



DÜMMEN
ORANGE®

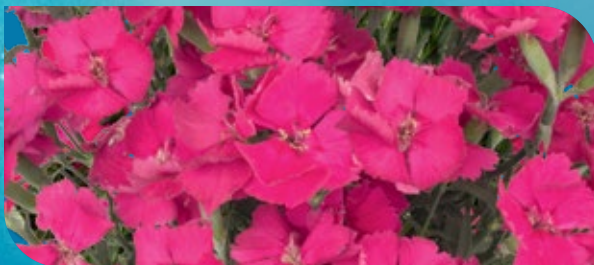


PERENNIALS

2026



TRUE NORTH PERENNIALS



*At -40°,
Fahrenheit meets
Celsius and
these perennials
thrive!*

TESTED

All of our True North varieties are tested in hardy zone 3 for a minimum of two years.

DEMAND

Zone 3 perennials are highly sought after by consumers in cold-climate regions.

VERSATILITY

Our selection of True North Perennials have something to offer in every season; flowers in summer, seed heads in fall or structure in winter.

SUSTAINABLE

Reduce the need to replace, drought tolerant once established, less annual maintenance and pollinator friendly.

DURABLE

These hardy plants thrive in tough conditions, reducing losses and maintaining quality for the grower and consumer.

Pictured (top to bottom): Gaillardia SpinTop® Yellow Touch | 62456, Phlox Spring® White | 80158, Dianthus Mad Magenta | 17702, Salvia Noble Knight | 87138, Leucanthemum Sweet Daisy® Birdy | 80621

Pictured on cover: Iberis White Shadow | 83713, Gaillardia SpinTop® Red Starburst | 62548, Lavandula La Diva Berry Beautiful | 78244

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HERE'S WHAT'S NEW FOR 2026!

Achillea Sea Breeze™ Red

Achillea Sea Breeze™ Rose

Agastache FlutterFriendly Orange

Agastache FlutterFriendly Red

Agastache FlutterFriendly Salmon

Aster Aurora Blue

Aster Aurora Pink

Aster Aurora Purple

Aster Aurora White

Campanula Ultra Violet

Coreopsis Compact MoonSwirl

Coreopsis Radiant Velvet in Gold

Delosperma Jewel of Desert Garnet

Delosperma King of Desert™ Gold

Delosperma King of Desert™ Peach

Delosperma King of Desert™ Red

Delosperma King of Desert™ White

Delosperma King of Desert™ Yellow

Dianthus Arabella Pink

Dianthus Arabella Purple

Dianthus Special Bacco

Dianthus Sprint Angie

Dianthus Sprint Bordeaux

Dianthus Sprint Bright Red

Dianthus Sprint Dark Pink

Dianthus Sprint Dark Red

Dianthus Sprint Pink

Dianthus Sprint Pink Shades

Dianthus Sprint Salmon

Dianthus Sprint White

Lavandula Big Time White

Lavandula La Diva Berry Bountiful

Lavandula La Diva Berry Rosey

Lavandula La Diva Eternal Grace

Lavandula La Diva Garnet Rouge

Lavandula La Diva Lush Purple

Lavandula La Diva Spirit Pink

Lavandula La Diva Spirit Purple Blue

Lavandula La Diva Spirit White

Lavandula La Diva Papillon Deep Rose Imp

Lavandula Sensational!®

Leucanthemum Sweet Daisy® Chloe

Leucanthemum Sweet Daisy® Kylie

Nepeta Serene Frost

Nepeta Serene Lilac

Nepeta Tranquil Purple

Penstemon Pristine® Deep Rose Imp

Penstemon Pristine® Rose

Penstemon Super Star

Phlox Early® Pink Pinwheel

Phlox Flame® Blue Ice

Phlox Flame™ Bordeaux Red

Phlox Flame™ Pink Imp

Phlox Flame™ Pro White Imp

Phlox Spring® Coral Eye

Phlox Spring® Lilac Imp

Phlox Spring® Rose Eye

Salvia Clarity

Salvia Noble Princess

Saxifraga Scenic Appleblossom

Saxifraga Scenic Pink

Saxifraga Scenic White Imp

Sedum Cloudburst Burgundy

Sedum Cloudburst Green Flash

Viola Spring Morning Bumblebee

Viola Spring Morning Glow

Viola Spring Morning Pearl Lilac

Viola Spring Morning Royal Purple

Viola Spring Morning Sunny Lavender

Viola Spring Morning Sunny Purple

Viola Spring Morning Violet



Achillea millefolium
Skysail Yellow

Achillea Skysail features a mass of moderate-sized umbels in bold colors on a strong upright habit. This medium height series has a long flowering period in containers and the landscape. It also exhibits great heat and humidity tolerance making it a strong performer in most markets.



Achillea millefolium
Skysail Bright Pink | 81074
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Achillea millefolium
Skysail Fire | 80526
TRUE NORTH
PERENNIALS



Achillea millefolium
Skysail Yellow | 81073
TRUE NORTH
PERENNIALS

Achillea millefolium | Skysail

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Bright Pink	81074	Full Sun	Yes	Upright	18-24"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Fire	80526	Full Sun	Yes	Upright	18-24"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Yellow	81073	Full Sun	Yes	Upright	18-24"	18"	3-9	✓	Summer	1 Gal/8"/10"



Achillea millefolium
Sea Breeze™ Red | 81183



Achillea millefolium
Sea Breeze™ Salmon | 81184

This compact series delivers big color on a small plant. A canopy of large umbels over a compact body of foliage makes for a winning combination at the garden center or in the landscape in spring and summer.

Achillea millefolium | Sea Breeze™

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Red	81183	Full Sun	Yes	Upright	12-14"	14"	4-9	✓	Summer	1 Gal/8"/10"
NEW	Salmon	81184	Full Sun	Yes	Upright	12-14"	14"	4-9	✓	Summer	1 Gal/8"/10"

Achillea | Various



Achillea clypeolata
Moonshine | 81754



Achillea millefolium
Terracotta | 81111

Achillea millefolium | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Moonshine	81754	Full Sun	Yes	Upright	24-30"	18"	3-8	✓	Late - Spring	1 Gal/8"/10"
	Terracotta	81111	Full Sun	Yes	Upright	24-36"	18"	3-9	✓	Late - Spring	1 Gal/8"/10"



Betterbuzz perform extremely well in hot areas. Flowering from summer to fall with a profusion of slender tube-like blooms that attract all kinds of pollinators including butterflies and hummingbirds.



Agastache aurantiaca
Betterbuzz Pink | 88844



Agastache aurantiaca
Betterbuzz Red | 88847



Agastache aurantiaca
Betterbuzz Amarillo | 88828



Agastache aurantiaca
Betterbuzz Amber | 88821



Agastache aurantiaca
Betterbuzz Violetta | 88839

Agastache aurantiaca | Betterbuzz

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Amarillo	88828	Full Sun	Yes	Upright	8-10"	12"	6-9	✓	Summer	1 Qt/1 Gal
	Amber	88821	Full Sun	Yes	Upright	8-10"	12"	6-9	✓	Summer	1 Qt/1 Gal
	Pink	88844	Full Sun	Yes	Upright	8-10"	12"	6-9	✓	Summer	1 Qt/1 Gal
	Red	88847	Full Sun	Yes	Upright	14-16"	16"	6-9	✓	Summer	1 Qt/1 Gal
	Violetta	88839	Full Sun	Yes	Upright	14-16"	16"	6-9	✓	Summer	1 Qt/1 Gal

Agastache | FlutterFriendly



NEW

Agastache hybrida
FlutterFriendly Orange | 88840



NEW

Agastache hybrida
FlutterFriendly Red | 88832



NEW

Agastache hybrida
FlutterFriendly Salmon | 88846

FlutterFriendly are built for landscape use and large container production. These showstoppers offer a summer to fall flower display of extra-large blooms on a large plant habit. Once established agastache are drought tolerant and perform best in high heat conditions.

Agastache hybrida | FlutterFriendly

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Orange	88840	Full Sun	Yes	Upright	16-18"	18"	5-9	✓	Summer	1 Gal/8"/10"
NEW	Red	88832	Full Sun	Yes	Upright	16-18"	18"	5-9	✓	Summer	1 Gal/8"/10"
NEW	Salmon	88846	Full Sun	Yes	Upright	16-18"	18"	5-9	✓	Summer	1 Gal/8"/10"

Agastache | Honeysticks



Agastache hybrida
Honeysticks Ember | 88843



Agastache hybrida
Honeysticks Sandstone | 88842



Agastache hybrida
Honeysticks Purple | 88835

The Honeysticks series offer a compact habit and are early to flower with blooms that will last until first frost. The Honeysticks are hardy to zone 4 and drought tolerant once established. They also offer a variety of colors but no matter the color they are a pollinator favorite!

Agastache hybrida | Honeysticks

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Ember	88843	Full Sun	Yes	Upright	14-18"	16"	4-9	✓	Summer	1 Gal/3 Gal
	Sandstone	88842	Full Sun	Yes	Upright	14-18"	16"	4-9	✓	Summer	1 Gal/3 Gal
	Purple	88835	Full Sun	Yes	Upright	14-18"	16"	4-9	✓	Summer	1 Gal/3 Gal

Agastache | Beelicious



Agastache aurantiaca
Beelicious Purple

Beautiful purple flower spikes are held high atop the well-branched upright, bright green, mint-scented foliage. This variety looks great in borders, mixed beds and containers. Attracts hummingbirds and butterflies and is drought tolerant.

Agastache aurantiaca | Beelicious

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Beelicious Purple	88820	Full Sun	Yes	Upright	16-24"	18"	5-9	✓	Summer	1 Gal/3 Gal

Agastache | Various



Agastache foeniculum
Blue Fortune | 81757



Agastache rugosa
Black Adder | 81761

Agastache | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Black Adder	81761	Full Sun	Yes	Upright	24-32"	16"	6-9	✓	Summer	1 Gal/8"/10"
	Blue Fortune	81757	Full Sun	Yes	Upright	24-30"	20" (51cm)	5-9	✓	Summer	1 Gal/8"/10"

Ajuga | Princess



Ajuga reptans
Princess Elsa | 82192



Ajuga reptans
Princess Leia | 76021



Ajuga tenorii
Princess Nadia | 76020

Ajuga reptans & tenorii | Princess

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Elsa	82192	Sun - Part Shade		Spreading	4-6"	15"	4-9		Spring	1 Qt/1 Gal
	Leia	76021	Sun - Part Shade		Spreading	4-6"	15"	4-9		Spring	1 Qt/1 Gal
	Nadia	76020	Sun - Part Shade		Spreading	4-6"	15"	4-9		Spring	1 Qt/1 Gal

Ajuga | Black Scallop



Ajuga reptans
Black Scallop



Ajuga reptans
Black Scallop | 76014

Ajuga reptans | Black Scallop

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Black Scallop	76014	Sun - Part Shade		Spreading	6-8"	24"	4-9		Spring	1 Qt/1 Gal

Ajuga | Various



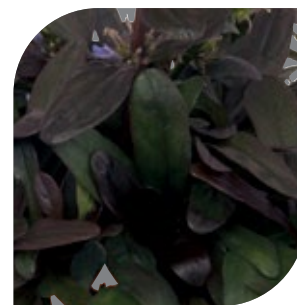
Ajuga reptans
Bronze Beauty | 76008



Ajuga reptans
Burgundy Glow | 76009



Ajuga reptans
Caitlin's Giant | 76016



Ajuga tenorii
Chocolate Chip | 81765



Ajuga reptans
Golden Glow | 76017



Ajuga reptans
Mahogany | 76018



Ajuga reptans
Rosea | 82781

Ajuga reptans | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Bronze Beauty	76008	Sun - Part Shade		Spreading	6-8"	24"	4-9		Early Spring	1 Qt/1 Gal
	Burgundy Glow	76009	Sun - Part Shade		Spreading	6-8"	24"	4-9		Early Spring	1 Qt/1 Gal
	Caitlin's Giant	76016	Sun - Part Shade		Spreading	6-8"	24"	4-9		Early Spring	1 Gal/8"/10"
	Chocolate Chip	81765	Sun - Part Shade		Spreading	3-6"	10"	4-9		Early Spring	1 Qt/1 Gal
	Golden Glow	76017	Sun - Part Shade		Spreading	6-8"	24"	4-9		Early Spring	1 Qt/1 Gal
	Mahogany	76018	Sun - Part Shade		Spreading	6-8"	24"	4-9		Early Spring	1 Qt/1 Gal
	Rosea	82781	Sun - Part Shade		Spreading	4-6"	15"	4-9		Early Spring	1 Qt/1 Gal

Artemisia | Various



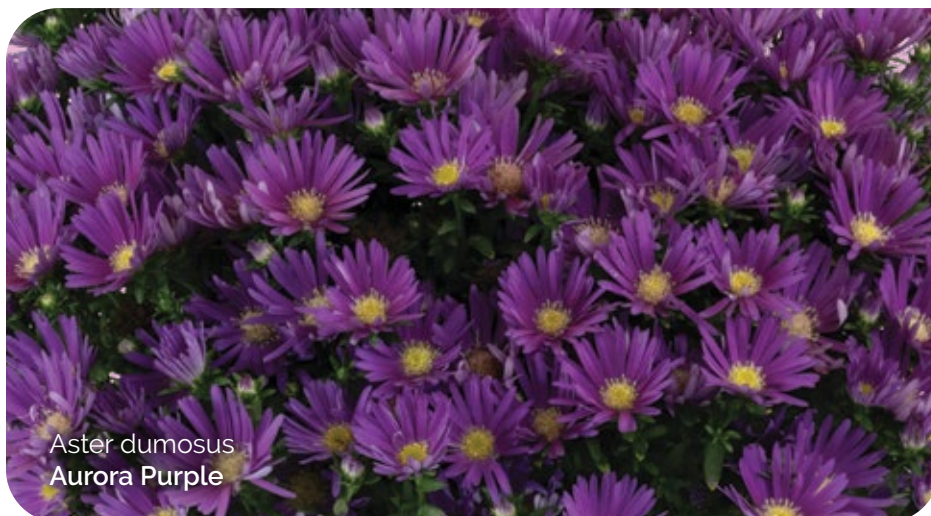
Artemisia schmidtiana
Silver Mound | 81768



Artemisia stelleriana
Silver Brocade | 81769

Artemisia | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Silver Brocade	81769	Full Sun	Yes	Mounding - Spreading	4-8"	10"	4-8		Early Spring	1 Qt/1 Gal
	Silver Mound	81768	Full Sun	Yes	Mounding - Spreading	12-18"	18"	3-8		Summer	1 Qt/1 Gal



Aster dumosus
Aurora Purple

The perfect season extender Aster Aurora adds a vibrant color refresh to the retail bench in the late summer and fall. Offer alongside garden mums or as a perennial. This zone 5 hardy selection has a naturally tidy compact growth habit in a container or a garden bed.



Aster dumosus
Aurora Pink | 82814

NEW



Aster dumosus
Aurora Blue | 82825

NEW



Aster dumosus
Aurora Purple | 70336

NEW



Aster dumosus
Aurora White | 82776

NEW

Aster dumosus | Aurora

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Blue	82825	Full Sun		Mounding	16-18"	16"	5-9	✓	Fall	1 Gal/2 Gal
NEW	Pink	82814	Full Sun		Mounding	16-18"	16"	5-9	✓	Fall	1 Gal/2 Gal
NEW	Purple	70336	Full Sun		Mounding	16-18"	16"	5-9	✓	Fall	1 Gal/2 Gal
NEW	White	82776	Full Sun		Mounding	16-18"	16"	5-9	✓	Fall	1 Gal/2 Gal



Add a juicy burst of color to dull early-spring days with Aubrieta Rock On. All three selections are compact and mounding, making for excellent performance at the garden center. As a hardy evergreen groundcover perennial, Rock On's early vibrant color will breathe renewed life into garden beds and borders and maintain a tidy spreading mound of green foliage throughout the rest of the year.



Aubrieta gracilis
Rock On Blue | 82102
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Aubrieta gracilis
Rock On Pink | 80895
TRUE NORTH
PERENNIALS



Aubrieta gracilis
Rock On Purple Imp | 82181
TRUE NORTH
PERENNIALS

Aubrieta gracilis | Rock On

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Blue	82102	Full Sun - Part Shade		Mounding	4-6"	12"	3-7		Early-Spring	1 Qt/1 Gal
	Pink	80895	Full Sun - Part Shade		Mounding	4-6"	12"	3-7		Early-Spring	1 Qt/1 Gal
	Purple Imp	82181	Full Sun - Part Shade		Mounding	4-6"	12"	3-7		Early-Spring	1 Qt/1 Gal



Buddleja davidii
Little Rockstars Blue

Buddleja Little Rockstars hit all the right notes with a tightly compact habit covered in large cones of flowers. They are ideally suited for small pot production with five in the assortment for a concert of color from summer to fall. Little Rockstars Red won the 2025 Green Thumb People's Choice Award!



Buddleja davidii
Little Rockstars Pink | 81278



Buddleja davidii
Little Rockstars Purple | 81277



Buddleja davidii
Little Rockstars Red | 81276



Buddleja davidii
Little Rockstars White | 81280

Buddleja davidii | Little Rockstars

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Blue	81279	Full Sun - Part Shade		Mounding	12"	12"	5-9	✓	Mid	1 Gal/2 Gal
	Pink	81278	Full Sun - Part Shade		Mounding	12"	12"	5-9	✓	Mid	1 Gal/2 Gal
	Purple	81277	Full Sun - Part Shade		Mounding	12"	12"	5-9	✓	Mid	1 Gal/2 Gal
	Red	81276	Full Sun - Part Shade		Mounding	12"	12"	5-9	✓	Mid	1 Gal/2 Gal
	White	81280	Full Sun - Part Shade		Mounding	12"	12"	5-9	✓	Mid	1 Gal/2 Gal



Campanula Ultra Violet packs a punch of iridescent purple flower power in early summer. This first-year flowering selection is a must have for the garden. When not in bloom it is a compact spreading mound of shiny semi evergreen foliage that fills nooks and crannies of the garden bed.

NEW

Campanula portenschlagiana
Ultra Violet

Campanula portenschlagiana | Ultra Violet

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Ultra Violet	83356	Sun - Part Sun		Mounding	6-8"	16"	4-9	✓	Late Spring	1 Qt/1 Gal



TOP PICKS

IBERIS WHITE SHADOW

It's compact, quickly fills a container with large clean white flowers—perfect for retail appeal!

BLOOMS 2-3 WEEKS LATER THAN TRADITIONAL VARIETIES.

See on Page 48

Iberis White Shadow | 83713

Caryopteris | Gold Crest



Caryopteris x clandonensis
Gold Crest

A pollinator-friendly shrub that provides endless blooms from late summer through fall. Boasts an upright habit and attractive golden foliage in spring and summer, creating the perfect display in beds and borders.

Caryopteris x clandonensis | Gold Crest

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Gold Crest	81406	Full Sun		Upright	24-36"	24"	5-9	✓	Fall	1 Gal/3 Gal

Ceratostigma | Certaostigma



Ceratostigma plumbaginoides
Certaostigma

Ceratostigma plumbaginoides | Certaostigma

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Certaostigma	81405	Full Sun - Part Shade		Mounding - Spreading	9-12"	18"	5-9		Summer	1 Gal/8'/10"

Coreopsis | MoonSwirl



Coreopsis grandiflora
Compact MoonSwirl | 81395



Coreopsis grandiflora
MoonSwirl | 82161

The bold golden double blooms of Moonswirl are now available in a compact selection. Perfect for container production and spring sales, compact Moonswirl holds blooms closer to the compact mounded foliage and maintains a tighter habit all summer long.

Coreopsis grandiflora | MoonSwirl

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Compact MoonSwirl	81395	Full Sun		Upright	12-14"	14"	5-9	✓	Spring	1 Gal/8"/10"
	MoonSwirl	82161	Full Sun		Upright	14-18"	18"	4-9	✓	Spring	1 Gal/8"/10"

Coreopsis | Radiant



Coreopsis
Radiant Velvet in Gold



Coreopsis grandiflora
Radiant Velvet in Gold | 82461

Coreopsis Radiant Velvet in Gold offers early blooms in a tidy compact package. Kick off in the early spring cool temperatures with extra-large flowers. As temperatures heat up for summer Radiant will continue to rebloom.

Coreopsis grandiflora | Radiant

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Velvet in Gold	82461	Full Sun		Upright	12-14"	14"	5-9	✓	Spring	1 Gal/8"/10"

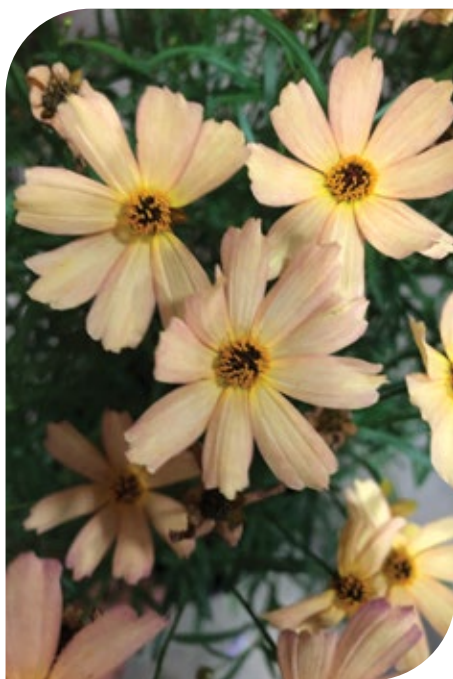


Coreopsis x hybrida
Fall Sensation Amber | 81380



Coreopsis x hybrida
Fall Sensation Quartz | 82451

Fall Sensation Coreopsis gives the grower, retailer and consumer a new addition for the fall. With five vibrant colors in the series and an upright mounding habit this series has a long flowering period all the way to first frost.



Coreopsis x hybrida
Fall Sensation Sandstone | 81377



Coreopsis x hybrida
Fall Sensation Sunny Side | 81376



Coreopsis x hybrida
Fall Sensation Vermilion | 81379

Coreopsis x hybrida | Fall Sensation

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Amber	81380	Full Sun		Upright	14-18"	18"	4-9	✓	Summer/Fall	1 Gal/8"/10"
	Quartz	82451	Full Sun		Upright	14-18"	18"	4-9	✓	Summer/Fall	1 Gal/8"/10"
	Sandstone	81377	Full Sun		Upright	14-18"	18"	4-9	✓	Summer/Fall	1 Gal/8"/10"
	Sunny Side	81376	Full Sun		Upright	14-18"	18"	4-9	✓	Summer/Fall	1 Gal/8"/10"
	Vermilion	81379	Full Sun		Upright	14-18"	18"	4-9	✓	Summer/Fall	1 Gal/8"/10"



Another Darrell Probst introduction, similar to Big Bang™ but with a compact habit. Perfect for containers and small spaces, large flowers on sterile plants bloom all season long.



Coreopsis x hybrida
Little Bang™ Candy Stripes | 81334



Coreopsis x hybrida
Little Bang™ Darling Clementine | 81332



Coreopsis x hybrida
Little Bang™ Firewheel | 81333



Coreopsis x hybrida
Little Bang™ Daybreak | 81811



Coreopsis x hybrida
Little Bang™ Enchanted Eve | 81812



Coreopsis x hybrida
Little Bang™ Goldilocks | 81372



Coreopsis x hybrida
Little Bang™ Red Elf | 81813



Coreopsis x hybrida
Little Bang™ Starlight | 81815



Coreopsis x hybrida
Little Bang™ Starstruck | 81816

Coreopsis x hybrida | Little Bang™

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Candy Stripes	81334	Full Sun		Upright	12-14"	14"	4-9	✓	Summer	1 Gal/8"/10"
	Darling Clementine	81332	Full Sun		Upright	12-14"	14"	4-9	✓	Summer	1 Gal/8"/10"
	Daybreak	81811	Full Sun		Upright	12-14"	14"	4-9	✓	Late Spring	1 Gal/8"/10"
	Enchanted Eve	81812	Full Sun		Upright	12-14"	14"	4-9	✓	Late Spring	1 Gal/8"/10"
	Firewheel	81333	Full Sun		Upright	12-14"	14"	4-9	✓	Summer	1 Gal/8"/10"
	Goldilocks	81372	Full Sun		Upright	12-14"	14"	4-9	✓	Summer	1 Gal/8"/10"
	Red Elf	81813	Full Sun		Upright	12-14"	14"	4-9	✓	Late Spring	1 Gal/8"/10"
	Starlight	81815	Full Sun		Upright	12-14"	14"	4-9	✓	Late Spring	1 Gal/8"/10"
	Starstruck	81816	Full Sun		Upright	12-14"	14"	4-9	✓	Late Spring	1 Gal/8"/10"



Coreopsis
Leading Lady™ Charlize

A coreopsis series for all regions with exceptional performance from north to south. Early flowering with extreme heat and humidity tolerance. Sterile plants bloom all season long.



TRUE NORTH
PERENNIALS

Coreopsis auriculata
Leading Lady™ Charlize | 81786



Coreopsis auriculata
Leading Lady™ Iron Lady | 79556



Coreopsis auriculata
Leading Lady™ Lauren | 81787



TRUE NORTH
PERENNIALS

Coreopsis auriculata
Leading Lady™ Sophia | 81788

Coreopsis | Leading Lady™

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Charlize	81786	Full Sun		Upright	12-14"	14"	3-9	✓	Spring	1 Gal/8"/10"
	Iron Lady	79556	Full Sun		Upright	12-14"	14"	4-9	✓	Spring	1 Gal/8"/10"
	Lauren	81787	Full Sun		Upright	12-14"	14"	4-9	✓	Spring	1 Gal/8"/10"
	Sophia	81788	Full Sun		Upright	12-14"	14"	3-9	✓	Spring	1 Gal/8"/10"

Coreopsis | Big Bang™



Coreopsis x hybrida
Big Bang™ Mercury Rising | 81808

Coreopsis x hybrida | Big Bang™

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Mercury Rising	81808	Full Sun		Upright	14-18"	18"	4-9	✓	Late Spring	1 Gal/8"/10"

Coreopsis | Permathread™



Coreopsis auriculata
Permathread™ Butter Rum | 81373



Coreopsis auriculata
Permathread™ Red Satin | 81793



Coreopsis auriculata
Permathread™ Shades of Rose | 81339

Coreopsis auriculata | Permathread™

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Butter Rum	81373	Full Sun		Upright	14-18"	18"	4-9	✓	Summer	1 Gal/8"/10"
	Red Satin	81793	Full Sun		Upright	14-18"	18"	4-9	✓	Summer	1 Gal/8"/10"
	Shades of Rose	81339	Full Sun		Upright	14-18"	18"	4-9	✓	Summer	1 Gal/8"/10"

Coreopsis | SunBright



Coreopsis auriculata
SunBright

Coreopsis SunBright has great landscape performance; it is first year flowering, drought tolerant, all-weather resistant, and bee friendly.



Coreopsis auriculata | SunBright

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	SunBright	81781	Full Sun		Upright	12-14"	14"	5-9	✓	Spring	1 Gal/8"/10"

Coreopsis | Various



Coreopsis verticillata
Moonbeam | 81794



Coreopsis verticillata
Zagreb | 81799

Coreopsis verticillata | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Moonbeam	81794	Full Sun		Upright	12-18"	18"	4-9	✓	Summer	1 Gal/8"/10"
	Zagreb	81799	Full Sun		Upright	18-24"	18"	4-9	✓	Summer	1 Gal/8"/10"



Delosperma hybrid
Rock Crystal Candy Red | 81547



Delosperma hybrid
Rock Crystal Magenta Pop | 81546

A unique series with a profusion of small flowers on compact plants. Rock Crystal is perfect for small pot production; early flowering with season long performance make these delosperma a must have in any rock garden.



Delosperma hybrid
Rock Crystal Orange | 81253



Delosperma hybrid
Rock Crystal Pink | 81531



Delosperma hybrid
Rock Crystal Purple | 81530



Delosperma hybrid
Rock Crystal Red | 81533



Delosperma hybrid
Rock Crystal White | 81252



Delosperma hybrid
Rock Crystal Yellow | 84100

Delosperma hybrid | Rock Crystal

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Candy Red	81547	Full Sun	Yes	Spreading	4"	10"	4-9	✓	Late Spring	1 Gal/8"/10"
	Magenta Pop	81546	Full Sun	Yes	Spreading	4"	10"	4-9	✓	Late Spring	1 Gal/8"/10"
	Orange	81253	Full Sun	Yes	Spreading	4"	10"	4-9	✓	Late Spring	1 Gal/8"/10"
	Pink	81531	Full Sun	Yes	Spreading	4"	10"	4-9	✓	Late Spring	1 Gal/8"/10"
	Purple	81530	Full Sun	Yes	Spreading	4"	10"	4-9	✓	Late Spring	1 Gal/8"/10"
	Red	81533	Full Sun	Yes	Spreading	4"	10"	4-9	✓	Late Spring	1 Gal/8"/10"
	White	81252	Full Sun	Yes	Spreading	4"	10"	4-9	✓	Late Spring	1 Gal/8"/10"
	Yellow	84100	Full Sun	Yes	Spreading	4"	10"	4-9	✓	Late Spring	1 Gal/8"/10"



Delosperma hybrid
Solstice Scarlet Red

Solstice have distinctly large flowers and vigorous growth. A fantastic color assortment makes these perfect for retail sales, and excellent for container production. Habit and flowering period are well matched making them ideal for mix and match combination plantings as well.



