

MUMS & LINERS

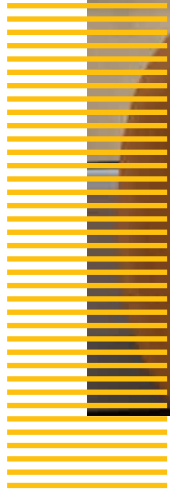
FALL
2024



JOLLY FARMER

WE'RE LOOKING FORWARD TO ANOTHER YEAR

growing together





CONTENTS

2 FALL
COLORS

22 ABOUT
MUMS

24 ASTERS

26 VITAMUM
MUMS

32 BELGIAN
MUMS

40 SYNGENTA
MUMS

48 MUM
COMBOS

50 BLOOM
TIME

52 CULTURE

 ©2024 JOLLY FARMER PRODUCTS INC All rights reserved. This catalog is protected by copyright. No part of this catalog may be reproduced in any form or by any means, including photocopying, without written permission from Jolly Farmer Products Inc. Items may not be exactly as pictured.

FALL COLORS

OTHER IDEAS FOR FALL BLOOMING!

Artemisia

Makana™ Silver - The soft, billowy silver foliage adds texture to mixed containers. Use as an accent or in the garden. Plant in well drained soil for best results. Deer resistant. Height 24". Spread 36". Not hardy. Propagation prohibited.

Sea Salt - A beautiful display of soft, velvety silver gray leaves. Provides a wonderful accent to other flowering plants. Use in combinations, landscapes or outside perennial gardens. Loves hot and dry conditions. Height 6-10". Zone 5. Propagation prohibited.

SunFern™ Olympia - A novel variety with fern-like leaf textures in a dark green color with red stems. Perfect as an accent plant in mixed containers or in the landscape as a groundcover. Thrives in full sun but will tolerate up to 1/2 a day of shade. Plants are non-invasive. This herbaceous perennial is low maintenance and drought tolerant. Height 16-18". Spread 14-18". Zone 4. Propagation prohibited.

Bidens

Blazing™ Ring of Fire - Fire-red petals with glowing yellow center. Mounding habit with flowers across the whole top. Early.

Golden Empire™ - Full, round, extra large blooms. Upright bushy habit. Spread 18-24".

Bracteantha

Cottage - An old-fashioned, cottage garden type of flower. Lovely addition to mixed plantings and cutting gardens. Also works as a flowering pot crop in 4" or larger. Height 8-12". Propagation prohibited.

Bronze

Yellow

Granvia - Impressive, huge 3-5" blooms feel like crispy paper. Mildew resistant. These vigorous plants are best grown in gallons or larger. Perfect for containers, large patio pots, gardens and landscapes. Not recommended for smaller pots. These guys are heavy drinkers! Height 18-30". Spread 18-24".

NEW Crimson Sun

Gold - yellow flowers with centers that turn orange with maturity

Pink - bubblegum pink. Smaller flowers and vigor.



ARTEMISIA MAKANA SILVER



ARTEMISIA SEA SALT



ARTEMISIA SUNFERN OLYMPIA



BIDENS BLAZING RING OF FIRE



BIDENS GOLDEN EMPIRE



BRACTEANTHA COTTAGE BRONZE



BRACTEANTHA GRANVIA CRIMSON SUN



BRACTEANTHA COTTAGE YELLOW



BRACTEANTHA GRANVIA GOLD



BRACTEANTHA GRANVIA PINK



CALENDULA CHEERS TANGERINE



CALENDULA CHEERS YELLOW



CALIBRACHOA CALITASTIC BRIGHT RED



CALIBRACHOA CALITASTIC BUTTER



CALIBRACHOA CALITASTIC CAPPUCCINO



CALIBRACHOA CALITASTIC PUMPKIN SPICE



CALIBRACHOA CHAMELEON ATOMIC ORANGE



CALIBRACHOA CALITASTIC SUNSPOT



CAREX AMAZON MIST



CALIBRACHOA OMBRE SUNRISE



CAREX BRONCO



CAREX RED ROOSTER

Calendula

Cheers™ - Cheerful, daisy-like plants with a tremendous color show, even in summer. Works well as a stand alone and mixes really well with others. High resistance to powdery mildew. Try in hanging baskets, window boxes or containers. Height 12-14". Propagation prohibited.

