colonel'



Mentha Spanish Mint



Mentha Spearmint



Mentha Apple Mint



Mentha 'Variegata'



Mentha spicata 'KENTUCKY COLONEL'

Height: 24 in. (60 cm) Bloom Months: None USDA Hardiness Zones: 3 to 7

Robust-growing spearmint with large leaves and sweet/spicy flavor.

SPANISH MINT

Height: 12 to 24 in. (30 to 60 cm) Bloom Months: None USDA Hardiness Zones: 3 to 7

Spearmint-scented green leaves and flowers of lilac and white.

SPEARMINT

Height: 36 in. (90 cm) Bloom Months: None **USDA Hardiness Zones:** 3 to 7

Spearmint-scented green leaves with purple-blue flowers.



Mentha Ginger Mint



APPLE MINT

Height: 36 in. (90 cm) Bloom Months: Summer USDA Hardiness Zones: 6 to 9

Vigorous habit, apple-scented leaves, pinkish-white whorled flowers in Summer.

'VARIEGATA'

Height: 24 in. (60 cm) Bloom Months: None **USDA Hardiness Zones**: 6 to 9

Green and white variegated leaves with sweet pineapple scent.

MENTHA 🖯 🌑 (MINT)

Mentha x gracillis

GINGER MINT

Height: 6 to 12 in. (15 to 30 cm) Bloom Months: None USDA Hardiness Zones: 5 to 9 Spreading habit with ginger-flavored

leaves and violet flowers.



Mentha Chocolate Mint



CHOCOLATE MINT

Height: 24 in. (60 cm)

Bloom Months: None

USDA Hardiness Zones: 3 to 7

surprising chocolate-y scent.

Bronzy peppermint-like foliage with a



Mentha Peppermint



MOJITO

Height: 36 in. (90 cm) Bloom Months: None USDA Hardiness Zones: 5 to 9

Refreshing mint flavor and fragrance; will develop pinkish-white blooms.

Mentha Mojito

'CITRATA'

Height: 24 in. (60 cm) Bloom Months: None USDA Hardiness Zones: 3 to 7 Very fragrant Orangemint with a neat,

attractive habit.

PEPPERMINT

Height: 24 in. (60 cm) Bloom Months: None USDA Hardiness Zones: 3 to 7

Deliciously spicy scent - great for tea.





Monarda Balmy Purple



Monarda Balmy Lilac



Monarda Balmy Rose



Monarda Balmy Pink



Monarda 'Blue Stocking'



Monarda Grand Parade



Monarda 'Marshall's Delight'



Monarda 'Raspberry Wine'

MONARDA 🔘 🕕 (BEE BALM, BERGAMOT) Monarda didyma

BALMY™ SERIES

Height: 10 to 12 in. (25 to 30 cm) Bloom Months: June to July **USDA Hardiness Zones:** 4 to 9 Darwin Perennials

Pollinator power! Native cultivars with heat and drought tolerance in North

- True, uniform series is tops in powdery mildew resistance.
- Full, compact plants with strong, bold color.
- Free-flowering varieties attract attention at retail.
- · Deer and rabbit-resistant.
- Native to North America, a favorite nectar source of bees and butterflies.

Balmy Rose rated Best of Species at Penn State University, Landisville, Pennsylvania, first season.

Lilac 'Balbalmac' PP26,594 Pink 'Balbalmink' PP26.566 Purple 'Balbalmurp' PP25,561 Rose 'Balbalmrose' PP26,567

'BLUE STOCKING'

Height: 24 to 48 in. (60 to 120 cm) Bloom Months: June to August USDA Hardiness Zones: 4 to 9

Striking, deep violet flowers attract butterflies and hummingbirds.

GRAND PARADE™

Height: 12 to 16 in. (30 to 40 cm) Bloom Months: June to July **USDA Hardiness Zones**: 3 to 8 Bailey Nurseries, Inc. 'Acrade' PP19,580

Lots of lavender-purple flowers mid through late Summer, with aromatic foliage that smells like mint when

'JACOB CLINE'

Height: 48 in. (120 cm) Bloom Months: June to August **USDA Hardiness Zones:** 4 to 9

Fire-red, tubular blooms stand out in the garden.

'MARSHALL'S DELIGHT'

Height: 24 to 36 in. (60 to 90 cm) Bloom Months: June to August **USDA Hardiness Zones:** 4 to 9

Plants have pink blooms on stout stems, with high tolerance to mildew.

'RASPBERRY WINE'

Height: 24 to 36 in. (60 to 90 cm) Bloom Months: June to July USDA Hardiness Zones: 4 to 9

Raspberry-like buds open to wine-red flowers with dark green, mildewresistant foliage.



Monarda 'Jacob Cline'



More floriferous than some other Nepeta cultivars as extensively trialed by ${\rm Star}^{\rm \tiny lt}$ Roses And Plants.



Muehlenbeckia 'Nana



Nepeta 'Six Hills Gold' Nepeta 'S



Nepeta 'Six Hills Giant'

MUEHLENBECKIA (MAIDENHAIR VINE)

Muehlenbeckia axillaris

'NANA'

Height: 3 in. (7 cm) **Bloom Months:** May to July **USDA Hardiness Zones:** 6 to 10

Bright green, rounded leaves on burgundy-green stems with tiny yellow-green flowers.



'SIX HILLS GIANT'

Height: 24 to 36 in. (60 to 90 cm) **Bloom Months:** May to October **USDA Hardiness Zones:** 4 to 8

A robust grower with large blue flowers.

'SIX HILLS GOLD'

Height: 24 to 36 in. (60 to 90 cm) **Bloom Months:** May to October **USDA Hardiness Zones:** 4 to 8

Variegated cream and green fuzzy foliage with long-blooming violet-blue flowers.

NEPETA (CATMINT)

Nepeta x faassenii

'BLUE WONDER'

Height: 12 in. (30 cm) **Bloom Months:** June to August **USDA Hardiness Zones:** 3 to 8

Dwarf, mounding variety with deep purple-blue flowers and fragrant, gray-green foliage.

'DROPMORE'

Height: 12 in. (30 cm) **Bloom Months:** May to October **USDA Hardiness Zones:** 4 to 8

Silvery, aromatic foliage and blue flowers that bloom long and freely.

JUNIOR WALKER

Height: 18 in. (45 cm)
Bloom Months: May to September
USDA Hardiness Zones: 5 to 8
Darwin Perennials

'Novanepjun' PP23,074

- Lavender-blue flowers with gray-green foliage.
- Compact habit.
- Uniform flower canopy.

'LIMELIGHT'

Height: 6 to 8 in. (15 to 20 cm) **Bloom Months:** May to October **USDA Hardiness Zones:** 4 to 8 *Terra Nova Nurseries, Inc.*

Violet-blue flowers and lime green foliage with more pronounced color in Spring.

LITTLE TRUDY®

Height: 10 to 14 in. (25 to 35 cm) **Bloom Months:** May to October **USDA Hardiness Zones:** 4 to 9 *Plant Select*

'Psfike' PP18,904

Deep lavender-blue flowers and serrated, narrow gray-green leaves.

'WALKER'S LOW'

Height: 24 to 30 in. (60 to 75 cm) **Bloom Months:** June to August **USDA Hardiness Zones:** 3 to 8

- · One of the longest-flowering Catmints.
- Profuse blue-purple flowers complement fragrant silver leaves.
- Compact mounds spread to 24 in. (60 cm) wide.



Nepeta 'Blue Wonder



Nepeta 'Dropmore'





Ocimum 'Kasar'



Oenothera 'Siskiyou'



Nepeta Little Trudy



Oenothera 'Shimmer'



Origanum 'Kent Beauty'



Origanum 'Aureum'

OCIMUM (BASIL)
Ocimum basilicum



Height: 28 to 32 in. (70 to 80 cm) Bloom Months: None USDA Hardiness Zones: 9 to 11

Tender perennial has purple shading from leaf base to green tip: tasty and beautiful!

OENOTHERA (EVENING PRIMROSE)

Oenothera berlandieri

'SISKIYOU'

Height: 10 to 12 in. (25 to 30 cm) Bloom Months: June to August USDA Hardiness Zones: 4 to 8

Neat, compact and floriferous with pink flowers. $\,$

OENOTHERA (EVENING PRIMROSE)

Oenothera macrocarpa ssp. fremontii

'SHIMMER'

Height: 10 to 12 in. (25 to 30 cm) **Bloom Months:** June to August **USDA Hardiness Zones:** 5 to 8 *PlantHaven, inc.*

PP19.663

Papery, lemon yellow flowers and narrow silvery foliage.

ORIGANUM (OREGANO)

Origanum majorana

'COMPACTUM'

Height: 3 to 6 in. (7 to 15 cm) **Bloom Months:** None **USDA Hardiness Zones:** 4 to 9

(NOT SHOWN) Marjoram with small, round leaves and neat, compact habit.

ORIGANUM (ORNAMENTAL OREGANO)

Origanum rotundifolium

'KENT BEAUTY'

Height: 4 in. (10 cm)

Bloom Months: Late Summer to Fall **USDA Hardiness Zones:** 5 to 8

Clusters of hop-like, pendant bracts; color segues from green to mauve-pink.

ORIGANUM O (OREGANO)

Origanum vulgare

'AUREUM'

Height: 12 in. (30 cm) **Bloom Months:** None **USDA Hardiness Zones:** 5 to 9

Golden oregano with light lavenderpurple flowers, chartreuse spreading foliage.



Nepeta 'Walker's Low'



Origanum vulgare 'Compactum'



Origanum Greek Oregano



Origanum 'Hot And Spicy'



Origanum Variegated Oregano



Origanum Italian Oregano



Reblooms throughout the season for maximum color.

'COMPACTUM'

Height: 6 in. (15 cm) Bloom Months: None **USDA Hardiness Zones:** 5 to 9

Spicy flavor and fragrance, smaller mounding habit and leaves, pale pink to white flowers.

GREEK OREGANO

Height: 12 to 28 in. (30 to 70 cm) **Bloom Months:** None $\textbf{USDA Hardiness Zones:}\ 4\ to\ 9$ Strong-growing, hardy strain.

'HOT AND SPICY'

Height: 36 in. (90 cm) Bloom Months: None **USDA Hardiness Zones:** 4 to 9

Highly aromatic scent and spicy flavor,

VARIEGATED OREGANO

Height: 16 in. (40 cm) Bloom Months: None USDA Hardiness Zones: $4\ to\ 9$

Green with creamy variegated edge, spreading/mounding habit.

ORIGANUM 🛑 (OREGANO)

Origanum x majoricum

ITALIAN OREGANO

Height: 18 to 24 in. (30 to 70 cm) **Bloom Months:** None USDA Hardiness Zones: $5\ to\ 9$ Deliciously scented culinary herb.

PENSTEMON O (BEARD TONGUE) Penstemon barbatus

'ELFIN PINK'

Height: 14 in. (35 cm) Bloom Months: June to July USDA Hardiness Zones: 4 to 9

A profusion of pale pink tubular bells on wiry stems.

'PRAIRIE DUSK'

Height: 24 in. (60 cm) Bloom Months: June to July USDA Hardiness Zones: 4 to 9

Rosy purple, trumpet-shaped blooms on thin spikes.

Penstemon 'Prairie Dusk'



Penstemon 'Elfin Pink'

DARWIN PERENNIALS



Penstemon 'Dark Towers'



Penstemon 'Prairie Twilight'



Bright bubblegum-pink flowers rebloom throughout the season.



Double the flowering time for longer shipping and selling window, more color in the garden.



Prolific rebloomer with lilac flowers and compact habit.

PENSTEMON O (BEARD TONGUE)

Penstemon digitalis

'DARK TOWERS'

Height: 36 in. (90 cm) Bloom Months: June to July USDA Hardiness Zones: 3 to 8 Terra Nova Nurseries, Inc. PP20,013

North American native cultivar has bronzy-red foliage with spires of pink trumpet flowers; darker foliage and larger plant than 'Husker Red'

'PRAIRIE TWILIGHT'

Height: 22 in. (56 cm) Bloom Months: June to July **USDA Hardiness Zones:** 4 to 9 Blooms of Bressingham PP19,893

Showy, late Spring perennial has masses of tubular, white-tipped lavender flowers that attract bees and hummingbirds.

PENSTEMON O (BEARD TONGUE)

Penstemon hybrid

QUARTZ™ SERIES

Height: 20 to 24 in. (50 to 60 cm) Bloom Months: July to August USDA Hardiness Zones: 6 to 9 Darwin Perennials

- · Sturdy, upright habit.
- · Good basal branching.

Amethyst 'Novapename' PPAF Rose 'Novapenros' PPAF

'CHERRY SPARKS'

NEW FOR 2017

Height: 18 to 20 in. (45 to 50 cm) Bloom Months: May to August USDA Hardiness Zones: 5 to 9 Darwin Perennials

- · Bigger blooms with bright, cherry-red
- More heat-tolerant and Winter-hardy than other varieties
- Sterile, non-invasive variety has no big, unsightly seed heads.

LITTLE BELLS

Height: 16 in. (40 cm) Bloom Months: June to July **USDA Hardiness Zones**: 6 to 9 Darwin Perennials 'Novapenbel' PPAF

- · Flowers profusely in early Spring and reblooms in Fall.
- Rich purple flowers with white throat.
- · Dark green foliage forms a nice basal





Penstemon Rock Candy Purple



Penstemon Rock Candy Blue DARWIN PERENNIALS



Fast fill and double the flowering window for extended shipping, selling and seasonal color.



Penstemon Rock Candy Ruby





Penstemon Rock Candy Light Pink



Penstemon Pikes Peak Purple



ROCK CANDY® SERIES

Height: 12 in. (30 cm) Bloom Months: June to September **USDA Hardiness Zones:** 6 to 8 Darwin Perennials

Compact varieties bloom in bold colors... "sweet as candy, tough as nails!"

- Bell-shaped blooms on compact flower spikes.
- Plump panicles stand out against green foliage.
- Fits well at the front of a border, along walkways and in containers.

Blue 'Novapenblu' PPAF Light Pink 'Novapenlig' PPAF Pink 'Novapenpin' PPAF Purple 'Novapenpur' PPAF Ruby 'Novapenrub' PPAF



Penstemon hybrida

MISSIONBELLS™ DEEP ROSE

Height: 20 to 24 in. (50 to 60 cm) **Bloom Months:** June to August USDA Hardiness Zones: 5 to 9

Darwin Perennials

- · Makes a bold presentation at retail for great sell-through.
- Loaded with blooms for a spectacular garden show from Spring to Fall.
- · Sterile, non-invasive variety with attractive dark stems for contrast.

Penstemon x mexicali

(BEARD TONGUE)

PENSTEMON O

PIKES PEAK PURPLE®

Height: 30 in. (75 cm) Bloom Months: June to July **USDA Hardiness Zones:** 4 to 9 Plant Select

Grape jelly-colored flowers with striped throats on a bushy clump of narrow green leaves.

RED ROCKS®

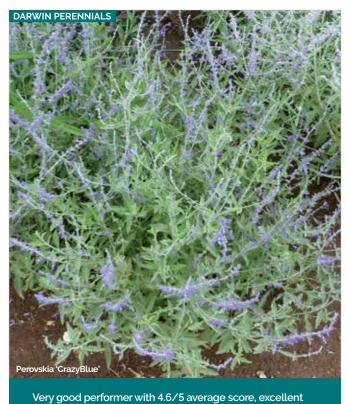
Height: 30 in. (75 cm) Bloom Months: June to July USDA Hardiness Zones: 4 to 9 Plant Select

'P008S'

Bright rose flowers with magenta-veined white throats on an attractive mound of narrow, dark green leaves.

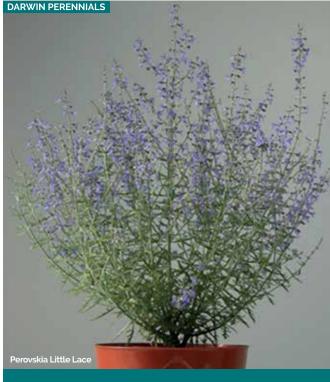


Penstemon Red Rocks



flowering from Penn State University, Landisville,

Pennsylvania, 1st season in 2015.



One of Colorado State University's "Top Performers" for 2015 Season: Class of 2013 and Grown in 2015.

PEROVSKIA 🖯 (RUSSIAN SAGE)

Perovskia atriplicifolia

Height: 50 in. (130 cm) Bloom Months: July to September USDA Hardiness Zones: 4 to 9

Spikes of light blue flowers over aromatic gray-green foliage.