Delosperma hybrid
Solstice Orange | 84107



Delosperma hybrid
Solstice Purple | 81262



Delosperma hybrid
Solstice Purple Bicolor | 81266



Delosperma hybrid
Solstice Scarlet Red | 81549



Delosperma hybrid
Solstice Yellow | 84106

Delosperma Hybrid | Solstice

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Orange	84107	Full Sun	Yes	Mounding	4-6"	16"	6-9	✓	Spring	1 Gal/8"/10"
	Purple	81262	Full Sun	Yes	Mounding	4-6"	16"	6-9	✓	Spring	1 Gal/8"/10"
	Purple Bicolor	81266	Full Sun	Yes	Mounding	4-6"	16"	6-9	✓	Spring	1 Gal/8"/10"
	Scarlet Red	81549	Full Sun	Yes	Mounding	4-6"	16"	6-9	✓	Spring	1 Gal/8"/10"
	Yellow	84106	Full Sun	Yes	Mounding	4-6"	16"	6-9	✓	Spring	1 Gal/8"/10"



Delosperma hybrid
King of Desert Gold

A brand new series from the breeder of Jewel of Desert and Wheels of Wonder®. King of Desert shares the same great garden performance of Jewel of Desert with larger blooms that make a statement in containers and garden beds alike.



Delosperma hybrid
King of Desert Gold | 84123



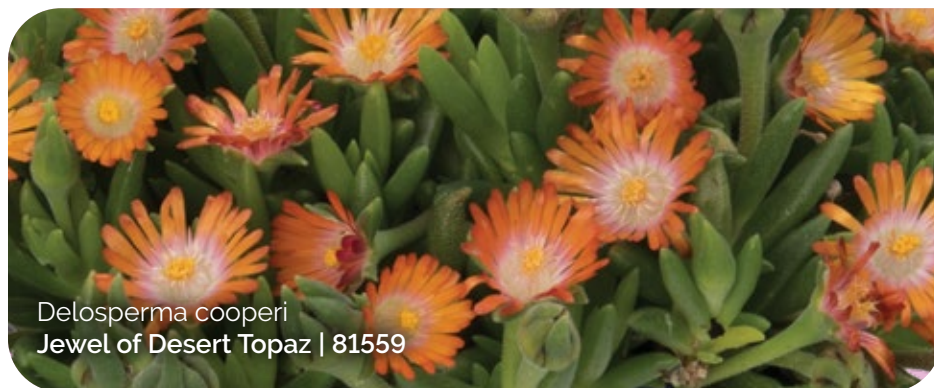
Delosperma hybrid
King of Desert Peach | 84124



Delosperma hybrid
King of Desert Red | 84126

Delosperma | King of Desert

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Gold	84123	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Spring	1 Qt/1 Gal
NEW	Peach	84124	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Spring	1 Qt/1 Gal
NEW	Red	84126	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Spring	1 Qt/1 Gal
NEW	White	84129	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Spring	1 Qt/1 Gal
NEW	Yellow	84119	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Spring	1 Qt/1 Gal



Delosperma cooperi
Jewel of Desert Topaz | 81559

Great groundcover for dry sunny areas. Extremely drought tolerant with a multitude of small colorful flowers covering a bed of succulent foliage. This series offers a wide assortment of colors to select from.



Delosperma cooperi
Jewel of Desert Amethyst | 81551



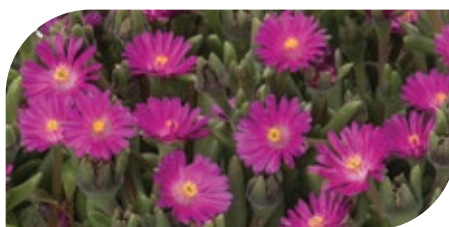
Delosperma cooperi
Jewel of Desert Candy Stone | 81270



Delosperma cooperi
Jewel of Desert Garnet | 81552



Delosperma cooperi
Jewel of Desert Grenade | 81553



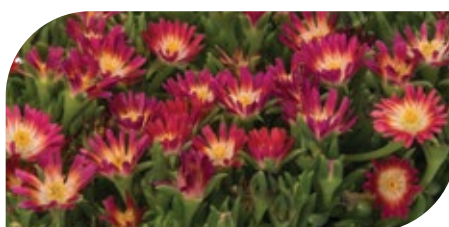
Delosperma cooperi
Jewel of Desert Opal | 81555



Delosperma cooperi
Jewel of Desert Peridot Imp | 81275



Delosperma cooperi
Jewel of Desert Rosequartz | 81557



Delosperma cooperi
Jewel of Desert Ruby | 81558



Delosperma cooperi
Jewel of Desert Sun Stone | 81271

Delosperma cooperi | Jewel of Desert

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Amethyst	81551	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Late Spring	1 Qt/1 Gal
	Candy Stone	81270	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Late Spring	1 Qt/1 Gal
	Garnet	81552	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Late Spring	1 Qt/1 Gal
	Grenade	81553	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Late Spring	1 Qt/1 Gal
	Opal	81555	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Late Spring	1 Qt/1 Gal
	Peridot Imp	81275	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Late Spring	1 Qt/1 Gal
	Rosequartz	81557	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Late Spring	1 Qt/1 Gal
	Ruby	81558	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Late Spring	1 Qt/1 Gal
	Sun Stone	81271	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Late Spring	1 Qt/1 Gal
	Topaz	81559	Full Sun	Yes	Spreading	4-6"	14"	6-9	✓	Late Spring	1 Qt/1 Gal

Delosperma | Wheels of Wonder®



Delosperma cooperi
Wheels of Wonder® Hot Pink Imp

This mounded succulent plays host to large blooms with a wide array of bicolor flowers to choose from. Works great in container and mixed succulent combinations for a brilliant pop of color. Extremely drought tolerant and sun loving.



Delosperma cooperi
Wheels of Wonder® Fire Imp | 81540



Delosperma cooperi
Wheels of Wonder® Golden Wonder | 81564



Delosperma cooperi
Wheels of Wonder® Hot Pink Imp | 81598



Delosperma cooperi
Wheels of Wonder® Hot Orange | 81543



Delosperma cooperi
Wheels of Wonder® Hot Red | 81542



Delosperma cooperi
Wheels of Wonder® Violet Wonder | 81567

Delosperma cooperi | Wheels of Wonder®

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Fire Imp	81540	Full Sun	Yes	Mounding	4-8"	16"	6-9	✓	Spring	1 Qt./1 Gal
	Golden Wonder	81564	Full Sun	Yes	Mounding	4-8"	16"	6-9	✓	Spring	1 Qt./1 Gal
	Hot Orange	81543	Full Sun	Yes	Mounding	4-8"	16"	6-9	✓	Spring	1 Qt./1 Gal
	Hot Pink Imp	81598	Full Sun	Yes	Mounding	4-8"	16"	6-9	✓	Spring	1 Qt./1 Gal
	Hot Red	81542	Full Sun	Yes	Mounding	4-8"	16"	6-9	✓	Spring	1 Qt./1 Gal
	Violet Wonder	81567	Full Sun	Yes	Mounding	4-8"	16"	6-9	✓	Spring	1 Qt./1 Gal

Delosperma | Various



Delosperma cooperi
Cooper's Ice Plant | 81550

Delosperma cooperi | Cooper's Ice Plant

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Cooper's Ice Plant	81550	Full Sun	Yes	Mounding - Spreading	3-4"	10"	6-9	✓	Summer	1 Qt./1 Gal/8"



TRUE NORTH
PERENNIALS

Dianthus hybrid
Mad Magenta

TOP
PICKS

Bring on the WOW factor with the most electrifying pink displays at retail. Fully hardy for both heat and cold; Mad Magenta comes back season after season with unstoppable flower power. Oversized blooms on compact plants make this variety an easy and impressive crop for growers.

Dianthus hybrid | Mad Magenta

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
TOP	Mad Magenta	17702	Sun - Part Sun	Yes	Mounding	8-12"	10"	3-9	✓	Late Spring	1 Qt/1 Gal

The **quality**
you want



in the
quantity
you need

PLANT YOUR FUTURE WITH DÜMMEN ORANGE

From our **Guatemalan farm** to your fingertips, our **wide range of perennials** boasts **top-performing genetics** and **superior breeding** with the quality you have come to expect from **Dümmen Orange**.





Dianthus hybrid
Rock Violet

This compact dianthus delivers an extremely high flower count. Single flowers grow just above very fine foliage on a medium growth habit. The series is uniform with vibrant colors and superior landscape performance.



Dianthus hybrid
Rock Purple | 17701

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Dianthus hybrid
Rock Ruby | 17550

TRUE NORTH
PERENNIALS



Dianthus hybrid
Rock Violet | 17549

TRUE NORTH
PERENNIALS



Dianthus hybrid
Rock White | 47544

TRUE NORTH
PERENNIALS

Dianthus hybrid | Rock

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Purple	17701	Sun - Part Sun	Yes	Mounding	6-10"	10"	3-9	✓	Spring	1 Qt/1 Gal/8"
	Ruby	17550	Sun - Part Sun	Yes	Mounding	6-10"	10"	3-9	✓	Spring	1 Qt/1 Gal/8"
	Violet	17549	Sun - Part Sun	Yes	Mounding	6-10"	10"	3-9	✓	Spring	1 Qt/1 Gal/8"
	White	47544	Sun - Part Sun	Yes	Mounding	6-10"	10"	3-9	✓	Spring	1 Qt/1 Gal/8"



Dianthus hybrid
Cliff Red

Dianthus Cliff matches hardiness with early, long-lasting blooms. The bright colors contrast against a beautiful mound of silver foliage. It is also provides excellent landscape performance even in tough conditions.



Dianthus hybrid
Cliff Pink Spot | 17995

TRUE NORTH
PERENNIALS



Dianthus hybrid
Cliff Red | 17994

Dianthus hybrid | Cliff

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Pink Spot	17995	Sun - Part Sun	Yes	Mounding	6-10"	10"	3-9	✓	Spring	1 Qt/1 Gal
	Red	17994	Sun - Part Sun	Yes	Mounding	6-10"	10"	4-9	✓	Spring	1 Qt/1 Gal



Dianthus Pemán is the best late-flowering carnation on the market. The series offers five colors to choose from with well matched compact rounded habits fully covered with semi-double flowers.



Dianthus hybrid
Pemán | 17545



Dianthus hybrid
Pemán Fancy Cerise | 17546



Dianthus hybrid
Pemán Fancy Lilac | 17547



Dianthus hybrid
Pemán Red | 17782



Dianthus hybrid
Pemán Violet | 17548

Dianthus hybrid | Pemán

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Pemán	17545	Sun - Part Sun	Yes	Mounding	6-10"	10"	4-7	✓	Summer	1 Qt/1 Gal/8"
	Fancy Cerise	17546	Sun - Part Sun	Yes	Mounding	6-10"	10"	4-7	✓	Summer	1 Qt/1 Gal/8"
	Fancy Lilac	17547	Sun - Part Sun	Yes	Mounding	6-10"	10"	4-7	✓	Summer	1 Qt/1 Gal/8"
	Red	17782	Sun - Part Sun	Yes	Mounding	6-10"	10"	4-7	✓	Summer	1 Qt/1 Gal/8"
	Violet	17548	Sun - Part Sun	Yes	Mounding	6-10"	10"	4-7	✓	Summer	1 Qt/1 Gal/8"



Dianthus Arabella make a statement with large semi double blooms over a compact mound of green foliage. These first-year flowering beauties are perfect for programs in the early spring and spring color programs.



Dianthus hybrid
Arabella Pink | 17836



Dianthus hybrid
Arabella Purple | 17988



Dianthus hybrid
Special Bacco | 17535

Dianthus hybrid | Arabella

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Arabella Pink	17836	Sun - Part Sun		Upright	8"	10"	6-9	✓	Spring	1 Qt/1 Gal/8"
NEW	Arabella Purple	17988	Sun - Part Sun		Upright	8"	10"	6-9	✓	Spring	1 Qt/1 Gal/8"
NEW	Special Bacco	17535	Sun - Part Sun		Upright	8"	10"	6-9	✓	Spring	1 Qt/1 Gal/8"



Dianthus Hybrid
Sprint Angie | 17519

NEW

Good things can come in small packages. Dianthus Sprint sports neatly compact foliage covered in a mass of medium semi-double blooms. The series offers a range of colors with a little something for everyone.



NEW

Dianthus hybrid
Sprint Bordeaux | 17831



NEW

Dianthus hybrid
Bright Red | 17428



NEW

Dianthus hybrid
Sprint Dark Pink | 17986



NEW

Dianthus hybrid
Sprint Dark Red | 17534



NEW

Dianthus hybrid
Sprint Pink | 17530



NEW

Dianthus hybrid
Sprint Pink Shades | 17531



NEW

Dianthus hybrid
Sprint Salmon | 17526

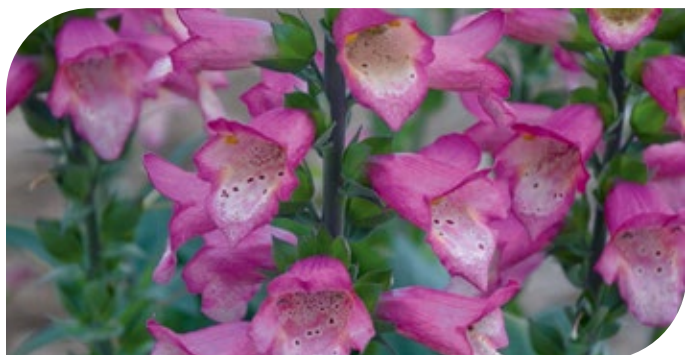


NEW

Dianthus hybrid
Sprint White | 17521

Dianthus hybrid | Sprint

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Angie	17519	Sun - Part Sun		Upright	8" (20cm)	10" (25cm)	6-9	✓	Spring	1 Qt/1 Gal/8"
NEW	Bordeaux	17831	Sun - Part Sun		Upright	8" (20cm)	10" (25cm)	6-9	✓	Spring	1 Qt/1 Gal/8"
NEW	Bright Red	17428	Sun - Part Sun		Upright	8" (20cm)	10" (25cm)	6-9	✓	Spring	1 Qt/1 Gal/8"
NEW	Dark Pink	17986	Sun - Part Sun		Upright	8" (20cm)	10" (25cm)	6-9	✓	Spring	1 Qt/1 Gal/8"
NEW	Dark Red	17534	Sun - Part Sun		Upright	8" (20cm)	10" (25cm)	6-9	✓	Spring	1 Qt/1 Gal/8"
NEW	Pink	17530	Sun - Part Sun		Upright	8" (20cm)	10" (25cm)	6-9	✓	Spring	1 Qt/1 Gal/8"
NEW	Pink Shades	17531	Sun - Part Sun		Upright	8" (20cm)	10" (25cm)	6-9	✓	Spring	1 Qt/1 Gal/8"
NEW	Salmon	17526	Sun - Part Sun		Upright	8" (20cm)	10" (25cm)	6-9	✓	Spring	1 Qt/1 Gal/8"
NEW	White	17521	Sun - Part Sun		Upright	8" (20cm)	10" (25cm)	6-9	✓	Spring	1 Qt/1 Gal/8"



Digiplexis x Hybrida
Berry Canary | 80783



Digiplexis x Hybrida
Illumination® Flame | 80963

Digiplexis | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Berry Canary	80783	Full Sun		Upright	24-28"	18"	7-10	✓	Late Spring	1 Gal/8"/10"
	Illumination® Flame	80963	Full Sun		Upright	28-36"	18"	7-10	✓	Late Spring	1 Gal/8"/10"



Perovskia Jelena | 88411

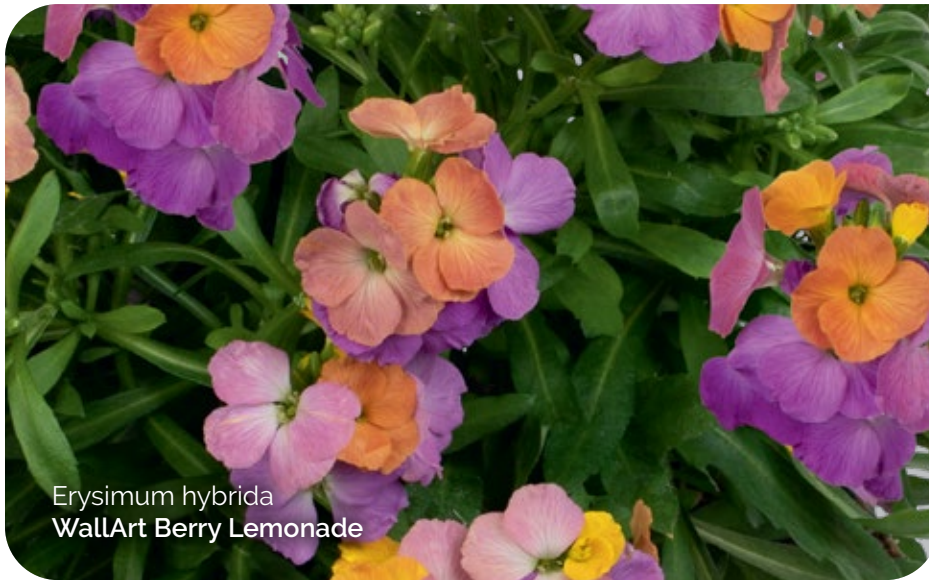
**TOP
PICKS**

PEROVSKIA JELENA

With a compact habit and attractive blue flower spikes on gray-green foliage, Jelena is the star of the late-summer garden.

**FLOWERING FROM ITS BASE,
IT CREATES A FULLER,
MORE ATTRACTIVE PLANT.**

See on Page 76



Erysimum hybrida
WallArt Berry Lemonade

WallArt is an excellent early crop with a perfect mound of compact foliage. These are ideal for small and medium size containers. As a well matched series, they are also perfect for mix and match combos. And the extended flowering provides great value for the consumer.



Erysimum hybrida
WallArt Berry Lemonade | 82170



Erysimum hybrida
WallArt Citric | 82165



Erysimum hybrida
WallArt Pearl | 82164



Erysimum hybrida
WallArt Lavender | 82278



Erysimum hybrida
WallArt Pink Lemonade | 82110

Erysimum hybrida | WallArt

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Berry Lemonade	82170	Full Sun		Upright	12-16"	14"	6-9	✓	Early Spring	1 Qt./1 Gal.
	Citric	82165	Full Sun		Upright	12-16"	14"	6-9	✓	Early Spring	1 Qt./1 Gal.
	Pearl	82164	Full Sun		Upright	12-16"	14"	6-9	✓	Early Spring	1 Qt./1 Gal.
	Lavender	82278	Full Sun		Upright	12-16"	14"	6-9	✓	Early Spring	1 Qt./1 Gal.
	Pink Lemonade	82110	Full Sun		Upright	12-16"	14"	6-9	✓	Early Spring	1 Qt./1 Gal.

Eupatorium | Various



Eupatorium dubium
Baby Joe® | 81838



Eupatorium maculatum
Little-Pye | 81834

Eupatorium | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Baby Joe®	81838	Full Sun	Yes	Upright	18-24"	24"	3-9	✓	Fall	1 Gal/8"/10"
	Little-Pye	81834	Full Sun	Yes	Upright	24-36"	24"	3-9	✓	Fall	1 Gal/8"/10"

Euphorbia | Various



Euphorbia x martinii
Ascot Rainbow | 81845



Euphorbia characias
Glacier Blue | 81853



Euphorbia characias
Tasmanian Tiger | 81854

Euphorbia | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Ascot Rainbow	81845	Full Sun	Yes	Upright	14-20"	18"	6-9		Spring	1 Gal/8"/10"
	Glacier Blue	81853	Full Sun	Yes	Upright	12-18"	18"	6-9		Spring	1 Gal/8"/10"
	Tasmanian Tiger	81854	Full Sun	Yes	Upright	12-18"	18"	6-9		Spring	1 Gal/8"/10"



**DIANTHUS
MAD MAGENTA**

17702

**LARGEST-FLOWERED
OFFERING, PLUS
ZONE 3 HARDY**



**PEROVSKIA
JELENA**

88411

**FLOWERS FROM THE BASE,
CREATING A FULLER,
MORE ATTRACTIVE PLANT**



**IBERIS
WHITE SHADOW**

83713

**FLOWERS 2-3 WEEKS LATER
THAN TRADITIONAL IBERIS**



**LA DIVA LAVENDER
ETERNAL ELEGANCE**

78215

**GAME-CHANGING FIRST-
YEAR FLOWERING ENGLISH
LAVENDER FOR EARLY-
SPRING COLOR**



**SALVIA
NOBLE KNIGHT**

87138

**LARGE FLOWER, EARLY
BLOOMER, PERFORMANCE
BREAKTHROUGH**



**LEUCANTHEMUM
SWEET DAISY®
BIRDY**

80621

**ALL-AMERICAN
SELECTION WINNER,
PLUS ZONE 3 HARDY**



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some of the *largest Gaillardia*
flowers on the market.





*Bright retail-impact
colors with compact,
mounding habit.*

*First year flowering,
programmable series
for late spring to
early summer and fall.*



*All region performance
in Zones 3-9.*





Gaillardia aristata
SpinTop® Orange Halo Improved

The SpinTop® series provides early color that continues through the summer on a tidy mounded habit. Incredibly hardy to cold and heat and tolerant to hot, humid conditions, they are strong performers in almost every market.



Gaillardia aristata
SpinTop® Mango | 62540

TRUE NORTH
PERENNIALS



Gaillardia aristata
SpinTop® Orange Halo Imp | 62530

TRUE NORTH
PERENNIALS





Gaillardia aristata
SpinTop® Red | 62451
TRUE NORTH
PERENNIALS



Gaillardia aristata
SpinTop® Red Starburst Imp | 62548
TRUE NORTH
PERENNIALS



Gaillardia aristata
SpinTop® Yellow Touch | 62456
TRUE NORTH
PERENNIALS

Gaillardia aristata | SpinTop®

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Mango	62540	Full Sun	Yes	Mounding	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"
	Orange Halo Imp	62530	Full Sun	Yes	Mounding	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"
	Red	62451	Full Sun	Yes	Mounding	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"
	Red Starburst Imp	62548	Full Sun	Yes	Mounding	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"
	Yellow Touch	62456	Full Sun	Yes	Mounding	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"



SpinTop® Mariachi are the right amount of extra with their brightly colored spoon-tipped flowers. A compact habit is a bonus for growers and retailers alike.



Gaillardia aristata
SpinTop® Mariachi Copper Sun | 62533
TRUE NORTH
PERENNIALS



Gaillardia aristata
SpinTop® Mariachi Red Sky | 62550
TRUE NORTH
PERENNIALS

Gaillardia aristata | SpinTop® Mariachi

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Copper Sun	62533	Full Sun	Yes	Mounding	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"
	Red Sky	62550	Full Sun	Yes	Mounding	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"



Gaura lindheimeri
Graceful Light Pink

A beautiful collection of first year flowering and compact growing Gaura. Their delicate blooms arrive early in spring making them an ideal addition to any color program. They have great garden performance and grow larger and more robust in their second season.



Gaura lindheimeri
Graceful Blush | 71342



Gaura lindheimeri
Graceful Pink | 71341



Gaura lindheimeri
Graceful Light Pink | 71324



Gaura lindheimeri
Graceful Magic | 81080



Gaura lindheimeri
Graceful White | 71338

Gaura lindheimeri | Graceful

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Blush	71342	Full Sun		Upright	18-24"	24"	6-9	✓	Spring	1 Gal/8"/10"
	Light Pink	71324	Full Sun		Upright	12-18"	18"	6-9	✓	Spring	1 Gal/8"/10"
	Magic	81080	Full Sun		Upright	12-18"	18"	6-9	✓	Late Spring	1 Gal/8"/10"
	Pink	71341	Full Sun		Upright	12-18"	18"	6-9	✓	Spring	1 Gal/8"/10"
	White	71338	Full Sun		Upright	12-18"	18"	6-9	✓	Spring	1 Gal/8"/10"



Make a statement with the Monarch series. Large flowers are nestled just above medium-green foliage and sit atop dark-pink stems. These are easy-to-ship and the perfect kick off to the summer perennial season.

Gaura lindheimeri
Monarch Pink



Gaura lindheimeri
Monarch Pink | 71345



Gaura lindheimeri
Monarch White | 71350

Gaura lindheimeri | Monarch

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Pink	71345	Full Sun		Upright	18-24"	24"	6-9	✓	Late Spring	1 Gal/8"/10"
	White	71350	Full Sun		Upright	18-24"	24"	6-9	✓	Late Spring	1 Gal/8"/10"



Gaura lindheimeri
Belleza™ Dark Pink | 81151



Gaura lindheimeri
Belleza™ White | 81152



Gaura lindheimeri
Passionate Rainbow | 71319



Gaura lindheimeri
Siskiyou Pink | 71315

Gaura lindheimeri | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Belleza™ Dark Pink	81151	Full Sun		Upright	18-24"	24"	6-9	✓	Late Spring	1 Gal/8"/10"
	Belleza™ White	81152	Full Sun		Upright	18-24"	24"	6-9	✓	Late Spring	1 Gal/8"/10"
	Passionate Rainbow	71319	Full Sun		Upright	18-24"	18"	6-9	✓	Late Spring	1 Gal/8"/10"
	Siskiyou Pink	71315	Full Sun	Yes	Upright	18-24"	18"	7-10	✓	Summer	1 Gal/8"/10"

Galium | Various

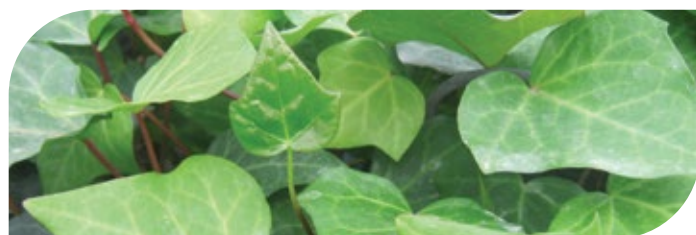


Gaura odoratum
Sweet Woodruff

Galium odoratum | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Sweet Woodruff	81847	Part Sun-Shade		Mounding	6-12"	12"	7-10		Spring	1 Qt/1 Gal

Hedera | Various



Hedera algeriensis
Algerian Ivy | 75110



Hedera helix
Common Ivy | 75112



Hedera helix
Fancy California | 75113



Hedera helix
Glacier | 75114



Hedera helix
Golden Child | 75115



Hedera helix
Needle Point | 75118



Hedera helix
Ripple Yellow | 75119



Hedera helix
Thorndale | 75120



Hedera helix var. baltica
Baltic Ivy | 81882

Hedera | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Algerian Ivy	75110	Part Sun-Shade		Trailing	4-8"	72"	7-9			1 Qt/1 Gal
	Common Ivy	75112	Part Sun-Shade		Trailing	4-8"	72"	5-9			1 Qt/1 Gal
	Fancy California	75113	Part Sun-Shade		Trailing	4-8"	72"	6-9			1 Qt/1 Gal
	Glacier	75114	Part Sun-Shade		Trailing	4-8"	72"	6-9			1 Qt/1 Gal
	Golden Child	75115	Part Sun-Shade		Trailing	4-8"	72"	6-9			1 Qt/1 Gal
	Needle Point	75118	Part Sun-Shade		Trailing	4-8"	72"	6-9			1 Qt/1 Gal
	Ripple Yellow	75119	Part Sun-Shade		Trailing	4-8"	72"	5-9			1 Qt/1 Gal
	Thorndale	75120	Part Sun-Shade		Trailing	4-8"	72"	5-9			1 Qt/1 Gal
	Baltic Ivy helix var. baltica	81882	Part Sun-Shade		Trailing	4-8"	72"	5-9			1 Qt/1 Gal



Helenium autumnale
Salud™ Embers | 82173



Helenium autumnale
Salud™ Golden | 82174



Helenium autumnale
Salud™ Yellow | 82175

Helenium autumnale | Salud™

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Embers	82173	Full Sun	Yes	Upright	14-18"	18"	5-9	✓	Summer	1 Gal/8"/10"
	Golden	82174	Full Sun	Yes	Upright	14-18"	18"	5-9	✓	Summer	1 Gal/8"/10"
	Yellow	82175	Full Sun	Yes	Upright	14-18"	18"	5-9	✓	Summer	1 Gal/8"/10"

Heliopsis | Sunstruck



Heliopsis helianthoides
Sunstruck

A perennial sunflower for late summer production with striking variegated foliage on a tight compact plant.