Tangerine - vivid orange

Yellow

Calibrachoa

Calitastic® - A compact, incredibly uniform series from the breeders of Celebration. Very early flowering, all will bloom at 11 hours critical daylength. Perfect for 4", 6" pots or compact hangers. Height 6-12". Spread 8-12".

Bright Red

Butter - yellow

Cappuccino - white with shades of red and orange and a distinct yellow star pattern

Pumpkin Spice

NEW Sunspot - Drive by color! Bright golden yellow outlines a red/orange center.

Chameleon® Atomic Orange - Shades of orange, melon and yellow. A special series with flowers that continually change throughout the season, responding to light levels, day-length, and other environmental factors. Mounding, semi-trailing series with outstanding garden performance and season-long durability. Height 9-12". Spread 12-16".

Ombre™ Sunrise - Shades of orange, peach and yellow. A series that shows a range of colors on each plant. Masses of large flowers will bloom in 10 hour days. Its well branched, semi-trailing habit is good for pots, combinations, hanging baskets and groundcovers. Height 12-14". Spread 12-16".

Carex

NEW Amazon Mist - Variegated, light-medium green grass with twisting tips and arching habit will create graceful, flowing mounds of texture in your plantings. Mix with other grasses and plants in containers and beds. Height 6-12". Spread 14".

NEW Bronco - Finely textured bronze/brown colored grass will spill over slopes and walls, in containers, and at your garden's edge, giving off a flowing affect. Height 6-12". Spread 14". Zones 6-10.

Red Rooster - Curled, red-bronze tips on tall erect plants. Height 24". Zones 7-9. Kieft ColorGrass®.

Celosia

Kelos® - Kick the fall season off with Kelos! A breeding breakthrough with day length neutral celosia. Simply shines in the full sun landscape with brilliant plumes; very heat tolerant, lots of side blooms, providing season-long color. Versatile plant can be enjoyed indoors or out. Height 15-18". Propagation prohibited.

Atomic Violet - dark violet plumes, dark green leaves.

Fire Lime - lime plumes, green leaves.

Fire Magenta - magenta plumes, dark leaves.

Fire Orange - orange plumes, green leaves.

Fire Red - red plumes, green leaves.

Fire Scarlet - scarlet red plumes, dark leaves.

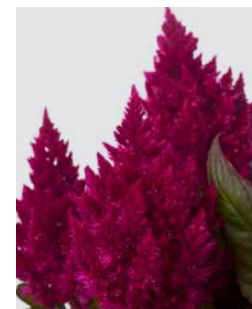
Fire Yellow - yellow plumes, green leaves.



CELOSIA KELOS ATOMIC VIOLET



CELOSIA KELOS FIRE LIME



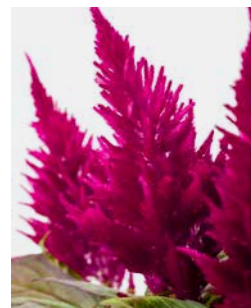
CELOSIA KELOS FIRE MAGENTA



CELOSIA KELOS FIRE ORANGE



CELOSIA KELOS FIRE RED



CELOSIA KELOS FIRE SCARLET



CENTAUREA CHROME FOUNTAIN

Centaurea

NEW Chrome Fountain - A heat loving and drought tolerant plant with silvery-white upright, arching foliage. Perfect for summer programs. Use in combos or hanging baskets as a "thriller". Height 12-18".

Chlorophytum

Green Edge - (formerly *Variiegatum*) Long, slender, graceful leaves curve from central rosettes and have a central white stripe. Popular as a hanging basket and lovely in a shady planter.