'CRAZYBLUE

Height: 16 to 18 in. (40 to 45 cm) **Bloom Months:** July to August USDA Hardiness Zones: 4 to 9 Darwin Perennials PP25,639

- · Unique interlacing branches prevent breakage during shipping.
- Looks good longer at retail and in patio Height: 36 to 42 in. (90 to 106 cm) containers
- Deeper blue flowers than any other Perovskia.

LACEY BLUE

Height: 12 to 18 in. (30 to 45 cm) Bloom Months: July to September USDA Hardiness Zones: 4 to 9 Concept Plants B.V. 'Lisslit' PP20.845

- · Truly dwarf variety stays small in subséquent years.
- · Features the largest flowers of any Russian Sage.
- · Dense branching prevents flopping.

LITTLE LACE

Height: 12 to 18 in. (30 to 45 cm) Bloom Months: July to September USDA Hardiness Zones: 4 to 9 Darwin Perennials 'Novaperlac' PP26,618

- · Unique growth habit combines a shorter plant with great uniformity.
- Long-lasting purple flower spikes create a lot of flower power. • A good choice for xeric areas.
- PEROVSKIA O

(RUSSIAN SAGE)

Perovskia x hybrida

'LONGIN'

Bloom Months: July to September USDA Hardiness Zones: 4 to 9

Narrow, upright habit with airy spikes of lavender blooms and narrow silver



Perovskia Lacey Blue



Perovskia atriplicifolia



Perovskia 'Longin'



Phlox 'May Breeze'





Phlox Goldmine Improved

PHLOX 🕕 🌑 (WOODLAND PHLOX) Phlox divaricata



Height: 12 in. (30 cm) Bloom Months: April to May USDA Hardiness Zones: 4 to 8 Loads of fragrant, dark blue flowers.

'MAY BREEZE'

Height: 15 to 18 in. (38 to 45 cm) Bloom Months: April to May USDA Hardiness Zones: 4 to 8

Fragrant, light blue flowers.

PHLOX (GARDEN PHLOX) Phlox hybrid

'PINK PROFUSION'

Height: 8 in. (20 cm) Bloom Months: March to June USDA Hardiness Zones: 5 to 8 Chicagoland Grows, Inc.

Oversized purplish-pink blossoms feature broad, overlapping petals.

'VIOLET PINWHEELS'

Height: 4 in. (10 cm) **Bloom Months:** March to May **USDA Hardiness Zones:** 4 to 8 Chicagoland Grows, Inc.

Plants feature low mounds of soft, dark green, needlelike foliage and vivid purple flowers with notched, upturned petals.

PHLOX O (GARDEN PHLOX)

Phlox paniculata 'BLUE BOY'

Height: 36 in. (90 cm) **Bloom Months:** June to August USDA Hardiness Zones: 4 to 8

Extremely prolific plants have blue blooms with white eyes and foliage with blue overlay.

'BRIGHT EYES'

Height: 24 to 30 in. (60 to 75 cm) Bloom Months: June to August USDA Hardiness Zones: 4 to 8

Fragrant blooms are pale pink with crimson eye

'EVA CULLUM'

Height: 24 to 30 in. (60 to 75 cm) Bloom Months: June to August USDA Hardiness Zones: 4 to 8 Blooms of Bressingham

Warm pink florets with red eyes.

GOLDMINE IMPROVED

NEW FOR 2017

Height: 24 to 28 in. (60 to 70 cm) Bloom Months: June to July USDA Hardiness Zones: 4 to 9 Rene van Gaalen B.V. 'Goldmine IMP' PPAF

- Gold and green variegated foliage.Improved habit and disease resistance.



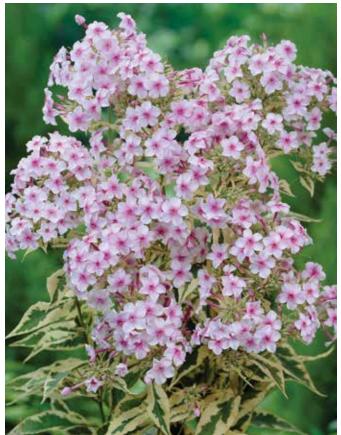
Phlox 'Violet Pinwheels'



Phlox 'Bright Eyes'



Phlox 'Eva Cullum'



Phlox 'Laura'







Phlox 'Norah Leigh'

'LAURA'

Height: 24 to 30 in. (60 to 75 cm) Bloom Months: June to August USDA Hardiness Zones: 4 to 8

Large, fragrant, fuchsia-purple blooms with white, star-shaped patterns.

'NICKY'

Height: 24 to 36 in. (60 to 90 cm) Bloom Months: July to September USDA Hardiness Zones: 4 to 8

Intense, deep magenta-purple flower heads.

'NORAH LEIGH'

Height: 36 in. (90 cm) Bloom Months: July to September USDA Hardiness Zones: 4 to 8

Pale pink flowers and variegated leaves of creamy white with thin green center.

'STARFIRE'

Height: 36 in. (90 cm) Bloom Months: July to September

USDA Hardiness Zones: $4\ to\ 8$ Brilliant red flowers atop deep bronze/ green foliage.

YOUNIQUE SERIES

NEW FOR 2017

Height: 14 to 16 in. (35 to 40 cm) Bloom Months: June to July USDA Hardiness Zones: 4 to 9 Compass Plants B.V.

New series of large-flowered, compact garden Phlox.

Bicolor 'Versbicolor' PP24,790 Old Cerise 'Verscerise' PP26,102 Old Blue 'Versoldblue' PP26,070 Red

PHLOX • (CREEPING PHLOX) Phlox stolonifera

'HOME FIRES'

Height: 8 in. (20 cm) Bloom Months: April to May USDA Hardiness Zones: $4\ to\ 8$

Shade groundcover with deep pink flower clusters.

'SHERWOOD PURPLE'

Height: 6 in. (15 cm) Bloom Months: April to May USDA Hardiness Zones: $4\ to\ 8$

(NOT SHOWN) Excellent shady groundcover with fragrant, purple-blue flower.







Phlox Younique Old Blue

Phlox Younique Red





Phlox Younique Bicolor

Phlox Younique Old Cerise

Phlox 'Home Fires'

54



Phlox 'Coral Eyes



Phlox 'Emerald Blue' Phlox 'Emerald Cushion Blue'



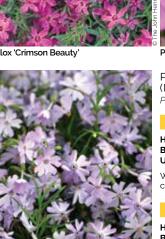
Phlox 'Emerald Pink'



Phlox 'Fort Hill'



Phlox 'Crimson Beauty'







PHLOX O (MOSS PHLOX) Phlox subulata

'AMAZING GRACE'

Height: 4 to 6 in. (10 to 15 cm) **Bloom Months:** Early Spring USDA Hardiness Zones: 2 to 8

White petals with a dash of red in the center; matures to pale pink.

'CANDY STRIPE'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: March to April USDA Hardiness Zones: 3 to 8

Low-growing plants form a carpet of white flowers striped with pink

'CORAL EYES'

Height: 4 to 6 in. (10 to 15 cm) **Bloom Months:** March to April USDA Hardiness Zones: 3 to 8

Blush-pink flowers with coral-red eye and green, needle-like leaves.

'CRIMSON BEAUTY'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: March to April **USDA Hardiness Zones:** 3 to 8

Rosy red blooms in early Spring.

'DRUMMOND'S PINK'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: March to April **USDA Hardiness Zones**: 3 to 8

The largest flowers of its type are pink with deep pink centers.

'EMERALD BLUE'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: March to April **USDA Hardiness Zones:** 3 to 8

Clear lavender-blue flowers in early

'EMERALD CUSHION BLUE'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: Early Spring USDA Hardiness Zones: 3 to 8

Lavender-blue flowers on a superior mounding habit.

'EMERALD PINK'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: March to April USDA Hardiness Zones: 3 to 8

Short, compact, mounded variety with long-flowering, hot pink blooms.

'FORT HILL'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: March to April **USDA Hardiness Zones:** 3 to 8

Fringed, slightly fragrant, deep pink flowers with dark eye.



Phlox 'Oakington Blue Eyes'

'MILLSTREAM DAPHNE'



Height: 4 to 6 in. (10 to 15 cm) Height: 4 to 6 in. (10 to 15 cm) Bloom Months: March to April Bloom Months: Early Spring USDA Hardiness Zones: 3 to 8 A profusion of pink flowers makes an excellent groundcover display.

Rich rose-pink flowers with magenta-red center ring.

'OAKINGTON BLUE EYES'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: Early Spring USDA Hardiness Zones: 2 to 8 Blooms of Bressingham

Evergreen mats of pine needle-like foliage with sky blue flowers.

'PURPLE BEAUTY'

Height: 4 to 6 in. (10 to 15 cm) **Bloom Months:** Early Spring **USDA Hardiness Zones:** 2 to 8

Deep purple blooms.

'RED WINGS'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: March to April $\textbf{USDA Hardiness Zones:}\ 3\ to\ 8$

Vigorous, with striking rosy red flowers in early Spring.

USDA Hardiness Zones: 2 to 8

'SCARLET FLAME'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: March to April **USDA Hardiness Zones:** 3 to 8

Red, star-shaped flowers over creeping, needle-like, evergreen foliage.

'SNOWFLAKE'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: March to April USDA Hardiness Zones: 3 to 8

A profusion of bright white blooms on a short, tight habit.

'WHITE DELIGHT'

Height: 3 to 6 in. (7 to 15 cm) Bloom Months: March to April USDA Hardiness Zones: 3 to 8

Pure white flowers on vigorous, dark green, spreading foliage.





Phlox 'Purple Beauty'



Phlox 'Red Wings'



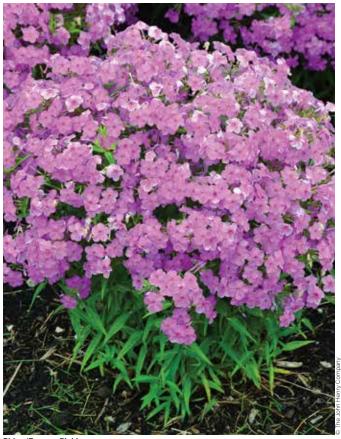
Phlox 'Scarlet Flame'



Phlox 'Snowflake'



Phlox 'White Delight'





Phlox 'Forever Pink'

Phlox Paparazzi Britney



Phlox Paparazzi Levine



Phlox Paparazzi Jagger



Phlox Paparazzi Angelina



PAPARAZZI® COLLECTION

Height: 5 to 10 in. (13 to 25 in.) Bloom Months: April to June USDA Hardiness Zones: 6a to 11 EuroAmerican Propagators LLC

Early flowering and great heat and humidity tolerance for durability in pots and in the landscape.

Adele 'PHL091601' PPAF Angelina 'PPPHL07301' PP23,702 Britney 'PPPHL0604' PP23,703 Jagger 'PHL090201' PPAF Levine 'PHL090401' PPAF Paris 'PPPH07201' PP23,705



Phlox Paparazzi Paris



Phlox Paparazzi Adele

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Polemonium Bressingham Purple

PHYSOSTEGIA O (OBEDIENT PLANT, FALSE DRAGONHEAD)

Physostegia virginiana

'MISS MANNERS'

Height: 18 to 24 in. (45 to 60 cm) **Bloom Months:** June to August **USDA Hardiness Zones:** 3 to 9 PlantHaven, Inc.

White flowers against dark foliage with sturdy stems: very "well-behaved."

POLEMONIUM O (JACOB'S LADDER) Polemonium cæruleum

BRISE D'ANJOU

Height: 12 to 18 in. (30 to 45 cm) Bloom Months: May to June USDA Hardiness Zones: $4\ to\ 9$ Blooms of Bressingham

Violet-blue flowers from late Spring to early Summer on bushy clumps of creamy-edged, fern-like foliage.



'TOUCH OF CLASS'

Height: 14 to 18 in. (35 to 45 cm) Bloom Months: May to June USDA Hardiness Zones: 4 to 9 Sunny Border Nursery PP19,768

Green and white variegated foliage with rich blue flowers and an elegant habit.

POLEMONIUM O (JACOB'S LADDER) Polemonium yezoense

BRESSINGHAM PURPLE

Height: 18 to 24 in. (45 to 60 cm) Bloom Months: May to June **USDA Hardiness Zones:** 4 to 9 Blooms of Bressingham 'Polbress' PP15,367

Ferny foliage with deep lavender-blue flowers on burgundy stems.



PRUNELLA 🔵 (SELF-HEAL) Prunella hybrid

PP19.609

'SUMMER DAZE'

Height: 12 in. (30 cm) Bloom Months: June to July USDA Hardiness Zones: 5 to 7 PlantHaven, Inc.

Pink flower clusters and attractive oak-leaf foliage and habit.



Prunella 'Summer Daze'



Polemonium Brise D'Anjou



Polemonium 'Touch of Class'



Rhodanthemum 'Marrakech'



Rhodanthemum 'Marrakech'



Rhodanthemum 'Casablanca'

RHODANTHEMUM O Rhodanthemum hosmariense

'MARRAKECH'

Height: 12 to 14 in. (30 to 35 cm) **Bloom Months:** March to May and September to October **USDA Hardiness Zones:** 8 to 10

Darwin Perennials

- Early Spring-flowering tender perennial extends your selling season.
 Excellent season starter, along with
- Casablanca.

 More cold-tolerant than
 Argyranthemum and Osteospermum.

'CASABLANCA'

Height: 10 to 12 in. (25 to 30 cm) Bloom Months: March to May and September to October

USDA Hardiness Zones: $8\ to\ 10$ Darwin Perennials

- $\boldsymbol{\cdot}$ Tender perennial flowers early in the season.
- Floriferous variety has a neat, compact habit.
- · Winter-hardy in the South-survives a
- freeze.
 Ideal for early-Spring containers and landscapes.



Rosmarinus officinalis



Rosmarinus 'Arp



Rosmarinus 'Barbecue'



Rosmarinus 'Gorizia



Rosmarinus 'Huntington Carpet'



Rosmarinus 'Madeline Hill'



Rosmarinus 'Prostratus'



Rosmarinus 'Salem'

ROSMARINUS 🖯 (ROSEMARY)

Rosmarinus officinalis

Height: to 5 ft. (1.5 m) Bloom Months: None **USDA Hardiness Zones:** 8 to 11

Shrubby tender perennial has evergreen needle-like leaves with pungent pine

'ARP'

Height: to 5 ft. (1.5 m) Bloom Months: None **USDA Hardiness Zones:** 7 to 11

Tender perennial with needle-like leaves, woody stems and sparkling blue flowers.

'BARBECUE'

Height: to 4 ft. (1.2 m) Bloom Months: None **USDA Hardiness Zones:** 8 to 11

Tender perennial has upright habit with long, sturdy stems perfect for skewers.

'GORIZIA'

Height: 4 to 5 ft. (1.2 to 1.5 m) Bloom Months: None **USDA Hardiness Zones**: 8 to 11

Upright tender perennial with strong, dark green foliage and blue flowers.

'HUNTINGTON CARPET'

Height: 18 in. (45 cm) Bloom Months: None USDA Hardiness Zones: 8 to 11

Prostrate tender perennial with strong, green foliage and blue flowers.

'MADELINE HILL'

Height: 3 ft. (0.9 m) Bloom Months: None USDA Hardiness Zones: 6 to 11

Sturdy, upright form; reputably hardy to Zone 6.

'PROSTRATUS'

Height: 6 to 12 in. (15 to 30 cm) Bloom Months: None USDA Hardiness Zones: 8 to 11

Low-growing tender perennial's flexible stems make great "living wreaths" and topiaries.

'SALEM'

Height: 3 ft. (0.9 m) Bloom Months: None USDA Hardiness Zones: 8 to 11

Tender perennial but hardier than most, with a tidy, upright habit.

'SPICE ISLAND'

Height: to 3 ft. (0.9 m) Bloom Months: None USDA Hardiness Zones: $8\ to\ 11$

Vigorous tender perennial with thick, sturdy, dark green foliage.

'TUSCAN BLUE'

Height: 3 ft. (0.9 m) Bloom Months: None USDA Hardiness Zones: 8 to 11

Tender perennial has bushy, upright, spreading habit and larger leaves than



Rosmarinus 'Spice Island'



Rosmarinus 'Tuscan Blue'



Salvia Arctic Blaze Purple



Salvia Arctic Blaze Fuchsia



Bred for improved hardiness and terrific repeat blooming.



Rudbeckia 'Viette's Little Suzv



Sagina Irish Moss



Sagina 'Aurea'

RUDBECKIA

Rudbeckia speciosa

(BLACK-EYED SUSAN)

'VIETTE'S LITTLE SUZY'

Bloom Months: July to frost

Blooms of Bressingham

SAGINA • • (PEARLWORT)

Sagina subulata

IRISH MOSS

Height: 2 in. (5 cm)

'AUREA'

Height: 2 in. (5 cm)

Bloom Months: May to June

Bloom Months: May to June USDA Hardiness Zones: 4 to 7

Scotch Moss forms a chartreuse

groundcover with tiny white flowers.