Heliopsis helianthoides | Sunstruck

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Sunstruck	81351	Full Sun	Yes	Upright	16-18"	18"	6-9	✓	Summer	1 Gal/8"/10"



Iberis sempervirens
White Shadow

**TOP
PICKS**

Iberis Tuff Candy and White Shadow are perfectly suited for early spring programs with masses of white flowers blanketing medium evergreen foliage. For a little something extra try the summer blooming Candy Sorbet, the cotton candy pink flowers are a unique addition to the summer perennial garden.



Iberis sempervirens
Candy Sorbet | 83717

Iberis sempervirens
Tuff Candy | 82113

Iberis sempervirens
White Shadow | 83713

**TOP
PICKS**

Iberis sempervirens | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Candy Sorbet	83717	Full Sun - Part Shade		Mounding	6-8"	18"	5-9		Summer	1 Qt/1 Gal
	Tuff Candy	82113	Full Sun - Part Shade		Mounding	6-8"	18"	4-8		Early Spring	1 Qt/1 Gal
TOP	White Shadow	83713	Full Sun - Part Shade		Mounding	6-8"	18"	4-8		Early Spring	1 Qt/1 Gal



Lamium maculatum
Ghost | 83804



Lamium maculatum
Golden Anniversary | 83805



Lamium maculatum
Orchid Frost Gold | 83808



Lamium maculatum
Orchid Frost Grande | 83809

Lamium maculatum | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Ghost	83804	Part Sun-Shade		Spreading	4-6"	18"	4-9	✓	Late Spring	1 Qt/1 Gal
	Golden Anniversary	83805	Part Sun-Shade		Spreading	4-6"	18"	4-9	✓	Late Spring	1 Qt/1 Gal
	Orchid Frost Gold	83808	Part Sun-Shade		Spreading	4-6"	18"	4-9	✓	Late Spring	1 Qt/1 Gal
	Orchid Frost Grande	83809	Part Sun-Shade		Spreading	4-6"	18"	4-9	✓	Late Spring	1 Qt/1 Gal



Lamium maculatum
Orchid Frost | 80300



Lamium maculatum
Beacon Silver | 83802



Lamium maculatum
Pink Pewter | 83806



Lamium maculatum
Purple Dragon | 83807



Lamium maculatum
Red Nancy | 78152



Lamium maculatum
White Nancy | 78151

Lamium maculatum | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Orchid Frost	80300	Part Sun-Shade		Spreading	4-6"	18"	4-9	✓	Late Spring	1 Qt/1 Gal
	Beacon Silver	83802	Part Sun-Shade		Spreading	4-6"	18"	4-9	✓	Late Spring	1 Qt/1 Gal
	Pink Pewter	83806	Part Sun-Shade		Spreading	4-6"	18"	4-9	✓	Late Spring	1 Qt/1 Gal
	Purple Dragon	83807	Part Sun-Shade		Spreading	4-6"	18"	4-9	✓	Late Spring	1 Qt/1 Gal
	Red Nancy	78152	Part Sun-Shade		Spreading	4-6"	18"	4-9	✓	Late Spring	1 Qt/1 Gal
	White Nancy	78151	Part Sun-Shade		Spreading	4-6"	18"	4-9	✓	Late Spring	1 Qt/1 Gal



Lantana camara
New Gold | 71904

These tried and true varieties are excellent for heat-tolerant color throughout the summer months. Great plants for pollinator garden collections, as well.

For more Lantana selections check out our Annuals catalog.



Lantana camara
Confetti | 71871



Lantana camara
Dallas Red | 71921



Lantana montevidensis
White Trailing | 71964

Lantana | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Confetti	71871	Full Sun	Yes	Upright	18-36"	30"	9-11	✓	Spring, Summer, Fall	1 Qt/1 Gal
	New Gold	71904	Full Sun	Yes	Upright	18-24"	30"	7-11	✓	Spring, Summer, Fall	1 Qt/1 Gal
	Dallas Red	71921	Full Sun	Yes	Upright	18-36"	18"	9-11	✓	Spring, Summer, Fall	1 Qt/1 Gal
	White Trailing	71964	Full Sun	Yes	Trailing	12-24"	36"	8-10	✓	Spring, Summer, Fall	1 Qt/1 Gal

PROGRAMMABLE FIRST-YEAR LAVENDER COLLECTION

LA DIVA

All varieties offered in callus product form for faster rooting—saving production time

Providing an entire season
of sales opportunities
from early spring through
late summer!



SPRING—LATE SPRING

SPANISH LAVENDER

Lavandula stoechas

| La Diva Big Night • La Diva Berry Beautiful • La Diva Papillon

Strongest stoechas varieties with ***abundantly showy flower bracts & tough foliage***

Tolerates heat & cold • Endless flower power



LATE SPRING—SUMMER

ENGLISH LAVENDER

Lavandula angustifolia

| La Diva Eternal Elegance Series • La Diva Vintage Violet & Amethyst

Earliest & heaviest flowering angustifolia lavenders ***without the need for vernalization***

Extremely dense & compact • Ideal for small containers & indoor displays



SUMMER—FALL

FRENCH LAVENDER

Lavandula dentata

| La Diva Imperial & Imperial Early

Dentata varieties flower much ***heavier*** and ***earlier***, making them the ***showiest*** and ***most reliable landscape performers*** available

Tolerate hard summer conditions • Flower endlessly in commercial landscapes





The La Diva Berry series of Spanish lavender, offer unique shades of pink and purple that contrast perfectly with gray-green foliage. The compact and upright habit coupled with super-sized flowers and bracts (Berry Bountiful has double bracts!) add to their appeal as a container or border plant. Cool growing season needs make these perfectly suited for early-season programs.



Lavandula stoechas
La Diva Berry Beautiful | 78244



Lavandula stoechas
La Diva Berry Bountiful | 78274



Lavandula stoechas
La Diva Berry Rosey | 78275

Lavandula stoechas | La Diva Berry

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Beautiful	78244	Full Sun	Yes	Upright	12-14"	14"	6-9	✓	Spring	1 Gal/8"/10"
NEW	Bountiful	78274	Full Sun	Yes	Upright	12-14"	14"	6-9	✓	Spring	1 Gal/8"/10"
NEW	Rosey	78275	Full Sun	Yes	Upright	12-14"	14"	6-9	✓	Spring	1 Gal/8"/10"



Lavandula stoechas
La Diva Papillon Deep Rose Imp

La Diva Papillon is a well-matched series that offers an array of colors, in an early spring display with an abundance of fragrant flowers on compact plants. For growers, you'll love its cool crop requirements and its earliness to flower.



Lavandula stoechas
La Diva Papillon Purple | 78776



Lavandula stoechas
La Diva Papillon Deep Rose | 78283



Lavandula stoechas
La Diva Papillon White | 78229

Lavandula stoechas | La Diva Papillon

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
IMP	Deep Rose Imp	78283	Full Sun	Yes	Upright-Mounding	10-14"	12"	6-9	✓	Spring	1 Gal/8"/10"
	Purple	78776	Full Sun	Yes	Upright-Mounding	10-14"	12"	6-9	✓	Spring	1 Gal/8"/10"
	White	78229	Full Sun	Yes	Upright-Mounding	10-14"	12"	6-9	✓	Spring	1 Gal/8"/10"



Lavandula stoechas
La Diva Big Night

There is a little something for everyone, La Diva Big Night with its loads of massive, deep purple flowers and extra-large bracts with durable foliage that will stand up to hot summer weather. Or try out Garnet Rouge with smaller burgundy blooms and bracts striped with green. And the super compact Lush Purple with a double set of extra-large bracts held tightly to the compact foliage.



Lavandula stoechas
La Diva Big Night | 78219



Lavandula stoechas
La Diva Garnet Rouge | 78276

NEW



Lavandula stoechas
La Diva Lush Purple | 78279

NEW

Lavandula stoechas | La Diva Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Big Night	78219	Full Sun	Yes	Upright-Mounding	12-14"	14"	6-9	✓	Spring	1 Gal./8"/10"
NEW	Garnet Rouge	78276	Full Sun	Yes	Upright-Mounding	12-14"	14"	6-9	✓	Spring	1 Gal./8"/10"
NEW	Lush Purple	78279	Full Sun	Yes	Upright	12-14"	14"	6-9	✓	Spring	1 Gal./8"/10"



Lavandula angustifolia
La Diva Eternal Elegance | 78215



Lavandula angustifolia
La Diva Eternal Grace | 78290

La Diva Eternals are game-changers in angustifolia types. These English Lavenders have a profusion of blooms from very early spring, continuing nonstop into the summer months. In production, La Diva Eternals stand out for being first year flowering without any need for vernalization unlike typical English types. Eternal Elegance is our most compact angustifolia, perfect for smaller container sizes, and Eternal Grace is ideal for larger pot sizes.

Lavandula angustifolia | La Diva Eternal

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
TOP	Elegance	78215	Full Sun	Yes	Upright-Mounding	8-12"	10"	5-9	✓	Spring	1 Gal/8"/10"
NEW	Eternal Grace	78290	Full Sun	Yes	Upright-Mounding	14-20"	18"	5-9	✓	Spring	1 Gal/8"/10"



Lavandula angustifolia
La Diva Vintage Amethyst | 78248



Lavandula angustifolia
La Diva Vintage Violet | 78214

The English Lavender, La Diva Vintage collection is first year flowering with no vernalization requirement. Starting in spring these varieties have non-stop flower power throughout the summer months, and an absolute abundance of blooms on a large plant body ideal for bigger containers and landscape plantings.

Lavandula angustifolia | La Diva Vintage

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Amethyst	78248	Full Sun	Yes	Upright	14-20"	18"	5-9	✓	Summer	1 Gal/8"/10"
	Violet	78214	Full Sun	Yes	Upright	14-20"	18"	5-9	✓	Summer	1 Gal/8"/10"

Lavandula | La Diva



Lavandula angustifolia
La Diva Spirit White

La Diva Spirit are tried and truly hardy English Lavender. Wintering over in a cold weather climate reaching lows of -40 degrees, the La Diva Spirit White has received the True North Zone 3 hardiness rating after having come back two years in a row. La Diva Spirit Purple Blue and Pink both returned after the first winter earning them a Zone 4 hardiness rating. Due to their hardiness, these English Lavenders require a vernalization period and bloom best beginning in late spring and on into summer.



Lavandula angustifolia
La Diva Spirit Pink | 78247



Lavandula angustifolia
La Diva Spirit Purple Blue | 81895



Lavandula angustifolia
La Diva Spirit White | 81907

TRUE NORTH
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Lavandula angustifolia | La Diva Spirit

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Pink	78247	Full Sun	Yes	Upright-Mounding	14-20"	18"	4-9		Summer	1 Gal/8"/10"
NEW	Purple Blue	81895	Full Sun	Yes	Upright-Mounding	14-20"	18"	4-9		Summer	1 Gal/8"/10"
NEW	White	81907	Full Sun	Yes	Upright-Mounding	14-20"	18"	3-9		Summer	1 Gal/8"/10"



Lavandula dentata
La Diva Imperial

La Diva Imperial are the best varieties for the hot and humid south. Typically grown for their woolly gray foliage, these French lavenders boast the heaviest flower power we've ever come across. They withstand the summer heat and humidity with shining color.



Lavandula dentata
La Diva Imperial | 81086



Lavandula dentata
La Diva Imperial Early | 78236

Lavandula dentata | La Diva Imperial

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Imperial	81086	Full Sun	Yes	Upright	14-18"	18"	7-9	✓	Spring	1 Gal/8"/10"
	Imperial Early	78236	Full Sun	Yes	Upright	14-18"	18"	7-9	✓	Spring	1 Gal/8"/10"

Lavandula | Various



Lavandula angustifolia
Big Time Blue | 81887



Lavandula angustifolia
Big Time White | 78266



Lavandula angustifolia
Blujeans | 78224



Lavandula angustifolia
Platinum Blonde | 81893



Lavandula angustifolia
Super Blue | 81894



Lavandula angustifolia
Hidcote Blue | 81891



Lavandula angustifolia
Munstead | 81892

Lavandula angustifolia | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Big Time Blue	81887	Full Sun	Yes	Upright-Mounding	10-14"	14"	5-9	✓	Late Spring	1 Gal/8"/10"
NEW	Big Time White	78266	Full Sun	Yes	Upright-Mounding	10-14"	14"	5-9	✓	Late Spring	1 Gal/8"/10"
	Blujeans	78224	Full Sun	Yes	Upright	14-18"	18"	5-9	✓	Summer	1 Gal/8"/10"
	Platinum Blonde	81893	Full Sun	Yes	Upright-Mounding	10-14"	14"	5-9		Late Spring	1 Gal/8"/10"
	Super Blue	81894	Full Sun	Yes	Upright-Mounding	10-14"	14"	5-9	✓	Late Spring	1 Gal/8"/10"
	Hidcote Blue	81891	Full Sun	Yes	Upright-Mounding	12-14"	14"	4-9	✓	Summer	1 Gal/8"/10"
	Munstead	81892	Full Sun	Yes	Upright-Mounding	12-14"	14"	4-9	✓	Summer	1 Gal/8"/10"



Lavandula angustifolia
Phenomenal | 81903



Lavandula angustifolia
Sensational!® | 78267



Lavandula x intermedia
Goodwin Creek | 81901



Lavandula x intermedia
Grosso | 81902



Lavandula x intermedia
Provence | 81904



Lavandula stoechas
Ruffles Blueberry | 69141



Lavandula stoechas
Otto Quast | 69140



Lavandula dentata
French Lavender (Green) | 81896

Lavandula angustifolia | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Phenomenal	81903	Full Sun	Yes	Upright	14-18"	18"	5-9		Summer	1 Gal/8"/10"
NEW	Sensational!®	78267	Full Sun	Yes	Upright-Mounding	14-18"	18"	5-9		Summer	1 Gal/8"/10"
	Goodwin Creek	81901	Full Sun	Yes	Upright-Mounding	12-14"	14"	8-10	✓	Summer	1 Gal/8"/10"
	Grosso	81902	Full Sun	Yes	Upright-Mounding	12-14"	14"	5-9	✓	Summer	1 Gal/8"/10"
	Provence	81904	Full Sun	Yes	Upright-Mounding	12-14"	14"	5-9	✓	Summer	1 Gal/8"/10"
	Ruffles Blueberry	69141	Full Sun	Yes	Upright-Mounding	10-14"	14"	6-9	✓	Spring	1 Gal/8"/10"
	Otto Quast	69140	Full Sun	Yes	Upright-Mounding	12-14"	14"	6-9	✓	Summer	1 Gal/8"/10"
	French Lavender (Green)	81896	Full Sun	Yes	Upright	12-14"	14"	8-10	✓	Summer	1 Gal/8"/10"



HAPPY DAYS WITH

SWEET DAISY[®]

A vast *first-year flowering* collection, Sweet Daisy[®] offers an array of *unique flower forms* suitable for any garden application.

Sweet
LEUCANTHEMUM
Daisy[™]



Each variety *flowers 12–18 weeks* for an unstoppable summer show.

Gardeners can enjoy these gems as a *cheerful bright spot* that will provide *years of beauty* with *very little maintenance*.



New blooms grow above aging blooms, keeping plants *looking fresh*.





Leucanthemum maximum
Sweet Daisy® Izabel



Leucanthemum maximum
Sweet Daisy® Birdy | 80621

TRUE NORTH
PERENNIALS



Leucanthemum maximum
Sweet Daisy® Chloe | 83956



Leucanthemum maximum
Sweet Daisy® Christine | 80392

TRUE NORTH
PERENNIALS



Leucanthemum maximum
Sweet Daisy® Izabel | 84023

TRUE NORTH
PERENNIALS



Leucanthemum maximum
Sweet Daisy® Jane | 80393

TRUE NORTH
PERENNIALS



Leucanthemum maximum
Sweet Daisy® Kylie | 83958



Leucanthemum maximum
Sweet Daisy® Rebecca | 81090



Leucanthemum maximum
Sweet Daisy® Shelly | 84044



Leucanthemum maximum
Sweet Daisy® Sofie | 80624

Leucanthemum maximum | Sweet Daisy®

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
TOP	Birdy	80621	Full Sun	Yes	Upright	18-24"	24"	3-9	✓	Late Spring	1 Gal/8"/10"
NEW	Chloe	83956	Full Sun	Yes	Upright	14-20"	20"	4-9	✓	Late Spring	1 Gal/8"/10"
	Christine	80392	Full Sun	Yes	Upright-Mounding	12-16"	16"	3-9	✓	Late Spring	1 Gal/8"/10"
	Izabel	84023	Full Sun	Yes	Upright	14-20"	20"	3-9	✓	Early Summer	1 Gal/8"/10"
	Jane	80393	Full Sun	Yes	Upright	12-16"	16"	3-9	✓	Late Spring	1 Gal/8"/10"
NEW	Kylie	83958	Full Sun	Yes	Upright	14-20"	20"	4-9	✓	Late Spring	1 Gal/8"/10"
	Rebecca	81090	Full Sun	Yes	Upright-Mounding	12-16"	16"	4-9	✓	Late Spring	1 Gal/8"/10"
	Shelly	84044	Full Sun	Yes	Mounding	4-6"	10"	5-9	✓	Early Summer	1 Gal/8"/10"
	Sofie	80624	Full Sun	Yes	Mounding	6-10"	10"	5-9	✓	Late Spring	1 Gal/8"/10"

Leucanthemum | Real®



Leucanthemum maximum
Real® Dream | 80345



Leucanthemum maximum
Real® Glory | 80346



Leucanthemum maximum
Real® Sunbeam | 84003

Leucanthemum maximum | Real®

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Dream	80345	Full Sun	Yes	Upright	18-24"	18"	4-9		Summer	1 Gal/8"/10"
	Glory	80346	Full Sun	Yes	Upright	18-24"	18"	4-9		Summer	1 Gal/8"/10"
	Sunbeam	84003	Full Sun	Yes	Upright	18-24"	18"	4-9		Summer	1 Gal/8"/10"

Leucanthemum | Snow Cap



Leucanthemum
Snow Cap | 84007

Leucanthemum maximum | Snow Cap

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Snow Cap	84007	Full Sun	Yes	Upright-Mounding	8-12"	14"	4-8		Summer	1 Gal/8"/10"

Lithodora | Various



Lithodora diffusa
Blue Star | 82303



Lithodora diffusa
Grace Ward | 82301

Lithodora | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Blue Star	82303	Full Sun	Yes	Mounding	4-8"	24"	6-8		Early-Spring	1 Qt/1 Gal
	Grace Ward	82301	Full Sun		Mounding	4-8"	24"	6-8		Early-Spring	1 Qt/1 Gal

Lysimachia | Creeping Jenny



Lysimachia nummularia
Creeping Jenny Green | 76403



Lysimachia nummularia
Creeping Jenny Goldi | 76407

Lysimachia nummularia | Creeping Jenny

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Green	76403	Part Sun-Shade		Spreading	2-4"	24"	4-9	✓	Late Spring	1 Qt/1 Gal
	Goldi	76407	Part Sun-Shade		Spreading	2-4"	24"	4-9	✓	Late Spring	1 Qt/1 Gal

Monarda | Pocahontas



Monarda didyma
Pocahontas Deep Purple | 78056
TRUE NORTH
PERENNIALS



Monarda didyma
Pocahontas Pink | 78059
TRUE NORTH
PERENNIALS



Monarda didyma
Pocahontas Red Rose | 78054
TRUE NORTH
PERENNIALS

Monarda didyma | Pocahontas

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Deep Purple	78056	Full Sun		Mounding	14-16"	16"	3-8		Summer	1 Gal/8"/10"
	Pink	78059	Full Sun		Mounding	14-16"	16"	3-8		Summer	1 Gal/8"/10"
	Red Rose	78054	Full Sun		Mounding	14-16"	16"	3-8		Summer	1 Gal/8"/10"

Monarda | Fireball



Monarda didyma
Fireball | 78067

Monarda didyma | Fireball

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Fireball	78067	Full Sun		Mounding	28-36"	24"	4-8		Summer	1 Gal/8"/10"

Nepeta | Serene



Nepeta faassenii
Serene Frost | 82507



Nepeta faassenii
Serene Lilac | 82517

A brand new collection of first year flowering compact growing Nepeta, the Serene series offers an upright growing compact purple and a unique mounding compact white. Nepeta are favored for their summer color performance, hardiness and drought tolerance in landscape plantings alongside favorites like Perovskia and Gaillardia.

Nepeta faassenii | Serene

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Frost	82507	Full Sun	Yes	Upright-Mounding	14-16"	16"	4-9	✓	Late Spring	1 Gal/8"/10"
NEW	Lilac	82517	Full Sun	Yes	Upright	14-16"	16"	4-9	✓	Late Spring	1 Gal/8"/10"

Nepeta | Tranquil



Nepeta subsessillis
Tranquil Purple | 82722

Nepeta Tranquil is a hardy must have for a perennial summer color program. This first-year flowering selection offers larger flowers and foliage than the Serene and is tolerant of heat and humidity as well as drought. In the second season of growth in the landscape it makes a real statement reaching up to three feet in height and covered in large purple blooms.

Nepeta subsessillis | Tranquil

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Purple	82722	Full Sun	Yes	Upright-Mounding	16-20"	24"	4-9	✓	Summer	1 Gal/8"/10"

Nepeta | Various



Nepeta faassenii
Walker's Low | 82505

Nepeta faassenii | Walker's Low

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Walker's Low	82505	Full Sun	Yes	Upright-Mounding	16-20"	18"	4-9	✓	Late Spring	1 Gal/8"/10"

Oenothera | Various



Oenothera speciosa
Siskiyou | 80320



Oenothera speciosa
Twilight | 80321

Oenothera speciosa | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Siskiyou	80320	Full Sun	Yes	Mounding-Spreading	8-10"	18"	5-9		Late Spring	1 Gal/8"/10"
	Twilight	80321	Full Sun	Yes	Mounding-Spreading	8-10"	18"	5-9		Late Spring	1 Gal/8"/10"

Pachysandra | Various



Pachysandra terminalis
Green Sheen | 88809



Pachysandra terminalis
Japanese Spurge | 88811



Pachysandra terminalis
Silver Edge | 88810

Pachysandra terminalis | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Green Sheen	88809	Shade	Yes	Spreading	6-8"	24"	3-9		Summer	1 Qt/1 Gal
	Japanese Spurge	88811	Shade	Yes	Spreading	6-8"	24"	3-9		Summer	1 Qt/1 Gal
	Silver Edge	88810	Shade	Yes	Spreading	6-8"	24"	3-9		Summer	1 Qt/1 Gal



Perovskia Jelena
88411



Dianthus Mad Magenta
17702

The *quality*
— you want —



Gaillardia SpinTop® Mango
62540

in the
quantity
— you need —



Iberis White Shadow
83713

PLANT YOUR FUTURE WITH DÜMMEN ORANGE.

From our *Guatemalan farm* to your fingertips, our *wide range of perennials* boasts *top-performing genetics* and *superior breeding* with the quality you have come to expect from *Dümmen Orange*.



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na.dummenorange.com

Photo courtesy of CSU Trial Gardens

Penstemon barbatus var. praecox
Pristine® Princess Pink

The Pristine® series offers a broad selection of bright, vividly colored flowers that contrast against dark green foliage on well-branched plants. The perfect vertical component in both containers and the landscape. They are drought tolerant once established. Penstemon Princess Pink was recognized as a top performer at the Colorado State University Trials in 2024 for its summer-long color show.



Penstemon barbatus var. praecox
Pristine® Blue | 81037



Penstemon barbatus var. praecox
Pristine® Deep Rose Imp | 82633



Penstemon barbatus var. praecox
Pristine® Lila Purple | 81039



Penstemon barbatus var. praecox
Pristine® Lipstick | 82623



Penstemon barbatus var. praecox
Pristine® Nightshade | 81042



Penstemon barbatus var. praecox
Pristine® Primrose | 82622



Penstemon barbatus var. praecox
Pristine® Princess Pink | 82617



Penstemon barbatus var. praecox
Pristine® Rose | 82642



Penstemon barbatus var. praecox
Pristine® Scarlet | 81041

Penstemon barbatus var. praecox | Pristine®

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Blue	81037	Full Sun	Yes	Upright	14-18"	16"	5-9	✓	Summer	1 Gal/8"/10"
IMP	Deep Rose Imp	82633	Full Sun	Yes	Upright	12-14"	16"	5-9	✓	Summer	1 Gal/8"/10"
	Lila Purple	81039	Full Sun	Yes	Upright	14-18"	16"	5-9	✓	Summer	1 Gal/8"/10"
	Lipstick	82623	Full Sun	Yes	Upright	14-18"	16"	5-9	✓	Summer	1 Gal/8"/10"
	Nightshade	81042	Full Sun	Yes	Upright	12-14"	16"	5-9	✓	Summer	1 Gal/8"/10"
	Primrose	82622	Full Sun	Yes	Upright	12-14"	16"	5-9	✓	Summer	1 Gal/8"/10"
	Princess Pink	82617	Full Sun	Yes	Upright	12-14"	16"	5-9	✓	Summer	1 Gal/8"/10"
NEW	Rose	82642	Full Sun	Yes	Upright	12-14"	16"	5-9	✓	Summer	1 Gal/8"/10"
	Scarlet	81041	Full Sun	Yes	Upright	14-18"	16"	5-9	✓	Summer	1 Gal/8"/10"



The PepTalk® series offers a beautiful assortment of colors. They are a stunning summer perennial featuring vibrant, long-lasting flowers on upright, well-matched plants that also make excellent centerpieces in mixed combinations. These tender perennials make excellent seasonal summer color in colder markets.



Penstemon hartwegii
PepTalk® Red | 82193



Penstemon hartwegii
PepTalk® Cerise | 80483



Penstemon hartwegii
PepTalk® Hot Pink | 80481



Penstemon hartwegii
PepTalk® Mauve | 82651



Penstemon hartwegii
PepTalk® Pretty Pink | 82194



Penstemon hartwegii
PepTalk® Purple | 80482

Penstemon hartwegii | PepTalk®

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Red	82193	Full Sun		Upright	14-18"	16"	7-9	✓	Summer	1 Gal/8"/10"
	Cerise	80483	Full Sun		Upright	14-18"	16"	7-9	✓	Summer	1 Gal/8"/10"
	Hot Pink	80481	Full Sun		Upright	14-18"	16"	7-9	✓	Summer	1 Gal/8"/10"
	Mauve	82651	Full Sun		Upright	14-18"	16"	7-9	✓	Summer	1 Gal/8"/10"
	Pretty Pink	82194	Full Sun		Upright	14-18"	16"	7-9	✓	Summer	1 Gal/8"/10"
	Purple	80482	Full Sun		Upright	14-18"	16"	7-9	✓	Summer	1 Gal/8"/10"

Penstemon | Super Star



NEW

Penstemon hartwegii
Super Star | 80888

Penstemon hartwegii | Super Star

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Super Star	80888	Full Sun		Upright	14-18"	16"	7-9	✓	Summer	1 Gal/8"/10"

Bold cherry red blooms with a white throat bloom nonstop from spring to frost. As old blooms faded they are replaced with fresh color, these tender perennials live up to their name especially when displayed in large containers.

Perovskia | Various

Photo courtesy of CSU Trial Gardens

Perovskia atriplicifolia
Jelena

**TOP
PICKS**

Russian sage is a favorite for drought-tolerant landscapes. It is a wonderful late summer perennial suitable for all regions, with gray-green foliage and attractive blue flower spikes. Jelena was recognized as a top performer at the Colorado State University Trials in 2024 for holding its upright form without splitting open at full size and long summer color show.



Perovskia atriplicifolia
Jelena | 88411
TRUE NORTH
PERENNIALS

**TOP
PICKS**



Perovskia atriplicifolia
Zasha | 88408



Perovskia atriplicifolia
Crazy Blue | 88400



Perovskia atriplicifolia
Lacey Blue | 88401



Perovskia atriplicifolia
Little Spire | 80199



Perovskia atriplicifolia
Russian Sage | 88402

Perovskia atriplicifolia | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
TOP	Jelena	88411	Full Sun	Yes	Upright	18-24"	24"	3-9	✓	Summer	1 Gal/8"/10"
	Zasha	88408	Full Sun	Yes	Upright	18-24"	24"	4-9	✓	Summer	1 Gal/8"/10"
	Crazy Blue	88400	Full Sun	Yes	Upright	18-24"	24"	4-9	✓	Summer	1 Gal/8"/10"
	Lacey Blue	88401	Full Sun	Yes	Upright	18-24"	24"	4-9	✓	Summer	1 Gal/8"/10"
	Little Spire	80199	Full Sun	Yes	Upright	20-28"	30"	5-9	✓	Summer	1 Gal/8"/10"
	Russian Sage	88402	Full Sun	Yes	Upright	24-36"	36"	5-9	✓	Summer	1 Gal/8"/10"

PHLOX

BY SEASON

The *only one-stop-shop* for a
full season of sales with the
most diverse portfolio of *phlox*
varieties worldwide.