White Edge - (formerly *Ocean*) A beautiful spider plant with long green-white striped leaves. A great indoor plant. Fast growing and easy to care for. Produces delicate white blossoms. Height up to 2'.



CELOSIA KELOS FIRE YELLOW



CHLOROPHYTUM GREEN EDGE

Coreopsis

Double the Sun - Large semi-double bright yellow flowers are excellent in heat and drought. Ideal for quart and 1 gallon productions. Upgrades Coreopsis, Early Sunrise. Height 12-14". Spread 12-14".

Solanna™ - Fully double blooms in abundance from early spring until fall. Suitable for pot crops and mixed containers, as well as perennial borders. Height 8-10". Zones 4-9. Propagation prohibited.

Golden Sphere - golden yellow

NEW Sunset Bright - medium sized, semi-double deep yellow flowers have a dark red ring around the center



CHLOROPHYTUM WHITE EDGE



COREOPSIS DOUBLE THE SUN



COREOPSIS SOLANNA GOLDEN SPHERE



COREOPSIS SOLANNA SUNSET BRIGHT



DRACAENA INDIVISA SPIKES



DURANTA CUBAN GOLD



EASYLINER BONFIRE



ECHINACEA CHEYENNE SPIRIT



ECHINACEA GREEN TWISTER



ECHINACEA POLLYNATION MAGENTA



ECHINACEA MAGNUS



ECHINACEA POW WOW WHITE



ECHINACEA POW WOW WILDBERRY

Dracaena

Indivisa "Spikes" - Attractive plant with erect habit and sword shaped, smooth leaves. Grows up to 2' tall in the garden. Plan on 12-16 weeks to finish from plugs. Use for accents in planters or baskets. While it is unlikely you want this for your fall program, some growers plant plugs in the late summer for early Spring containers. Allow 26 weeks lead time to fill your orders. Pending seed availability.

Duranta

Fast growing and good branching. Upright habit. Beautiful component for mixed containers.

Cuban Gold - Gold foliage with purple/blue flowers. Excellent heat and drought tolerance. Great for patio containers and landscapes and will last all summer long. You can use them in 4" pots up to 10-12" containers. Do not let the plants wilt; keep evenly moist. Height up to 2' tall and 2' wide.

Easyliner

Bonfire - SuperCal premium offers the same excellent performance as SuperCal, with larger flowers, an improved habit and a more mounded, refined growth. Height 14-20". Spread 14-22".

Echinacea purpurea

Cheyenne Spirit - First-year bloomer. Features sought-after shades of red, orange, purple, scarlet, cream, yellow, and white. Extremely well-branched plants, suitable for gallons and quarts. Drought tolerant, full sun. Attractive to birds and butterflies. Height first year 18-24", following years 22-30". Zones 4-10.

Green Twister - Lime green with purple center and petals curving forward makes this an outstanding echinacea. Height 24-36". Zones 3-9.

Magnus - Produces huge reddish-pink cone flowers with deep orange centers. Easy to grow and withstands drought, humidity and harsh winter conditions. A great pollinator plant. Height 36". Spread 18-24". Zones 4-9.

NEW PollyNation Magenta - Beautiful magenta flowers stand out on the patio, in the landscape or as a bedding plant in the garden. Has a well branched habit with excellent heat and drought tolerance. Height 24-28". Spread 16-20". Zones 4-9.

PowWow® - Breakthrough breeding brings more flowers per plant in both the first and second year. White and Wild Berry are well matched in habit and bloom time. Height 20-24". Bloom size 3-4". Zones 4-10.

White

Wild Berry - AAS Winner

Sombrero® - Extremely floriferous with great branching habit and brilliant colors perfect for summer and fall. Flat flower form, not as deeply reflexed, truly resembles a sombrero. Excellent habit for pot production for a great show at retail. Series is well matched for habit and timing. Grown from virus-indexed tissue culture stock. Good winter hardiness, excellent branching. Height 18-20". Zones 4-9.