USDA Hardiness Zones: 4 to 7

Solid green, tight grower with small white flowers.

USDA Hardiness Zones: 4 to 8

Height: 26 to 32 in. (66 to 80 cm)

Very floriferous habit, with deep yellow

flowers on sturdy stems and beautiful mahogany foliage in Fall.



Salvia Pineapple



PINEAPPLE SAGE

Height: 3 ft. (0.9 m) Bloom Months: None USDA Hardiness Zones: 8 to 11

Tender perennial with pineapplescented foliage and red flowers.



'FURMAN'S RED'

Height: 12 to 20 in. (30 to 50 cm) Bloom Months: Mid-May to July **USDA Hardiness Zones**: 7 to 9 Plant Select

Tender perennial with a compact. upright habit; luxurious, deep rose-red flowers and bright green, rounded foliage.



Salvia guaranitica

'BLACK & BLUE' Height: 3 ft. (0.9 m)

Bloom Months: Late Summer to frost $\textbf{USDA Hardiness Zones:} \ 7 \ to \ 10$

Tender perennial has sky-blue flowers and pitch-black calyxes.



Salvia 'Furman's Red'



Salvia 'Ember's Wish'



ARCTIC BLAZE™ SERIES

Height: 24 in. (60 cm) Bloom Months: March to September USDA Hardiness Zones: 6 to 11 Darwin Perennials

· Bright blooms.

SALVIA 🖯

Salvia hybrida

(SAGE)

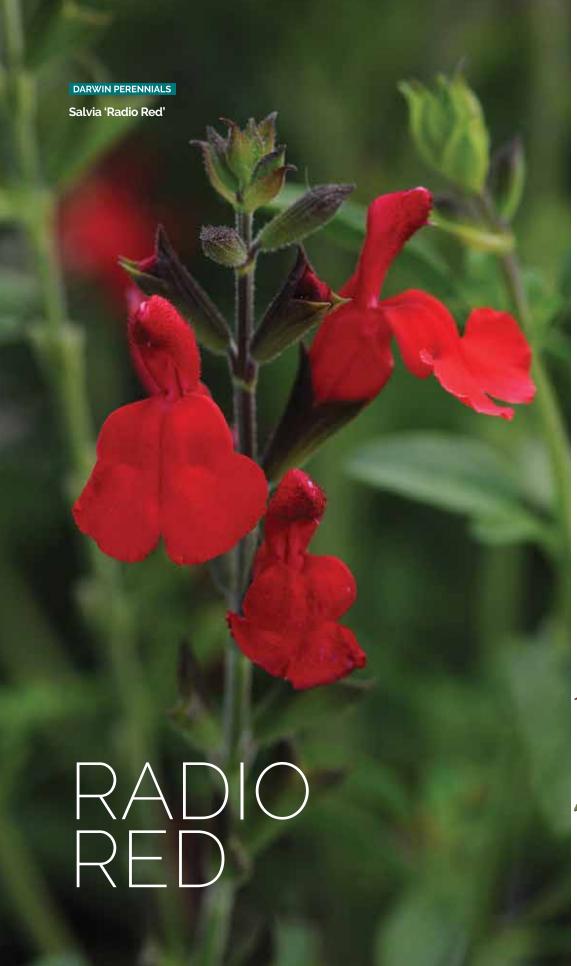
- · Compact habit with sturdy, flexible
- · Blooms from Spring through Fall.

Purple 'Novasalpur' PPAF Fuchsia 'Novasalfuc' PPAF Red 'Novasalred' PPAF

'EMBER'S WISH'

Height: 32 in. (80 cm) Bloom Months: May to September USDA Hardiness Zones: 9 to 10 Plants Management Australia

Fast-growing variety displays vibrant coral tubular flowers on lush, mid-green foliage complemented by maroon stems.



SALVIA (SAGE)
Salvia greggii

'RADIO RED'

Height: 16 to 18 in. (40 to 45 cm) Bloom Months: March to September USDA Hardiness Zones: 7 to 10 Darwin Perennials

PP26,362

Finally: a good, true red *S. greggii* meets demand for this popular color.

- Keeps its color longer than other red varieties.
- · Well-branched plants.
- Blooms all Summer long nice in containers.

Rated Best of Species at Penn State University, Landisville, Pennsylvania, first season.









Salvia Suncrest 'Fire Dancer'





Salvia 'Love and Wishes'



Salvia Suncrest 'Dancing Dolls'

DARWIN

Salvia Suncrest 'Autumn Moon'



Salvia Suncrest 'Golden Girl'





Salvia Suncrest 'Flamenco Rose'



Salvia Suncrest 'Shell Dancer'

Salvia Suncrest 'Lemon Light'



Salvia 'Santa Barbara'

SALVIA 🛑 (SAGE) Salvia hybrid

'LOVE AND WISHES'

NEW FOR 2017 Height: 32 in. (80 cm) Bloom Months: Summer to frost **USDA Hardiness Zones:** 9

- Plants Management Australia Forms a ball of color with no pruning or
- deadheading. dead reading.

 A portion of plant proceeds goes to Make-A-Wish® Australia

 Reblooming, heat-tolerant variety makes a good cut flower.

SUNCREST SERIES

COMPACT COLLECTION

Height: 10 to 15 in. (25 to 38 cm) Bloom Months: March to September USDA Hardiness Zones: 7 to 11 Darwin Perennials

Compact, tidy, well-branched tender perennials

'Autumn Moon' PP24,106 'Bright Eyes' PP22,491 'Fancy Dancer' PP24,088 'Fire Dancer' 'Flamenco Rose' 'Golden Girl' PP23,997 'Lemon Light' PP24,105 'Orchid Glow' PP22,520

LANDSCAPE COLLECTION

Height: 24 to 36 in. (60 to 90 cm) Bloom Months: March to September **USDA Hardiness Zones**: 7 to 11 Darwin Perennials

Tender perennials with a moderately sized plant habit.

'Dancing Dolls' PP19,820 'Shell Dancer' PP20,680

'WENDY'S WISH'

Height: 30 to 40 in. (75 to 100 cm) **Bloom Months:** Summer to frost **USDA Hardiness Zones:** 9 PlantHaven, Inc. PP21 889

- · Vivid magenta tubular flowers with fluted tips.
- Large glossy foliage and a compact, slightly open habit.
- Great for use in landscapes and containers

SALVIA 💛 (SAGE)

Salvia leucantha

'SANTA BARBARA'

Height: 24 in. (60 cm) Bloom Months: Mid-May to July **USDA Hardiness Zones:** 7 to 10 PlantHaven, Inc. PP12.949

Tender perennial with large spikes of purple flowers and tomentose graygreen leaves.

Salvia 'Wendy's Wish'





Salvia Mirage Cherry Red

DARWIN

Salvia Mirage Soft Pink

Salvia 'Caradonna'



DARWIN





NEW FOR 2017 DARWIN

DARWIN

DARWIN

Salvia Mirage

DARWIN

Burgundy









Attractive burgundy buds and calyxes for long-lasting flower power.

SALVIA O (SAGE) Salvia greggii

MIRAGE™ SERIES

NEW FOR 2017

Height: 12 to 14 in. (30 to 35 cm) Bloom Months: March to September **USDA Hardiness Zones:** 7 to 9 Darwin Perennials

Bold, brightly colored blooms stand out at retail and in the landscape

- · Self-branching, mounded habit resists breaking for easy shipping and less shrink.
- · Can be sold as annual in the North: overwinters in the South.
- · Heat-tolerant series features a full range of intense flower colors.
- · Less maintenance and more color in the garden.

Burgundy 'Balmirbur' PPAF Cherry Red 'Balmircher' PPAF Cream 'Balmiream' Deep Purple 'Balmirdepur' PPAF Hot Pink 'Balmirhopi' Neon Rose 'Balmirnose' Pink 'Balmirpink' Soft Pink 'Balmirsopin'

Violet 'Balmirvio' PPAF

SALVIA 🛑 (SAGE) Salvia nemorosa

'BLUE HILL'

Height: 20 in. (50 cm) Bloom Months: Mid-May to July USDA Hardiness Zones: 4 to 9

Long bloomer produces lilac-blue flowers on neat clumps of gray-green foliage.

'BURGUNDY CANDLES'

Height: 26 to 28 in. (65 to 70 cm) Bloom Months: March to September USDA Hardiness Zones: 4 to 9 Darwin Perennials

- Strong, semi-upright, vigorous plants.Plenty of retail and landscape appeal.
- Excellent performer in Summer heat.
- · Suitable for two-gallon programs.

'CARADONNA'

Height: 24 to 30 in. (60 to 75) Bloom Months: Mid-May to July USDA Hardiness Zones: 4 to 9

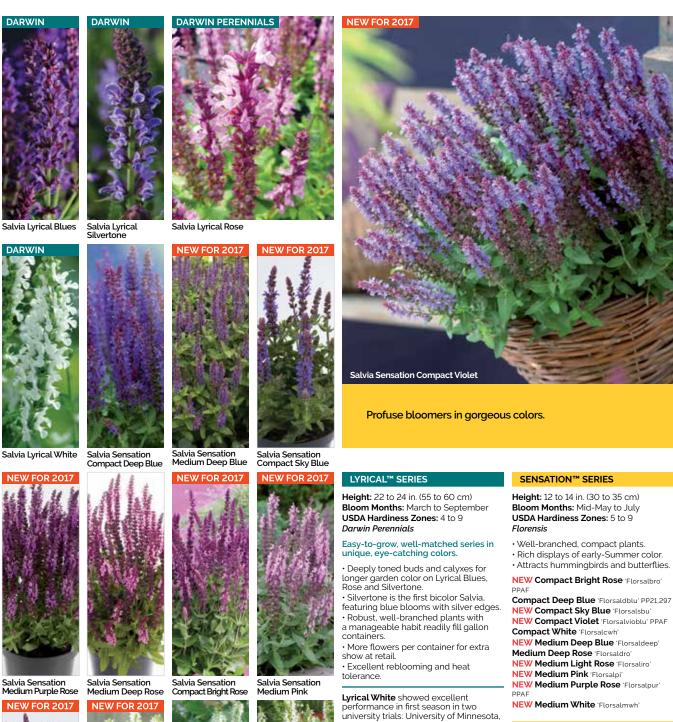
Rich violet-blue flowers on glowing purple-black stems.

'EAST FRIESLAND'

Height: 18 in. (45 cm) Bloom Months: Mid-May to July USDA Hardiness Zones: 4 to 9

Compact, upright plant with medium green basal leaves and deep purple flowers.





'SNOW HILL'

Height: 20 in. (50 cm) Bloom Months: Mid-May to July USDA Hardiness Zones: 4 to 9

Mounded, gray-green foliage with white



Salvia Sensation

Medium White





Salvia 'Snow Hill'

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Morris, Minnesota (2015 season results)

Silvertone 'Balyricsil' PP23,310 White 'Florsalwhite' PP21,243



Salvia 'Aurea'



Height: 12 in. (30 cm) Bloom Months: Mid-May to July USDA Hardiness Zones: 4 to 9 Rijnbeek & Zn B.V. 'Haeumanarc' PP13,322

Compact variety has a broad, spreading habit and violet-blue flowers, perfect for edging, containers and small spaces.

'MAY NIGHT'

Height: 18 to 24 in. (45 to 60 cm) Bloom Months: Mid-May to July **USDA Hardiness Zones**: 4 to 9

Tall, upright plant with medium green leaves and large violet-purple flowers.



Salvia officinalis

'AUREA'

Height: 12 in. (30 cm) Bloom Months: None **USDA Hardiness Zones:** 5 to 8

Golden Sage has chartreuse leaves edged in gold.

'BERGGARTEN'

Height: 24 in. (60 cm) Bloom Months: None USDA Hardiness Zones: 5 to 8

Culinary and decorative variety has large gray-green leaves, deep blue flowers and spicy scent.

'BERGGARTEN VARIEGATED'

Height: 24 in. (60 cm) Bloom Months: None USDA Hardiness Zones: 5 to 8

Spicy-scented variegated leaves on a culinary and decorative plant.

GARDEN SAGE

Height: 32 in. (80 cm) Bloom Months: None USDA Hardiness Zones: $5\ to\ 8$

Strongly aromatic, gray-green foliage.

'ICTERINA'

Height: 16 in. (40 cm) Bloom Months: None USDA Hardiness Zones: $6\ to\ 9$

Fragrant gray-green leaves with yellow margins and bluish-purple flowers in

'PURPURASCENS'

Height: 12 to 24 in. (30 to 60 cm) Bloom Months: None USDA Hardiness Zones: $6\ to\ 9$

Purple Sage has bluish-purple stems



Salvia 'Purpurascens'



Salvia 'Marcus'



Salvia 'May Night'



Salvia 'Berggarten'



Salvia 'Berggarten Variegated'



Salvia Garden Sage



Salvia 'Icterina



Salvia 'Purple Rain'



Salvia 'Tricolor'



Salvia 'Ultra Violet'

'TRICOLOR'

Height: 12 to 18 in. (30 to 45 cm) **Bloom Months:** None **USDA Hardiness Zones:** 5 to 8

Green, white and pink foliage with habit and scent like rest of species.

SALVIA (SAGE)
Salvia verticillata

'PURPLE RAIN'

Height: 24 in. (60 cm) **Bloom Months:** June to August **USDA Hardiness Zones:** 5 to 8

Purple blooms form globes of individual florets up the stem with spacing between the globes.

SALVIA (SAGE) Salvia x hybrida

'ULTRA VIOLET'

Height: 18 to 24 in. (45 to 60 cm) Bloom Months: Summer to frost USDA Hardiness Zones: 5b to 9 PlantHaven, Inc.

Vibrant purple flowers and aromatic, mid-green foliage.



SECRETS OF SALVIA

During the Middle Ages, some people referred to Salvia (p. 61-69) as "Sage the Savior." The plant was known for its healing properties and value. It was one of the ingredients in a blend of herbs used to ward off the plague.

Back then, people said "Sage" was "singularly good for the head and brain, it quickeneth the senses and memory, strengtheneth the sinews, restoreth health to those that have the palsy, and taketh away shakey trembling of the members."

Today some researchers claim that extracts of Sage may enhance cognitive performance, comparable to the effect produced by caffeine.

The vivid red tubular flowers with fluted tips on **Salvia 'Radio Red'** (p. 62) attract hummingbirds from late Spring until Fall.

The Louisiana State University Agricultural Center named **Salvia 'Ember's Wish'** (p. 61) one of the top 10 new bedding plant varieties for 2015, proven best in Hammond, LA, landscape trials in 2014.

Some of the information above is from Dr. Allan M. Armitage, Professor Emeritus of Horticulture, UGA, and author of It's Not Just About The Hat, Herbaceous Perennial Plants (3rd edition) Website: www.allanarmitage.net

FLUTTER DARWIN PERENNIALS Scabiosa Flutter Deep Blue **COMPACT SERIES** IS EASY TO SHIP, SHOW AND LOVE!



Scabiosa Flutter Rose Pink



Scabiosa 'Butterfly Blue'



Santolina virens



Scabiosa 'Pink Mist'



Santolina 'Nana'



Scabiosa Flutter Deep Blue

SCABIOSA (PINCUSHION FLOWER)
Scabiosa columbaria

FLUTTER™SERIES

Height: 12 to 18 in. (30 to 45 cm) Bloom Months: March to September USDA Hardiness Zones: 5 to 9 Darwin Perennials

Compact habit and shorter peduncles for easier shipping and showing!

- Deeper colors, better habit and larger flowers than 'Butterfly Blue' and 'Pink Mist'.
- Neater displays for greater sell-through at retail.
- Hardy plants with long flowering windows.
- Beautiful in the landscape and in mixed containers
- mixed containers.

 Very disease-resistant.

Deep Blue 'Balfluttdelu' PPAF Rose Pink 'Balfluttropi' PPAF

'BUTTERFLY BLUE'

Height: 16 to 18 in. (40 to 45 cm) **Bloom Months:** May to hard frost **USDA Hardiness Zones:** 5 to 9

Compact, tidy mounds of deep green basal leaves with wiry stems hold single, round, lavender-blue flowers.

'PINK MIST'

Height: 16 to 18 in. (40 to 45 cm) **Bloom Months:** June to August **USDA Hardiness Zones:** 5 to 9 *PlantHaven, Inc.*

- Compact, upright habit is similar to 'Butterfly Blue'.
- Green, textured leaves.
- Soft pink, fully double flowers.