EARLY SPRING



SPRING[®] SERIES

This is our earliest flowering groundcover phlox with a bloom window of 7 days between all colors to deliver a full palette of color to retail all at once.

LATE SPRING



EARLY[®] SERIES

This interspecific upright garden phlox kick-starts the summer selling season with the earliest flowering upright phlox and superior disease resistance.

SUMMER



FLAME[™] SERIES

The original compact paniculata phlox with superior mildew resistance. Big, bold inflorescences make a very showy display throughout summer gardens.

SPRING

WOODLANDER[™] SERIES

An interspecific groundcover phlox with more robust habits, larger flowers, stronger garden adaptability, and a long-extended flowering season for groundcover phlox.



EARLY SUMMER

FLAME PRO SERIES

This is a subset of the Flame[™] lineup with varieties that are all perfectly uniform in timing and size, providing growers with a predictable and programmable lineup.





Phlox subulata
Spring® Blue | 82140

TRUE NORTH
PERENNIALS



Phlox subulata
Spring® Coral Eye | 82354

TRUE NORTH
PERENNIALS

NEW

Our earliest flowering groundcover phlox with 12 colors to choose from that all bloom in a window of seven days for the best assortment. For growers and retailers looking to extend their phlox subulata color season try Spring® Late Pink and Spring® Late White, they bloom up to two weeks later extending into core spring sales timing.



Phlox subulata
Spring® Dark Leaf Pink | 77264

TRUE NORTH
PERENNIALS



Phlox subulata
Spring® Lavender | 80155

TRUE NORTH
PERENNIALS



Phlox subulata
Spring® Lilac Imp | 82353

TRUE NORTH
PERENNIALS

IMP



Phlox subulata
Spring® Pink | 82137

TRUE NORTH
PERENNIALS



Phlox subulata
Spring® Purple | 80157

TRUE NORTH
PERENNIALS



Phlox subulata
Spring® Rose Eye | 77263

TRUE NORTH
PERENNIALS

NEW



Phlox subulata
Spring® Scarlet | 80136
TRUE NORTH
PERENNIALS



Phlox subulata
Spring® Soft Pink | 82146
TRUE NORTH
PERENNIALS



Phlox subulata
Spring® White | 80158
TRUE NORTH
PERENNIALS



Phlox subulata
Spring® Hot Pink | 80425
TRUE NORTH
PERENNIALS



Phlox subulata
Spring® Late Pink | 82131
TRUE NORTH
PERENNIALS



Phlox subulata
Spring® Late White | 82134
TRUE NORTH
PERENNIALS

Phlox subulata | Spring®

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Blue	82140	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt/1 Gal
NEW	Coral Eye	82354	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt/1 Gal
	Dark Leaf Pink	77264	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Spring	1 Qt/1 Gal
	Hot Pink	80425	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt/1 Gal
	Lavender	80155	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt/1 Gal
IMP	Lilac Imp	82353	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt/1 Gal
	Pink	82137	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt/1 Gal
	Purple	80157	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt/1 Gal
NEW	Rose Eye	77263	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt/1 Gal
	Scarlet	82136	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt/1 Gal
	Soft Pink	82146	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt/1 Gal
	White	80158	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt/1 Gal
	Late Pink	82131	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Spring	1 Qt/1 Gal
	Late White	82134	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Spring	1 Qt/1 Gal



Try this interspecific groundcover phlox with its more robust habit, larger flowers, stronger garden adaptability, including performance in partial shade, and an extended flowering season for groundcover phlox.



Phlox hybrida
Woodlander™ Lilac | 77237
TRUE NORTH
PERENNIALS



Phlox hybrida
Woodlander™ Periwinkle | 81062
TRUE NORTH
PERENNIALS



Phlox hybrida
Woodlander™ Pink | 77239
TRUE NORTH
PERENNIALS



Phlox hybrida
Woodlander™ Purple | 77270
TRUE NORTH
PERENNIALS



Phlox hybrida
Woodlander™ Rose | 77238
TRUE NORTH
PERENNIALS

Phlox hybrida | Woodlander™

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Lilac	77237	Full Sun - Part Shade		Mounding-Spreading	6-9"	18"	3-9		Spring	1 Qt/1 Gal
	Periwinkle	81062	Full Sun - Part Shade		Mounding-Spreading	6-9"	18"	3-9		Spring	1 Qt/1 Gal
	Pink	77239	Full Sun - Part Shade		Mounding-Spreading	6-9"	18"	3-9		Spring	1 Qt/1 Gal
	Purple	77270	Full Sun - Part Shade		Mounding-Spreading	6-9"	18"	3-9		Spring	1 Qt/1 Gal
	Rose	77238	Full Sun - Part Shade		Mounding-Spreading	6-9"	18"	3-9		Spring	1 Qt/1 Gal



Phlox bifida
Fort Hill | 81944



Phlox subulata
Candy Stripe | 77224



Phlox subulata
Drummond Pink | 77226



Phlox subulata
Purple Beauty | 77231



Phlox subulata
Emerald Blue | 77227



Phlox divaricata
Blue Moon | 77280



Phlox divaricata
Chattahoochee | 81947



Phlox divaricata
May Breeze | 77281

Phlox | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Fort Hill	81944	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Spring	1 Qt./1 Gal
	Candy Stripe	77224	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt./1 Gal
	Drummond Pink	77226	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt./1 Gal
	Emerald Blue	77227	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt./1 Gal
	Purple Beauty	77231	Full Sun		Mounding-Spreading	4-8"	18"	3-8		Early Spring	1 Qt./1 Gal
	Blue Moon	77280	Full Sun - Part Shade		Mounding-Spreading	12-15"	12"	4-8		Spring	1 Qt./1 Gal
	Chattahoochee	81947	Full Sun - Part Shade		Mounding-Spreading	8-12"	12"	3-8		Spring	1 Qt./1 Gal
	May Breeze	77281	Full Sun - Part Shade		Mounding-Spreading	12-15"	12"	4-8		Spring	1 Qt./1 Gal



Phlox paniculata
Early® White

This interspecific upright garden phlox kick-starts the summer selling season with the earliest flowering, up to four weeks ahead of other paniculata types, in a wide selection of bold colors and superior disease resistance.



Phlox paniculata
Early® Blush Pop | 81160
TRUE NORTH
PERENNIALS



Phlox paniculata
Early® Cerise | 80442
TRUE NORTH
PERENNIALS



Phlox paniculata
Early® Lavender Pop | 81156
TRUE NORTH
PERENNIALS



Phlox paniculata
Early® Magenta | 81098
TRUE NORTH
PERENNIALS



Phlox paniculata
Early® Pink | 80920
TRUE NORTH
PERENNIALS



Phlox paniculata
Early® Red | 80378
TRUE NORTH
PERENNIALS



Phlox paniculata
Early® Purple Eye | 80164
TRUE NORTH
PERENNIALS



Phlox paniculata
Early® Pink Pinwheel | 82364
TRUE NORTH
PERENNIALS



Phlox paniculata
Early® White | 80422
TRUE NORTH
PERENNIALS

Phlox paniculata | Early®

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Blush Pop	81160	Full Sun		Upright	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"
	Cerise	80442	Full Sun		Upright	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"
	Lavender Pop	81156	Full Sun		Upright	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"
	Magenta	81098	Full Sun		Upright	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"
	Pink	80920	Full Sun		Upright	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"
NEW	Pink Pinwheel	82364	Full Sun		Upright	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"
	Purple Eye	80164	Full Sun		Upright	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"
	Red	80378	Full Sun		Upright	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"
	White	80422	Full Sun		Upright	12-14"	14"	3-9	✓	Late Spring	1 Gal/8"/10"



This is a subset of the Flame™ lineup with varieties that are all perfectly uniform in timing and size, providing growers with a predictable and programmable lineup.



Phlox paniculata
Flame Pro Baby Doll | 80438
TRUE NORTH
PERENNIALS



Phlox paniculata
Flame Pro Lilac | 80430
TRUE NORTH
PERENNIALS



Phlox paniculata
Flame Pro Cerise | 80434
TRUE NORTH
PERENNIALS



Phlox paniculata
Flame Pro Pink Pop | 81130

TRUE NORTH
PERENNIALS



Phlox paniculata
Flame Pro Purple | 80931

TRUE NORTH
PERENNIALS



Phlox paniculata
Flame Pro Rose Pink | 81162

TRUE NORTH
PERENNIALS



Phlox paniculata
Flame Pro Violet Charme | 80437

TRUE NORTH
PERENNIALS



Phlox paniculata
Flame Pro White Imp | 82369

TRUE NORTH
PERENNIALS

Phlox paniculata | Flame Pro

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Cerise	80434	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Lilac	80430	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Pink Pop	81130	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Purple	80931	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Rose Pink	81162	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Baby Doll	80438	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Violet Charme	80437	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
IMP	White Imp	82369	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"



Phlox paniculata
Flame™ Lilac Star

The original paniculata phlox with mildew resistance. Big, bold blooms in unique bicolor combinations make a vivid display throughout long hot summer days.



Phlox paniculata
Flame™ Blue Ice | 81161

TRUE NORTH
PERENNIALS



Phlox paniculata
Flame™ Coral | 84034

TRUE NORTH
PERENNIALS



Phlox paniculata
Flame™ Bordeaux Red | 77297

TRUE NORTH
PERENNIALS



Phlox paniculata
Flame™ Light Blue | 80171

TRUE NORTH
PERENNIALS



Phlox paniculata
Flame™ Lilac Star | 81135
TRUE NORTH
PERENNIALS



Phlox paniculata
Flame™ Pink Imp | 77296
TRUE NORTH
PERENNIALS



Phlox paniculata
Flame™ Purple | 80439
TRUE NORTH
PERENNIALS



Phlox paniculata
Flame™ Purple Eye | 80177
TRUE NORTH
PERENNIALS



Phlox paniculata
Flame™ Red | 80440
TRUE NORTH
PERENNIALS



Phlox paniculata
Flame™ Watermelon | 81131
TRUE NORTH
PERENNIALS

Phlox paniculata | Flame™

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Blue Ice	81161	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
NEW	Bordeaux Red	77297	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Coral	84034	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Light Blue	80171	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Lilac Star	81135	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
IMP	Pink Imp	77296	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Purple	80439	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Purple Eye	80177	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Red	80440	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"
	Watermelon	81131	Full Sun		Upright	14-18"	18"	3-9	✓	Summer	1 Gal/8"/10"



SALVIA

BY SEASON

Your *single-source* for
season-long salvia sales

VERY EARLY SPRING

NOBLE KNIGHT

87138

Put your 'May Night' production aside, a *new and better salvia* is taking its place. Noble Knight's large purple-to-blue flowers may catch your eye, but the plant's *flower power* is what will keep this salvia in your rotation. Another very early-flowering variety for the landscape, Noble Knight's *great branching extends its flowering window*.



SPRING KING

Look to Spring King to be one of the *earliest flowering salvias* in your lineup. Its variable flower forms and habits make it a plant that *performs well at retail in every market and for any use*. Spring King's upright habit will easily fill 1-gal. to 3-gal. containers. *Grower tip: Use the Spring King Minis for smaller 1-qt. to 1-gal. production.*

Also available but not pictured:

- Spring King Mini | 87047
- Spring King Mini Rose | 87114



Spring King | 80709

SALUTE®

The early-flowering salvia series offers both ***bold and pastel colors***, so there's a Salute® for everyone. And as a bee magnet, it also meets the strong demand for ***pollinator-friendly perennials***. With well-branching plants and ***excellent container performance***, it's something growers can get behind, too. ***Grower tip: Salute® Ice Blue is a unique color in the salvia market!***

Also available but not pictured:

- Blue | 80700
- Light Pink | 80796
- Neon Pink | 87134
- White | 80355



Ice Blue | 80376

CARAMIA

This ***first year flowering salvia*** boasts a compact, well-branching and upright habit providing bursts of color in a landscape setting. In its ***second year in the garden***, ***Caramia comes back with a wall of color*** and even more flower power. Caramia will be in ***high demand with your landscaper customers*** due to its garden performance.

Also available but not pictured:

- Caramia | 80708



Caramia Rosa | 87115

MIDNIGHT

Midnight is the salvia series for ***late-spring flowering*** and reflowering throughout the season. The two varieties—Rose and Purple—have bold blooms highlighted against attractive dark and upright stems. These ***two colors are well-matched***, thanks to common parental lines. Their ***excellent cold tolerance*** make them a preferred grower crop.

Also available but not pictured:

- Purple | 81143



Rose | 81144

NOCHE

87113

Late-flowering Noche will be your go-to for ***season-extending salvias***. This variety has excellent branching from ***just one pinch***, creating a plant covered in medium-blue blooms from spring onward. Its tall, dark spikes are covered with self-cleaning flowers, which leave ***attractive purple calyxes that even the consumers will admire***.





Caramia is a well-branched, first-year flowering Salvia with a compact, upright habit and dark stems. Beautiful in the landscape for a burst of purple or for something a little different try Caramia Rosa.

Salvia nemorosa
Caramia



Salvia nemorosa
Caramia | 80708
TRUE NORTH
PERENNIALS



Salvia nemorosa
Caramia Rosa | 87115
TRUE NORTH
PERENNIALS

Salvia nemorosa | Caramia

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Caramia	80708	Full Sun		Upright	14-18"	18"	3-9	✓	Spring	1 Gal/8"/10"
	Caramia Rosa	87115	Full Sun		Upright	12-14"	14"	3-9	✓	Spring	1 Gal/8"/10"



Bright white flowers arrive in late spring on this robust selection that is perfect for landscape planting. The well-branched habit offers excellent flower power into the summer months.

Salvia nemorosa | Clarity

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Clarity	87158	Full Sun		Mounding	12-24"	18"	4-9	✓	Late Spring	1 Gal/8"/10"

Salvia | Midnight



Salvia nemorosa
Midnight Purple | 81143

TRUE NORTH
PERENNIALS



Salvia nemorosa
Midnight Rose | 81144

TRUE NORTH
PERENNIALS

A stunning well-matched series with attractive dark stems on an upright habit. Blooms in late spring, with superior re-flowering throughout the season in every region.

Salvia nemorosa | Midnight

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Purple	81143	Full Sun		Upright	9-15"	12"	3-9	✓	Spring	1 Gal/8"/10"
	Rose	81144	Full Sun		Upright	9-15"	12"	3-9	✓	Spring	1 Gal/8"/10"

Salvia | Noble



Salvia nemorosa
Noble Knight | 87138

TRUE NORTH
PERENNIALS



Salvia nemorosa
Noble Princess | 87169

TRUE NORTH
PERENNIALS

Noble Knight has large purple-to-blue flowers that are well matched by the large deep magenta flowers of Noble Princess. Their compact habits and great branching make them ideal and easy first-year flowering varieties.

Salvia nemorosa | Noble

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
TOP	Knight	87138	Full Sun		Upright	10-12"	12"	3-9	✓	Spring	1 Gal/8"/10"
NEW	Princess	87169	Full Sun		Upright	10-12"	12"	3-9	✓	Late Spring	1 Gal/8"/10"

Salvia | Noche



Salvia nemorosa
Noche | 87113

TRUE NORTH
PERENNIALS

Expect this first-year flowering variety to have excellent branching and to be covered in medium-blue blooms from spring onwards with just one pinch. As a self-cleaner, it continues to look stunning through the summer as blooms fade.

Salvia nemorosa | Noche

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Noche	87113	Full Sun		Upright	12-14"	14"	3-9	✓	Spring	1 Gal/8"/10"



Salvia nemorosa
Salute® White

An early-flowering series in bright, bold and pastel colors on well-branched plants with excellent container and landscape performance. The softer colors in this series offer a unique color palette to container and landscape plantings.



Salvia nemorosa
Salute® Blue | 87070
TRUE NORTH
PERENNIALS



Salvia nemorosa
Salute® Ice Blue | 80376
TRUE NORTH
PERENNIALS



Salvia nemorosa
Salute® Light Pink | 80796
TRUE NORTH
PERENNIALS



Salvia nemorosa
Salute® Neon Pink | 87134
TRUE NORTH
PERENNIALS



Salvia nemorosa
Salute® White | 80355
TRUE NORTH
PERENNIALS

Salvia nemorosa | Salute®

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Blue	87070	Full Sun		Upright-Mounding	12-14"	14"	3-9	✓	Spring	1 Gal/8"/10"
	Ice Blue	80376	Full Sun		Upright-Mounding	12-16"	14"	3-9	✓	Spring	1 Gal/8"/10"
	Light Pink	80796	Full Sun		Upright-Mounding	12-16"	14"	3-9	✓	Spring	1 Gal/8"/10"
	Neon Pink	87134	Full Sun		Upright-Mounding	12-14"	14"	3-9	✓	Spring	1 Gal/8"/10"
	White	80355	Full Sun		Upright-Mounding	12-16"	14"	3-9	✓	Spring	1 Gal/8"/10"



Salvia nemorosa
Spring King

The first to flower, the Salvia Spring King collection offers both vigorous and compact growing varieties. Spring King is ideal for large containers and landscape plantings, while Spring King Mini's make great additions to early spring quart programs.



Salvia nemorosa
Spring King | 80709
TRUE NORTH
PERENNIALS



Salvia nemorosa
Spring King Mini | 87047
TRUE NORTH
PERENNIALS



Salvia nemorosa
Spring King Mini Rose | 87114
TRUE NORTH
PERENNIALS

Salvia nemorosa | Spring King

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Spring King	80709	Full Sun		Upright	18-24"	18"	3-9	✓	Spring	1 Gal/8"/10"
	Spring King Mini	87047	Full Sun		Upright-Mounding	12-16"	14"	3-9	✓	Spring	1 Qt/1 Gal
	Spring King Mini Rose	87114	Full Sun		Upright-Mounding	8-10"	10"	3-9	✓	Spring	1 Qt/1 Gal



Salvia nemorosa
Blue Marvel | 81710



Salvia nemorosa
Blue Hills | 87015



Salvia nemorosa
Caradonna | 87017



Salvia nemorosa
East Friesland | 80222



Salvia nemorosa
Marcus | 87018



Salvia sylvestris
May Night | 81965



Salvia nemorosa
Hot Lips | 87056

Salvia nemorosa | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Blue Marvel	81710	Full Sun		Upright	14-16"	16"	4-9	✓	Late Spring	1 Gal/8"/10"
	Blue Hills	87015	Full Sun		Upright-Mounding	14-16"	14"	5-9	✓	Late Spring	1 Gal/8"/10"
	Caradonna	87017	Full Sun		Upright	18-24"	18"	5-9	✓	Late Spring	1 Gal/8"/10"
	East Friesland	80222	Full Sun		Upright	14-16"	14"	4-9	✓	Late Spring	1 Gal/8"/10"
	Marcus	87018	Full Sun		Upright-Mounding	4-6"	10"	5-9	✓	Late Spring	1 Qt/1 Gal
	May Night	81965	Full Sun		Upright-Mounding	12-14"	12"	5-9	✓	Late Spring	1 Gal/8"/10"
	Hot Lips	87056	Full Sun	Yes	Upright	18-24"	18"	8-10	✓	Spring-Fall	1 Qt/1 Gal



Saxifraga arendsii
Scenic Red and Scenic White



NEW

Saxifraga arendsii
Scenic Appleblossom | 82217

TRUE NORTH
PERENNIALS



NEW

Saxifraga arendsii
Scenic Pink | 82234

TRUE NORTH
PERENNIALS



Saxifraga arendsii
Scenic Red | 82122

TRUE NORTH
PERENNIALS



IMP

Saxifraga arendsii
Scenic White Imp | 82233

TRUE NORTH
PERENNIALS

Abundant, large flowers in shades of red, pink and white on compact alpine plants that maintain their habit and continuously bloom throughout the early spring. In the landscape these are excellent partial shade to shade groundcovers with their bright moss-like foliage.

Saxifraga arendsii | Scenic

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Appleblossom	82217	Full Sun		Mounding-Spreading	4-8"	12"	3-7		Early Spring	1 Qt/1 Gal/8"
NEW	Pink	82234	Full Sun		Mounding-Spreading	4-8"	12"	3-7		Early Spring	1 Qt/1 Gal/8"
	Red	82122	Full Sun		Mounding-Spreading	4-8"	12"	3-7		Early Spring	1 Qt/1 Gal/8"
IMP	White Imp	82233	Full Sun		Mounding-Spreading	4-8"	12"	3-7		Early Spring	1 Qt/1 Gal/8"

Scabiosa | Flutter



Scabiosa columbaria
Flutter Deep Blue | 83003



Scabiosa columbaria
Flutter Rose Pink | 83004

Scabiosa is a great spring-summer flowering perennial that flawlessly achieves a cottage garden look. Large flowers attract bees and hummingbirds.

Scabiosa columbaria | Flutter

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Deep Blue	83003	Full Sun		Mounding	8-12"	12"	5-9	✓	Spring	1 Qt/1 Gal/8"
	Rose Pink	83004	Full Sun		Mounding	8-12"	12"	5-9	✓	Spring	1 Qt/1 Gal/8"

Scabiosa | Butterfly Blue



Scabiosa columbaria
Butterfly Blue | 80223

Scabiosa columbaria | Butterfly Blue

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Butterfly Blue	80223	Full Sun		Mounding	8-12"	12"	5-9	✓	Spring	1 Qt/1 Gal/8"



An all new series of upright growing sedum, Cloudburst are well branched and sturdy with exceptional mildew tolerance. These make a fantastic addition to a late summer or fall program when they are in bloom, but can be offered earlier in the summer season as a mound of large leaved succulent foliage.

Sedum telephium
Cloudburst Green Flash



Sedum telephium
Cloudburst Burgundy | 79175



Sedum telephium
Cloudburst Green Flash | 79129

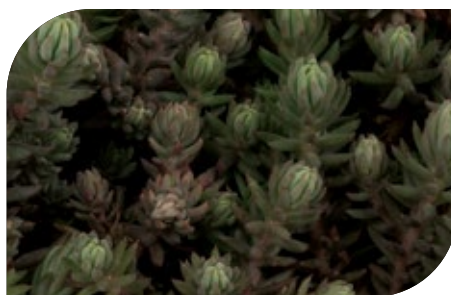
Sedum telephium | Cloudburst

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Burgundy	79175	Full Sun	Yes	Upright	12-14"	14"	4-9	✓	Fall	1 Qt/1 Gal/8"
NEW	Green Flash	79129	Full Sun	Yes	Upright	12-14"	14"	4-9	✓	Fall	1 Qt/1 Gal/8"

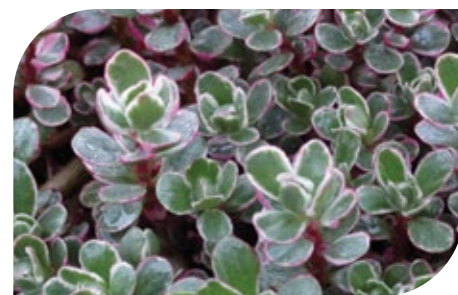
Sedum Groundcover | Various



Sedum hakonense
Chocolate Ball | 81980



Sedum reflexum
Blue Spruce | 81992



Sedum spurium
Tricolor | 82011



Sedum ewersii
81978



Sedum kamtschaticum
Variegatum | 81982

Sedum Groundcover | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Chocolate Ball	81980	Full Sun	Yes	Mounding-Spreading	4-6"	18"	4-9	✓	Summer	1 Qt/1 Gal
	Blue Spruce	81992	Full Sun	Yes	Mounding-Spreading	4-6"	18"	4-9	✓	Summer	1 Qt/1 Gal
	Tricolor	82011	Full Sun	Yes	Mounding-Spreading	4-6"	18"	4-9	✓	Summer	1 Qt/1 Gal
	ewersii	81978	Full Sun	Yes	Mounding-Spreading	4-6"	18"	4-9	✓	Summer	1 Qt/1 Gal
	Variegatum	81982	Full Sun	Yes	Mounding-Spreading	4-6"	18"	4-9	✓	Summer	1 Qt/1 Gal

Sedum Upright | Various



Sedum hybrida
Banana Split | 87254



Sedum telephium
Autumn Fire | 82012



Sedum telephium
Autumn Joy | 82013

Sedum Upright | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Banana Split	87254	Full Sun	Yes	Upright	12-14"	14"	4-8	✓	Fall	1 Gal/8"/10"
	Autumn Fire	82012	Full Sun	Yes	Upright	14-18"	18"	4-9	✓	Fall	1 Gal/8"/10"
	Autumn Joy	82013	Full Sun	Yes	Upright	14-18"	18"	4-9	✓	Fall	1 Gal/8"/10"



Introduced by Chris Hansen, SunSparkler®'s are a perfect low-growing sedum collection. Uniquely patterned foliage in spring and summer plays host to vivid flowers in late summer with an array of fun flower shapes.



Sedum cauticola
SunSparkler® Blue Elf | 81970



Sedum cauticola
SunSparkler® Cherry Tart | 81971



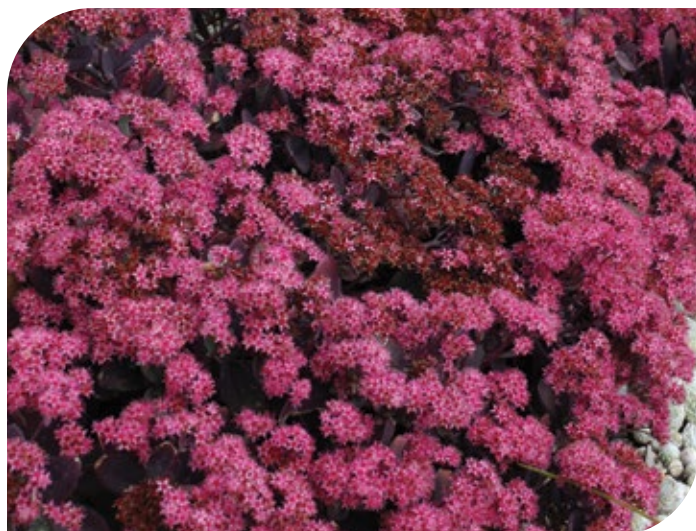
Sedum cauticola
SunSparkler® Firecracker | 81973



Sedum cauticola
SunSparkler® Lime Twister | 81984



Sedum cauticola
SunSparkler® Lime Zinger | 81974



Sedum cauticola
SunSparkler® Plum Dazzled | 87253



Sedum cauticola
SunSparkler® Wildfire | 87252

Sedum cauticola | SunSparkler®

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Blue Elf	81970	Full Sun	Yes	Mounding	4-10"	12"	4-9	✓	Fall	1 Qt/1 Gal
	Cherry Tart	81971	Full Sun	Yes	Mounding	4-10"	12"	4-9	✓	Fall	1 Qt/1 Gal
	Firecracker	81973	Full Sun	Yes	Mounding	4-10"	12"	4-9	✓	Fall	1 Qt/1 Gal
	Lime Twister	81984	Full Sun	Yes	Mounding	4-10"	12"	4-9	✓	Fall	1 Qt/1 Gal
	Lime Zinger	81974	Full Sun	Yes	Mounding	4-10"	12"	4-9	✓	Fall	1 Qt/1 Gal
	Plum Dazzled	87253	Full Sun	Yes	Mounding	4-10"	12"	4-9	✓	Fall	1 Qt/1 Gal
	Wildfire	87252	Full Sun	Yes	Mounding	4-10"	12"	4-9	✓	Fall	1 Qt/1 Gal

Sempervivum | Various



Sempervivum tectortum
Kalinda | 83102



Sempervivum tectortum
Red Beauty | 83103



Sempervivum tectortum
Sunset | 83107

Sempervivum tectortum | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Kalinda	83102	Full Sun	Yes	Mounding	4-6"	12"	4-9		Summer	1 Qt/1 Gal
	Red Beauty	83103	Full Sun	Yes	Mounding	4-6"	12"	4-9		Summer	1 Qt/1 Gal
	Sunset	83107	Full Sun	Yes	Mounding	4-6"	12"	4-9		Summer	1 Qt/1 Gal

Stachys & Verbena | Various



Stachys byzantina
Silver Carpet | 87300



Verbena canadensis
Homestead Purple | 82032

Stachys & Verbena | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Silver Carpet	87300	Full Sun	Yes	Mounding	6-12"	12"	4-9		Summer	1 Qt/1 Gal
	Homestead Purple	82032	Full Sun		Spreading	4-8"	18"	7-10	✓	Spring	1 Qt/1 Gal/8"



Veronica longifolia
Candela Hot Pink

Candela are a first-year flowering series with all four varieties matched for timing and super-sized flowers. For the retailer, the available colors are definitely attention getters.