Fiesta Orange

Lemon Yellow - brilliant golden yellow

Salsa Red

Tres Amigos - opens in a peachy-coral. Ages to rose, and fades to burgundy.

SunSeekers - First-year bloomer. SunSeekers features a unique array of flower colors on a single plant! Produces masses of flowers with vibrant colors that don't fade. Has exceptional vigor and a dense habit. Attracts butterflies and hummingbirds. Deer resistant. Use in beds, borders, containers or mass plantings. Height 18-24". Spread 18-24". Zones 4-9.

NEW Golden Sun

NEW Mineola - orange/tangerine flowers with a large brown cone

Rainbow - shades of coral, lavender, pink and salmon

NEW Salmon - starts out with shades of pink, salmon, rose and yellow with a green cone, then matures to a soft pink with crimson cones

NEW Sweet Fuchsia - fuchsia/pink petals with green cones that will darken with age

NEW Tequila Sunrise - two-toned golden yellow with orange/red centers



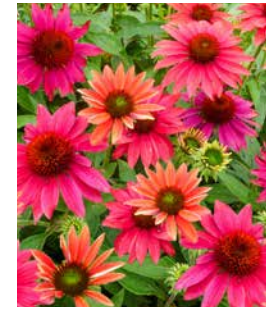
ECHINACEA SOMBRERO
FIESTA ORANGE



ECHINACEA SOMBRERO
LEMON YELLOW



ECHINACEA SOMBRERO
SALSA RED



ECHINACEA SOMBRERO
TRES AMIGOS



ECHINACEA SUNSEEKERS GOLDEN SUN



ECHINACEA SUNSEEKERS MINEOLA



6



ECHINACEA SUNSEEKERS
RAINBOW



ECHINACEA SUNSEEKERS
SALMON



ECHINACEA SUNSEEKERS SWEET FUCHSIA



ECHINACEA SUNSEEKERS TEQUILA SUNRISE



BLECHNUM SILVER LADY



NEPHROLEPIS BISERRATA MACHO



NEPHROLEPIS EXALTATA BOSTON BLUE BELLS



NEPHROLEPIS EXALTATA BOSTON TRUE



NEPHROLEPIS EXALTATA COTTON CANDY



NEPHROLEPIS EXALTATA FLUFFY RUFFLES



NEPHROLEPIS EXALTATA MONTANA



NEPHROLEPIS EXALTATA NEVADA



NEPHROLEPIS EXALTATA POM POM



NEPHROLEPIS OBLITERATA EMERALD QUEEN

Ferns

Blechnum Silver Lady - Silver Lady looks more like a palm tree than a fern, very upright. Can be used indoors or out. Use as a pot plant, not suitable for hanging baskets. Height 36-60". Spread 24-36".

Nephrolepis biserrata Macho - Broad, dark green foliage with an open habit and rather leathery leaves. Useful in the landscape or as a house plant. Can be grown in wetter conditions than other ferns. Use in 10" or larger pots or baskets. Height 18-20".

Nephrolepis exaltata

Boston Blue Bells - The most popular Boston type in Europe. Fast growing and very uniform. Tight compact habit, making it excellent for mass production. Good for 3-12" pots. Height 20".

Boston True - The original tried and true, and the "Grandfather" of many of the other Nephrolepis varieties on the market! Fast growing with large fronds. Good for all pot sizes. Height 20".

Cotton Candy - The cotton candy fern has soft, fluffy chartreuse-colored fronds. It can be planted indoors or outdoors in shady areas in large containers or hanging baskets. Height 20". Spread 2-3".

Fluffy Ruffles - A real beauty, with very closely drawn fronds which create a fluffy appearance and almost leathery texture. Good for all pot sizes. Height 12".

Montana - This is a very strong Boston variety with dark green fronds and compact uniform growth. Hardly any yellow leaves at the heart of the plant, and very few rhizomes...easy to keep looking good! Does well in all pot sizes or baskets.