SANTOLINA (LAVENDER COTTON)
Santolina incana

'NANA'

Height: 8 in. (20 cm) **Bloom Months:** July to August **USDA Hardiness Zones:** 6 to 9

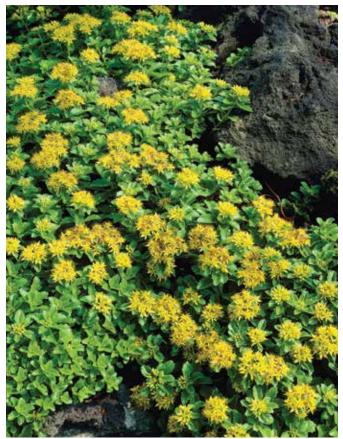
Finely divided, aromatic silver foliage and yellow button flowers.

SANTOLINA (LAVENDER COTTON)

Santolina virens

Height: 14 in. (35 cm) **Bloom Months:** July to August **USDA Hardiness Zones:** 6 to 9

Deep green foliage and bright yellow button flowers.



Sedum kamtschaticum

SEDUM, GROUNDCOVER O (STONECROP)

Sedum album

'ATHOUM'

Height: 6 to 8 in. (15 to 20 cm) Bloom Months: July to August USDA Hardiness Zones: 3 to 9

Plump, dark green rosettes of redtipped, evergreen leaves and light pink to white flowers.

'CORAL CARPET'

Height: 2 to 6 in. (5 to 15 cm) Bloom Months: Spring to Summer USDA Hardiness Zones: 4 to 9

Creeping groundcover with red-tinged, deep green leaves and tiny, pale pink flowers.

SEDUM, GROUNDCOVER (STONECROP)

Sedum dasyphyllum

'MAJOR'

Height: 4 in. (10 cm) **Bloom Months:** Spring to Summer USDA Hardiness Zones: 4 to 9

Prostrate mats of tight blue foliage and small, white flowers.

SEDUM, GROUNDCOVER 🔾 (STONECROP)

Sedum kamtschaticum

Height: 6 to 8 in. (15 to 20 cm) **Bloom Months:** Spring to Summer USDA Hardiness Zones: 4 to 9

Scalloped, deep green leaves are covered with mounds of yellow-gold flowers.

Sedum kamtschaticum variegatum

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: June to August **USDA Hardiness Zones:** 4 to 9

Compact plants have variegated foliage with creamy margins and star-shaped yellow blooms that mature to red.

'WEIHENSTEPHANER GOLD'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: Spring to Summer USDA Hardiness Zones: 3 to 8

Golden yellow flowers and red seed heads on prostrate, scalloped green foliage.

SEDUM, GROUNDCOVER (STONECROP)

Sedum makinoi

'OGON'

Height: 4 in. (10 cm)

Bloom Months: Spring to Summer **USDA Hardiness Zones**: 7 to 9

Ground-hugging tender perennial has chartreuse foliage and dainty yellow flowers.



Sedum kamtschaticum variegatum



Sedum 'Athoum'



Sedum 'Coral Carpet'



Sedum 'Major'



Sedum 'Weihenstephaner Gold'





Sedum pachyclados



Sedum sieboldii



Sedum 'Dragon's Blood'



Sedum 'Blue Spruce'

(STONECROP)



Sedum 'Angelina'

Sedum pachyclados Height: 3 in. (7 cm) **Bloom Months:** Spring to Summer **USDA Hardiness Zones:** 5 to 9 Deep blue, scalloped foliage forms a tight mound, with white, star-shaped flowers.

SEDUM, GROUNDCOVER (STONECROP)

SEDUM, GROUNDCOVER 🔾

Sedum reflexum

'BLUE SPRUCE'

Height: 3 to 6 in. (7 to 15 cm) **Bloom Months:** July to August USDA Hardiness Zones: 4 to 9

Low-growing, spreading plants have blue, needle-like foliage and yellow

SEDUM, GROUNDCOVER (STONECROP)

Sedum rupestre

'ANGELINA'

Height: 3 to 6 in. (7 to 15 cm) Bloom Months: July to August **USDA Hardiness Zones:** 3 to 9

Low-growing and fast-spreading, with fleshy, needle-like, golden yellow foliage.

SEDUM, GROUNDCOVER 🔵 (STONECROP)

Sedum sexangulare

Height: 4 in. (10 cm) Bloom Months: Spring to Summer **USDA Hardiness Zones**: 5

Dense carpets of fine green foliage with bright yellow flowers in Spring.

SEDUM, GROUNDCOVER 🔵 (STONECROP)

Height: 6 in. (15 cm)
Bloom Months: September to October $\textbf{USDA Hardiness Zones:}\ 6\ to\ 9$

Semi-evergreen, blue-green, succulent foliage with pink flowers in Fall.

SEDUM, GROUNDCOVER (STONECROP)

Sedum spurium

'DRAGON'S BLOOD'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: July to August USDA Hardiness Zones: 3 to 9

Green leaves with red margins turn bright red in Fall, with deep red blooms in Summer.



Sedum sexangulare



Sedum 'Fuldaglut'



Sedum 'John Creech'



Sedum 'Tricolo



Sedum tetractinum



Sedum 'Coral Reef



Sedum 'Chocolate Ball'



Sedum 'Lemon Ball'



Sedum 'Class Act'

'CLASS ACT' Height: 18 in. (45 cm)



Sedum 'Mr. Goodbud'

'FULDAGLUT'

Height: 3 to 4 in. (7 to 10 cm) Bloom Months: Spring to Summer **USDA Hardiness Zones:** 4 to 9

Dark green, spreading foliage turns redorange in Fall, with red flowers in July.

'CORAL REEF'

Height: 3 to 4 in. (7 to 10 cm) Bloom Months: July to August USDA Hardiness Zones: 4 to 9

SEDUM, MOUNDING

Mounded, spreading groundcover has small yellow flowers and smooth green foliagé that turns red in Fall.

SEDUM, UPRIGHT, FALL-FLOWERING (STONECROP) Sedum x hybrida

'JOHN CREECH'

Height: 2 in. (5 cm) Bloom Months: June USDA Hardiness Zones: 3 to 9

Dense groundcover with striking green foliage and pink-purple blooms spills from containers.

Sedum hakonense

(STONECROP)

Bloom Months: June to September

Little plants with brown-red, needle-like foliage bloom with yellow flowers in Summer.

'MR. GOODBUD'

Height: 17 in. (42 cm)

Bloom Months: Late Summer to Fall **USDA Hardiness Zones:** 4 to 9 Terra Nova Nurseries, Inc.

Bloom Months: Late Summer to Fall

Showy, rose-pink flowers with a full, upright habit.

USDA Hardiness Zones: 4 to 9

Terra Nova Nurseries, Inc.

'TRICOLOR'

Height: 3 to 4 in. (8 to 10 cm) **Bloom Months:** June to August USDA Hardiness Zones: 3 to 9

Mat-forming, with small, rounded, green leaves edged in white and tinged in pink; pink blooms.

SEDUM, GROUNDCOVER O (STONECROP)

Sedum tetractinum Height: 3 in. (7 cm)

Bloom Months: Spring to Summer USDA Hardiness Zones: 4 to 9

Mats of succulent green foliage with red-bronze color in Fall and yellow flowers in Summer.

'CHOCOLATE BALL'

Height: 2 to 3 in. (5 to 7 cm) **USDA Hardiness Zones:** 6 to 9

SEDUM, MOUNDING 💛 (STONECROP)

Sedum x hybrida

'LEMON BALL'

Height: 6 in. (15 cm) Bloom Months: June to July USDA Hardiness Zones: 7 to 9

Vivid mounds of chartreuse foliage stay dense, bushy and bright all Summer long.

Compact habit with dark mauve flowers

PARTY HARDY™ SERIES

Height: 11 to 18 in. (28 to 45 cm) Bloom Months: Late Summer to Fall **USDA Hardiness Zones:** 4 to 9 Terra Nova Nurseries, Inc.

'Birthday Party' has rosy pink flowers on green foliage; 'Pool Party' has bright pink blooms on blue-green foliage.

'Birthday Party' PP22,826 'Pool Party' PP22,842



Sedum Party Hardy 'Birthday Party'



Sedum Party Hardy 'Pool Party'



Sedum 'Vera Jameson'



Sedum 'Autumn Fire



Sedum 'Autumn Joy



Sedum 'Pink Bomb'

'VERA JAMESON'

Height: 10 to 16 in. (25 to 40 cm) **Bloom Months:** August to September USDA Hardiness Zones: 3 to 9

Large clusters of pink flowers and waxy, gray-green leaves that turn burgundy as Summer progresses.

SEDUM, UPRIGHT, FALL-FLOWERING (STONECROP) Sedum spectabile

'AUTUMN FIRE'

Height: 24 to 30 in. (60 to 75 cm) Bloom Months: Late Summer to Fall **USDA Hardiness Zones:** 3 to 9

Dense, robust habit; flowers start bluegreen and mature to pink, deep red and finally bronze.

'AUTUMN JOY'

Height: 18 to 24 in. (45 to 60 cm) Bloom Months: Late Summer to Fall USDA Hardiness Zones: 3 to 10

Blue-green flower heads turn rosy pink and intensify to deep ruby red, then bronze.

'PINK BOMB'

Height: 10 to 12 in. (25 to 30 cm) Bloom Months: Late Summer to Fall USDA Hardiness Zones: 5 to 10

Lovely pink flowers and uniform, compact, succulent foliage.



DARWIN **PERENNIALS** SHINES IN TRIALS

Here are some "top performer" and "excellent" perennial varieties ranked in garden trials in 2015.

COLORADO STATE UNIVERSITY, FORT COLLINS, CO

Perovskia Little Lace (p. 52) Named one of "Top Performers

Veronica Moody Blues® Dark Blue (p. 83) Long bloom period and abundant spikes of dark blue flowers made this a standout. Plants were very uniform and had excellent winter hardiness. Additionally, plants had good resistance to disease and there was no sign of powdery mildew. The entire Moody Blues series was noted for superior performance.

FRANKLIN PARK CONSERVATORY, COLUMBUS, OH

Achillea New Vintage™ Violet (p. 1) - Excellent overall average score for second season 2015.

Salvia Lyrical™ White (p. 67) - Excellent performance in first season 2015.

PENN STATE UNIVERSITY, LANDISVILLE, PA

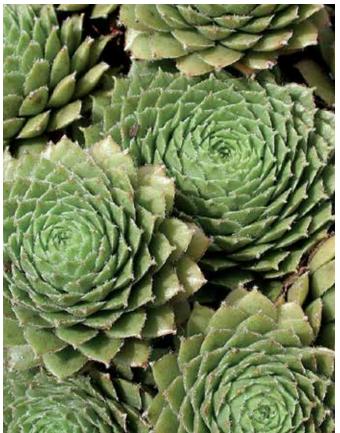
Heuchera 'Carnival Coffee Bean' (See DarwinPerennials.com) Excellent performer in the shade, 4.8/5 average shade rating, "Best of Species."

Heuchera 'Carnival Cocomint,' and 'Carnival Fall Festival' (See DarwinPerennials.com) Excellent performer in the shade, 4.7/5 average shade rating.

UNIVERSITY OF MINNESOTA, MORRIS, MN

Achillea New Vintage™ Violet (p. 1) Excellent overall average score for 2015 season.

Salvia Lyrical™ White (p. 67) Excellent performance in first season 2015.



Sempervivum 'Silverine'

SEMPERVIVUM 0 (HENS & CHICKS) Sempervivum

'CARMEN'

Height: 2 to 8 in. (5 to 20 cm) **Bloom Months:** June to September USDA Hardiness Zones: 3 to 8

Emerald green succulent leaves with bright red tips.

'COMMANDER HAY'

Height: 1 to 3 in. (2.5 to 7 cm) **Bloom Months:** June to September USDA Hardiness Zones: 3 to 8

Clumps of red and green rosettes.

'KALINDA'

Height: 2 to 8 in. (5 to 20 cm) Bloom Months: June to September **USDA Hardiness Zones:** 5 to 9

Large succulent leaves held in tight green heads with blood-red tips.

'RED BEAUTY'

Height: 4 in. (10 cm) Bloom Months: June to September **USDA Hardiness Zones:** 3 to 8

- · Dense rosettes are red in Summer and turn burgundy in cold weather.
- · Color may vary from season to season.
- Produces clusters of light pink flowers in mid-Summer.



Sempervivum 'Carmen'



Sempervivum 'Commander Hay



Sempervivum 'Kalinda'



Sempervivum 'Royal Ruby'

'ROYAL RUBY'

Height: 3 to 4 in. (7 to 10 cm) Bloom Months: June to September **USDA Hardiness Zones**: 3 to 8

Forms dense mats of dark wine-red foliage.

'RUBY HEART'

Height: 2 to 8 in. (5 to 20 cm) Bloom Months: June to September **USDA Hardiness Zones**: 3 to 8

Rosettes start red, turning green with red margins as they grow.

'SILVERINE'

Height: 3 to 4 in. (7 to 10 cm) Bloom Months: June to September **USDA Hardiness Zones:** 3 to 8

Muted green foliage with red overtones.

SEMPERVIVUM 0 (HENS & CHICKS) Sempervivum arachnoideum

'COBWEB'

Height: 2 to 8 in. (5 to 20 cm) Bloom Months: June to September **USDA Hardiness Zones**: 5 to 8

Pale green rosettes covered with fine silver hairs; produces bright reddish-pink flowers.



Sempervivum 'Red Beauty'



Sempervivum 'Ruby Heart'



Sempervivum 'Cobweb'



Silene 'Clifford Moor'



Sempervivum 'Sunset'



Solidago Little Lemon



Solidago 'Fireworks'



Silene 'Druett's Variegated'

SEMPERVIVUM 0 (HENS & CHICKS)

Sempervivum tectorum

'SUNSET'

Height: 2 to 8 in. (5 to 20 cm) **Bloom Months:** June to September **USDA Hardiness Zones:** 3 to 8

Emerald green leaves with red tips take on orange/red cast in cool weather.

SILENE (CAMPION) Silene dioica

'CLIFFORD MOOR'

Height: 18 in. (45 cm) Bloom Months: May to July USDA Hardiness Zones: 5 to 8

Variegated leaves with deep green centers and creamy gold margins; single pink flowers.

SILENE 0 (CAMPION) Silene uniflora

'DRUETT'S VARIEGATED'

Height: 3 to 6 in. (7 to 15 cm) Bloom Months: May to July USDA Hardiness Zones: 3 to 7

Deep green leaves with wide, creamy white margins; white pinwheel flowers; prostrate habit.

SOLIDAGO (GOLDENROD) Solidago

LITTLE LEMON

Height: 12 to 18 in. (30 to 45 cm) **Bloom Months:** July to September **USDA Hardiness Zones:** 4 to 9 PlantHaven, Inc. 'Dansolitlem' PP17,297

Compact, well-branched plants completely covered with racemes of bright lemon-yellow flowers in Summer.

SOLIDAGO (GOLDENROD) Solidago rugosa

'FIREWORKS'

Height: 36 to 48 in. (90 cm to 1.2 m) Bloom Months: July to September USDA Hardiness Zones: 5 to 9

Golden yellow flowers with wild, multibranched panicles.

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Stachys 'Hummelo'

STACHYS O (LAMB'S EAR) Stachys byzantia

'HELENE VON STEIN'

Height: 12 in. (30 cm) **Bloom Months:** July USDA Hardiness Zones: 4 to 9

- Clump-forming habit with big, broad
- leaves.
 Velvety-soft, greenish-silver foliage.
 Great for edging, border gardens and

'SILVER CARPET'

containers.

Height: 8 in. (20 cm) Bloom Months: June to July **USDA Hardiness Zones:** 4 to 9

Drought-tolerant, low-growing and spreading variety with soft and fuzzy, oval, gray-white leaves.

STACHYS O (LAMB'S EAR) Stachys monnieri

'HUMMELO'

Height: 20 in. (50 cm) Bloom Months: June to July USDA Hardiness Zones: 4 to 8

Compact clumps of textured, glossy green foliage with spikes of purple flowers.

STEVIA O

Stevia rebaudiana

Height: to 24 in. (60 cm) Bloom Months: None USDA Hardiness Zones: 9 to 11

Tender perennial used as a dietary supplement; dried leaves are many times sweeter than sugar.

TEUCRIUM (GERMANDER)

Teucrium chamaedrys

Height: 12 in. (30 cm) Bloom Months: Summer **USDA Hardiness Zones:** 4 to 9

Evergreen sub-shrub with deep green leaves and rosy-purple flowers.