Veronica longifolia
Candela Blue | 88106



Veronica longifolia
Candela Hot Pink | 88156



Veronica longifolia
Candela Pink | 88104



Veronica longifolia
Candela Purple | 88157

Veronica longifolia | Candela

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Blue	88106	Full Sun		Upright	12-14"	14"	5-9	✓	Early Summer	1 Gal/8"/10"
	Hot Pink	88156	Full Sun		Upright	12-14"	14"	5-9	✓	Early Summer	1 Gal/8"/10"
	Pink	88104	Full Sun		Upright	12-14"	14"	5-9	✓	Early Summer	1 Gal/8"/10"
	Purple	88157	Full Sun		Upright	12-14"	14"	5-9	✓	Early Summer	1 Gal/8"/10"



Veronica longifolia
Pink Candles | 88067



Veronica spicata
Royal Candles | 82048



Veronica spicata
Snow Candles | 82049



Veronica spicata
Giles Van Hees | 82046

Veronica | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Pink Candles	88067	Full Sun	Upright	12-14"	14"	4-8	5-9	✓	Summer	1 Gal/8"/10"
	Royal Candles	82048	Full Sun	Upright	12-14"	14"	4-8	5-9		Summer	1 Gal/8"/10"
	Snow Candles	82049	Full Sun	Upright	12-14"	14"	4-8	5-9		Summer	1 Gal/8"/10"
	Giles Van Hees	82046	Full Sun - Part Shade	Upright	12-14"	16"	4-8	5-9		Summer	1 Gal/8"/10"



Vinca minor
Atropurpurea | 88201



Vinca minor
Bowles Cunningham | 88202



Vinca minor
Gertrude Jekyll | 88208



Vinca minor
Illumination | 88203



Vinca minor
Ralph Shugart | 88205

Vinca minor | Various

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
	Atropurpurea	88201	Part Sun-Shade	Yes	Spreading	4-6"	36"	4-9		Spring	1 Qt/1 Gal
	Bowles Cunningham	88202	Part Sun-Shade	Yes	Spreading	4-6"	36"	4-9		Spring	1 Qt/1 Gal
	Gertrude Jekyll	88208	Part Sun-Shade	Yes	Spreading	4-6"	36"	4-9		Spring	1 Qt/1 Gal
	Illumination	88203	Part Sun-Shade	Yes	Spreading	4-6"	36"	4-9		Spring	1 Qt/1 Gal
	Ralph Shugart	88205	Part Sun-Shade	Yes	Spreading	4-6"	36"	4-9		Spring	1 Qt/1 Gal



An all new series of true perennial Violas that can claim heat and humidity tolerance. These beauties begin to bloom in the cool days of spring with a bold color show into mid-summer. A diverse series with many colors to mix and match with.

Viola cornuta
Spring Morning Sunny Purple



Viola cornuta
Spring Morning Bumblebee | 88338



Viola cornuta
Spring Morning Glow | 88347



Viola cornuta
Spring Morning Pearl Lilac | 88358



Viola cornuta
Spring Morning Royal Purple | 88369



Viola cornuta
Spring Morning Sunny Lilac | 88356



Viola cornuta
Spring Morning Sunny Purple | 88365

Viola cornuta | Spring Morning

Status	Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
NEW	Bumblebee	88338	Full Sun - Part Shade		Mounding-Spreading	6-8"	18"	5-8	✓	Early Spring	1 Qt/1 Gal
NEW	Glow	88347	Full Sun - Part Shade		Mounding-Spreading	6-8"	18"	5-8	✓	Early Spring	1 Qt/1 Gal
NEW	Pearl Lilac	88358	Full Sun - Part Shade		Mounding-Spreading	6-8"	18"	5-8	✓	Early Spring	1 Qt/1 Gal
NEW	Royal Purple	88369	Full Sun - Part Shade		Mounding-Spreading	6-8"	18"	5-8	✓	Early Spring	1 Qt/1 Gal
NEW	Sunny Lilac	88356	Full Sun - Part Shade		Mounding-Spreading	6-8"	18"	5-8	✓	Early Spring	1 Qt/1 Gal
NEW	Sunny Purple	88365	Full Sun - Part Shade		Mounding-Spreading	6-8"	18"	5-8	✓	Early Spring	1 Qt/1 Gal
NEW	Violet	88339	Full Sun - Part Shade		Mounding-Spreading	6-8"	18"	5-8	✓	Early Spring	1 Qt/1 Gal



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Aloysia triphylla
Lemon Verbena | 81200



Artemisia dracunculus
French Tarragon | 78106



Mentha suaveolens
Apple Mint | 78312



Mentha x piperita
Chocolate Mint | 81919



Mentha spicata
Kentucky Colonel | 81917



Mentha x piperita
Orange Mint | 81920



Mentha x piperita
Peppermint | 81921



Mentha spicata
Spearment | 81918



Ocimum x citriodorum
Pesto Perpetuo | 81922



Mentha suaveolens
Variegata Pineapple Mint | 78313



Origanum vulgare
Greek | 78460



Origanum marjorana
Sweet Marjoram | 81923



Origanum rotundifolium
Kent Beauty | 81924



Salvia officinalis
Celebration | 82099



Origanum vulgare
Hot & Spicy | 78461



Origanum vulgare
Italian | 78462



Rosmarinus officinalis
Gorizia | 86001



Rosmarinus officinalis
Prostratus | 86004



Rosmarinus officinalis
Tuscan Blue | 86006



Salvia elegans
Pineapple Sage | 81955



Salvia officinalis
Berggarten | 81960



Salvia officinalis
Purpurescens | 81963



Salvia officinalis
Tricolor | 81964



Stevia rebaudiana
83200



Thymus citriodorus
Gold Lemon | 88007



Thymus citriodorus
Hi-Ho Silver | 88006



Thymus citriodorus
Lemon | 88008



Thymus citriodorus
Silver King | 88013



Thymus praecox
Elfin | 82026



Thymus praecox
Red Creeping | 82027



Thymus pseudolainosus
Woolly | 82028



Thymus serpyllum
Pink Chintz | 82029



Thymus vulgaris
English | 82030

Herbs | Various

Variety	Code	Exposure	Drought Tolerance	Habit	Garden Height	Garden Spread	USDA Zone(s)	First Year Flowering	Natural Flowering Season	Recommended Pot Size
Aloysia triphylla Lemon Verbena	81200	Full Sun	Yes	Upright	12-14"	24"	8-10			1 Qt/1 Gal
Artemisia dracunculus French Tarragon	78106	Full Sun	Yes	Upright	18-24"	24"	6-10			1Gal/8"/10"
Mentha suaveolens Apple Mint	78312	Full Sun		Mounding	12-24"	24"	4-9			1 Qt/1 Gal
Mentha x piperita Chocolate Mint	81919	Full Sun		Mounding	12-24"	24"	4-9			1 Qt/1 Gal
Mentha spicata Kentucky Colonel	81917	Full Sun		Mounding	12-24"	24"	4-9			1 Qt/1 Gal
Mentha x piperita Orange Mint	81920	Full Sun		Mounding	12-24"	24"	3-9			1 Qt/1 Gal
Mentha x piperita Peppermint	81921	Full Sun		Mounding	12-24"	24"	3-9			1 Qt/1 Gal
Mentha spicata Spearmint	81918	Full Sun		Mounding	12-24"	24"	3-9			1 Qt/1 Gal
Mentha suaveolens Variegata Pineapple Mint	78313	Full Sun		Mounding	12-24"	24"	6-9			1 Qt/1 Gal
Ocimum x citriodorum Pesto Perpetuo	81922	Full Sun		Upright	14-18"	18"	9a-11			1 Qt/1 Gal
Origanum vulgare Greek	78460	Full Sun	Yes	Mounding-Spreading	4-8"	12"	4-9			1 Qt/1 Gal
Origanum marjorana Sweet Marjoram	81923	Full Sun	Yes	Mounding-Spreading	4-8"	12"	9-10			1 Qt/1 Gal
Origanum rotundifolium Kent Beauty	81924	Full Sun	Yes	Mounding-Spreading	4-8"	12"	4-9	✓	Late Spring	1 Qt/1 Gal
Origanum vulgare Hot & Spicy	78461	Full Sun	Yes	Mounding-Spreading	4-8"	12"	4-9			1 Qt/1 Gal
Origanum vulgare Italian	78462	Full Sun	Yes	Mounding-Spreading	4-8"	12"	4-9			1 Qt/1 Gal
Rosmarinus officinalis Gorizia	86001	Full Sun	Yes	Upright	24-36"	24"	7-10		Summer	1 Qt/1 Gal/8"
Rosmarinus officinalis Prostratus	86004	Full Sun	Yes	Mounding-Spreading	12-24"	24"	7-10		Summer	1 Qt/1 Gal/8"
Rosmarinus officinalis Tuscan Blue	86006	Full Sun	Yes	Upright	48-60"	48"	7-10		Summer	1 Qt/1 Gal/8"
Salvia officinalis Celebration	82099	Full Sun	Yes	Mounding	12-24"	18"	4-9			1 Qt/1 Gal
Salvia elegans Pineapple Sage	81955	Full Sun		Upright	14-16"	16"	8-10	✓	Summer	1 Qt/1 Gal
Salvia officinalis Berggarten	81960	Full Sun	Yes	Upright	8-12"	12"	5-9			1 Qt/1 Gal
Salvia officinalis Purpurescens	81963	Full Sun	Yes	Upright	8-12"	12"	5-9	✓		1 Qt/1 Gal
Salvia officinalis Tricolor	81964	Full Sun	Yes	Upright	8-12"	12"	5-9			1 Qt/1 Gal
Stevia rebaudiana	83200	Full Sun	Yes	Upright	36"	36"	10-11			1 Qt/1 Gal
Thymus citriodorus Gold Lemon	88007	Full Sun	Yes	Upright-Mounding	6-8"	12"	5-9		Summer	1 Qt/1 Gal
Thymus citriodorus Hi-Ho Silver	88006	Full Sun	Yes	Upright-Mounding	6-8"	12"	5-9		Summer	1 Qt/1 Gal
Thymus citriodorus Lemon	88008	Full Sun	Yes	Upright-Mounding	6-8"	12"	5-9		Summer	1 Qt/1 Gal
Thymus citriodorus Silver King	88013	Full Sun	Yes	Upright-Mounding	6-8"	12"	5-9		Summer	1 Qt/1 Gal
Thymus praecox Elfin	82026	Full Sun	Yes	Spreading	2-4"	12"	5-9		Summer	1 Qt/1 Gal
Thymus praecox Red Creeping	82027	Full Sun	Yes	Mounding-Spreading	4-6"	18"	4-9		Summer	1 Qt/1 Gal
Thymus pseudolainosus Woolly	82028	Full Sun	Yes	Mounding-Spreading	4-6"	18"	4-9		Summer	1 Qt/1 Gal
Thymus serpyllum Pink Chintz	82029	Full Sun	Yes	Mounding-Spreading	4-6"	18"	4-9		Summer	1 Qt/1 Gal
Thymus vulgaris English	82030	Full Sun	Yes	Upright-Mounding	6-8"	12"	4-9		Summer	1 Qt/1 Gal



Botanical Name	Cultivar	Tray Size	Timing (weeks)	Rooting Hormone	Average Mist Days	Fertilizer ppm N*	pH Range	EC Range (via SME)	Pinch**	PGR	Comments
Achillea millefolium	Skysail	72, 105	4-6	Yes	5-7	100-150	5.8-6.2	1.0-1.25 mS	Yes	Optional: Florel @ 300-500 ppm	Mist only to keep cuttings turgid. Avoid overwatering
Achillea millefolium	Sea Breeze™	72, 105	4-6	Yes	5-7	100-150	5.8-6.2	1.0-1.25 mS	Yes	Optional: Florel @ 300-500 ppm	Mist only to keep cuttings turgid. Avoid overwatering
Achillea clypeolata	Moonshine	72, 105	4-6	Yes	5-7	100-150	5.8-6.2	1.0-1.25 mS	No	Optional: Florel @ 300-500 ppm	Mist only to keep cuttings turgid. Avoid overwatering
Achillea millefolium	Terracotta	72, 105	4-6	Yes	5-7	100-150	5.8-6.2	1.0-1.25 mS	Yes	Optional: Florel @ 300-500 ppm	Mist only to keep cuttings turgid. Avoid overwatering
Agastache aurantiaca	Betterbuzz	72, 105	4-5	Yes	5-7	50-75	5.8-6.2	1.0-1.25 mS	Yes	None	Mist only to keep cuttings turgid. Avoid overwatering
Agastache foeniculum	FlutterFriendly	72, 105	4-5	IBA helps w/ rooting	5-7	50-75	5.8-6.2	1.0-1.25 mS	Yes	None	Mist only to keep cuttings turgid. Avoid overwatering
Agastache hybrida	Honeysticks	72, 105	4-5	IBA helps w/ rooting	5-7	50-75	5.8-6.2	1.0-1.25 mS	Yes	None	Mist only to keep cuttings turgid. Avoid overwatering
Agastache x hybrid	Beelicious Purple	72, 105	4-5	Yes	5-7	50-75	6.0-6.4	0.8-2.0 mS	Yes	None	Mist only to keep cuttings turgid. Avoid overwatering
Agastache rugosa	Black Adder	72, 105	4-5	IBA helps w/ rooting	5-7	50-75	6.0-6.4	0.8-2.0 mS	Yes	None	Mist only to keep cuttings turgid. Avoid overwatering
Agastache foeniculum	Blue Fortune	72, 105	4-5	IBA helps w/ rooting	5-7	50-75	6.0-6.4	0.8-2.0 mS	Yes	None	Mist only to keep cuttings turgid. Avoid overwatering
Ajuga reptans	Princess	72, 105	4-5	No	5-7	50-75	6.0-6.5	0.8-2.0 mS	Yes	Florel @ 300-500 ppm. Sumagic @ 3-5 ppm	Do not to bury growing tips
Ajuga reptans	Various	72, 105	4-5	No	5-7	50-75	6.0-6.5	0.8-2.0 mS	Yes	Florel @ 300-500 ppm. Sumagic @ 3-5 ppm	Do not to bury growing tips
Ajuga tenorii	Chocolate Chip	72, 105	4-5	No	5-7	50-75	6.0-6.5	0.8-2.0 mS	Yes	Florel @ 300-500 ppm. Sumagic @ 3-5 ppm	Do not to bury growing tips
Aloysia triphylla	Lemon Verbena	105	4-5	No	5-7	50-75	5.8-6.1	0.8-2.0 mS	Yes	None	Treat as an edible herb. Use ONLY products labeled for edible crops
Artemisia dracunculus	French Tarragon	105	4-5	No	5-7	50-75	5.8-6.1	0.8-2.0 mS	Yes	None	Apply a preventative fungicide spray after sticking. Low mist reduces disease pressure.
Artemisia schmidtiana	Silver Mound	72, 105	4-5	Yes	5-7	50-75	5.8-6.1	0.8-2.0 mS	Yes	Optional: Florel @ 300-500 ppm. Optional 1500 ppm B-Nine	Apply a preventative fungicide spray after sticking. Low mist reduces disease pressure.
Artemisia stelleriana	Silver Brocade	72, 105	4-5	Yes	5-7	50-75	5.8-6.1	0.8-2.0 mS	Yes	Optional: Florel @ 300-500 ppm. Optional 1500 ppm B-Nine	Apply a preventative fungicide spray after sticking. Low mist reduces disease pressure.
Aster dumosus	Aurora	72, 105	4-5	Yes	5-7	100-150	5.8-6.2	0.9-1.3 mS	Yes	Optional: Florel @ 300-500 ppm	Benefits with supplemental lighting. Keep media moderately moist with mild dry cycles
Aubrieta gracilis	Rock On	72, 105	6-8	Yes	5-7	50-75	5.6-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	High EC levels will burn tips. Apply preventative fungicide to reduce disease pressure
Buddleja davidii	Little Rockstars	72, 105	5-6	Yes	5-7	50-75	5.6-6.2	0.8-2.0 mS	Yes	None	Reduce mist as soon as cuttings become turgid (generally 1-2 days after stick). Avoid overwatering.

* (20-6-22 or 22-5-16 [15-0-15 under low-light conditions]) ** If producing in smaller tray than recommended sizes, a pinch is suggested

Culture | Propagation

Botanical Name	Cultivar	Tray Size	Timing (weeks)	Rooting Hormone	Average Mist Days	Fertilizer ppm N*	pH Range	EC Range (via SME)	Pinch**	PGR	Comments
Campanula portenschlagiana	Ultra Violet	72, 105	5-6	IBA @ 500-1000 ppm	14-18	100-150	5.8-6.2	2.0-3.5 mS	Yes	Optional: Sumagic @ 3-5 ppm	Do not stick cuttings too deep, can lead to crown rot.
Caryopteris x clandonensis	Gold Crest	50, 105	6-8	Yes	5-7	100-150	5.8-6.4	2.0-3.5 mS	Optional	Optional Florel @ 300-500 ppm. Optional Sumagic @ 3-5 ppm	Pinch and Florel in prop will enhance branching. Low to moderate misting requirements
Ceratostigma plumbaginoides		72, 105	5-6	Yes	5-7	100-150	5.8-6.2	2.0-3.5 mS	Yes	Optional: Sumagic @ 3-5 ppm	Avoid overwatering, use a porous media
Coreopsis auriculata	Sunbright	72, 105	4-5	IBA @ 500-1000 ppm	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: 1500-2500 ppm B-Nine	Hold liners at 35-45 F to avoid stretch
Coreopsis grandiflora	Radiant	72, 105	4-5	IBA @ 500-1000 ppm	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: 1500-2500 ppm B-Nine	Hold liners at 35-45 F to avoid stretch
Coreopsis grandiflora	Compact MoonSwirl, MoonSwirl	72, 105	4-5	IBA @ 500-1000 ppm	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: 1500-2500 ppm B-Nine	Hold liners at 35-45 F to avoid stretch
Coreopsis x hybrida	Big Bang™	72, 105	4-5	IBA @ 500-1000 ppm	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: 1500-2500 ppm B-Nine	Hold liners at 35-45 F to avoid stretch
Coreopsis auriculata	Fall Sensation	72, 105	4-5	IBA @ 500-1000 ppm	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: 1500-2500 ppm B-Nine	Hold liners at 35-45 F to avoid stretch
Coreopsis auriculata	Leading Lady™	72, 105	4-5	IBA @ 500-1000 ppm	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: 1500-2500 ppm B-Nine	Hold liners at 35-45 F to avoid stretch
Coreopsis x hybrida	Little Bang™	72, 105	4-5	IBA @ 500-1000 ppm	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: 1500-2500 ppm B-Nine	Hold liners at 35-45 F to avoid stretch
Coreopsis rosea	Permathread™	72, 105	4-5	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: 1500-2500 ppm B-Nine	Double stick cells for premium quality liners and finished containers.
Coreopsis verticillata	Moonbeam, Zagreb	72, 105	4-5	IBA @ 500-1000 ppm	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: 1500-2500 ppm B-Nine	Hold liners at 35-45 F to avoid stretch
Delosperma cooperi	Rock Crystal	72, 105	4-5	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: B-Nine @ 1500-2500 ppm	Avoid overwatering.
Delosperma cooperi	Solstice	72, 105	4-5	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: B-Nine @ 1500-2500 ppm	Avoid overwatering.
Delosperma cooperi	Jewel of Desert	72, 105	4-5	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: B-Nine @ 1500-2500 ppm	Avoid overwatering.



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Delosperma cooperi	King of Desert™	72, 105	4-5	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: B-Nine @ 1500-2500 ppm	Avoid overwatering.
Delosperma cooperi	Wheels of Wonder®	72, 105	4-5	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: B-Nine @ 1500-2500 ppm	Avoid overwatering.
Delosperma cooperi	Cooper's Ice Plant	72, 105	4-5	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: B-Nine @ 1500-2500 ppm	Avoid overwatering.
Dianthus hybrid	Mad Magenta	72, 105	4-5	Yes	12-16	50-75	5.8-6.2	2.0-3.5 mS	Yes		Foliage should not be allowed to dry out first 12-14 days. Do not allow to wilt in prop, but, do not mist to irrigate media
Dianthus hybrid	Cliff	72, 105	4-5	Yes	12-16	50-75	5.8-6.2	2.0-3.5 mS	Yes		Foliage should not be allowed to dry out first 12-14 days. Do not allow to wilt in prop, but, do not mist to irrigate media
Dianthus hybrid	Rock	72, 105	4-5	Yes	12-16	50-75	5.8-6.2	2.0-3.5 mS	Yes		Foliage should not be allowed to dry out first 12-14 days. Do not allow to wilt in prop, but, do not mist to irrigate media
Dianthus hybrid	Pemän	72, 105	4-5	Yes	12-16	50-75	5.8-6.2	2.0-3.5 mS	Yes		Foliage should not be allowed to dry out first 12-14 days. Do not allow to wilt in prop, but, do not mist to irrigate media
Dianthus hybrid	Arabella	72, 105	4-5	Yes	12-16	50-75	5.8-6.2	2.0-3.5 mS	Yes		Foliage should not be allowed to dry out first 12-14 days. Do not allow to wilt in prop, but, do not mist to irrigate media
Dianthus hybrid	Sprint	72, 105	4-5	Yes	12-16	50-75	5.8-6.2	2.0-3.5 mS	Yes		Foliage should not be allowed to dry out first 12-14 days. Do not allow to wilt in prop, but, do not mist to irrigate media
Dianthus hybrid	Special Bacco	72, 105	4-5	Yes	12-16	50-75	5.8-6.2	2.0-3.5 mS	Yes		Foliage should not be allowed to dry out first 12-14 days. Do not allow to wilt in prop, but, do not mist to irrigate media
Digiplexis hybrida	Illumination® Flame, Berry Canary	72, 105	4-6	Yes	5-7	50-75	5.5-6.0	2.0-3.0 mS	Yes	None	Pinch in liner stage to promote lateral branching for multiple flower spikes
Erysimum hybridum	WallArt	72, 105	4-6	Yes	5-7	100-150	5.8-6.2	1.0-1.25 mS	No	None	Reduce mist as soon as cuttings become turgid (generally 1-2 days after stick). Avoid overwatering.
Eupatorium dubium	Baby Joe®	72, 105	4-6	Yes	5-7	50-75	5.4-6.0	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500-2500 ppm	Preventative fungicide application recommended
Eupatorium maculatum	Little-Pye	72, 105	4-6	Yes	5-7	50-75	5.4-6.0	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500-2500 ppm	Preventative fungicide application recommended
Euphorbia characias	Glacier Blue, Tasmanian Tiger	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	None	Reduce mist as soon as cuttings become turgid (generally 1-2 days after stick). Avoid overwatering.

* (20-6-22 or 22-5-16 [15-0-15 under low-light conditions]) ** If producing in smaller tray than recommended sizes, a pinch is suggested

Culture | Propagation

Botanical Name	Cultivar	Tray Size	Timing (weeks)	Rooting Hormone	Average Mist Days	Fertilizer ppm N*	pH Range	EC Range (via SME)	Pinch**	PGR	Comments
Euphorbia x martinii	Ascot Rainbow	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	None	Reduce mist as soon as cuttings become turgid (generally 1-2 days after stick). Avoid overwatering.
Gaillardia aristata	SpinTop®	72, 105	4-6	Optional	5-7	50-75	5.4-6.0	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500-2500 ppm	If cuttings are budded remove before sticking
Gaillardia aristata	SpinTop® Mariachi	72, 105	4-6	Optional	5-7	50-75	5.4-6.0	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500-2500 ppm	If cuttings are budded remove before sticking
Galium odoratum	odoratum	105	4-5	No	5-7	100-150	5.8-6.1	2.0-3.5 mS	Yes	None	Ensure plants receive adequate micronutrients during propagation to avoid chlorosis.
Gaura lindheimeri	Graceful	72, 105	4-6	Yes	5-7	50-75	5.4-6.0	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500-2500 ppm	Grow plants under long days to avoid rosetting. Avoid overwatering.
Gaura lindheimeri	Monarch	72, 105	4-6	Yes	5-7	50-75	5.4-6.0	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500-2500 ppm	Grow plants under long days to avoid rosetting. Avoid overwatering.
Gaura lindheimeri	Belleza™	72, 105	4-6	Yes	5-7	50-75	5.4-6.0	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500-2500 ppm	Grow plants under long days to avoid rosetting. Avoid overwatering.
Gaura lindheimeri	Passionate Rainbow, Siskiyou Pink	72, 105	4-6	Yes	5-7	50-75	5.4-6.0	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500-2500 ppm	Grow plants under long days to avoid rosetting. Avoid overwatering.
Hedera algeriensis	algeriensis	72, 105	4-5	Yes	5-7	50-75	5.4-6.0	0.8-2.0 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500-2500 ppm	PGR's highly recommended to control growth
Hedera helix	Various	72, 105	4-5	Yes	5-7	50-75	5.4-6.0	0.8-2.0 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500-2500 ppm	PGR's highly recommended to control growth
Hedera helix var. baltica	Baltic Ivy	72, 105	4-5	Yes	5-7	50-75	5.4-6.0	0.8-2.0 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500-2500 ppm	PGR's highly recommended to control growth
Helenium autumnale	Salud™	72, 105	6-8	No	5-7	50-75	5.8-6.2	1.5-21 mS	Yes	None	Reduce mist as soon as cuttings become turgid (generally 1-2 days after stick). Avoid overwatering.
Heliopsis helianthoides	Sunstruck	72, 105	5-6	Yes	5-7	50-75	5.8-6.2	1.5-21 mS	Yes	None	Reduce mist as soon as cuttings become turgid (generally 1-2 days after stick). Avoid overwatering.
Iberis sempervirens	Tuff Candy, White Shadow	72, 105	4-6	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	High mist until rooting initiates. Remove flower buds in prop. Pinch 1-2 times in liner.



Botanical Name	Cultivar	Tray Size	Timing (weeks)	Rooting Hormone	Average Mist Days	Fertilizer ppm N*	pH Range	EC Range (via SME)	Pinch**	PGR	Comments
Iberis hybrid	Candy Sorbet	72, 105	4-6	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	High mist until rooting initiates. Remove flower buds in prop. Pinch 1-2 times in liner.
Lamium maculatum	Various	72, 105	3-4	No	5-7	50-75	5.8-6.2	0.8-2.0 mS	Yes	Optional: Paclobutrazol @ 1ppm (dr). Optional: Florel @ 300-500 ppm	Avoid overmisting and reduce mist as soon as cuttings become turgid and eliminate when root initials form.
Lavandula angustifolia	La Diva Eternal	72, 105	6-8	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist as soon as possible. Applying a preventative fungicide drench is recommended.
Lavandula angustifolia	La Diva Spirit	72, 105	6-8	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist as soon as possible. Applying a preventative fungicide drench is recommended.
Lavandula angustifolia	La Diva Vintage	72, 105	6-8	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist as soon as possible. Applying a preventative fungicide drench is recommended.
Lavandula dentata	La Diva Imperial	72, 105	6-8	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist as soon as possible. Applying a preventative fungicide drench is recommended.
Lavandula stoechas	La Diva Berry	72, 105	6-8	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist as soon as possible. Applying a preventative fungicide drench is recommended.
Lavandula stoechas	La Diva Big Night	72, 105	6-8	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist as soon as possible. Applying a preventative fungicide drench is recommended.
Lavandula stoechas	La Diva Garnet Rouge	72, 105	6-8	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist as soon as possible. Applying a preventative fungicide drench is recommended.
Lavandula stoechas	La Diva Lush Purple	72, 105	6-8	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist as soon as possible. Applying a preventative fungicide drench is recommended.
Lavandula stoechas	Papillon	72, 105	6-8	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist as soon as possible. Applying a preventative fungicide drench is recommended.
Lavandula angustifolia	Big Time	72, 105	6-8	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist as soon as possible. Applying a preventative fungicide drench is recommended.
Lavandula angustifolia	Various	72, 105	6-8	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist as soon as possible. Applying a preventative fungicide drench is recommended.
Lavandula dentata	French Lavender (Green)	72, 105	6-8	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist as soon as possible. Applying a preventative fungicide drench is recommended.

* (20-6-22 or 22-5-16 [15-0-15 under low-light conditions]) ** If producing in smaller tray than recommended sizes, a pinch is suggested

Culture | Propagation

Botanical Name	Cultivar	Tray Size	Timing (weeks)	Rooting Hormone	Average Mist Days	Fertilizer ppm N*	pH Range	EC Range (via SME)	Pinch**	PGR	Comments
Lavandula x intermedia	Various	72, 105	6-8	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist as soon as possible. Applying a preventative fungicide drench is recommended.
Lavandula stoechas	Ruffles Blueberry, Otto Quast	72, 105	6-8	Yes	5-7	50-75	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist as soon as possible. Applying a preventative fungicide drench is recommended.
Leucanthemum maximum	Sweet Daisy®	72, 105	6-8	Optional	5-7	100-150	5.8-6.5	2.0-3.5 mS	No	None	Use of Avid insecticide will cause phytotoxicity. Drench with preventative fungicide
Leucanthemum maximum	Sweet Daisy® Shelly	72, 105	6-8	Optional	5-7	100-150	5.8-6.5	2.0-3.5 mS	No	None	Use of Avid insecticide will cause phytotoxicity. Drench with preventative fungicide
Leucanthemum maximum	Real®	72, 105	6-8	Optional	5-7	100-150	5.8-6.5	2.0-3.5 mS	No	None	Use of Avid insecticide will cause phytotoxicity. Drench with preventative fungicide
Leucanthemum maximum	Snow Cap	72, 105	6-8	Optional	5-7	100-150	5.8-6.5	2.0-3.5 mS	No	None	Use of Avid insecticide will cause phytotoxicity. Drench with preventative fungicide
Lithodora diffusa	Blue Star, Grace Ward	72, 105	6-8	Optional	5-7	100-150	5.8-6.2	3.5-5 mS	Yes	Optional: Florel @ 300-500 ppm	Mist requirements very low. Avoid overmisting
Lysimachia nummularia	Creeping Jenny Green, Creeping Jenny Goldi	72, 105	3-4	No	5-7	50-75	5.8-6.2	0.8-2.0 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 5-6 ppm	Do not allow plants to wilt as they do not recover well. May require 2 pinches in prop
Mentha piperita	Chocolate, Orange, Peppermint	72, 105	4-5	No	5-7	50-75	5.8-6.1	2.0-3.5 mS	Yes	None	Avoid overmisting. Watch for botrytis. Use ONLY products labeled for edible crops
Mentha spicata	Kentucky Colonel, Spearmint	72, 105	4-5	No	5-7	50-75	5.8-6.1	2.0-3.5 mS	Yes	None	Avoid overmisting. Watch for botrytis. Use ONLY products labeled for edible crops
Mentha suaveolens	Apple, Variegata (Pineapple Mint)	72, 105	4-5	No	5-7	50-75	5.8-6.1	2.0-3.5 mS	Yes	None	Avoid overmisting. Watch for botrytis. Use ONLY products labeled for edible crops
Monarda didyma	Pocahontas	72, 105	6-8	Yes	5-7	100-150	5.8-6.3	3.5-5 mS	Yes	None	Reduce mist as soon as cuttings become turgid (generally 1-2 days after stick). Avoid overwatering.
Monarda didyma	Fireball	72, 105	6-8	Yes	5-7	100-150	5.8-6.3	3.5-5 mS	Yes	None	Reduce mist as soon as cuttings become turgid (generally 1-2 days after stick). Avoid overwatering.
Nepeta faassenii	Serene	72, 105	6-8	Optional	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 5-8 ppm	Irrigating without fertilizer may cause stretching.
Nepeta subsessillia	Tranquil Purple	72, 105	6-8	Optional	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 5-8 ppm	Irrigating without fertilizer may cause stretching.
Nepeta faassenii	Walkers Low	72, 105	6-8	Optional	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 5-8 ppm	Irrigating without fertilizer may cause stretching.



Botanical Name	Cultivar	Tray Size	Timing (weeks)	Rooting Hormone	Average Mist Days	Fertilizer ppm N*	pH Range	EC Range (via SME)	Pinch**	PGR	Comments
Ocimum x citriodorum	Pesto Perpetuo	72	4-5	No	5-7	50-100			Yes	None	Use ONLY products labeled safe for edible crops
Oenothera speciosa	Twilight, Siskiyou	72, 106	6-9	Optional	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Paclobutrazol @ 1-2 ppm (dr.)	Do not overwater rooted liners
Origanum marjorana	Sweet Marjoram	105	4-5	No	5-7	50-75	6.0-6.5	2.0-3.5 mS	Yes	None	Prop on the dry side. Use ONLY products labeled safe for edible crops
Origanum rotundifolium	Kent Beauty	105	4-5	No	5-7	50-75	6.0-6.5	2.0-3.5 mS	Yes	None	Prop on the dry side. Use ONLY products labeled safe for edible crops
Origanum vulgare	Greek, Hot & Spicy, Italian	105	4-5	No	5-7	50-75	6.0-6.5	2.0-3.5 mS	Yes	None	Prop on the dry side. Use ONLY products labeled safe for edible crops
Pachysandra terminalis	Green Sheen, Silver Edge, Japanese Spurge	72, 105	3-4	No	5-7	50-75	5.8-6.2	0.8-2.0	Yes	Optional: Paclobutrazol @ 1ppm (dr). Optional: Florel @ 300-500 ppm	Reduce mist as soon as cuttings become turgid, will root slowly if kept overly moist.
Penstemon barbatus var. paecox	Pristine®	72, 105	5-6	Yes	5-7	100-150	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Boost with micronutrients if chlorotic. Leach if high EC's
Penstemon hartwegii	PepTalk®, Super Star	72, 105	5-6	Yes	5-7	100-150	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Boost with micronutrients if chlorotic. Leach if high EC's
Perovskia atriplicifolia	Jelena, Zasha	72, 105	6-8	Yes	5-7	50-75	5.6-6.2	0.8-2.0 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist early. Will root slowly if kept too wet. Avoid overwatering
Perovskia atriplicifolia	CrazyBlue, Lacey Blue, Little Spire, Russian Sage	72, 105	6-8	Yes	5-7	50-75	5.6-6.2	0.8-2.0 mS	Yes	Optional: Florel @ 300-500 ppm	Reduce mist early. Will root slowly if kept too wet. Avoid overwatering
Phlox paniculata	Early®	72, 105	6-8	Yes	5-7	100-150	5.6-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Fert regularly to avoid chlorosis. Recommend preventative fungicide drench
Phlox paniculata	Flame™	72, 105	6-8	Yes	5-7	100-150	5.6-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Fert regularly to avoid chlorosis. Recommend preventative fungicide drench
Phlox paniculata	Flame™ Pro	72, 105	6-8	Yes	5-7	100-150	5.6-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Fert regularly to avoid chlorosis. Recommend preventative fungicide drench
Phlox subulata	Spring®	72, 105	6-8	Yes	5-7	50-75	5.6-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Watch EC's. High EC's will burn cutting tips. Recommend a fungicide drench
Phlox subulata	Spring® Late	72, 105	6-8	Yes	5-7	50-75	5.6-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Watch EC's. High EC's will burn cutting tips. Recommend a fungicide drench
Phlox hybrida	Woodlander™	72, 105	6-8	Yes	5-7	50-75	5.6-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Watch EC's. High EC's will burn cutting tips. Recommend a fungicide drench
Phlox divaricata	Blue Moon, Chattahoochee, May Breeze	72, 105	6-8	Yes	5-7	50-75	5.6-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Watch EC's. High EC's will burn cutting tips. Recommend a fungicide drench

*(20-6-22 or 22-5-16 [15-0-15 under low-light conditions]) **If producing in smaller tray than recommended sizes, a pinch is suggested

Culture | Propagation

Botanical Name	Cultivar	Tray Size	Timing (weeks)	Rooting Hormone	Average Mist Days	Fertilizer ppm N*	pH Range	EC Range (via SME)	Pinch**	PGR	Comments
Phlox bifida	Fort Hill	72, 105	6-8	Yes	5-7	50-75	5.6-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Watch EC's. High EC's will burn cutting tips. Recommend a fungicide drench
Phlox subulata	Candy Stripe, Drummond Pink, Emerald Blue, Purple Beauty	72, 105	6-8	Yes	5-7	50-75	5.6-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Watch EC's. High EC's will burn cutting tips. Recommend a fungicide drench
Rosmarinus officinalis	Gorizia, Prostratus, Tuscan Blue	105	5-6	No	5-7	50-75	5.6-6.2	2.0-3.5 mS	Yes	None	Reduce mist as soon as possible to avoid bacterial leaf spot. Use ONLY products registered for use on edibles
Salvia nemorosa	Noble	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 2-3 ppm	Avoid overwatering.
Salvia nemorosa	Caramia	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 2-3 ppm	Avoid overwatering.
Salvia nemorosa	Midnight	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 2-3 ppm	Avoid overwatering.
Salvia nemorosa	Salute®	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 2-3 ppm	Avoid overwatering.
Salvia nemorosa	Spring King,	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 2-3 ppm	Avoid overwatering.
Salvia nemorosa	Spring King Mini	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 2-3 ppm	Avoid overwatering.
Salvia nemorosa	Clarity, Noche	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 2-3 ppm	Avoid overwatering.
Salvia nemorosa	Blue Hills, Blue Marvel, Caradonna, East Friesland, Marcus	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 2-3 ppm	Avoid overwatering.



Botanical Name	Cultivar	Tray Size	Timing (weeks)	Rooting Hormone	Average Mist Days	Fertilizer ppm N*	pH Range	EC Range (via SME)	Pinch**	PGR	Comments
Salvia sylvestris	May Night	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 2-3 ppm	Avoid overwatering.
Salvia elegans	Pineapple Sage	72, 105	4-5	No	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	None	Keep plants on the dry side to discourage rot and disease. Use ONLY products labeled for edibles
Salvia officinalis	Celebration, Berggarten, Purpurascens, Tricolor	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 2-3 ppm	Avoid overwatering.
Saxifraga arendsii	Scenic	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	No	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 2-3 ppm	
Scabiosa columbaria	Flutter	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	No	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 2-3 ppm	
Scabiosa columbaria	Butterfly Blue	72, 105	6-8	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	No	Optional: Florel @ 300-500 ppm. Optional: Sumagic @ 2-3 ppm	
Sedum telephium	Cloudburst	72, 105	4-6	Optional	3-5	50-75	5.8-6.2	0.8-2.0 mS	Optional	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500 ppm	Avoid overwatering.
Sedum hybrida	Banana Split	72, 105	4-6	Optional	3-5	50-75	5.8-6.2	0.8-2.0 mS	Optional	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500 ppm	Avoid overwatering.
Sedum telephium	Autumn Fire, Autumn Joy	72, 105	4-6	Optional	3-5	50-75	5.8-6.2	0.8-2.0 mS	Optional	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500 ppm	Avoid overwatering.
Sedum caucicola	SunSparkler®	72, 105	4-6	Optional	3-5	50-75	5.8-6.2	0.8-2.0 mS	Optional	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500 ppm	Avoid overwatering.
Sedum ewersii	ewersii	72, 105	4-6	Optional	3-5	50-75	5.8-6.2	0.8-2.0 mS	Optional	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500 ppm	Avoid overwatering.

*(20-6-22 or 22-5-16 [15-0-15 under low-light conditions]) **If producing in smaller tray than recommended sizes, a pinch is suggested

Culture | Propagation

Botanical Name	Cultivar	Tray Size	Timing (weeks)	Rooting Hormone	Average Mist Days	Fertilizer ppm N*	pH Range	EC Range (via SME)	Pinch**	PGR	Comments
Sedum hakonense	Chocolate Ball	72, 105	4-6	Optional	3-5	50-75	5.8-6.2	0.8-2.0 mS	Optional	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500 ppm	Avoid overwatering.
Sedum kamtschaticum	Variegatum	72, 105	4-6	Optional	3-5	50-75	5.8-6.2	0.8-2.0 mS	Optional	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500 ppm	Avoid overwatering.
Sedum reflexum	Blue Spruce	72, 105	4-6	Optional	3-5	50-75	5.8-6.2	0.8-2.0 mS	Optional	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500 ppm	Avoid overwatering.
Sedum spurium	Tricolor	72, 105	4-6	Optional	3-5	50-75	5.8-6.2	0.8-2.0 mS	Optional	Optional: Florel @ 300-500 ppm. Optional: B-Nine @ 1500 ppm	Avoid overwatering.
Sempervivum tectorum	Kalinda, Red Beauty, Sunset	72, 105	4-6	No	3-5	50-75	5.8-6.2	0.8-2.0 mS	No	None	Avoid overwatering.
Stachys byzantina	Silver Carpet	72, 105	4-6	Yes	5-7	50-75	5.8-6.2	2.0-3.5 mS	No	Optional: Florel @ 300-500 ppm	Florel application in prop will promote branching
Stevia rebaudiana		105	4-6	No	5-7	50-75	5.8-6.2	0.9-1.3mS	Yes	None	Avoid overmisting. Watch for botrytis. Use ONLY products labeled for edible crops
Thymus citriodorus	Gold Lemon, Hi-Ho Silver, Lemon, Silver King	105, 200	4-5	No	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	None	Avoid overwatering, consider use of multiple cuttings per cell. Use ONLY products labeled for edible crops.
Thymus praecox	Elfin, Red Creeping	105, 200	4-5	No	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	None	Avoid overwatering, consider use of multiple cuttings per cell. Use ONLY products labeled for edible crops.
Thymus pseudolanuginosus	Woolly	105, 200	4-5	No	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	None	Avoid overwatering, consider use of multiple cuttings per cell. Use ONLY products labeled for edible crops.



Botanical Name	Cultivar	Tray Size	Timing (weeks)	Rooting Hormone	Average Mist Days	Fertilizer ppm N*	pH Range	EC Range (via SME)	Pinch**	PGR	Comments
Thymus serpyllum	Pink Chintz	105, 200	4-5	No	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	None	Avoid overwatering, consider use of multiple cuttings per cell. Use ONLY products labeled for edible crops.
Thymus vulgaris	English	105, 200	4-5	No	5-7	50-75	5.8-6.2	2.0-3.5 mS	Yes	None	Avoid overwatering, consider use of multiple cuttings per cell. Use ONLY products labeled for edible crops.
Verbena canadensis	Homestead Purple	72, 105	4-6	Yes	5-7	100-150	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	A propagation pinch and a Florel (3.9% Ethephon) application will help with proper branching.
Veronica hybrida	Candela	72, 105	4-6	Yes	5-7	100-150	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional Sumagic @ 2-3 ppm	Reduce and eliminate mist as soon as possible. Cuttings generally become turgid after 24 hours.
Veronica spicata	Pink Candles, Snow Candles	72, 105	4-6	Yes	5-7	100-150	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional Sumagic @ 2-3 ppm	Reduce and eliminate mist as soon as possible. Cuttings generally become turgid after 24 hours.
Veronica spicata	Royal Candles	72, 105	4-6	Yes	5-7	100-150	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional Sumagic @ 2-3 ppm	Reduce and eliminate mist as soon as possible. Cuttings generally become turgid after 24 hours.
Veronica spicata	Giles Van Hees	72, 105	4-6	Yes	5-7	100-150	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional Sumagic @ 2-3 ppm	Reduce and eliminate mist as soon as possible. Cuttings generally become turgid after 24 hours.
Vinca minor	Various	72, 105	5-6	Yes	5-7	100-150	5.8-6.2	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm. Optional Sumagic @ 2-3 ppm	May require 2 pinches in prop. Watch for iron deficiency. Apply iron chelate if needed
Viola cornuta	Spring Morning	72, 105	5-6	Yes	5-7	100-150	5.4-5.8	2.0-3.5 mS	Yes	Optional: Florel @ 300-500 ppm	Sensitive to high EC's. Leach if needed. Tenting has proven successful

(20-6-22 or 22-5-16 [15-0-15 under low-light conditions]) **If producing in smaller tray than recommended sizes, a pinch is suggested

Culture | Finishing

Botanical Name	Cultivar	Soil pH/EC Range (via SME) in mS	Optimum Temp Day (F/C)	Optimum Temp night (F/C)	Daylength to Flower	Vernalization to Flower	Vernalization Timing (wks)	Vernalization Temp Range	Fertilizer (ppm N)	Watering
Achillea millefolium	Skysail	5.5-6.2/ 2.0-3.5	55-65°F (13-18°C)	45-55°F (7-13°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Achillea millefolium	Sea Breeze™	5.5-6.2/ 2.0-3.5	55-65°F (13-18°C)	45-55°F (7-13°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Achillea clypeolata	Moonshine	5.5-6.2/ 2.0-3.5	55-65°F (13-18°C)	45-55°F (7-13°C)	Long Day Facultative	Beneficial	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Achillea millefolium	Terracotta	5.5-6.2/ 2.0-3.5	55-65°F (13-18°C)	45-55°F (7-13°C)	Long Day Facultative	Beneficial	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Agastache aurantiaca	Betterbuzz	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	60-72°F (16-22°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Agastache foeniculum	FlutterFriendly	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	60-72°F (16-22°C)	Long Day Obligate	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Agastache hybrida	Honeysticks	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	60-72°F (16-22°C)	Long Day Obligate	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Agastache x hybrid	Beelicious Purple	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	60-72°F (16-22°C)	Long Day Obligate	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Agastache rugosa	Black Adder	5.8-6.2/ 2.0-3.5	75-80°F (24-27°C)	65-75°F (18-24°C)	Long Day Obligate	First Year Flowering	N/A	N/A	150-200	Keep media moderately moist with mild dry cycles
Agastache foeniculum	Blue Fortune	5.8-6.2/ 2.0-3.5	75-80°F (24-27°C)	65-75°F (18-24°C)	Long Day Obligate	First Year Flowering	N/A	N/A	150-200	Keep media moderately moist with mild dry cycles
Ajuga reptans	Princess	5.5-6.2/ 0.8-2.0	55-65°F (13-18°C)	45-55°F (7-13°C)	Long Day Facultative	Required to flower	6-8	35-40°F (1.6-4.4°C)	100-200	Keep media moderately moist with mild dry cycles
Ajuga reptans	Various	5.5-6.2/ 0.8-2.0	55-65°F (13-18°C)	45-55°F (7-13°C)	Long Day Facultative	Required to flower	6-8	35-40°F (1.6-4.4°C)	100-200	Keep media moderately moist with mild dry cycles
Ajuga tenorii	Chocolate Chip	5.5-6.2/ 0.8-2.0	55-65°F (13-18°C)	45-55°F (7-13°C)	Long Day Facultative	Required to flower	6-8	35-40°F (1.6-4.4°C)	100-200	Keep media moderately moist with mild dry cycles
Aloysia triphylla	Lemon Verbena	5.8-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	50-100	Keep media moderately moist with mild dry cycles
Artemisia dracunculus	French Tarragon	5.8-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	First Year Flowering	N/A	N/A	50-100	Allow media to dry moderately between thorough waterings



Pinching	PGR 1	PGR 2	Pests	Disease	Tips	ppp/Timing Quarts (wks)	ppp/Timing 1 GAL (wks)	ppp/Timing 2 to 3 GAL (wks)
No	1-2 ppm Bonzi (0.4% Paclobutrazol) drench as needed	2500 ppm B-Nine (85% Daminozide) as needed	Aphids, thrips	Botrytis	In short day supplemental lighting may be used to expedite flowering. Avoid overwatering	N/A	1ppp/7-9	3ppp/8-12
No	1-2 ppm Bonzi (0.4% Paclobutrazol) drench as needed	2500 ppm B-Nine (85% Daminozide) as needed	Aphids, thrips	Botrytis	In short day supplemental lighting may be used to expedite flowering. Avoid overwatering	N/A	1ppp/7-9	3ppp/8-12
No	1-2 ppm Bonzi (0.4% Paclobutrazol) drench as needed	2500 ppm B-Nine (85% Daminozide) as needed	Aphids, thrips	Botrytis	In short day supplemental lighting may be used to expedite flowering. Avoid overwatering	N/A	1ppp/7-9	3ppp/8-12
No	1-2 ppm Bonzi (0.4% Paclobutrazol) drench as needed	2500 ppm B-Nine (85% Daminozide) as needed	Aphids, thrips	Botrytis	In short day supplemental lighting may be used to expedite flowering. Avoid overwatering	N/A	1ppp/7-9	3ppp/8-12
No	5-8 ppm Sumagic (0.055% Uniconazole)	1-2 ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphids, whitefly, thrip	Botrytis, downey mildew	Avoid saturated soil media to prevent pythium and botrytis.	1ppp/6-8	1ppp/8-11	3ppp/10-13
No	5-8 ppm Sumagic (0.055% Uniconazole)	1-2 ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphids, whitefly, thrip	Botrytis, downey mildew	Avoid saturated soil media to prevent pythium and botrytis.	N/A	1ppp/8-11	1ppp/10-13
No	5-8 ppm Sumagic (0.055% Uniconazole)	1-2 ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphids, whitefly, thrip	Botrytis, downey mildew	Avoid saturated soil media to prevent pythium and botrytis.	N/A	1ppp/8-11	3ppp/10-13
No	5-8 ppm Sumagic (0.055% Uniconazole)	1-2 ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphids, whitefly, thrip	Botrytis, downey mildew	Avoid saturated soil media to prevent pythium and botrytis.	N/A	1ppp/8-11	3ppp/10-13
Yes	1-4 ppm Bonzi (0.4% Paclobutrazol) drench as needed		Aphids, whitefly, thrip	Botrytis, downey mildew	Prefer warm temps and high light conditions.	N/A	1ppp/6-8	3ppp/9-12
Yes	1-4 ppm Bonzi (0.4% Paclobutrazol) drench as needed		Aphids, whitefly, thrip	Botrytis, downey mildew	Prefer warm temps and high light conditions.	N/A	1ppp/6-8	3ppp/9-12
No	1000-2500 ppm B-Nine (85% Daminozide)	1-2ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphid, whitefly	Botrytis, root and stem rot	Maintain night temps as low as possible to keep compact.	1ppp/4-6	1ppp/6-8	3ppp/9-11
No	2500 ppm B-Nine (85% Daminozide)	1-2ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphid, whitefly	Botrytis, root and stem rot	Maintain night temps as low as possible to keep compact.	1ppp/4-6	1ppp/6-8	3ppp/9-11
No	1000-2500 ppm B-Nine (85% Daminozide)	1-2ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphid, whitefly	Botrytis, root and stem rot	Maintain night temps as low as possible to keep compact.	1ppp/4-6	1ppp/6-8	3ppp/9-11
Yes	None		Aphids, whitefly	Botrytis, root and stem rot, powdery mildew	Avoid overly cold and wet conditions. Use ONLY products labeled for edible crops	1ppp/4-6	1ppp/5-7	N/A
Yes	None	Avoid overly cold and wet conditions. Use ONLY products labeled for edible crops	Aphids, whitefly	Botrytis, root and stem rot	Avoid overly cold and wet conditions. Use ONLY products labeled for edible crops	N/A	1ppp/5-7	N/A

Culture | Finishing

Botanical Name	Cultivar	Soil pH/EC Range (via SME) in mS	Optimum Temp Day (F/C)	Optimum Temp night (F/C)	Daylength to Flower	Vernalization to Flower	Vernalization Timing (wks)	Vernalization Temp Range	Fertilizer (ppm N)	Watering
<i>Artemisia schmidtiana</i>	Silver Mound	5.8-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	50-100	Allow media to dry moderately between thorough waterings
<i>Artemisia stelleriana</i>	Silver Brocade	5.8-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	50-100	Allow media to dry moderately between thorough waterings
<i>Aster dumosus</i>	Aurora	5.4-5.8/ 1.5-2.7	65-75°F (18-24°C)	55-65°F (13-18°C)	Short Day	First Year Flowering	N/A	N/A	200-250	Keep media moderately moist with mild dry cycles
<i>Aubrieta gracilis</i>	Rock On	5.5-6.2/ 2.0-3.5	45-55°F (7-13°C)	35-45°F (2-7°C)	Short Day	Required	6-8	35-40°F (1.6-4.4°C)	100-150	Keep media moderately moist with mild dry cycles
<i>Buddleja davidii</i>	Little Rockstars	5.6-6.2/ 2.0-3.5	65-75°F (18-24°C)	60-72°F (16-22°C)	Long Day Obligate	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
<i>Campanula portenschlagiana</i>	Ultra Violet	5.8-6.4/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Keep media moderately moist with mild dry cycles
<i>Caryopteris x clandonensis</i>	Gold Crest	5.8-6.4/ 3.5-5	65-75°F (18-24°C)	55-65°F (13-18°C)	Short Day	First Year Flowering	N/A	N/A	150-200	Keep media moderately moist at all times
<i>Ceratostigma plumbaginoides</i>		5.8-6.4/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Short Day	First Year Flowering	6-8	35-40°F (1.6-4.4°C)	150-200	Keep media moderately moist with mild dry cycles
<i>Coreopsis auriculata</i>	Sunbright	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
<i>Coreopsis grandiflora</i>	Radiant, Compact Moonswirl	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
<i>Coreopsis x hybrida</i>	Big Bang™	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
<i>Coreopsis auriculata</i>	Fall Sensation	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
<i>Coreopsis auriculata</i>	Leading Lady™	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
<i>Coreopsis x hybrida</i>	Little Bang™	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
<i>Coreopsis rosea</i>	Permathread™	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings



Pinching	PGR 1	PGR 2	Pests	Disease	Tips	ppp/Timing Quarts (wks)	ppp/Timing 1 GAL (wks)	ppp/Timing 2 to 3 GAL (wks)
Optional	Bonzi (0.4% Paclobutrazol) 5-40ppm spray	2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly	Botrytis, root and stem rots	Warm daytime temps will cause stretching.	1ppp/6-8	1ppp/8-10	3ppp/10-12
Optional	Bonzi (0.4% Paclobutrazol) 5-40ppm spray	2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly	Botrytis, root and stem rots	Warm daytime temps will cause stretching.	1ppp/6-8	1ppp/8-10	N/A
Optional	1-2 ppm Bonzi (0.4% Paclobutrazol) drench as needed	5-6 ppm Sumagic (0.055% Uniconazole) as needed	Aphids, thrip, whitefly	Powdery mildew, root and stem rot, bacterial leaf spot	Drip irrigation and proper spacing helps promote compact growth habit.	N/A	1ppp/7-9	3ppp/12-14
No	B-Nine (85% Daminozide) 2500-3750 ppm	Sumagic (0.055% Uniconazole) 5-15ppm	Aphids, whitefly	Powdery mildew, downey mildew	Cool temps promote compact growth habit. Apply PGRs if needed to complement cool temps.	1ppp/15-18	1ppp/20-23	3ppp/11-13
Yes	None		Aphids, whitefly, mites	Botrytis	Water well without overwatering. Good air movement can assist in plant height control.	N/A	1ppp/8-12	3ppp/12-14
Optional	Bonzi (0.4% Paclobutrazol) 5-40ppm spray	5-8 ppm Sumagic (0.055% Uniconazole)	Aphids, whitefly	Botrytis, downey mildew	Vern. is most effective if completed 4-6 weeks after transplanting to finished pot.	1ppp/8-10	1ppp/10-12	N/A
Optional	Bonzi (0.4% Paclobutrazol) 5-40ppm spray	5-8 ppm Sumagic (0.055% Uniconazole)	Aphids, whitefly	Botrytis, downey mildew	Final pinch 4 weeks after transplanting. Heavy PGR applications are required. Do not allow to dry out completely	N/A	1ppp/10-12	3ppp/12-14
Optional	Bonzi (0.4% Paclobutrazol) 5-40ppm spray	2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly	Botrytis, downey mildew	Vern. is most effective if completed 4-6 weeks after transplanting to finished pot.	N/A	1ppp/10-12	3ppp/12-14
Optional	B-Nine (85% Daminozide) 1500-2500ppm	Sumagic (0.055% Uniconazole) 3-4ppm	Aphids	Botrytis, powdery mildew, bacterial leaf spot	Dry moderately between waterings to tone. Daylength extension can force flowering	N/A	1ppp/6-8	3ppp/9-12
Optional	B-Nine (85% Daminozide) 1500-2500ppm	Sumagic (0.055% Uniconazole) 3-4ppm	Aphids	Botrytis, powdery mildew, bacterial leaf spot	Dry moderately between waterings to tone. Daylength extension can force flowering	N/A	1ppp/6-8	3ppp/9-12
Optional	B-Nine (85% Daminozide) 1500-2500ppm	Sumagic (0.055% Uniconazole) 3-4ppm	Aphids	Botrytis, powdery mildew, bacterial leaf spot	Dry moderately between waterings to tone. Daylength extension can force flowering	N/A	1ppp/6-8	3ppp/9-12
Optional	B-Nine (85% Daminozide) 1500-2500ppm	Sumagic (0.055% Uniconazole) 3-4ppm	Aphids	Botrytis, powdery mildew, bacterial leaf spot	Dry moderately between waterings to tone. Daylength extension can force flowering	N/A	1ppp/6-8	3ppp/9-12
No	B-Nine (85% Daminozide) 1500-2500ppm	Sumagic (0.055% Uniconazole) 3-4ppm	Aphids	Botrytis, powdery mildew, bacterial leaf spot	Dry moderately between waterings to tone. Daylength extension can force flowering	N/A	1ppp/6-8	3ppp/9-12
Optional	B-Nine (85% Daminozide) 1500-2500ppm	Sumagic (0.055% Uniconazole) 3-4ppm	Aphids	Botrytis, powdery mildew, bacterial leaf spot	Dry moderately between waterings to tone. Daylength extension can force flowering	N/A	1ppp/6-8	3ppp/9-12
Optional	B-Nine (85% Daminozide) 1500-2500ppm	Sumagic (0.055% Uniconazole) 3-4ppm	Aphids	Botrytis, powdery mildew, bacterial leaf spot	Dry moderately between waterings to tone. Daylength extension can force flowering	N/A	1ppp/6-8	3ppp/9-12