Stachys 'Helene Von Stein'



Stevia rebaudiana



Teucrium chamaedrys

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Thymus 'Spicy Orange'



TOTAL STATE



Thymus 'Albiflorus'

Thymus 'Pseudolanuginosus'



Thymus 'Hartington Silver'



Thymus citriodorus



Height: 4 to 5 in. (10 to 12 cm) **Bloom Months:** None **USDA Hardiness Zones:** 7 to 9

Lemon-scented, medium-green leaves are splashed with cream.



Height: 2 to 4 in. (5 to 10 cm) **Bloom Months:** None **USDA Hardiness Zones:** 5 to 9

Needle-like leaves with a spicy orange scent; soft lavender flowers in late Spring.

THYMUS (THYME)

Thymus praecox

'ALBIFLORUS'

Height: 2 in. (5 cm) **Bloom Months:** None **USDA Hardiness Zones:** 4 to 9

Low-growing habit with green leaves and white flowers.

'COCCINEUS'

Height: 2 to 4 in. (5 to 10 cm) **Bloom Months:** None **USDA Hardiness Zones:** 5 to 9

Low-growing perennial with small, elliptical green leaves and fuchsia-red blooms in Summer.



Height: 2 to 4 in. (5 to 10 cm) **Bloom Months:** None **USDA Hardiness Zones:** 5 to 9

Small green leaves with creamy white margins and tiny flowers of palest pink in late Spring.

'PINK CHINTZ'

Height: 0.25 in. (0.65 cm) **Bloom Months:** None **USDA Hardiness Zones:** 4 to 9

Mat-forming creeper with tiny green leaves and pink flowers.

'PSEUDOLANUGINOSUS'

Height: 2 to 4 in. (5 to 10 cm) **Bloom Months:** None **USDA Hardiness Zones:** 5 to 9

Wooly creeper with gray foliage and white flowers; good for dry locations.

THYMUS (THYME)

Thymus serpyllum

'ELFIN'

Heigh*t*: 1 in. (2.5 cm) **Bloom Months:** None **USDA Hardiness Zones:** 4 to 9

Tight, creeping groundcover with mats of tiny, dark green foliage and pink flowers in Summer.



Thymus 'Elfin'

Thymus 'Coccineus'



Thymus Silver Edged Thyme

'MAGIC CARPET'

Height: 2 in. (5 cm) Bloom Months: None USDA Hardiness Zones: 4 to 9

Tiny pink flowers float over mats of green, slightly hairy foliage.

THYMUS O (THYME) Thymus vulgaris

ENGLISH THYME

Height: 6 to 8 in. (15 to 20 cm) Bloom Months: None **USDA Hardiness Zones:** 4 to 9

Popular culinary variety has rounded leaves, purple-pink flowers and a semicreeping habit.

FRENCH THYME

Height: 6 to 8 in. (15 to 20 cm) Bloom Months: None USDA Hardiness Zones: 4 to 9

Purple to white flowers with narrow, fragrant green leaves.



Thymus 'Magic Carpet'



Thymus 'Doone Valley' Thyme



Thymus x citriodorus

'DOONE VALLEY' THYME

Height: 1 to 2 in. (2.54 to 5.08 cm) Bloom Months: June to July **USDA Hardiness Zones:** 5

Purple flowers with lemon-scented, green and golden variegated foliage. Excellent for planting between stepping stones and rock gardens.

LEMON THYME

Height: 8 in. (20 cm) Bloom Months: None **USDA Hardiness Zones**: 5 to 9

Lemon-scented green leaves and lavender-pink flowers.

GOLDEN LEMON THYME

Height: 4 in. (10 cm) Bloom Months: None **USDA Hardiness Zones**: 6 to 9

Pungently lemon-scented leaves are golden and variegated when grown in bright light.



Thymus English Thyme



Thymus Lemon Thyme

ORANGE THYME

Height: 12 in. (30 cm) Bloom Months: None USDA Hardiness Zones: 5 to 9

Orange or citrus-scented green leaves and lavender-pink flowers.

SILVER EDGED THYME

Height: 4 in. (10 cm) Bloom Months: None **USDA Hardiness Zones:** 4 to 9

Narrow green leaves with variable silver variegation, lavender-pink flowers, no lemon fragrance.

'VARIEGATUS'

Height: 4 in. (10 cm) Bloom Months: None USDA Hardiness Zones: 5 to 9

Lemon-scented green leaves with a thin, white-splashed margin and purple flowers.



Thymus French Thyme



Thymus Golden Lemon Thyme



Thymus Orange Thyme



Thymus 'Variegatus'



Veronica First Glory



Veronica First Love



Verbena 'Homestead Purple'



Veronica First Lady



VERONICA



Verbena 'Lollipop'

VERBENA (VERVAIN)
Verbena bonariensis

'LOLLIPOP'

Height: 24 in. (60 cm)
Bloom Months: May to frost
USDA Hardiness Zones: 7 to 11

Tender perennial has unique dwarf form with lavender-blue flowers.

VERBENA (VERVAIN)

Verbena canadensis

'HOMESTEAD PURPLE'

Height: 6 to 10 in. (15 to 25 cm) **Bloom Months:** May to frost **USDA Hardiness Zones:** 6 to 9

Small, deep purple flowers on vigorous, mounded plants.

VERBENA (VERVAIN)

Verbena x hybrida

'BILOXI BLUE'

Height: 6 to 8 in. (15 to 20 cm) **Bloom Months:** May to frost **USDA Hardiness Zones:** 7 to 10

Tender perennial with violet flower heads and green, slightly spreading, mounded foliage.

Veronica longifolia FIRST CHOICE

(SPEEDWELL)

NEW FOR 2017 Height: 22 in. (56 cm)

Bloom Months: June to September USDA Hardiness Zones: 4 to 9 Rene van Gaalen B.V.

- Nice, soft pink addition to the First series.
- · Long flowering.
- Vernalization not required.

FIRST GLORY

Height: 22 in. (56 cm) Bloom Months: June to September USDA Hardiness Zones: 4 to 8 Rene van Gaalen B.V.

- Compact, highly uniform plants.
- Short, thick spikes of deep blue flowers.
- Vernalization not required.

FIRST LADY

Height: 22 in. (56 cm) Bloom Months: June to September USDA Hardiness Zones: 4 to 8 Rene van Gaalen B.V.

- 'Alllady' PP23,271
- Compact plant habit.
- · Sturdy, white flower spikes.
- Vernalization not required.

FIRST LOVE

Height: 22 in. (56 cm)
Bloom Months: June to September
USDA Hardiness Zones: 4 to 9
Rene van Gaalen B.V.
'Allove' PPAF

- \bullet Uniform, short spikes of brilliant pink flowers.
- Short and well-branched plants.
- Excellent flower canopy without
- vernalization.



Verbena 'Biloxi Blue'





Veronica Moody Blues Light Blue



Veronica Moody Blues Mauve



Veronica Moody Blues Pink



Veronica Moody Blues White



Easy-to-grow variety makes an excellent season extender!



Veronica Moody Blues Dark Blue



Veronica Moody Blues Sky Blue



Veronica 'Giles Van Hees'

Veronica 'Red Fox'



Veronica 'Sunny Border Blue'



Compact series of first-year-flowering Veronica.

- Excellent 1–gallon production with great uniformity and habit.
- great uniformity and habit.

 Continues to cycle and bloom all season until first frost.
- Compact, tidy habit is great for any garden or mixed container.

Entire **Moody Blues** series noted for superior performance by Colorado State University trial in 2015.

Dark Blue 'Novaverblu' PPAF Light Blue 'Novaverlig' PPAF Mauve 'Novavermau' PP26.621 Pink 'Novaverpin' PP25.748 Sky Blue 'Novaversky' PPAF White 'Novaverskyi'

VERONICA (SPIKE SPEEDWELL)

Veronica spicata

'GILES VAN HEES'

Height: 6 in. (15 cm) **Bloom Months:** June to August **USDA Hardiness Zones:** 4 to 8

Dwarf form with dark green foliage and short, bright pink flower spikes.

'SUNNY BORDER BLUE'

Height: 18 to 24 in. (45 to 60 cm) **Bloom Months:** June to August **USDA Hardiness Zones:** 4 to 8

Long display of vivid blue flower spikes atop dark green leaves.

'RED FOX'

Height: 12 in. (30 cm) **Bloom Months:** June to September **USDA Hardiness Zones:** 3 to 8

Produces rose-red spikes in Summer.

ROYAL CANDLES

Height: 12 in. (30 cm) Bloom Months: June to August USDA Hardiness Zones: 4 to 8 Plant Haven, Inc.

Long-blooming dwarf variety with solid, conical spikes of bright violet-blue flowers.



VENICE BLUE

Height: 10 to 12 in. (25 to 30 cm) Bloom Months: March to April USDA Hardiness Zones: 4 to 9 Florensis

'Florverblue' PPAF

- Requires less vernalization than other austriaca types.
- Strong, upright stems for outstanding show at retail and in the garden.
 Early Spring-flowering variety loves heat.







Veronica 'Charlotte'



Veronica 'Georgia



Veronica 'Waterperry Blue'



Veronica 'Whitewater'



Veronica Goldwell



Veronica 'Sunshine'



Vinca minor



Vinca 'Bowles Cunningham'



Long-blooming variety with intense purple flowers and dark green foliage.



Unique double lavender flowers.

VERONICA 🔵 (SPEEDWELL) Veronica longifolia

'CHARLOTTE'

Height: 24 to 33 in. (60 to 84 cm) Bloom Months: June to September USDA Hardiness Zones: 4 to 9 Rijnbeek & Zn B.V.

Bright white flower spikes against white and green variegated foliage.

VERONICA 🖯 (SPEEDWELL)

Veronica peduncularis

'GEORGIA BLUE'

Height: 8 in. (20 cm) Bloom Months: March to April USDA Hardiness Zones: 5 to 8

Dense, gray-green, low-growing foliage with taller flowering stems covered with intense blue flowers.

'WATERPERRY BLUE'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: June to September **USDA Hardiness Zones:** 3 to 8

Spreading habit with light blue flowers and purple Winter foliage.

'WHITEWATER'

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: June to September **USDA Hardiness Zones:** 3 to 8 Chicagoland Grows Inc.

Sport of 'Waterperry Blue' produces bright white flowers on burgundy-green foliage.

VERONICA 💛 (SPEEDWELL)

Veronica prostrata

GOLDWELL

Height: 4 in. (10 cm) Bloom Months: June to September

USDA Hardiness Zones: 5 to 9 Blooms of Bressingham Verbrig' PP17,423

Blue-purple flowers over narrow green leaves edged in gold.

VERONICA (CREEPING SPEEDWELL)

Veronica repens

'SUNSHINE'

Height: 1 to 4 in. (2.5 to 10 cm) Bloom Months: June to July USDA Hardiness Zones: 4 to 8

Groundcover type, creeping with white blooms on gold foliage.

VERONICA 🔵 (SPEEDWELL)

Veronica x hybrida 'PURPLEICIOUS'

Height: 16 to 20 in. (40 to 50 cm) Bloom Months: June to August USDA Hardiness Zones: 5 to 8 Darwin Perennials PP17.639

- · Well-branched plants have a strong, tidy habit.
- · Very healthy, disease-free cultivar.

VINCA 🔾 🌑 (MYRTLE)

Height: 4 to 8 in. (10 to 20 cm) Bloom Months: May USDA Hardiness Zones: 4 to 9

Low, creeping habit with glossy green foliage and blue flowers.

'BOWLES CUNNINGHAM'

Height: 5 to 8 in. (13 to 20 cm) Bloom Months: April to May USDA Hardiness Zones: 4 to 9

Vigorous, spreading variety has thick, glossy leaves and sky blue flowers. Also known as 'Bowles'.

'ILLUMINATION'

Height: 4 in. (10 cm) Bloom Months: April to May USDA Hardiness Zones: 4 to 9 PlantHaven, Inc. PP12,132

Popular, low-growing, evergreen groundcover has variegated foliage and small, light lavender-blue flowers in Spring.

MOONLIT

Height: 4 to 8 in. (10 to 20 cm) Bloom Months: April to May **USDA Hardiness Zones:** 5 to 9 'Parvin' PP20.484

- · Grown primarily for its interesting,
- cream and green variegated leaves. • Unique, fully double lavender blooms appear in Spring.
- · Good garden groundcover that also trails in containers



DARWIN PERENNIALS Viola 'Halo Lemon Frost'

Extra-large, two-toned flowers captivate customers for early sales.

Viola 'Halo Violet'



Viola 'Blackout'

Vinca 'Illumination'

Viola Celestial Blue Moon



Viola Celestial Northern Lights





Viola Celestial Twilight

Viola Celestial 'Midnight'

Viola 'Etain'



DARWIN

Viola 'Halo Sky Blue'



Viola Celestial Starry Night DARWIN



Viola 'Halo Lilac'

'ETAIN'

Height: 8 to 10 in. (20 to 25 cm) Bloom Months: February to October **USDA Hardiness Zones**: 5 to 9

Compact variety flowers profusely in Spring and Fall with large, fragrant, bicolor blooms.

HALO SERIES

Height: 8 to 10 in. (20 to 25 cm) Bloom Months: February to April and September to October USDA Hardiness Zones: 5 to 9 Darwin Perennials

- Excellent hardiness for long-lasting garden enjoyment.
- Very heat-tolerant.
- No vernalization required.
- Oversummers and overwinters. · Larger flowers than Celestial.
- 'Halo Lemon Frost' PP26,383

'Halo Lilac' PP24,542 'Halo Sky Blue' PP24,541 'Halo Violet' PP24,428

CELESTIAL™ SERIES

'BLACKOUT'

Height: 5 to 6 in. (13 to 15 cm) Bloom Months: February to October $\textbf{USDA Hardiness Zones:}\ 5\ to\ 9$ PlantHaven. Inc.

· Heat-tolerant, low-maintenance

- Ever-blooming, early-Spring perennial in bright, rich colors.
- Overwinters and oversummers. • Heat-tolerant, highly scented varieties bloom all Summer.
- · No vernalization required. Blue Moon 'SMEV1' PP19,882

'Midnight' PPAF Northern Lights 'SMEV4' PP24,591 Starry Night 'Lord Primrose' PP18,253 Twilight 'SMEV3' PP24,592







Viola Bonnie Lassies 'Emma'



Viola Bonnie Lassies 'Isabella'



Viola Bonnie Lassies 'Laura'



Viola Bonnie Lassies 'Sarah'



BONNIE LASSIES™ SERIES

Height: 6 to 10 in. (15 to 25 cm) **Bloom Months:** Spring USDA Hardiness Zones: 5a to 8 Blooms of Bressingham

Truly hardy plants put on a long-lasting show of larger-than-average, slightly fragrant blooms.

'Emma' 'Isabella' 'Laura' 'Sarah'

VIOLA 🕕 (VIOLET)

Viola pubescens

'REBECCA CAWTHORNE' Height: 6 to 8 in. (15 to 20 cm) **Bloom Months:** Spring **USDA Hardiness Zones:** 5 to 9

Fragrant purple flowers splashed with white; sporadic reblooming.



JUMPING JACK

Height: 8 to 10 in. (20 to 25 cm) **Bloom Months:** February to April and September to October **USDA Hardiness Zones**: 5 to 9 Darwin Perennials 'Balvijac' PP21,084

- · Extremely floriferous, continuously blooming variety.
- · Good for Summer bedding, perennial borders and mixed containers.
- Much better heat tolerance than "Johnny Jump–Ups" of the past.

WALDSTEINIA (BARREN STRAWBERRY) Waldsteinia ternata

Height: 4 to 6 in. (10 to 15 cm) Bloom Months: May to June USDA Hardiness Zones: 3 to 8

Dense mats of semi-evergreen, strawberry-like foliage with yellow flowers.





Viola 'Rebecca Cawthorne'



Waldsteinia ternata

CULTURE GUIDE

A HANDY
REFERENCE TO
HELP YOU GROW
THE FINEST
PERENNIALS IN
THE INDUSTRY.