Culture | Finishing

Botanical Name	Cultivar	Soil pH/EC Range (via SME) in mS	Optimum Temp Day (F/C)	Optimum Temp night (F/C)	Daylength to Flower	Vernalization to Flower	Vernalization Timing (wks)	Vernalization Temp Range	Fertilizer (ppm N)	Watering
Coreopsis verticillata	Moonbeam, Zagreb	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Delosperma cooperi	Rock Crystal	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Delosperma cooperi	Solstice	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Delosperma cooperi	Jewel of Desert	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Delosperma cooperi	King of Desert™	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Delosperma cooperi	Wheels of Wonder®	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-202	Allow media to dry moderately between thorough waterings
Delosperma cooperi	Cooper's Ice Plant	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Dianthus hybrid	Mad Magenta	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Dianthus hybrid	Cliff	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Dianthus hybrid	Rock	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Dianthus hybrid	Pemán	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	First Year Flowering	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Dianthus hybrid	Arabella	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Daylength Neutral	First Year Flowering	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Dianthus hybrid	Sprint	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Daylength Neutral	First Year Flowering	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Dianthus hybrid	Special Bacco	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Daylength Neutral	First Year Flowering	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Digiplexis hybrida	Illumination® Flame, Berry Canary	5.5-6.0/ 5.5-6.0	55-65°F (13-18°C)	45-55°F (7-13°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-125	Keep media moderately moist with mild dry cycles



Pinching	PGR 1	PGR 2	Pests	Disease	Tips	ppp/Timing Quarts (wks)	ppp/Timing 1 GAL (wks)	ppp/Timing 2 to 3 GAL (wks)
Optional	B-Nine (85% Daminozide) 1500-2500ppm	Sumagic (0.055% Uniconazole) 3-4ppm	Aphids	Botrytis, powdery mildew, bacterial leaf spot	Dry moderately between waterings to tone. Daylength extension can force flowering	1ppp/4-6	1ppp/6-8	3ppp/9-12
Optional	B-Nine (85% Daminozide) 1500-2500ppm	Sumagic (0.055% Uniconazole) 3-4ppm	Aphids, whitefly, mites	Powdery mildew, bacterial leaf spot, root rot	Allowing to dry will promote flowering. Avoid overwatering	1ppp/4-6	1ppp/6-8	N/A
Optional	B-Nine (85% Daminozide) 1500-2500ppm	Sumagic (0.055% Uniconazole) 3-4ppm	Aphids, whitefly, mites	Powdery mildew, bacterial leaf spot, root rot	Allowing to dry will promote flowering. Avoid overwatering	N/A	1ppp/6-8	3ppp/10-12
Optional	B-Nine (85% Daminozide) 1500-2500ppm	Sumagic (0.055% Uniconazole) 3-4ppm	Aphids, whitefly, mites	Powdery mildew, bacterial leaf spot, root rot	Allowing to dry will promote flowering. Avoid overwatering	1ppp/4-6	1ppp/6-8	N/A
Optional	B-Nine (85% Daminozide) 1500-2500ppm	Sumagic (0.055% Uniconazole) 3-4ppm	Aphids, whitefly, mites	Powdery mildew, bacterial leaf spot, root rot	Allowing to dry will promote flowering. Avoid overwatering	1ppp/4-6	1ppp/6-8	N/A
Optional	B-Nine (85% Daminozide) 1500-2500ppm	Sumagic (0.055% Uniconazole) 3-4ppm	Aphids, whitefly, mites	Powdery mildew, bacterial leaf spot, root rot	Allowing to dry will promote flowering. Avoid overwatering	1ppp/4-6	1ppp/6-8	3ppp/10-12
Optional	B-Nine (85% Daminozide) 1500-2500ppm	Sumagic (0.055% Uniconazole) 3-4ppm	Aphids, whitefly, mites	Powdery mildew, bacterial leaf spot, root rot	Allowing to dry will promote flowering. Avoid overwatering	1ppp/4-6	1ppp/6-8	3ppp/10-12
No	None		Thrips	Fusarium, rust	Prefers cool temps and high light. Can be grown as first year flowering or vernalized.	1ppp/6-8	1ppp/10-12	3ppp/12-14
No	None		Thrips	Fusarium, rust	Prefers cool temps and high light. Can be grown as first year flowering or vernalized.	1ppp/6-8	1ppp/10-12	3ppp/12-14
No	None		Thrips	Fusarium, rust	Prefers cool temps and high light. Can be grown as first year flowering or vernalized.	1ppp/6-8	1ppp/10-12	3ppp/12-14
No	None		Thrips	Fusarium, rust	Prefers cool temps and high light. Can be grown as first year flowering or vernalized.	1ppp/6-8	1ppp/10-12	3ppp/12-14
No	None		Thrips	Fusarium, rust	Prefers cool temps and high light. Can be grown as first year flowering or vernalized.	1ppp/6-8	1ppp/10-12	3ppp/12-14
No	None		Thrips	Fusarium, rust	Prefers cool temps and high light. Can be grown as first year flowering or vernalized.	1ppp/6-8	1ppp/10-12	3ppp/12-14
No	None		Thrips	Fusarium, rust	Prefers cool temps and high light. Can be grown as first year flowering or vernalized.	1ppp/6-8	1ppp/10-12	3ppp/12-14
Yes	None		Mites, whitefly, aphids		Pinch as liner or 3-4 wks after plant to encourage branching and multiple flower spikes	N/A	1ppp/8-10	1ppp/12-14

Culture | Finishing

Botanical Name	Cultivar	Soil pH/EC Range (via SME) in mS	Optimum Temp Day (F/C)	Optimum Temp night (F/C)	Daylength to Flower	Vernalization to Flower	Vernalization Timing (wks)	Vernalization Temp Range	Fertilizer (ppm N)	Watering
Erysimum hybridum	WallArt	5.8-6.2/ 2.0-3.5	55-65°F (13-18°C)	45-55°F (7-13°C)	Short Day	Beneficial	6-8	35-40°F (1.6-4.4°C)	100-150	Allow media to dry moderately between thorough waterings
Eupatorium dubium	Baby Joe®	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Short Day	Required	6-8	35-40°F (1.6-4.4°C)	100-150	Keep media moderately moist with mild dry cycles
Eupatorium maculatum	Little-Pye	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Short Day	Required	6-8	35-40°F (1.6-4.4°C)	100-150	Keep media moderately moist with mild dry cycles
Euphorbia characias	Glacier Blue, Tasmanian Tiger	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Required to flower	6-8	35-40°F (1.6-4.4°C)	50-100	Allow media to dry moderately between thorough waterings
Euphorbia x martinii	Ascot Rainbow	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Required to flower	6-8	35-40°F (1.6-4.4°C)	50-100	Allow media to dry moderately between thorough waterings
Gaillardia aristata	SpinTop®	5.4-6.0/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Keep media moderately moist with mild dry cycles
Gaillardia aristata	SpinTop® Mariachi	5.4-6.0/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Keep media moderately moist with mild dry cycles
Galium odoratum	odoratum	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Required to flower	6-8	35-40°F (1.6-4.4°C)	100-150	Keep media moderately moist with mild dry cycles
Gaura lindheimeri	Graceful	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Gaura lindheimeri	Monarch	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Gaura lindheimeri	Belleza™	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Gaura lindheimeri	Passionate Rainbow, Siskiyou Pink	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Hedera algeriensis	algeriensis	5.8-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	50-100	Keep media moderately moist with mild dry cycles
Hedera helix	Various	5.8-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	50-100	Keep media moderately moist with mild dry cycles
Hedera helix var. baltica	Baltic Ivy	5.8-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	50-100	Keep media moderately moist with mild dry cycles



Pinching	PGR 1	PGR 2	Pests	Disease	Tips	ppp/Timing Quarts (wks)	ppp/Timing 1 GAL (wks)	ppp/Timing 2 to 3 GAL (wks)
Optional	Bonzi (0.4% Paclobutrazol) 20-30ppm spray	5-10 ppm Sumagic (0.055% Uniconazole)	Aphids, thrips, whitefly	Pythium, downey mildew, powdery mildew	Maintain cool temps to avoid early flowering. Avoid saturated soils	1ppp/8-10	1ppp/9-12	3ppp/11-13
Yes	Bonzi (0.4% Paclobutrazol) 5-40ppm spray	5-8 ppm Sumagic (0.055% Uniconazole)	Spider mites, whitefly, aphids	Botrytis, powdery mildew, downey mildew	Full sun will promote best foliage color. Allow to dry moderately to control stretch	N/A	1ppp/8-10	3ppp/10-12
Yes	Bonzi (0.4% Paclobutrazol) 5-40ppm spray	5-8 ppm Sumagic (0.055% Uniconazole)	Spider mites, whitefly, aphids	Botrytis, powdery mildew, downey mildew	Full sun will promote best foliage color. Allow to dry moderately to control stretch	N/A	1ppp/8-10	3ppp/10-12
No	2500 ppm B-Nine (85% Daminozide) as needed	3-5 ppm Sumagic (0.055% Uniconazole) as needed	Aphids, whitefly, spider mites	Botrytis, downey mildew, powdery mildew	Pronounced wet-dry cycle is preferred. Best in high light, low temps and drier soil	N/A	1ppp/8-10	3ppp/10-12
No	2500 ppm B-Nine (85% Daminozide) as needed	3-5 ppm Sumagic (0.055% Uniconazole) as needed	Aphids, whitefly, spider mites	Botrytis, downey mildew, powdery mildew	Pronounced wet-dry cycle is preferred. Best in high light, low temps and drier soil	N/A	1ppp/8-10	3ppp/10-12
Yes	2500 ppm B-Nine (85% Daminozide) as needed	3-5 ppm Sumagic (0.055% Uniconazole) as needed	Aphids, whitefly	Botrytis, root rot	Transplant deep to bury first node. Remove early flower buds to build larger plant	N/A	1ppp/6-8	3ppp/10-12
Yes	2500 ppm B-Nine (85% Daminozide) as needed	3-5 ppm Sumagic (0.055% Uniconazole) as needed	Aphids, whitefly	Botrytis, root rot	Transplant deep to bury first node. Remove early flower buds to build larger plant	N/A	1ppp/6-8	3ppp/10-12
Yes	None		Aphids, whitefly, mealybugs	Downey mildew, powdery mildew	Avoid full sun to limit the risk of leaf burn. Micronutrients (especially iron) should be kept high to avoid chlorosis.	1ppp/6-8	3ppp/8-9	N/A
No	2500 ppm B-Nine (85% Daminozide) as needed	3-5 ppm Sumagic (0.055% Uniconazole) as needed	Aphids, whitefly, spider mite	Botrytis, powdery mildew, downey mildew	Long days promote faster flowering. Will go semi-dormant under short days.	N/A	1ppp/6-8	3ppp/6-8
No	2500 ppm B-Nine (85% Daminozide) as needed	3-5 ppm Sumagic (0.055% Uniconazole) as needed	Aphids, whitefly, spider mite	Botrytis, powdery mildew, downey mildew	Long days promote faster flowering. Will go semi-dormant under short days.	N/A	1ppp/6-8	3ppp/6-8
No	2500 ppm B-Nine (85% Daminozide) as needed	3-5 ppm Sumagic (0.055% Uniconazole) as needed	Aphids, whitefly, spider mite	Botrytis, powdery mildew, downey mildew	Long days promote faster flowering. Will go semi-dormant under short days.	N/A	1ppp/6-8	3ppp/6-8
No	2500 ppm B-Nine (85% Daminozide) as needed	3-5 ppm Sumagic (0.055% Uniconazole) as needed	Aphids, whitefly, spider mite	Botrytis, powdery mildew, downey mildew	Long days promote faster flowering. Will go semi-dormant under short days.	N/A	1ppp/6-8	3ppp/6-8
Yes	6-8 ppm Sumagic (0.055% Uniconazole)	1-2 ppm Bonzi (0.4% Paclobutrazol) Drench	Aphids, whitefly, spider mites	Bacterial leaf spot, powdery mildew	Apply PGRs after it fills finished pot to control runners. Warm temps reduce crop time, can stretch	1ppp/4-6	1ppp/6-8	N/A
Yes	6-8 ppm Sumagic (0.055% Uniconazole)	1-2 ppm Bonzi (0.4% Paclobutrazol) Drench	Aphids, whitefly, spider mites	Bacterial leaf spot, powdery mildew	Apply PGRs after it fills finished pot to control runners. Warm temps reduce crop time, can stretch	1ppp/4-6	1ppp/6-8	N/A
Yes	6-8 ppm Sumagic (0.055% Uniconazole)	1-2 ppm Bonzi (0.4% Paclobutrazol) Drench	Aphids, whitefly, spider mites	Bacterial leaf spot, powdery mildew	Apply PGRs after it fills finished pot to control runners. Warm temps reduce crop time, can stretch	1ppp/4-6	1ppp/6-8	N/A

Culture | Finishing

Botanical Name	Cultivar	Soil pH/EC Range (via SME) in mS	Optimum Temp Day (F/C)	Optimum Temp night (F/C)	Daylength to Flower	Vernalization to Flower	Vernalization Timing (wks)	Vernalization Temp Range	Fertilizer (ppm N)	Watering
Helenium autumnale	Salud™	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	First Year Flowering	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Heliopsis helianthoides	Sunstruck	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	First Year Flowering	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Iberis sempervirens	Tuff Candy, White Shadow	5.4-5.8/ 2.0-3.5	55-65°F (13-18°C)	45-55°F (7-13°C)	Short Day	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Keep media moderately moist with mild dry cycles
Iberis hybrid	Candy Sorbet	5.4-5.8/ 2.0-3.5	55-65°F (13-18°C)	45-55°F (7-13°C)	Long Day Obligate	First Year Flowering	N/A	N/A	150-200	Keep media moderately moist with mild dry cycles
Lamium maculatum	Various	5.8-6.2/ 0.8-2.0	55-65°F (13-18°C)	45-55°F (7-13°C)	Long Day Facultative	Beneficial	6-8	35-40°F (1.6-4.4°C)	50-100	Keep media moderately moist at all times
Lavandula angustifolia	La Diva Eternal	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Lavandula angustifolia	La Diva Spirit	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	55-65°F (13-18°C)	Long Day Obligate	Required	6-8	35-40°F (1.6-4.4°C)	150-200	Allow media to dry moderately between thorough waterings
Lavandula angustifolia	La Diva Vintage	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Lavandula dentata	La Diva Imperial	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Lavandula stoechas	La Diva Berry	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	55-65°F (13-18°C)	Long Day Facultative	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Allow media to dry moderately between thorough waterings
Lavandula stoechas	La Diva Big Night	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	55-65°F (13-18°C)	Long Day Facultative	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Allow media to dry moderately between thorough waterings
Lavandula stoechas	La Diva Garnet Rouge	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	55-65°F (13-18°C)	Long Day Facultative	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Allow media to dry moderately between thorough waterings
Lavandula stoechas	La Diva Lush Purple	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	55-65°F (13-18°C)	Long Day Facultative	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Allow media to dry moderately between thorough waterings
Lavandula stoechas	Papillon	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	55-65°F (13-18°C)	Long Day Facultative	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Allow media to dry moderately between thorough waterings
Lavandula angustifolia	Big Time	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	55-65°F (13-18°C)	Long Day Obligate	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings



Pinching	PGR 1	PGR 2	Pests	Disease	Tips	ppp/Timing Quarts (wks)	ppp/Timing 1 GAL (wks)	ppp/Timing 2 to 3 GAL (wks)
Yes	None		Aphids, whitefly	Botrytis, root rot	Plant growth habit is improved with vernalization.	N/A	1ppp/10-12	3ppp/10-12
Yes	None		Aphids, whitefly	Botrytis, root rot	Plant growth habit is improved with vernalization.	N/A	1ppp/10-12	3ppp/10-12
Yes	5-6 ppm Sumagic (0.055% Uniconazole) for toning as needed		Fungus gnats	Pythum, powdery mildew, downey mildew	Grow cool to promote mounding habit. Apply PGR's as needed when temps rise. Temps > 60F during bulking	1ppp/8-10	1ppp/12-14	N/A
Yes	5-6 ppm Sumagic (0.055% Uniconazole) for toning as needed		Fungus gnats	Pythum, powdery mildew, downey mildew	Grow cool to promote mounding habit. Apply PGR's as needed when temps rise. Temps > 60F during bulking	1ppp/15-18	3ppp/20- 22	N/A
Yes	3-5 ppm Bonzi (0.4% Paclobutrazol) drench	3750 ppm B-Nine (85% Daminozide)	Aphids, whitefly	Botrytis, root and stem rot, downey mildew	Grow cool, not heat tolerant. Pinch as needed to control spread	1ppp/4-6	3ppp/5-8	N/A
Yes	4-6 ppm Sumagic (0.055% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, fungus gnats	Botrytis, root rot	Keep on the dry side for improved finish size and flower count. Will flower under short days	1ppp/5-6	1ppp/7-12	3ppp/12-14
Yes	4-6 ppm Sumagic (0.055% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, fungus gnats	Botrytis, root rot	Long days will lead to flowering uniformly. Critical photoperiod after vern. should be min. 14 hrs of night interruption. Grow on dry side	N/A	1ppp/12-14	3ppp/13-15
Yes	4-6 ppm Sumagic (0.055% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, fungus gnats	Botrytis, root rot	Keep on the dry side for improved finish size and flower count. Will flower under short days	N/A	1ppp/7-12	3ppp/12-14
Yes	4-6 ppm Sumagic (0.055% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, fungus gnats	Botrytis, root rot	Keep on the dry side for improved finish size and flower count. Will flower under short days	N/A	1ppp/12-14	3ppp/13-15
Yes	4-6 ppm Sumagic (0.055% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, fungus gnats	Botrytis, root rot	Long days will lead to flowering uniformly. Critical photoperiod after vern. should be min. 14 hrs of night interruption. Grow on dry side	N/A	1ppp/12-14	3ppp/13-15
Yes	4-6 ppm Sumagic (0.055% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, fungus gnats	Botrytis, root rot	Will flower under short or long days. Grow on dry side for best size and flower count	N/A	1ppp/12-14	3ppp/13-15
Yes	4-6 ppm Sumagic (0.055% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, fungus gnats	Botrytis, root rot	Will flower under short or long days. Grow on dry side for best size and flower count	N/A	1ppp/12-14	3ppp/13-15
Yes	4-6 ppm Sumagic (0.055% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, fungus gnats	Botrytis, root rot	Will flower under short or long days. Grow on dry side for best size and flower count	N/A	1ppp/12-14	3ppp/13-15
Yes	4-6 ppm Sumagic (0.055% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, fungus gnats	Botrytis, root rot	Flower under short or long days. Grow on dry side.	N/A	1ppp/12-14	3ppp/13-15
Yes	4-6 ppm Sumagic (0.055% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, fungus gnats	Botrytis, root rot	Long days promote uniform flowering. Critical photoperiod after vern. min. 14 hrs of night interruption. Grow on dry side	N/A	1ppp/12-14	3ppp/13-15

Culture | Finishing

Botanical Name	Cultivar	Soil pH/EC Range (via SME) in mS	Optimum Temp Day (F/C)	Optimum Temp night (F/C)	Daylength to Flower	Vernalization to Flower	Vernalization Timing (wks)	Vernalization Temp Range	Fertilizer (ppm N)	Watering
Lavandula angustifolia	Various	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	55-65°F (13-18°C)	Long Day Obligate	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Allow media to dry moderately between thorough waterings
Lavandula dentata	French Lavender (Green)	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Lavandula x intermedia	Various	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	55-65°F (13-18°C)	Long Day Obligate	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Allow media to dry moderately between thorough waterings
Lavandula stoechas	Ruffles Blueberry, Otto Quast	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	55-65°F (13-18°C)	Long Day Facultative	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Allow media to dry moderately between thorough waterings
Leucanthemum maximum	Sweet Daisy®	5.8-6.5/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Keep media moderately moist with mild dry cycles
Leucanthemum maximum	Sweet Daisy® Shelly	5.8-6.5/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Keep media moderately moist with mild dry cycles
Leucanthemum maximum	Real®	5.8-6.5/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Required	6-8	35-40°F (1.6-4.4°C)	150-200	Keep media moderately moist with mild dry cycles
Leucanthemum maximum	Snow Cap	5.8-6.5/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Required	6-8	35-40°F (1.6-4.4°C)	150-200	Keep media moderately moist with mild dry cycles
Lithodora diffusa	Blue Star, Grace Ward	5.8-6.2/ 3.5-5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	200-250	Keep media moderately moist with mild dry cycles
Lysimachia nummularia	Creeping Jenny Green, Goldi	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Mentha piperita	Chocolate, Orange, Peppermint	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	50-100	Keep media moderately moist with mild dry cycles
Mentha spicata	Kentucky Colonel, Spearmint	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	50-100	Keep media moderately moist with mild dry cycles
Mentha suaveolens	Apple, Variegata (Pineapple Mint)	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	50-100	Keep media moderately moist with mild dry cycles
Monarda didyma	Pocahontas	5.8-6.2/ 3.5-5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	Required	6-8	35-40°F (1.6-4.4°C)	200-250	Keep media moderately moist with mild dry cycles
Monarda didyma	Fireball	5.8-6.2/ 3.5-5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	Required	6-8	35-40°F (1.6-4.4°C)	200-250	Keep media moderately moist with mild dry cycles



Pinching	PGR 1	PGR 2	Pests	Disease	Tips	ppp/Timing Quarts (wks)	ppp/Timing 1 GAL (wks)	ppp/Timing 2 to 3 GAL (wks)
Yes	4-6 ppm Sumagic (0.055% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, fungus gnats	Botrytis, root rot	Long days promote uniform flowering. Critical photoperiod after vern. min. 14 hrs of night interruption. Grow on dry side	N/A	1ppp/12-14	3ppp/13-15
Yes	4-6 ppm Sumagic (0.055% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, fungus gnats	Botrytis, root rot	Prefers high light and dry conditions.	N/A	1ppp/12-14	3ppp/13-15
Yes	4-6 ppm Sumagic (0.055% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, fungus gnats	Botrytis, root rot	Long days promote uniform flowering. Critical photoperiod after vern. min. 14 hrs of night interruption. Grow on dry side	N/A	1ppp/12-14	3ppp/13-15
Yes	4-6 ppm Sumagic (0.055% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, fungus gnats	Botrytis, root rot	Flower under short or long days. Grow on dry side.	N/A	1ppp/12-14	3ppp/13-15
No	None		Aphids, thrips , whitefly	Botrytis, root rot, fusarium	High light and proper feeding is required for best flower count. Very responsive to DIF.	N/A	1ppp/7-8	3ppp/10-11
No	None		Aphids, thrips , whitefly	Botrytis, root rot, fusarium	High light and proper feeding is required for best flower count. Very responsive to DIF.	1ppp/4-6	3ppp/7-8	N/A
No	None		Aphids, thrips , whitefly	Botrytis, root rot, fusarium	High light and proper feeding is required for best flower count. Very responsive to DIF.	N/A	1ppp/7-8	3ppp/10-11
No	None		Aphids, thrips , whitefly	Botrytis, root rot, fusarium	High light and proper feeding is required for best flower count. Very responsive to DIF.	N/A	1ppp/7-8	3ppp/10-11
No	5-6 ppm Sumagic (0.055% Uniconazole)	2500 ppm B-Nine (85% Daminozide)	Aphids, whitefly	Botrytis, powdery mildew, bacterial leaf spot	Avoid saturated soils. Allow to dry a bit between waterings	1ppp/8-10	3ppp/11-13	N/A
Yes	3-5 ppm Bonzi (0.4% Paclobutrazol) drench	3750 ppm B-Nine (85% Daminozide)	Aphids, whitefly	Botrytis	Pinch/trim as needed to fill out & control growth	1ppp/4-6	3ppp/5-8	N/A
Yes	None		Aphids, spider mites	Botrytis, root rot	Keep temps above 45 F (7C). Use ONLY products labeled for use with edibles	1ppp/4-6	1ppp/5-6	N/A
Yes	None		Aphids, spider mites	Botrytis, root rot	Keep temps above 45 F (7C). Use ONLY products labeled for use with edibles	1ppp/4-6	1ppp/5-6	N/A
Yes	None		Aphids, spider mites	Botrytis, root rot	Keep temps above 45 F (7C). Use ONLY products labeled for use with edibles	1ppp/4-6	1ppp/5-6	N/A
No	Sumagic (0.055% Uniconazole) at 3-6 ppm	1200-1700 ppm B-Nine (85% Daminozide)	Aphids, whitefly, spider mites	Botrytis, powdery mildew, bacterial leaf spot	Avoid saturated soils. Should not dry completely; Avoid wilting.	N/A	1ppp/9-12	3ppp/11-13
No	Sumagic (0.055% Uniconazole) at 3-6 ppm	1200-1700 ppm B-Nine (85% Daminozide)	Aphids, whitefly, spider mites	Botrytis, powdery mildew, bacterial leaf spot	Avoid saturated soils. Should not dry completely; Avoid wilting.	N/A	1ppp/9-12	3ppp/11-13

Culture | Finishing

Botanical Name	Cultivar	Soil pH/EC Range (via SME) in mS	Optimum Temp Day (F/C)	Optimum Temp night (F/C)	Daylength to Flower	Vernalization to Flower	Vernalization Timing (wks)	Vernalization Temp Range	Fertilizer (ppm N)	Watering
Nepeta faassenii	Serene	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Nepeta subsessillis	Tranquil Purple	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	125-150	Allow media to dry moderately between thorough waterings
Nepeta faassenii	Walkers Low	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Allow media to dry moderately between thorough waterings
Ocimum x citriodorum	Pesto Perpetuo	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	150-200	Keep media moderately moist at all times
Oenothera speciosa	Twilight, Siskiyou	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Keep media moderately moist with mild dry cycles
Origanum marjorana	Sweet Marjoram	6.0-6.5/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	50-100	Keep media moderately moist with mild dry cycles
Origanum rotundifolium	Kent Beauty	6.0-6.5/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	50-100	Keep media moderately moist with mild dry cycles
Origanum vulgare	Greek, Hot & Spicy, Italian	6.0-6.5/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	50-100	Keep media moderately moist with mild dry cycles
Pachysandra terminalis	Green Sheen, Silver Edge, Japanese Spurge	5.8-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	50-100	Keep media moderately moist at all times
Penstemon barbatus var. paecox	Pristine®	5.8-6.2/ 3.5-5	75-80°F (24-27°C)	65-75°F (18-24°C)	Long Day Facultative	Beneficial	6-8	35-40°F (1.6-4.4°C)	200-250	Keep media moderately moist with mild dry cycles
Penstemon hartwegii	PepTalk®, Super Star	5.8-6.2/ 3.5-5	75-80°F (24-27°C)	65-75°F (18-24°C)	Long Day Obligate	First Year Flowering	N/A	N/A	200-250	Keep media moderately moist with mild dry cycles
Perovskia atriplicifolia	Jelena, Zasha	5.6-6.2/ 2.0-3.5	75-80°F (24-27°C)	65-75°F (18-24°C)	Long Day Facultative	First Year Flowering	6-8	35-40°F (1.6-4.4°C)	150-200	Allow media to dry moderately between thorough waterings
Perovskia atriplicifolia	Various	5.6-6.2/ 2.0-3.5	75-80°F (24-27°C)	65-75°F (18-24°C)	Long Day Facultative	First Year Flowering	6-8	35-40°F (1.6-4.4°C)	150-200	Allow media to dry moderately between thorough waterings
Phlox paniculata	Early®	5.5-6.2/ 3.5-5	75-80°F (24-27°C)	65-75°F (18-24°C)	Long Day Facultative	First Year Flowering	N/A	N/A	175-250	Keep media moderately moist with mild dry cycles
Phlox paniculata	Flame™	5.5-6.2/ 3.5-5	75-80°F (24-27°C)	65-75°F (18-24°C)	Long Day Facultative	First Year Flowering	N/A	N/A	175-250	Keep media moderately moist with mild dry cycles