Page		Crop	Series/Variety	Media EC/pH	Soil Temperature	Rooting Hormone	
1	X	Achillea hybrid	Moon Dust	EC 10-1.25 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	500-1.000 ppm IBA	
1		Achillea millifolium	New Vintage™	EC 1.0-1.25 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500–1,000 ppm IBA	
2		Achillea millifolium	Song Siren™	EC 1.0-1.25 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	500–1,000 ppm IBA	
4		Agastache rugosa	Little Adder	EC 0.75-0.80 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	500 ppm IBA	
8		Alyssum wulfenianum	Golden Spring	EC 0.80-1.0 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	500 ppm IBA	
10		Boltonia asteroides var. latisquama	Jim Crockett	EC 0.80-1.0 mmhos/pH 5.8-6.2	68–74°F (20–24°C)	300 ppm IBA	
10		Buddleia davidii	Berry Fizz	EC 0.75-0.80 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	1,000 ppm IBA	
11		Buddleia davidii	Blaze Pink	EC 0.75-0.80 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	1,000 ppm IBA	
11		Buddleia davidii	Cran Razz	EC 0.75-0.80 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	1,000 ppm IBA	
12	意	Buddleia davidii	Flutterby Petite®	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	1,000 ppm IBA	
12		Buddleia davidii	True Blue	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	1,000 ppm IBA	
14	S	Campanula <i>x hybrida</i>	Iridescent Bells	EC 0.80-1.0 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	500–1,000 ppm IBA	
14		Caryopteris hybrid	Good As Gold	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	1,000-3,000 ppm IBA	
14		Caryopteris x clandonensis	Grand Bleu®	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	1,000-3,000 ppm IBA	
15		Centaurea montana	Lavender Mist	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	1,000 ppm IBA	

Mist	Fertilization	Pinching	Transplanting	Comments
Low to moderate	50–75 ppm N	Not necessary, remove premature flowers.	28–35 days after sticking	Do not over-mist.
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Low to moderate	50–75 ppm N	Not necessary, remove premature flowers.	28–35 days after sticking	Do not over-mist.
Low to moderate	50-75 ppm N	Recommended after roots are established. Leave 4–5 active internodes.	28–35 days after sticking	Stick cuttings the day of arrival, if possible.
Low	50–75 ppm N	Recommended.	35–42 days after sticking	This Alyssum requires light mist and soil moisture. Can be rooted under a dome or tent. Do not over-mist.
Moderate	75–100 ppm N when roots become visible; increase to 150–200 ppm N as roots develop	Recommended after roots are established.	28–35 days after sticking	Generally roots quickly.
Low	50–75 ppm N	Recommended.	35–42 days after sticking	Do not over-mist. Long days in propagation will hasten rooting and plant development.
Low	50–75 ppm N	Recommended.	35–42 days after sticking	Do not over-mist. Long days in propagation will hasten rooting and plant development.
Low	50–75 ppm N	Recommended.	35–42 days after sticking	Do not over–mist. Long days in propagation will hasten rooting and plant development.
Low	50–75 ppm N	Recommended.	35–42 days after sticking	Do not over–mist. Long days in propagation will hasten rooting and plant development.
Low	50–75 ppm N	Recommended.	35–42 days after sticking	Do not over–mist. Long days in propagation will hasten rooting and plant development.
Low to moderate	50–75 ppm N after 14 days	Not necessary.	35–42 days after sticking	Campanula typically have longer leaf petioles. Avoid dehydration during the first 3 days after sticking, then use a low to moderate mist regime. Avoid sticking cuttings too deep so that growing tip is exposed.
Low to moderate	50–75 ppm N	Not necessary in liner stage	35–42 days after sticking	Discontinue mist as quickly as possible once rooting occurs.
Low to moderate	50–75 ppm N	Not necessary in liner stage	35–42 days after sticking	Discontinue mist as quickly as possible once rooting occurs.
Low	50-75 ppm N	Not necessary.	35–42 days after sticking	Use low mist and media moisture levels to avoid stem rot.

Page		Crop	Series/Variety	Media EC/pH	Soil Temperature	Rooting Hormone
16	6	Coreopsis grandiflora	Sunny Day	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	1,000 ppm IBA
16	W.	Coreopsis hybrid	Little Bird	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	1,000 ppm IBA
*	0	Coreopsis x hybrida	UpTick™	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500–1.000 ppm IBA
18	17	Coreopsis verticillata	Sylvester	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	1,000 ppm IBA
18	*	Coreopsis verticillata	Tweety	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	1,000 ppm IBA
17		Coreopsis verticillata	Crème Caramel™	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	1,000 ppm IBA
23		Eupatorium dubium	Little Joe	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500 ppm IBA
24		Euphorbia amygdaloides	Red Velvet	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500–1,000 ppm IBA
29	×	Gaura lindheimeri	Ballerina™	EC 0.75-0.80 mmhos/pH 5.8-6.2	68-73°F (20-24°C)	500 ppm IBA
29	1	Gaura <i>lindheimeri</i>	Belleza™	EC 0.75-0.80 mmhos/pH 5.8-6.2	68-73°F (20-24°C)	500 ppm IBA
29	*	Gaura <i>lindheimeri</i>	Little Janie, Whiskers Deep Rose	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500 ppm IBA
30		Geranium oxonianum	Miss Heidi	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	1,000 ppm IBA
31		Heliopsis helianthoides	Double Sunstruck, Sunstruck	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	1,000 ppm IBA
*		Heuchera x hybrida	Carnival	EC 0.80-1.0 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500-1,000 ppm IBA
*		Heuchera sanguinea	Frosty Morn	EC 0.80-1.0 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500-1,000 ppm IBA

[•] See DarwinPerennials.com

Mist	Fertilization	Pinching	Transplanting	Comments
Moderate	50–75 ppm N	Pinch once in the liner stage	28–35 days after sticking	Begin fertilizing 7 days after stick. Avoid over- misting.
Moderate	50-75 ppm N	Pinch once in the liner stage and once after transplant for best results.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Moderate	50–75 ppm N	Pinch once in the liner stage	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Moderate	50–75 ppm N	Pinch once in the liner stage and once after transplant for best results.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Moderate	50–75 ppm N	Pinch once in the liner stage and once after transplant for best results.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Moderate	50–75 ppm N	Pinch once in the liner stage and once after transplant for best results.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
High for first few days, then reduce to moderate.	50–100 ppm N	Recommended	42–49 days after sticking	
Low	50–75 ppm N	Recommended after roots are established. Leave 4–5 active internodes.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Low to moderate	75–100 ppm N when roots become visible; increase to 150–200 ppm N as roots develop	Yes, 7 days before transplanting.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Low to moderate	75–100 ppm N when roots become visible; increase to 150–200 ppm N as roots develop	Yes, 7 days before transplanting.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Low to moderate	50–75 ppm N when roots become visible	Recommended after roots are established. Leave 4–5 active internodes.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Low to moderate	50–75 ppm N when roots become visible	Not necessary.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Low	50–75 ppm N when roots become visible	Recommended after roots are established. Leave 4–5 active internodes.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Low to moderate	50–75 ppm N after 14 days	Not necessary.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Low to moderate	50–75 ppm N after 14 days	Not necessary.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.

Page		Crop	Series/Variety	Media EC/pH	Soil Temperature	Rooting Hormone	
34		Iberis amara	White Heat	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72'F (21-24'C)	500 ppm IBA	
34		Iberis gibraltarica	Lavish	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500 ppm IBA	
36		Lavandula angustifolia	SuperBlue	EC 0.75-0.80 mmhos/pH 5.9-6.2	70–72°F (21–24°C)	500 ppm IBA	
37, 38		Lavandula stoechas	Anouk Series, Bright Luxurious, Luxurious	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500 ppm IBA	
41	秀族	Leucanthemum x superbum	Santé	EC 0.75-0.80 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	500 ppm IBA	
45		Monarda didyma	Balmy™	EC 1.0-1.25 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	500 ppm IBA	
46		Nepeta <i>x faassenii</i>	Junior Walker	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500–1,000 ppm IBA	
49	*	Penstemon hybrid	Quartz™ Series: Amethyst, Rose	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500 ppm IBA	
49		Penstemon x hybrida	Cherry Sparks	EC 0.75-0.80 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	500 ppm IBA	
49		Penstemon hybrid	Little Bells	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500 ppm IBA	
51		Penstemon x hybrida	MissionBells™ Deep Rose	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500 ppm IBA	
51		Penstemon hybrid	Rock Candy®	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500 ppm IBA	
52		Perovskia atriplicifolia	CrazyBlue, Little Lace	EC 1.0-1.25 mmhos/pH 5.8-6.2	70-72'F (21-24°C)	1,000 ppm IBA	
59	C	Rhodanthemum hosmariense	Casablanca, Marrakech	EC 0.80-1.0 mmhos/pH 5.8-6.2	68-74'F (20-24'C)	300 ppm IBA	
65		Salvia greggii	Mirage™	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500 ppm IBA	

Mist	Fertilization	Pinching	Transplanting	Comments
Moderate	50–75 ppm N when roots become visible	Recommended after roots are established. Leave active internodes.	28–35 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Moderate	50–75 ppm N when roots become visible	Recommended after roots are established. Leave 4–5 active internodes.	28–35 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Low; prefers high humidity to mist	50-75 ppm N	Recommended.	42-56 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Low; prefers high humidity to mist	50-75 ppm N	Recommended after roots are established. Leave 4-5 active internodes.	42–56 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Low	50-75 ppm N	Not typically necessary.	42–56 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Moderate	50-75 ppm N	Recommended.	28–35 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C). Remove flowers in propagation.
Moderate	50-75 ppm N	Recommended.	35–42 days after sticking	Roots quickly. Plan to pinch in liner tray.
Moderate to high for first 24 hours, then reduce to low	50-75 ppm N	Recommended.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C).
Moderate to high for first 24 hours, then reduce to low	50-75 ppm N	Recommended.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C).
Moderate to high for first 24 hours, then reduce to low	50-75 ppm N	Recommended.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C).
Moderate to high for first 24 hours, then reduce to low	50-75 ppm N	Recommended.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C).
Moderate to high for first 24 hours, then reduce to low	50-75 ppm N	Recommended.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C).
Moderate to high for first 24 hours, then reduce to low	50-75 ppm N after 10 days	Recommended.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C).
Moderate	75-100 ppm N when roots become visible; increase to 150-200 ppm N as roots develop	Recommended after roots are established.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C).
Moderate	50-75 ppm N	Recommended after roots are established. Leave 4–5 active internodes.	35–42 days after sticking	Use low mist settings; do not oversaturate rooting media. Root zone temperatures of 70°F (21°C).

Page		Crop	Series/Variety	Media EC/pH	Soil Temperature	Rooting Hormone
62		Salvia greggii	Radio Red	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500 ppm IBA
61		Salvia hybrid	Arctic Blaze™	EC 0.75-0.80 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	500 ppm IBA
63		Salvia hybrid	Suncrest	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500 ppm IBA
*	墓	Salvia nemorosa	Blue Marvel	EC 0.75-0.80 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	1.000 ppm IBA
65	and a supple	Salvia nemorosa	Burgundy Candles	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	1.000 ppm IBA
67		Salvia nemorosa	Lyrical™	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	1.000 ppm IBA
71		Scabiosa columbaria	Flutter™	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500 ppm IBA
83		Veronica austriaca	Venice Blue	EC 0.75-0.80 mmhos/pH 5.8-6.2	70-72°F (21-24°C)	500 ppm IBA
84		Veronica x hybrida	Purpleicious	EC 0.75-0.80 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	500 ppm IBA
83		Veronica repens	Moody Blues®	EC 0.75-0.80 mmhos/pH 5.8-6.2	70–72°F (21–24°C)	500 ppm IBA
85	0	Viola cornuta	Blackout	EC 0.80-1.0 mmhos/pH 5.5-5.8	70–72°F (21–24°C)	500–750 ppm IBA
85		Viola cornuta	Halo	EC 0.80-1.0 mmhos/pH 5.5-5.8	70–72°F (21–24°C)	500–750 ppm IBA
86		Viola x hybrida	Jumping Jack	EC 0.80-1.0 mmhos/pH 5.5-5.8	70-72°F (21-24°C)	500-750 ppm IBA

[•] See DarwinPerennials.com

Mist	Fertilization	Pinching	Transplanting	Comments
Moderate	50–75 ppm N	Recommended after roots are established. Leave 4–5 active internodes.	35–42 days after sticking	Begin fertilizing 7 days after stick.
Moderate	50–75 ppm N	Recommended after roots are established. Leave 4–5 active internodes.	35–42 days after sticking	Roots quickly. Plan to pinch in liner tray.
Moderate	50–75 ppm N	Recommended after roots are established. Leave 4–5 active internodes.	35–42 days after sticking	Roots quickly. Plan to pinch in liner tray.
Low	50–75 ppm N at Day 7	A soft pinch will increase branching.	35–42 days after sticking	Discontinue mist as quickly as possible and only mist to avoid leaf wilt.
Low	50-75 ppm N at Day 7	A soft pinch will increase branching.	35–42 days after sticking	Discontinue mist as quickly as possible and only mist to avoid leaf wilt. Begin feeding 7 days after sticking with 75–100 ppm N.
Low	50–75 ppm N at Day 7	A soft pinch will increase branching.	35–42 days after sticking	Discontinue mist as quickly as possible and only mist to avoid leaf wilt. Begin feeding 7 days after sticking with 75–100 ppm N.
Low	50–75 ppm N	A soft pinch will increase branching.	35–42 days after sticking	Transplant as soon as roots are fully developed.
Moderate	50–75 ppm N	Recommended after roots are established. Leave 4–5 active internodes.	35–42 days after sticking	Roots quickly. Plan to pinch in liner tray.
Moderate	50–75 ppm N	Recommended after roots are established. Leave 4-5 active internodes.	35–42 days after sticking	Roots quickly. Plan to pinch in liner tray.
Moderate	50–75 ppm N	Recommended after roots are established. Leave 4-5 active internodes.	35–42 days after sticking	Roots quickly. Plan to pinch in liner tray.
Moderate for first 24–48 hours, then reduce to low.	50–75 ppm N at Day 7	Soft pinch recommended 25–28 days after sticking.	35–42 days after sticking	Excessive media moisture will slow rooting.
Moderate for first 24–48 hours, then reduce to low.	50–75 ppm N at Day 7	Soft pinch recommended 25–28 days after sticking.	35–42 days after sticking	Excessive media moisture will slow rooting. Begin fertilizing at Day 7 with 75 ppm N.
Moderate for first 24–48 hours, then reduce to low.	50-75 ppm N at Day 7	Soft pinch recommended 25–28 days after sticking.	35–42 days after sticking	Excessive media moisture will slow rooting. Begin fertilizing at Day 7 with 75 ppm N.

Page		Crop	Series/ Variety	Media pH	Temperature	Light Levels in Foot Candles	Watering	Fertilization	Pinching After Transplant	
1	X	Achillea hybrid	Moon Dust	5.8-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry regularly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Recommended	
1		Achillea millifolium	New Vintage™	5.8-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry regularly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Generally not required.	
2		Achillea millifolium	Song Siren™	5.8-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry regularly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Generally not required.	
4	W.	Agastache rugosa	Little Adder	5.8-6.2	Nights: 50 to 55°F (10 to 13°C) Days: 60 to 65°F (16 to 18°C)	3,000 to 5,000	Allow media to dry regularly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Recommended	
8		Alyssum wulfenianum	Golden Spring	5.8-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Recommended	
10	***	Boltonia asteroides var. latisquama	Jim Crockett	5.6-6.3	Nights: 62 to 68°F (17 to 20°C) Days: 65 to 75°F (18 to 24°C)	5,000 to 8,000	Allow media to dry evenly between watering.	Maintain constant fertilization at 150 to 200 ppm N.	Recommended	
10		Buddleia davidii	Berry Fizz	5.5-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 150 to 175 ppm.	Recommended	
11		Buddleia davidii	Blaze Pink	5.5-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 150 to 175 ppm.	Recommended	
11		Buddleia davidii	Cran Razz	5.5-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 150 to 175 ppm.	Recommended	
12		Buddleia davidii	Flutterby Petite®	5.5-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 150 to 175 ppm.	Recommended	
12		Buddleia davidii	True Blue	5.5-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 150 to 175 ppm.	Recommended	
14		Campanula x hybrida	Iridescent Bells	5.8-6.2	Nights: 50 to 55°F (10 to 13°C) Days: 60 to 65°F (16 to 18°C)	3,500 to 4,000	Allow media to dry evenly between watering.	Use a balanced fertilizer at a rate of 150 to 175 ppm.	None	
14		Caryopteris hybrid	Good As Gold	5.8-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 65 to 75°F (18 to 24°C)	5,000 to 8,000	Allow media to dry evenly between watering	Use a balanced fertilizer at a rate of 125 to 150 ppm.	None	
14		Caryopteris x clandonensis	Grand Bleu®	5.8-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 65 to 75°F (18 to 24°C)	5,000 to 8,000	Allow media to dry regularly between watering	Use a balanced fertilizer at a rate of 125 to 150 ppm.	None	
15		Centaurea montana	Lavender Mist	5.8-6.2	Nights: 45 to 50°F (7 to 10°C) Days: 55 to 60°F (13 to 16°C)	3,000 to 5,000	Allow media to dry regularly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	None	