Pinching	PGR 1	PGR 2	Pests	Disease	Tips	ppp/Timing Quarts (wks)	ppp/Timing 1 GAL (wks)	ppp/Timing 2 to 3 GAL (wks)
Yes	3750 ppm B-Nine (85% Daminozide) + 6-8 ppm Sumagic (0.05% Uniconazole) tank mix		Aphids, whitefly, spider mites	Botrytis, downey mildew, powdery mildew	At 3/4 of final size, apply PGR to maintain full habit and compact growth.	N/A	1ppp/9-12	3ppp/11-13
Yes	2500 ppm B-Nine (85% Daminozide)		Aphids, whitefly, spider mites	Botrytis, downey mildew, powdery mildew		N/A	1ppp/9-12	3ppp/11-13
Yes	3750 ppm B-Nine (85% Daminozide) + 6-8 ppm Sumagic (0.05% Uniconazole) tank mix		Aphids, whitefly, spider mites	Botrytis, downey mildew, powdery mildew	At 3/4 of final size, apply PGR to maintain full habit and compact growth.	N/A	1ppp/9-12	3ppp/11-13
Yes	None			Downey mildew, botrytis	Do not allow soil to dry out. Use ONLY products labeled for edible crops.	1ppp/6-8	1ppp/8-10	3ppp/10-12
No	5-6 ppm Sumagic (0.05% Uniconazole)	2500 ppm B-Nine (85% Daminozide)	Aphids, whitefly, spider mites	Botrytis, downey mildew, powdery mildew	Apply PGR's at finish.	N/A	1ppp/4-5	3ppp/5-8
Yes	None		Aphids, whitefly	Botrytis, stem rot, powdery mildew	Sensitive to cold temps. Use ONLY products labeled for use with edible crops	1ppp/4-6	3ppp/5-8	N/A
Yes	None		Aphids, whitefly	Botrytis, stem rot, powdery mildew	Sensitive to cold temps. Use ONLY products labeled for use with edible crops	1ppp/4-6	3ppp/5-8	N/A
Yes	None		Aphids, whitefly	Botrytis, stem rot, powdery mildew	Sensitive to cold temps. Use ONLY products labeled for use with edible crops	1ppp/4-6	3ppp/5-8	N/A
Yes	5-6 ppm Sumagic (0.05% Uniconazole)	2500 ppm B-Nine (85% Daminozide)	Aphids, whitefly	Botrytis, root and stem rot, downey mildew	Watch for chlorosis, use a micronutrient package if needed. Grow on the cooler side	1ppp/4-6	3ppp/5-8	N/A
Yes	3-6 ppm Sumagic (0.05% Uniconazole)	1500-2500 ppm B-Nine (85% Daminozide) if needed.	Aphids, spider mites	Botrytis, bacterial leaf spot	Maintain high EC's. Use micronutrients as needed. Leach if needed	N/A	1ppp/8-10	3ppp/9-12
Yes	5-6 ppm Sumagic (0.05% Uniconazole)	2500 ppm B-Nine (85% Daminozide)	Aphids, spider mites	Botrytis, bacterial leaf spot	Maintain high EC's. Use micronutrients as needed. Leach if needed	N/A	1ppp/8-10	3ppp/9-12
Yes	B-Nine (85% Daminozide) 2500-3750 ppm	Sumagic (0.05% Uniconazole) 5-15ppm	Aphids, whitefly, spider mites	Botrytis	Apply PGRs when flowers begin to form to avoid stretch.	N/A	1ppp/9-12	3ppp/11-13
Yes	B-Nine (85% Daminozide) 2500-3750 ppm	Sumagic (0.05% Uniconazole) 5-15ppm	Aphids, whitefly, spider mites	Botrytis	Apply PGRs when flowers begin to form to avoid stretch.	N/A	1ppp/9-12	3ppp/11-13
No	None		Aphids, whitefly, spider mites	Root rot, bacterial leaf spot, powdery mildew	Proper spacing, air circulation, and high EC helps prevent diseases and promote branching. Preventative fungicides recommended	N/A	1ppp/9-12	3ppp/11-13
No	None		Aphids, whitefly, spider mites	Root rot, bacterial leaf spot, powdery mildew	Proper spacing, air circulation, and high EC helps prevent disease/ promote branching. Preventative fungicides recommended	N/A	1ppp/9-12	3ppp/11-13

Culture | Finishing

Botanical Name	Cultivar	Soil pH/EC Range (via SME) in mS	Optimum Temp Day (F/C)	Optimum Temp night (F/C)	Daylength to Flower	Vernalization to Flower	Vernalization Timing (wks)	Vernalization Temp Range	Fertilizer (ppm N)	Watering
Phlox paniculata	Flame™ Pro	5.5-6.2/ 3.5-5	75-80°F (24-27°C)	65-75°F (18-24°C)	Long Day Facultative	First Year Flowering	N/A	N/A	175-250	Keep media moderately moist with mild dry cycles
Phlox subulata	Spring®	5.5-6.2/ 2.0-3.5	45-55°F (7-13°C)	35-45°F (2-7°C)	Short Day	Required	6-8	35-40°F (1.6-4.4°C)	100-150	Keep media moderately moist with mild dry cycles
Phlox subulata	Spring® Late	5.5-6.2/ 2.0-3.5	45-55°F (7-13°C)	35-45°F (2-7°C)	Short Day	Required	6-8	35-40°F (1.6-4.4°C)	100-150	Keep media moderately moist with mild dry cycles
Phlox hybrida	Woodlander™	5.5-6.2/ 2.0-3.5	45-55°F (7-13°C)	35-45°F (2-7°C)	Short Day	Required	6-8	35-40°F (1.6-4.4°C)	100-150	Keep media moderately moist with mild dry cycles
Phlox divaricata	Blue Moon, Chattahoochee, May Breeze	5.5-6.2/ 2.0-3.5	75-80°F (24-27°C)	65-75°F (18-24°C)	Short Day	Required	6-8	35-40°F (1.6-4.4°C)	175-250	Keep media moderately moist with mild dry cycles
Phlox bifida	Fort Hill	5.5-6.2/ 2.0-3.5	45-55°F (7-13°C)	35-45°F (2-7°C)	Short Day	Required	6-8	35-40°F (1.6-4.4°C)	100-150	Keep media moderately moist with mild dry cycles
Phlox subulata	Various	5.5-6.2/ 2.0-3.5	45-55°F (7-13°C)	35-45°F (2-7°C)	Short Day	Required	6-8	35-40°F (1.6-4.4°C)	100-150	Keep media moderately moist with mild dry cycles
Rosmarinus officinalis	Gorizia, Prostratus, Tuscan Blue	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	65-75°F (18-24°C)	Foliage	Foliage	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Salvia nemorosa	Noble	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-200	Keep media moderately moist with mild dry cycles
Salvia nemorosa	Caramia	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-200	Keep media moderately moist with mild dry cycles
Salvia nemorosa	Midnight	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-200	Keep media moderately moist with mild dry cycles
Salvia nemorosa	Salute®	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-200	Keep media moderately moist with mild dry cycles
Salvia nemorosa	Spring King,	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-200	Keep media moderately moist with mild dry cycles
Salvia nemorosa	Spring King Mini	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-200	Keep media moderately moist with mild dry cycles
Salvia nemorosa	Clarity, Noche	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-200	Keep media moderately moist with mild dry cycles



Pinching	PGR 1	PGR 2	Pests	Disease	Tips	ppp/Timing Quarts (wks)	ppp/Timing 1 GAL (wks)	ppp/Timing 2 to 3 GAL (wks)
No	None		Aphids, whitefly, spider mites	Root rot, bacterial leaf spot, powdery mildew	Proper spacing, air circulation, and high EC helps prevent disease/ promote branching. Preventative fungicides recommended	N/A	1ppp/9-12	3ppp/11-13
No	None		Aphids, whitefly, spider mites	Root rot, bacterial leaf spot, powdery mildew	Proper spacing, air circulation, and high EC helps prevent disease/ promote branching. Preventative fungicides recommended	1ppp/6-8	1ppp/9-12	3ppp/11-13
No	None		Aphids, whitefly, spider mites	Root rot, bacterial leaf spot, powdery mildew	Proper spacing, air circulation, and high EC helps prevent disease/ promote branching. Preventative fungicides recommended	1ppp/6-8	1ppp/9-12	3ppp/11-13
No	None		Aphids, whitefly	Powdery mildew, downey mildew	Grow cool to promote compact growth. Apply PGR's as needed. Use preventative fungicides as needed	1ppp/15-18	1ppp/20- 23	3ppp/11-13
No	None		Aphids, whitefly, spider mites	Root rot, bacterial leaf spot, powdery mildew	Grow cool to promote compact growth. Apply PGR's as needed. Use preventative fungicides as needed	1ppp/6-8	1ppp/9-12	3ppp/11-13
No	None		Aphids, whitefly	Powdery mildew, downey mildew	Grow cool to promote compact growth. Apply PGR's as needed. Use preventative fungicides as needed	1ppp/15-18	1ppp/20- 23	3ppp/11-13
No	B-Nine (85% Daminozide) 2500-3750 ppm	Sumagic (0.05% Uniconazole) 5-15ppm	Aphids, whitefly	Powdery mildew, downey mildew	Grow cool to promote compact growth. Apply PGR's as needed. Use preventative fungicides as needed	1ppp/15-18	1ppp/20- 23	3ppp/11-13
Yes	None		Aphids, whitefly	Bacterial leaf spot, downey mildew, powdery mildew	Grow warm. Watch for bacterial leaf spot. Use ONLY products labeled for edible crops	1ppp/4-6	1ppp/6-8	3ppp/8-10
Yes	6-8 ppm Sumagic (0.05% Uniconazole)	2500-3750 ppm B-Nine	Aphids, whitefly	Botrytis, bacterial leaf spot, root and stem rot	Avoid overwatering. Long days promote flowering. Cool temps help keep compact growth	N/A	1ppp/6-7	3ppp/7-8
Yes	2500-3750 ppm B-Nine (85% Daminozide) as needed	2-3 ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphids, whitefly	Botrytis, bacterial leaf spot, root and stem rot	Avoid overwatering. Long days promote flowering. Cool temps help keep compact growth	N/A	1ppp/9-12	3ppp/11-13
Yes	6-8 ppm Sumagic (0.05% Uniconazole)	2500-3750 ppm B-Nine	Aphids, whitefly	Botrytis, bacterial leaf spot, root and stem rot	Avoid overwatering. Long days promote flowering. Cool temps help keep compact growth	N/A	1ppp/6-7	3ppp/7-8
Yes	2500-3750 ppm B-Nine (85% Daminozide) as needed	2-3 ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphids, whitefly	Botrytis, bacterial leaf spot, root and stem rot	Avoid overwatering. Long days promote flowering. Cool temps help keep compact growth	N/A	1ppp/9-12	3ppp/11-13
Yes	2500-3750 ppm B-Nine (85% Daminozide) as needed	2-3 ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphids, whitefly	Botrytis, bacterial leaf spot, root and stem rot	Avoid overwatering. Long days promote flowering. Cool temps help keep compact growth	N/A	1ppp/9-12	3ppp/11-13
Yes	2500-3750 ppm B-Nine (85% Daminozide) as needed	2-3 ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphids, whitefly	Botrytis, bacterial leaf spot, root and stem rot	Avoid overwatering. Long days promote flowering. Cool temps help keep compact growth	1ppp/6-8	1ppp/9-12	3ppp/11-13
Yes	2500-3750 ppm B-Nine (85% Daminozide) as needed	2-3 ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphids, whitefly	Botrytis, bacterial leaf spot, root and stem rot	Avoid overwatering. Long days promote flowering. Cool temps help keep compact growth	N/A	1ppp/9-12	3ppp/11-13

Culture | Finishing

Botanical Name	Cultivar	Soil pH/EC Range (via SME) in mS	Optimum Temp Day (F/C)	Optimum Temp night (F/C)	Daylength to Flower	Vernalization to Flower	Vernalization Timing (wks)	Vernalization Temp Range	Fertilizer (ppm N)	Watering
Salvia nemorosa	Various	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-200	Keep media moderately moist with mild dry cycles
Salvia sylvestris	May Night	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-200	Keep media moderately moist with mild dry cycles
Salvia elegans	Pineapple Sage	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	100-200	Keep media moderately moist with mild dry cycles
Salvia officinalis	Celebration, Berggarten, Purpurascens, Tricolor	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	100-200	Keep media moderately moist with mild dry cycles
Saxifraga arendsii	Scenic	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Short Day	Required	6-8	35-40°F (1.6-4.4°C)	150-200	Keep media moderately moist with mild dry cycles
Scabiosa columbaria	Flutter	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Keep media moderately moist with mild dry cycles
Scabiosa columbaria	Butterfly Blue	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Beneficial	6-8	35-40°F (1.6-4.4°C)	150-200	Keep media moderately moist with mild dry cycles
Sedum telephium	Cloudburst	5.5-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Short Day	First Year Flowering	N/A	N/A	100-150	Allow media to dry moderately between thorough waterings
Sedum hybrida	Banana Split	5.5-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Short Day	First Year Flowering	N/A	N/A	100-150	Allow media to dry moderately between thorough waterings
Sedum telephium	Autumn Fire, Autumn Joy	5.5-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Short Day	First Year Flowering	N/A	N/A	100-150	Allow media to dry moderately between thorough waterings
Sedum cauticola	SunSparkler®	5.5-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	First Year Flowering	N/A	N/A	100-150	Allow media to dry moderately between thorough waterings
Sedum ewersii	ewersii	5.5-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	First Year Flowering	N/A	N/A	100-150	Allow media to dry moderately between thorough waterings
Sedum hakonense	Chocolate Ball	5.5-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	First Year Flowering	N/A	N/A	100-150	Allow media to dry moderately between thorough waterings
Sedum kamtschaticum	Variegatum	5.5-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	First Year Flowering	N/A	N/A	100-150	Allow media to dry moderately between thorough waterings
Sedum reflexum	Blue Spruce	5.5-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	First Year Flowering	N/A	N/A	100-150	Allow media to dry moderately between thorough waterings



Pinching	PGR 1	PGR 2	Pests	Disease	Tips	ppp/Timing Quarts (wks)	ppp/Timing 1 GAL (wks)	ppp/Timing 2 to 3 GAL (wks)
Yes	2500-3750 ppm B-Nine (85% Daminozide) as needed	2-3 ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphids, whitefly	Botrytis, bacterial leaf spot, root and stem rot	Avoid overwatering. Long days promote flowering. Cool temps help keep compact growth	N/A	1ppp/9-12	3ppp/11-13
Yes	2500-3750 ppm B-Nine (85% Daminozide) as needed	2-3 ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphids, whitefly	Botrytis, bacterial leaf spot, root and stem rot	Avoid overwatering. Long days promote flowering. Cool temps help keep compact growth	N/A	1ppp/9-12	3ppp/11-13
Yes	None		Aphids, whitefly	Botrytis, powdery mildew,	Avoid overwatering, keep temps above 45°F (7°C). Use ONLY products labeled for edible crops	N/A	1ppp/5-6	3ppp/6-10
Yes	2500-3750 ppm B-Nine (85% Daminozide) as needed	2-3 ppm Bonzi (0.4% Paclobutrazol) drench as needed	Aphids, whitefly	Botrytis, bacterial leaf spot, root and stem rot	Avoid overwatering. Long days promote flowering. Cool temps help keep compact growth	1ppp/6-8	1ppp/9-12	3ppp/11-13
Yes	B-Nine (85% Daminozide) 2000-3000 ppm	Sumagic (0.055% Uniconazole) 5-10 ppm	Aphids, whitefly	Botrytis, root and stem rot, bacterial leaf spot	Remove the first flush of pre- flowering buds to encourage a higher final flower count. Best grown outside	1ppp/6-8	1ppp/8-10	N/A
Yes	B-Nine (85% Daminozide) 2000-3000 ppm	Sumagic (0.055% Uniconazole) 5-10 ppm	Aphids, whitefly	Botrytis, bacterial leaf spot, root and stem rot	Remove first flush flower buds. Best grown outdoors	1ppp/6-8	1ppp/8-10	3ppp/10-12
Yes	B-Nine (85% Daminozide) 2000-3000 ppm	Sumagic (0.055% Uniconazole) 5-10 ppm	Aphids, whitefly	Botrytis, bacterial leaf spot, root and stem rot	Remove first flush flower buds. Best grown outdoors	1ppp/6-8	1ppp/8-10	3ppp/10-12
Yes	None		Aphids, fungus gnats, snails and slugs	Botrytis, root and stem rot	Run drier and use PGR's when near finish. Can hold at cooler temps	1ppp/6-8	1ppp/10-12	3ppp/14-16
Yes	None		Aphids, fungus gnats, snails and slugs	Botrytis, root and stem rot	Run drier and use PGR's when near finish. Can hold at cooler temps	N/A	1ppp/10-12	3ppp/14-16
Yes	None		Aphids, fungus gnats, snails and slugs	Botrytis, root and stem rot	Run drier and use PGR's when near finish. Can hold at cooler temps	N/A	1ppp/10-12	3ppp/14-16
Yes	None		Aphids, fungus gnats, snails and slugs	Botrytis, root and stem rot	Run drier and use PGR's when near finish. Can hold at cooler temps	1ppp/6-8	1ppp/10-12	N/A
Yes	2500- 3750 ppm B-Nine (85% Daminozide)	8-10 ppm Sumagic (0.055% Uniconazole)	Aphids, fungus gnats, snails and slugs	Botrytis, root and stem rot	Run drier and use PGR's when near finish. Can hold at cooler temps	1ppp/6-8	1ppp/10-12	N/A
Yes	None		Aphids, fungus gnats, snails and slugs	Botrytis, root and stem rot	Run drier and use PGR's when near finish. Can hold at cooler temps	1ppp/6-8	1ppp/10-12	N/A
Yes	None		Aphids, fungus gnats, snails and slugs	Botrytis, root and stem rot	Run drier and use PGR's when near finish. Can hold at cooler temps	1ppp/6-8	1ppp/10-12	N/A
Yes	None		Aphids, fungus gnats, snails and slugs	Botrytis, root and stem rot	Run drier and use PGR's when near finish. Can hold at cooler temps	1ppp/6-8	1ppp/10-12	N/A

Culture | Finishing

Botanical Name	Cultivar	Soil pH/EC Range (via SME) in mS	Optimum Temp Day (F/C)	Optimum Temp night (F/C)	Daylength to Flower	Vernalization to Flower	Vernalization Timing (wks)	Vernalization Temp Range	Fertilizer (ppm N)	Watering
Sedum spurium	Tricolor	5.5-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	First Year Flowering	N/A	N/A	100-150	Allow media to dry moderately between thorough waterings
Sempervivum tectorum	Kalinda, Red Beauty, Sunset	5.5-6.2/ 0.8-2.0	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	100-150	Allow media to dry moderately between thorough waterings
Stachys byzantina	Silver Carpet	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	6-8	35-40°F (1.6-4.4°C)	150-200	Allow media to dry moderately between thorough waterings
Stevia rebaudiana		5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	50-100	Keep media moderately moist with mild dry cycles
Thymus citriodorus	Gold Lemon, Hi-Ho Silver, Lemon, Silver King	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Required to flower	6-8	35-40°F (1.6-4.4°C)	100-150	Keep media moderately moist with mild dry cycles
Thymus praecox	Elfin, Red Creeping	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Required to flower	6-8	35-40°F (1.6-4.4°C)	100-150	Keep media moderately moist with mild dry cycles
Thymus pseudolangeanus	Woolly	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Required to flower	6-8	35-40°F (1.6-4.4°C)	100-150	Keep media moderately moist with mild dry cycles
Thymus serpyllum	Pink Chintz	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Required to flower	6-8	35-40°F (1.6-4.4°C)	100-150	Keep media moderately moist with mild dry cycles
Thymus vulgaris	English	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Foliage	Foliage	N/A	N/A	100-150	Keep media moderately moist with mild dry cycles
Verbena canadensis	Homestead Purple	5.6-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Keep media moderately moist at all times
Veronica hybrida	Candela	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	First Year Flowering	N/A	N/A	150-200	Keep media moderately moist with mild dry cycles
Veronica spicata	Pink Candles, Snow Candles	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	Required	6-8	35-40°F (1.6-4.4°C)	150-200	Keep media moderately moist with mild dry cycles
Veronica spicata	Royal Candles	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	Required	6-8	35-40°F (1.6-4.4°C)	150-200	Keep media moderately moist with mild dry cycles
Veronica spicata	Giles Van Hees	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Obligate	Required	6-8	35-40°F (1.6-4.4°C)	150-200	Keep media moderately moist with mild dry cycles
Vinca minor	Various	5.8-6.2/ 2.0-3.5	65-75°F (18-24°C)	55-65°F (13-18°C)	Long Day Facultative	Required to flower	6-8	35-40°F (1.6-4.4°C)	100-150	Keep media moderately moist with mild dry cycles
Viola cornuta	Spring Morning	5.8-6.3/ 2.0-3.5	45-55°F (7-13°C)	35-45°F (2-7°C)	Short Day	Beneficial	6-8	35-40°F (1.6-4.4°C)	200-250	Keep media moderately moist with mild dry cycles



Pinching	PGR 1	PGR 2	Pests	Disease	Tips	ppp/Timing Quarts (wks)	ppp/Timing 1 GAL (wks)	ppp/Timing 2 to 3 GAL (wks)
Yes	None		Aphids, fungus gnats, snails and slugs	Botrytis, root and stem rot	Run drier and use PGR's when near finish. Can hold at cooler temps	1ppp/6-8	1ppp/10-12	N/A
No	None		Aphids, fungus gnats, snails and slugs	Botrytis, root and stem rot	Run drier and use PGR's when near finish. Can hold at cooler temps	1ppp/6-8	1ppp/10-12	N/A
No	2500 ppm B-Nine (85% Daminozide)	5-8 ppm Sumagic (0.055% Uniconazole)	Aphids, whitefly, fungus gnats	Botrytis, powdery mildew	Apply PGRs as flowers begin to emerge.	1ppp/8-10	1ppp/12-14	3ppp/13-15
Yes	None		Aphids, whitefly	Botrytis, powdery mildew	Avoid overwatering, keep temp above 45°F (7°C). Use ONLY products labeled for edible crops	1ppp/4-6	1ppp/5-6	3ppp/6-10
Yes	None		Aphids, snails and slugs	Botrytis, root rot	Tone with cool night temps. Use ONLY products labeled for edible crops	1ppp/4-6	3ppp/6-8	N/A
Yes	None		Aphids, snails and slugs	Botrytis, root rot	Tone with cool night temps. Use ONLY products labeled for edible crops	1ppp/4-6	3ppp/6-8	N/A
Yes	None		Aphids, snails and slugs	Botrytis, root rot	Tone with cool night temps. Use ONLY products labeled for edible crops	1ppp/4-6	3ppp/6-8	N/A
Yes	None		Aphids, snails and slugs	Botrytis, root rot	Tone with cool night temps. Use ONLY products labeled for edible crops	1ppp/4-6	3ppp/6-8	N/A
Yes	None		Aphids, snails and slugs	Botrytis, root rot	Tone with cool night temps. Use ONLY products labeled for edible crops	1ppp/4-6	3ppp/6-8	N/A
Yes	2500 ppm B-Nine (85% Daminozide)	3-5 ppm Bonzi (0.4% Paclobutrazol) drench	Aphids, whitefly, thrips	Botrytis, powdery mildew	Pinch and PGR as needed to control lateral growth. Grow cool at finish	1ppp/4-6	3ppp/5-8	3ppp/6-8
Yes	6-8 ppm Sumagic (0.055% Uniconazole)	2500-3750 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, thrips	Botrytis, powdery mildew, bacterial leaf spot	Proper spacing, preventative fungicide, and good nutrition will help control leaf spot	N/A	1ppp/9-12	3ppp/11-13
Yes	6-8 ppm Sumagic (0.055% Uniconazole)	2500-3750 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, thrips	Botrytis, powdery mildew, bacterial leaf spot	Proper spacing, preventative fungicide, and good nutrition will help control leaf spot	N/A	1ppp/9-12	3ppp/11-13
Yes	6-8 ppm Sumagic (0.055% Uniconazole)	2500-3750 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, thrips	Botrytis, powdery mildew, bacterial leaf spot	Proper spacing, preventative fungicide, and good nutrition will help control leaf spot	N/A	1ppp/9-12	3ppp/11-13
Yes	6-8 ppm Sumagic (0.055% Uniconazole)	2500-3750 ppm B-Nine (85% Daminozide) as needed	Aphids, whitefly, thrips	Botrytis, powdery mildew, bacterial leaf spot	Proper spacing, preventative fungicide, and good nutrition will help control leaf spot	N/A	1ppp/9-12	3ppp/11-13
Yes	5-6 ppm Sumagic (0.055% Uniconazole)	2500 ppm B-Nine (85% Daminozide)	Aphids, whitefly, fungus gnats	Botrytis, bacterial leaf spot	Tends to demand higher micro's. Supplement as needed. Pinch/trim to control growth and fill	1ppp/6-8	1ppp/9-12	3ppp/11-13
No	Bonzi (0.4% Paclobutrazol) 5-40ppm spray	5-8 ppm Sumagic (0.055% Uniconazole)	Aphids, whitefly, fungus gnats	Botrytis, alternaria, pythium	Best grown in high light, cool temps. Cooling at 40 F 4-5 weeks required for best flowering	1ppp/6-8	1ppp/9-12	3ppp/11-13



Dropped Variety	PAT	Substitution Variety	PAT
Coreopsis Permatread™ Sweet Tart	81378	Coreopsis Fall Sensation Quartz	82451
Delosperma Wheels of Wonder® Limoncello	81541	Delosperma King of Desert™ Yellow	84119
Delosperma Wheels of Wonder® Orange Imp	81594	Delosperma King of Desert™ Gold	84123
Delosperma Wheels of Wonder® Purple	81595	Delosperma Wheels of Wonder® Violet Wonder	81567
Delosperma Wheels of Wonder® Salmony Pink 2.0	81599	Delosperma King of Desert™ Peach	84124
Delosperma Wheels of Wonder® White Imp	81593	Delosperma King of Desert™ White	84129
Dianthus Beauties Annabelle	73260	Dianthus Rock White	17990
Dianthus Beauties Kate	73243	Dianthus Rock Purple	17989
Dianthus Beauties Melina	73283	Dianthus Rock Purple	17989
Dianthus Beauties Rebecca	73282	Dianthus Rock Purple	17989
Dianthus Beauties Rousey	73296	Dianthus Cliff Pink Spot	17995
Dianthus Beauties Sherise	73294	Dianthus Cliff Red	17994
Dianthus Odessa Pierrot	73239	Dianthus Arabella Purple	17988
Dianthus Odessa Pure	73240	Dianthus Sprint Angie	17519
Dianthus Odessa Red	73241	Dianthus Special Bacco	17535
Dianthus Odessa Twiggy	73280	Dianthus Arabella Pink	17836
Dianthus Sunflor Allura	73213	Dianthus Arabella Pink	17836
Dianthus Sunflor Bowie	73279	Dianthus Sprint Pink	17530
Dianthus Sunflor Cody	73278	Dianthus Sprint Salmon	17526
Dianthus Sunflor Cosmos	73218	Dianthus Sprint White	17521
Dianthus Sunflor Dynamite	73252	Dianthus Sprint Bordeaux	17831
Dianthus Sunflor Esta	73219	Dianthus Sprint Pink Shades	17531
Dianthus Sunflor Faganza	73220	Dianthus Sprint Dark Pink	17986
Dianthus Sunflor Finesse	73228	Dianthus Sprint Pink	17530
Dianthus Sunflor Hailey	73286	Dianthus Sprint Dark Pink	17986
Dianthus Sunflor Red Allura	73214	Dianthus Sprint Bright Red	17428
Dianthus Sunflor Skylar	73287	Dianthus Sprint Dark Pink	17986
Dianthus Sunflor Vivre	73237	Dianthus Sprint Pink Shades	17531
Dianthus Sunflor Vulcano	73225	Dianthus Sprint Dark Red	17534
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Viola Celestial Blue Moon	88302	Viola Spring Morning Pearl Lilac	88358
Viola Celestial Northern Lights	88304	Viola Spring Morning Glow	88347
Viola Celestial Starry Night	88305	Viola Spring Morning Sunny Purple	88365
Viola Columbine	88318	Viola Blue Moon	88302
Viola Etain	88300	Viola Spring Moring Sunny Lavender	88356
Viola Magnifi Scent® Sunny Jim	88316	Viola Spring Morning Bumblebee	88338
Viola Magnifi Scent® Sweetheart	88317	Viola Spring Morning Pearl Lilac	88358

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Dianthus Beauties Kahori	73212	Dianthus Odessa Nicky	73272	Dianthus Sunflor Kaylee	73263
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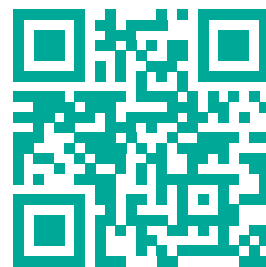
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