Plant	Pests and Fungal	Crop Schedule & Uses						
Growth Regulators	Diseases	1–qt. (10–cm) pot, 1 plant per pot	1–gal. (15–cm) pot, 1 plant per pot	2 to 3-gal. (25 to 30-cm) pot, 3 plants per pot	Height	USDA Hardiness Zones	Bloom Months	
PGRs generally not needed	Pythium and Rhizoctonia can result from overwatering.	Unrooted: 13–15 wks Rooted: 8–10 wks	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 19–22 wks Rooted: 12–14 wks	12–14 in. (30–35 cm)	5 to 8	June-July	
PGRs generally not needed	Pythium and Rhizoctonia can result from overwatering.	Unrooted: 13-15 wks Rooted: 8-10 wks	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 19–22 wks Rooted: 12–14 wks	12–14 in. (30–35 cm)	4 to 9	June-July	
PGRs generally not needed	Pythium and Rhizoctonia can result from overwatering.	Unrooted: 13-15 wks Rooted: 8-10 wks	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 19–22 wks Rooted: 12–14 wks	20-22 in. (50-55 cm)	4 to 9	June-July	
PGRs generally not needed	Thrips, white fly	Not recommended	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 19-22 wks Rooted: 12-14 wks	15–18 in. (38–45 cm)	5 to 9	June-Sep	
PGRs generally not needed	None noted	Unrooted: stick week 30-35 Rooted: plant week 35-40	Unrooted: stick week 26–32 Rooted: plant week 31–36	Unrooted: stick week 22-26 Rooted: plant week 27-31	6–8 in. (15–20 cm)	4 to 9	Apr-May	
PGRs generally not needed	Botrytis, Pythium	Unrooted: 9-11 wks Rooted: 5-7 wks	Unrooted: 11-14 wks Rooted 7-10 wks	Unrooted: 14–16 wks Rooted: 10–12 wks	18-24 in. (45-60 cm)	4 to 9	May-Sept	
PGRs generally not needed	Aphids, thrips, spider mites	Not recommended	Unrooted: 20-22 wks Rooted: 14-16 wks	Unrooted 22–24 wks. Rooted: 16–18 wks	4-5 ft. (1.2-1.5 m)	5 to 10	May-Sept	
PGRs generally not needed	Aphids, thrips, spider mites	Not recommended	Unrooted: 20-22 wks Rooted: 14-16 wks	Unrooted 22–24 wks. Rooted: 16–18 wks	5-6 ft. (1.5-1.8 m)	5 to 10	May-Sept	
PGRs generally not needed	Aphids, thrips, spider mites	Not recommended	Unrooted: 20-22 wks Rooted: 14-16 wks	Unrooted 22–24 wks. Rooted: 16–18 wks	5-6 ft. (1.5-1.8 m)	5 to 10	May-Sept	
PGRs generally not needed	Aphids, thrips, spider mites	Unrooted: 13–15 wks Rooted: 8–10 wks	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted 22–24 wks. Rooted: 16–18 wks	24–30 in. (60–75 cm)	5 to 10	May-Sept	
PGRs generally not needed	Aphids, thrips, spider mites	Not recommended	Unrooted: 20-22 wks Rooted: 14-16 wks	Unrooted 22–24 wks. Rooted: 16–18 wks	61-73 in. (1.55-1.85 m)	5 to 10	May-Sept	
PGRs generally not needed	Aphid, Spider mite, Leaf spots, <i>Rhizoctonia</i> crown rot	Not recommended	Unrooted: 20–22 wks Rooted: 14–16 wks	Unrooted 22–24 wks. Rooted: 16–18 wks	24–30 in. (60–75 cm)	5 to 8	Apr-Sept	
PGRs generally not needed	Spider mite	Not recommended	Rooted: 14-16 wks	Rooted: 14 wks	36-48 in. (90 cm-1.2 m)	7 to 8	Aug-Oct	
PGRs generally not needed	Spider mite	Not recommended	Rooted: 12 to 14 wks	Rooted: 14 wks	48 in. (1.2 m)	6 to 9	Aug-Oct	
PGRs generally not needed	Thrips, white fly, spider mites. Can be sensitive to crown and root rot when overwatered.	Not recommended	Unrooted: Plant by week 35 (North), week 40 (South) Rooted: Stick by week 30 (North), week 35 (South)	Unrooted: Plant by week 32 (North), week 37 (South) Rooted: Stick by week 28 (North), week 32 (South)	16–18 in. (40–45 cm)	4 to 9	Apr-June	

Page		Crop	Series/ Variety	Media pH	Temperature	Light Levels in Foot Candles	Watering	Fertilization	Pinching After Transplant	
16	6	Coreopsis grandiflora	Sunny Day	5.8-6.2	Nights: 55 to 60°F (13 to 16°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry evenly between watering.	Maintain constant fertilization at 150 to 200 ppm N.	Recommended	
16	N. T. T.	Coreopsis hydrid	Little Bird	5.8-6.2	Days: 55 to 80°F (13 to 27°C)	5,000 to 8,000	Allow media to dry evenly between watering.	Maintain constant fertilization at 150 to 200 ppm N.	Recommended	
*	0	Coreopsis x hybrida	UpTick™	5.8-6.2	Nights: 55 to 70°F (13 to 21°C) Days: 60 to 80°F (15 to 27°C)	3,000 to 5,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Yes	
18	*	Coreopsis verticillata	Sylvester, Tweety	5.8-6.2	Days: 55 to 80°F (13 to 27°C)	5,000 to 8,000	Allow media to dry evenly between watering.	Maintain constant fertilization at 150 to 200 ppm N.	Recommended	
17		Coreopsis verticillata	Crème Caramel™	5.8-6.2	Days: 55 to 80°F (13 to 27°C)	5,000 to 8,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Recommended	
*		Digitalis <i>x hybrida</i>	Foxlight™	5.8-6.2	Nights: 55 to 60°F (13 to 16°C) Days: 60 to 65°F (16 to 18°C)	3,000 to 5,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Recommended	
*		Echinacea x hybrida	Double Scoop™	5.8-6.2	Nights: 55 to 60°F (13 to 16°C) Days: 60 to 65°F (16 to 18°C)	3,500 to 5,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	None	
*		Echinacea x hybrida	Sombrero®	5.8-6.2	Nights: 55 to 60°F (13 to 16°C) Days: 60 to 65°F (16 to 18°C)	3,500 to 5,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	None	
23		Eupatorium dubium	Little Joe	5.8-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 65 to 75°F (18 to 24°C)	5,000 to 8,000	Allow media to dry moderately between watering. Prefers moist soils.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Recommended	
24		Euphorbia amygdaloides	Red Velvet	5.6-6.5	Nights: 50 to 55°F (10 to 13°C) Days: 55 to 60°F (13 to 16°C)	3,000 to 5,000	Allow media to dry regularly between watering.	Use a balanced fertilizer at a rate of 100 to 125 ppm.	Recommended	
29	×	Gaura <i>lindheimeri</i>	Ballerina™, Belleza™	5.8-6.2	Nights: 56 to 61°F (13 to 16°C) Days: 71 to 76°F (21 to 24°C)	5,000 to 9,000	Allow media to dry slightly between watering.	Maintain constant fertilization at 175 to 225 ppm N.	Recommended	
29	*	Gaura lindheimeri	Little Janie, Whiskers Deep Rose	5.8-6.2	Nights: 50 to 55°F (10 to 13°C) Days: 55 to 60°F (13 to 16°C)	3,000 to 5,000	Allow media to dry regularly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Recommended	
30		Geranium oxonianum	Miss Heidi	5.8-6.2	Nights: 45 to 50°F (7 to 10°C) Days: 55 to 60°F (13 to 16°C)	3,000 to 5,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 100 to 125 ppm.	None	
31		Heliopsis helianthoides	Double Sunstruck, Sunstruck	5.8-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 65 to 75°F (18 to 24°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 150 to 175 ppm.	Recommended	
*		Heuchera <i>x hybrida</i>	Carnival	5.8-6.2	Nights: 50 to 55°F (10 to 13°C) Days: 60 to 65°F (16 to 18°C)	1,500 to 2,500	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 100 to 125 ppm.	None	

[•] See DarwinPerennials.com

Plant	Pests and Fungal	Crop Schedule & Uses						
Growth Regulators	Diseases	1–qt. (10–cm) pot, 1 plant per pot	1–gal. (15–cm) pot, 1 plant per pot	2 to 3-gal. (25 to 30-cm) pot, 3 plants per pot	Height	USDA Hardiness Zones	Bloom Months	
B-Nine 1,500 ppm/Cycocel 800 ppm tank mix for height control		Not recommended	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 19–22 wks Rooted: 12–14 wks	18–24 in. (45–60 cm)	4 to 9	June-Sept	
PGRs generally not needed	Manage soil moisture to avoid root diseases. Keep good air movement to control powdery mildew. Aphids	Unrooted: 13-15 wks Rooted: 8-10 wks	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 19–22 wks Rooted: 12–14 wks	12–14 in. (30–35 cm)	5 to 9	June-Sept	
PGRs generally not needed	Spider mites	Not recommended	Rooted: 10-12 wks	Rooted: 12-14 wks	12–14 in. (30–35 cm)	5 to 9	May-Sept	
PGRs generally not needed	Manage soil moisture to avoid root diseases.	Unrooted: 13-15 wks Rooted: 8-10 wks	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 19–22 wks Rooted: 12–14 wks	Sylvester: 16–20 in. (40–50 cm) Tweety: 14–16 in. (35–40 cm)	4 to 9	June-Sept	
PGRs generally not needed	Powdery mildew, aphids	Not recommended	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 19–22 wks Rooted: 12–14 wks	18 in. (45 cm)	5 to 9	May-July	
PGRs generally not needed	Aphids, white fly, spider mites	Not recommended	12-14 wks	12-14 wks	22-24 in. (56-60 cm)	7 to 10	Apr-Sept Natural season flowering	
None	None noted	14–16 wks Spring plant 11–13 wks Summer plant for Fall	14–16 wks Spring plant 11–13 wks Summer plant for Fall	14–16 wks Spring plant 11–13 wks Summer plant for Fall	22-24 in. (56-60 cm)	4 to 9	June-Aug	
None	None noted	14–16 wks Spring plant 11–13 wks Summer plant for Fall	14–16 wks Spring plant 11–13 wks Summer plant for Fall	14–16 wks Spring plant 11–13 wks Summer plant for Fall	22-24 in. (56-60 cm)	4 to 9	June-Aug	
Concise/ Sumagic 30-60 ppm spray	None noted	Nor recommended.	Rooted: 20 weeks	Rooted: 20 weeks	3–4 ft. (90 cm–1.2 m)	3 to 9	Aug-Sept	
PGRs generally not needed	Watch for powdery mildew in Fall. White fly, spider mites	Unrooted: 14-16 wks Rooted: 8-10 wks	Unrooted: 16-19 wks Rooted: 10-12 wks	Unrooted: 19–22 wks Rooted: 12–14 wks	18–20 in. (45–50 cm)	6 to 10	Mar-May	
PGRs generally not needed	Pythium, Rhizoctonia, Botrytis	Unrooted: 10-13 wks Rooted: 7-10 wks	Unrooted: 12–15 wks, 2–3 ppp Rooted: 9–12 wks, 2–3 ppp	Unrooted: 14–16 wks, 3–5 ppp Rooted: 11–13 wks, 3–5 ppp	12–18 in. (30–45 cm)	6 to 9	Ballerina: Apr-Sept Belleza: May-Sept	
PGRs generally not needed	Spider mites, aphids	Unrooted: 12-14 wks Rooted: 8-10 wks	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 19–22 wks Rooted: 12–14 wks	Little Janie: 16–18 in. (40–45 cm) Whiskers Deep Rose: 14–16 in. (35–40 cm)	6 to 9	Apr-Sept	
PGRs generally not needed	White fly	Not recommended	Unrooted: Plant by week 35 (North), week 40 (South) Rooted: Stick by week 30 (North), week 35 (South)	Unrooted: Plant by week 32 (North), week 37 (South) Rooted: Stick by week 28 (North), week 32 (South)	14–16 in. (35–40 cm)	4 to 9	Apr-June	
PGRs generally not needed	Pythium and Rhizoctonia can result from overwatering. Thrips, white fly, aphids	Unrooted: 14-16 wks Rooted: 8-10 wks	Unrooted: 16-19 wks Rooted: 10-12 wks	Unrooted: 19–22 wks Rooted: 12–14 wks	14-16 in. (45-40 cm)	4 to 9	Double Sunstruck: May-July Sunstruck: June-Aug	
PGRs generally not needed	Pythium and Rhizoctonia can result from overwatering.	Unrooted: 13-15 wks Rooted: 8-10 wks	Unrooted: 15–17 wks Rooted: 10–12 wks	Unrooted: 19-22 wks Rooted: 12-14 wks	10–12 in. (25–30 cm)	4 to 9	Apr-May	

Page		Crop	Series/ Variety	Media pH	Temperature	Light Levels in Foot Candles	Watering	Fertilization	Pinching After Transplant	
*		Heuchera sanguinea	Frosty Morn	5.8-6.2	Nights: 45 to 50°F (7 to 10°C) Days: 55 to 60°F (13 to 16°C)	1,500 to 2,500	Allow media to dry slightly between watering	Use a balanced fertilizer at a rate of 125 to 150 ppm.	None	
34		Iberis amara	White Heat	5.8-6.2	Nights: 45 to 55°F (7 to 13°C) Days: 55 to 65°F (13 to 18°C)	3,000 to 5,000	Allow media to dry regularly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Recommended	
34		Iberis gibraltarica	Lavish	5.8-6.2	Nights: 45 to 55°F (7 to 13°C) Days: 55 to 65°F (13 to 18°C)	3,000 to 5,000	Allow media to dry regularly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Recommended	
36		Lavandula angustifolia	SuperBlue	5.9-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 65 to 75°F (18 to 24°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Once for smaller pot sizes, twice for larger containers	
37, 38		Lavandula stoechas	Anouk Series, Bright Luxurious, Luxurious	5.8-6.2	Nights: 56 to 64°F (13 to 18°C) Days: 65 to 76°F (18 to 24°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 100 to 125 ppm.	Recommended	
41	***	Leucanthemum x superbum	Santé	5.8-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Recommended	
45		Monarda didyma	Balmy™	5.8-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Recommended	
46		Nepeta <i>x faassenii</i>	Junior Walker	5.8-6.2	Nights: 55 to 70°F (13 to 21°C) Days: 60 to 80°F (15 to 27°C)	5,000 to 8,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Recommended	
49		Penstemon hybrid	Quartz™ Series: Amethyst, Rose	5.8-6.2	Nights: 55 to 70°F (13 to 21°C) Days: 60 to 80°F (15 to 27°C)	3,000 to 5,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Yes	
49		Penstemon x hybrida	Cherry Sparks	5.8-6.2	Nights: 55 to 70°F (13 to 21°C) Days: 60 to 80°F (15 to 27°C)	3,000 to 5,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Yes	
49	F	Penstemon hybrid	Little Bells	5.8-6.2	Nights: 55 to 70°F (13 to 21°C) Days: 60 to 80°F (15 to 27°C)	3,000 to 5,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Yes	
51		Penstemon x hybrida	MissionBells™ Deep Rose	5.8-6.2	Nights: 45 to 70°F (7 to 21°C) Days: 55 to 80°F (13 to 27°C)	3,000 to 5,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Yes	
51		Penstemon hybrid	Rock Candy®	5.8-6.2	Nights: 55 to 70°F (13 to 21°C) Days: 60 to 80°F (15 to 27°C)	3,000 to 5,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Yes	
52		Perovskia atriplicifolia	CrazyBlue, Little Lace	5.6-6.2	Nights: 55 to 65°F (13 to 18°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Recommended	
59	¢	Rhodanthemum hosmariense	Casablanca, Marrakech	5.8-6.2	Nights: 45 to 50°F (7 to 10°C) Days: 55 to 60°F (13 to 16°C)	3,500 to 5,000	Allow media to dry regularly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Recommended	

[•] See DarwinPerennials.com

Plant	Pests and Fungal	·							
Growth Regulators	Diseases	1–qt. (10–cm) pot, 1 plant per pot	1–gal. (15–cm) pot, 1 plant per pot	2 to 3-gal. (25 to 30-cm) pot, 3 plants per pot	Height	USDA Hardiness Zones	Bloom Months		
PGRs generally not needed	Aphids, spider mites, Rhizoctonia	Not recommended	Rooted: 10-12 wks	Rooted: 12-14 wks	8–10 in. (20–25 cm)	4 to 9	May-June		
PGRs generally not needed	May experience root rot diseases under poor growing conditions. Aphids	Unrooted: 10-14 wks Rooted: 8-10 wks	Unrooted: 16-18 wks Rooted: 10-12 wks	Unrooted: 19-22 wks Rooted: 12-14 wks	8–10 in. (20–25 cm)	7 to 10	Jan-Aug		
PGRs generally not needed	Aphids	Unrooted: 10-14 wks Rooted: 8-10 wks	Unrooted: 16–18 wks Rooted: 10–12 wks	Unrooted: 19–22 wks Rooted: 12–14 wks	10–12 in. (25–30 cm)	6 to 9	Apr-Aug		
PGRs generally not needed	Thielaviopsis, Pythium and Rhizoctonia can result from overwatering. Thrips, white fly, aphids, fungus gnats	Unrooted: 14-16 wks Rooted: 7-8 wks	Unrooted: 16-19 wks Rooted: 9-11 wks	Unrooted: 19-22 wks Rooted: 12-14 wks	10–12 in. (25–30 cm)	5 to 8	June-Aug		
PGRs generally not needed	Thielaviopsis, Pythium and Rhizoctonia can result from overwatering. Thrips, white fly, aphids, fungus gnats	7–10 wks	9–11 wks, 1–3 ppp	10-12 wks, 3-5 ppp	14–18 in. (35–45 cm); Silver Anouk: 20–24 in. (50–60 cm)	6 to 9	Mar-July; Anouk and Silver Anouk: Mar-Sept		
PGRs generally not needed	Watch for leaf spots when growing in wet conditions.	Not recommended	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 19-22 wks Rooted: 12-14 wks	22-26 in. (56-66 cm)	4 to 9	June-Aug		
PGRs generally not needed	Powdery mildew may be present if grown under poor air circulation and high humidity. White fly, spider mites	Unrooted: 12-14 wks Rooted: 8-10 wks	Unrooted: 14-16 wks Rooted: 10-12 wks	Unrooted: 14-16 wks Rooted: 12-14 wks	10–12 in. (25–30 cm)	4 to 9	June-July		
PGRs generally not needed	White fly	Unrooted: 10-14 wks Rooted: 8-10 wks	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 19-22 wks Rooted: 12-14 wks	18 in. (45 cm)	5 to 8	May-Sept		
PGRs generally not needed	Spider mites	Not recommended	Unrooted: 19-22 wks Rooted: 12-14 wks	Unrooted: 21–23 wks Rooted: 14–16 wks	20-24 in. (50-60 cm)	6 to 9	July-Aug		
PGRs generally not needed	White fly, spider mites	Not recommended	Rooted: 10-12 wks	Rooted: 12-14 wks	18–20 in. (45–50 cm)	5 to 9	May-Aug		
PGRs generally not needed	Spider mites	Unrooted: 10-14 wks Rooted: 8-10 wks	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 19–22 wks Rooted: 12–14 wks	16 in. (40 cm)	6 to 9	June-July		
PGRs generally not needed	White fly, spider mites	Not recommended	Rooted: 10-12 wks	Rooted: 12-14 wks	20-24 in. (50-60 cm)	5 to 9	June-Aug		
PGRs generally not needed	Spider mites	Unrooted: 10-14 wks Rooted: 8-10 wks	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 19-22 wks Rooted: 12-14 wks	12 in. (30 cm)	6 to 8	June-Sept		
PGRs generally not needed	Pythium can be a problem if overwatered. White fly, spider mites	Not recommended.	Unrooted: 14-16 wks Rooted: 10-12 wks	Unrooted: 14-16 wks Rooted: 10-12 wks	CrazyBlue: 16-18 in. (40-45 cm) Little Lace: 12-18 in. (30-45 cm)	4 to 9	CrazyBlue: July-Aug Little Lace: July-Sept		
B-Nine 1,500 ppm/Cycocel 800 ppm tank mix will reduce petiole stretch on Marrakech	White fly, spider mites, Botrytis	Unrooted: 15-17 wks Rooted: 10-12 weeeks	Unrooted: 16-18 wks, 1 ppp Rooted: 12-14 wks	Unrooted: 16–18 wks, 3 ppp Rooted: 12–14 wks	Marrakesh: 12–14 in. (30–35 cm) Casablanca: 10–12 in. (25–30 cm)	8 to 10	Mar-May and Sept-Oct		

Page		Crop	Series/ Variety	Media pH	Temperature	Light Levels in Foot Candles	Watering	Fertilization	Pinching After Transplant	
65	3	Salvia greggii	Mirage™	5.8-6.2	Nights: 55 to 70°F (13 to 21°C) Days: 60 to 80°F (15 to 27°C)	3,000 to 5,000	Allow media to dry moderately between watering.	Use a balanced fertilizer of 150 to 175 ppm.	Yes	
87		Salvia greggii	Radio Red	5.8-6.2	Nights: 45 to 70°F (7 to 21°C) Days: 55 to 80°F (13 to 27°C)	5,000 to 8,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Once for smaller pot sizes, twice for larger containers	
61		Salvia hybrid	Arctic Blaze™	5.8-6.2	Nights: 55 to 70°F (13 to 21°C) Days: 60 to 80°F (15 to 27°C)	5,000 to 8,000	Allow media to dry moderately between watering.	Use a balanced fertilizer of 150 to 175 ppm.	Yes	
63		Salvia hybrid	Suncrest	5.8-6.2	Nights: 55 to 70°F (13 to 21°C) Days: 60 to 80°F (15 to 27°C)	5,000 to 8,000	Allow media to dry moderately between watering.	Use a balanced fertilizer of 150 to 175 ppm.	Yes	
•		Salvia nemorosa	Blue Marvel	5.8-6.2	Nights: 45 to 55°F (7 to 13°C) Days: 55 to 65°F (13 to 18°C)	5,000 to 8,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	None	
65		Salvia nemorosa	Burgundy Candles	5.8-6.2	Nights: 45 to 55°F (7 to 13°C) Days: 55 to 65°F (13 to 18°C)	5,000 to 8,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Yes	
67		Salvia nemorosa	Lyrical™	5.8-6.2	Nights: 45 to 55°F (7 to 13°C) Days: 55 to 65°F (13 to 18°C)	5,000 to 8,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Yes	
71		Scabiosa columbaria	Flutter™	5.8-6.2	Nights: 45 to 55°F (7 to 13°C) Days: 55 to 65°F (13 to 18°C)	5,000 to 8,000	Allow media to dry moderately between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Yes	
83		Veronica austriaca	Venice Blue	5.8-6.2	Nights: 50 to 55°F (10 to 13°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Yes	
84		Veronica x hybrida	Purpleicious	5.8-6.2	Nights: 50 to 55°F (10 to 13°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Yes	
83		Veronica repens	Moody Blues®	5.8-6.2	Nights: 50 to 55°F (10 to 13°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced fertilizer at a rate of 125 to 150 ppm.	Yes	
85		Viola cornuta	Blackout	5.5-5.8	Nights: 50 to 55°F (10 to 13°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced Pansy/Viola fertilizer at a rate of 125 to 150 ppm.	Recommended	
85		Viola cornuta	Halo	5.5-5.8	Nights: 50 to 55°F (10 to 13°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced Pansy/Viola fertilizer at a rate of 125 to 150 ppm.	Recommended	
86	Y	Viola x hybrida	Jumping Jack	5.5-5.8	Nights: 50 to 55°F (10 to 13°C) Days: 60 to 65°F (16 to 18°C)	5,000 to 8,000	Allow media to dry slightly between watering.	Use a balanced Pansy/Viola fertilizer at a rate of 125 to 150 ppm.	Recommended	

[•] See DarwinPerennials.com

Plant	Pests and Fungal	Crop Schedule & Uses						
Growth Regulators	Diseases	1–qt. (10–cm) pot, 1 plant per pot	1-gal. (15-cm) pot, 1 plant per pot 2 to 3-gal. (25 to 30- pot, 3 plants per pot		Height	USDA Hardiness Zones	Bloom Months	
PGRs generally not needed	White fly, thrips	Rooted 6-8 wks	Rooted: 8-10 wks	Rooted: 12-14 wks	12-14 in. (30-25 cm)	7 to 9	Mar-Sept	
PGRs generally not needed	White fly, spider mites	Unrooted: 12-14 wks Rooted: 8-10 wks	Unrooted: 14-16 wks Rooted: 10-12 wks	Unrooted: 16–18 wks Rooted: 12–14 wks	16–18 in. (40–45 cm)	7 to 10	Mar-Sept	
PGRs generally not needed	Thrips	Not recommended	Unrooted: 14-16 wks Rooted: 10-12 wks	Unrooted: 16–18 wks Rooted: 12–14 wks	24 in. (60 cm)	6 to 11	Mar-Sept	
PGRs generally not needed	Thrips	Not recommended	Unrooted: 14-16 wks Rooted: 10-12 wks	Unrooted: 16–18 wks Rooted: 12–14 wks	Compact: 10–15 in. (25–38 cm) Landscape: 24–36 in. (60–90 cm)	7 to 11	Mar-Sept	
PGRs generally not needed	White fly, spider mites, Botrytis	Unrooted: 13–15 wks Rooted: 8–10 wks	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 17–19 wks Rooted: 12–14 wks	10–12 in. (25–30 cm)	4 to 9	Mar-Sept	
PGRs generally not needed	White fly, spider mites, Botrytis	Unrooted: 13–15 wks Rooted: 8–10 wks	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 17–19 wks Rooted: 12–14 wks	26–28 in. (66–70 cm)	4 to 9	Mar-Sept	
PGRs generally not needed	White fly, spider mites, Botrytis	Unrooted: 13–15 wks Rooted: 8–10 wks	Unrooted: 15-17 wks Rooted: 10-12 wks	Unrooted: 17–19 wks Rooted: 12–14 wks	22–24 in. (56–60 cm)	4 to 9	Mar-Sept	
PGRs generally not needed	White fly, spider mites, Botrytis	Unrooted: 13–15 wks Rooted: 8–10 wks	Unrooted: 15–17 wks Rooted: 10–12 wks	Not recommended	12–18 in. (30–45 cm)	5 to 9	Mar-Sept	
PGRs generally not needed	Aphids	Unrooted: Plant by week 40 (North), week 45 (South) Rooted: Stick by week 35 (North), week 40 (South)	40 (South)	Unrooted: Plant by week 32 (North), week 37 (South) Rooted: Stick by week 28 (North), week 32 (South)	10–12 in. (25–30 cm)	4 to 9	Mar-Apr	
PGRs generally not needed	Aphids, white fly	Not recommended	Unrooted: Plant by week 35 (North), week 40 (South)	Unrooted: Plant by week 32 (North), week 37 (South) Rooted: Stick by week 28 (North), week 32 (South)	16–20 in. (40–50 cm)	5 to 8	June-Aug	
PGRs generally not needed	Aphids, white fly	Unrooted: 10-14 wks Rooted: 8-10 wks	Unrooted: 14-16 wks Rooted: 10-12 wks	Unrooted: 16-18 wks Rooted: 12-14 wks	12–14 in. (30–35 cm)	4 to 9	Jun-Oct	
PGRs generally not needed	Watch for <i>Thielaviopsis</i> and <i>Pythium</i> . White fly, spider mites	Unrooted: 11-13 wks Rooted: 6-8 wks	Unrooted: 13-15 wks Rooted: 8-10 wks	Unrooted: 13–15 wks Rooted: 8–10 wks	5–6 in. (13–15 cm)	5 to 9	Apr-Oct	
PGRs generally not needed	Watch for <i>Thielaviopsis</i> and <i>Pythium</i> . White fly, spider mites	Unrooted: 11-13 wks Rooted: 6-8 wks	Unrooted: 13-15 wks Rooted: 8-10 wks	Unrooted: 13-15 wks Rooted: 8-10 wks	8-10 in. (20-25 cm)	5 to 9	Feb-Apr, Sept-Oct	
PGRs generally not needed	Watch for <i>Thielaviopsis</i> and <i>Pythium</i> . White fly, spider mites	Unrooted: 11-13 wks Rooted: 6-8 wks	Unrooted: 13-15 wks Rooted: 8-10 wks	Unrooted: 13-15 wks Rooted: 8-10 wks	8-10 in. (20-25 cm)	5 to 9	Feb-Apr, Sept-Oct	

DARWIN PERENNIALS ESSENTIAL CULTURE GUIDE

UPON RECEIPT

Unrooted perennials should be stuck as quickly as possible. Tender cuttings such as Artemisia, Agastache, Lavandula, Perovskia and Salvia should be immediate priority. Cuttings that cannot be stuck immediately should be maintained in a cooler at 40 to 45°F (4 to 7°C). Refer to the Propagation Guide for crop-specific suggestions. Generally speaking, herbaceous perennials benefit from a basal stem dip of IBA rooting hormone to speed up the rooting process. Be careful with misting levels. Perennials suffer from receiving too much mist more often than from too

Rooted perennials should be unpacked and inspected for active root growth. It is often preferable to place recently received perennial liners on a bench or the ground for a few days to help them overcome transport stress. This is particularly important for liners that have been shipped in boxes. Water on arrival and look for new root activity prior to transplant if possible.

AT TRANSPLANT

Well-rooted and toned perennial liners are able to withstand transplant stress very well. Critical to success, provide newly transplanted perennials with immediate irrigation. Watering at the end of the transplant line rather than after you've filled a bed greatly improves uniformity of new root establishment. In any case, do not allow media surface to dry after transplant for the first several days until new roots are extending into the media. Perennials do not like to be planted too deep. Generally speaking, perennial liners should be planted level with the soil surface.

Use a well-drained media containing properly composted bark. These types of perennial soil media are readily available. It is important that the media incorporates a surfactant to help ensure proper wetting and rewetting of the media. The media should be stabilized to a pH of 5.8 to 6.2 and an EC of 1 to 1.2 using Saturated Media Extract (SME) method.

FERTILIZATION

Perennials can be fed using liquid fertilizers on a periodic or constant feed basis. Liquid fertilizer rates can be found in the Perennial Finishing Guide. Use a balanced formula that complements the pH and alkalinity of your irrigation water. Liquid fertilizing offers advantages of greater flexibility and control over fertility levels but can be difficult to administer economically when overhead irrigation is used. In the case of overhead irrigation, controlled release fertilizers (CRF) are preferable. Incorporate CRF into the media prior to planting based on manufacturer's recommendations or top-dress after planting.

SPACING

Spring-planted perennials should be spaced to finished spacing after transplant. This allows better growing conditions and helps to avoid overcrowding and stretch. The added airflow will help reduce foliar diseases and allow for better insect control.

Fall-planted perennials can be spaced at transplant in temperate climates or placed pot-tight in climates where temperatures cause containers to freeze. In either case, proper spacing for the anticipated finished size of the plant will dramatically improve plant quality and reduce labor.

INSECTS AND DISEASES

Incoming perennial liners or cuttings should be inspected for pests and diseases. Apply appropriate treatments as needed.

After transplant, regular scouting and careful observation is critical to maintaining a healthy crop. The practice of integrated pest management (IPM) will reduce losses and pesticide costs by identifying and correcting problems before they escalate. If a pesticide treatment is necessary, please refer to the manufacturer's label regarding proper usage. It is always a good practice to test new varieties for phytotoxicity when making pesticide applications.

VERNALIZATION AND BULKING

A number of perennial species require a period of cold temperature exposure to flower. The length of time varies from just a few weeks below 50°F (10°C) to as much as 10 weeks below 40°F (4°C). Generally speaking, early Spring-flowering perennials like Phlox subulata, Iberis and Alyssum require a cold period to flower. Many perennials such as Salvia nemorosa, Monarda and *Phlox paniculata* do not require vernalization to flower but do benefit from a cold, short day bulking period. In these cases, Summer or Fall planting increases root and crown mass and the corresponding flowering shoots on the plants. It has also been shown to hasten flowering in many species by up to four weeks.

OVERWINTERING

The keys to success when overwintering perennials are:

- · Avoid standing water
- Provide adequate air circulation
- Preventative disease treatments
- · Dead leaf/tissue removal
- · Rodent control
- · Low media EC when entering dormancy
- · Avoid freeze and thaw cycles

The overwintering area, whether in a field or hoop-house, should be sloped so that rain or other water sources cannot accumulate. In climates where Winter conditions freeze and thaw, cover prior to freeze and uncover as soon as possible. Where temperatures remain below freezing, cover after first freeze and maintain the cover until late Winter or early Spring when weather moderates. Remove dead and abscising leaves from herbaceous perennials like Hosta, Monarda, Heliopsis and dormant Hemerocallis. Apply a broad spectrum fungicide prior to covering or closing hoop houses to reduce disease pressure.

Once weather conditions moderate, be sure to scout for insect and disease problems and respond accordingly. Also, check pH and EC levels in the media. Perennials that emerge from dormancy will begin to grow rapidly, and the lack of adequate nutrition will lead to reduced branching, lower leaf loss and smaller flowers.

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