Nevada - An improved strain of Boston fern, with less shedding, less thatch and fewer runners so it keeps more tidy. Suitable for 6-10" production. A very strong selection from the true Boston. Height 20". Propagation prohibited.

Pom Pom - Ball-shaped habit resembles a cheerleader's pom pom. Suitable for pot plants and hanging baskets. Bright green color. Height 20". Propagation prohibited.

Nephrolepis obliterated Emerald Queen - A sterile form of Sword Fern, very hardy and strong. Excellent for indoor use and outdoors. Leaflets are a little broader than Sword Fern. Under high light conditions, habit is more erect. Can withstand full sun. Useful in 4-12" containers.

Flowering Cabbage

Osaka "Dynasty" - Large wavy edged leaves. Color intensifies with frost. 10-12" tall.

NEW IQ Pink Bicolor

IQ Red

NEW IQ White

Mix

Pigeon - Looks like large, exotic flowers this series has a robust habit and are perfect for fall and spring gardens. 8-12" tall.

Purple

Red

Victoria

White

Song Bird - This series has excellent doubleness with a compact habit. It's high leaf (petal) count creates a beautiful plant. Each leaf has a slight wave giving the plants an exquisite, refined presentation. Plants are more upright than the Pigeon series, allowing for better drainage of water, reducing disease pressure. 8-12" tall.

Pink

Red

White

Mix

Flowering Kale

Heavily fringed leaves. Color intensifies with frost, and lasts long into the cold season.

Bor - Intensely curled, leaves are both ornamental and delicious. Best in early spring or fall, since it loves cool weather. 24-26" tall.

Scarlet

Winter

Crystal - Ruffled heads with glossy, wavy leaves grow uniformly. A kale variety with loose leaves shows off brilliant color. Excellent for fall and early winter programs. Height 10-12"

NEW Deep Red

NEW Pink

NEW Snow



FLOWERING CABBAGE
OSAKA IQ PINK BICOLOR



FLOWERING CABBAGE
OSAKA IQ RED



FLOWERING CABBAGE
OSAKA IQ WHITE



FLOWERING CABBAGE
OSAKA MIX



FLOWERING CABBAGE
PIGEON PURPLE



FLOWERING CABBAGE
PIGEON RED



FLOWERING CABBAGE
PIGEON VICTORIA



FLOWERING CABBAGE
PIGEON WHITE



FLOWERING CABBAGE
SONG BIRD PINK



FLOWERING CABBAGE
SONG BIRD RED



FLOWERING CABBAGE
SONG BIRD WHITE



FLOWERING CABBAGE
SONG BIRD MIX



FLOWERING KALE
BOR SCARLET



FLOWERING KALE
BOR WINTER



FLOWERING KALE CRYSTAL
DEEP RED



FLOWERING KALE CRYSTAL
PINK



FLOWERING KALE CRYSTAL SNOW



FLOWERING KALE DINOSAUR



FLOWERING KALE GLAMOUR RED



FLOWERING KALE KAMOME BRIGHT RED



FLOWERING KALE KAMOME BRIGHT WHITE



FLOWERING KALE KAMOME PINK



FLOWERING KALE NAGOYA RED



FLOWERING KALE NAGOYA ROSE



FLOWERING KALE NAGOYA WHITE



FLOWERING KALE PEACOCK RED



FLOWERING KALE PEACOCK WHITE



FLOWERING KALE RED RUSSIAN



FLOWERING KALE YOKOHAMA RED



FLOWERING KALE YOKOHAMA WHITE



FLOWERING KALE YOKOHAMA MIX

Dinosaur - long and slender leaves, reaching 2 feet long with a heavily savoyed texture that looks almost bubbled. Color ranges from blue-green to dark forest-green to nearly black.

Glamour Red - Shiny red inner leaves, shiny dark green outer leaves. Grown for its unique shiny leaves which create a dramatic contrast to the colorful rosette of center leaves, looking like a large, exotic flower. 10-12" tall.

Kamome - Perfect for fall and winter gardens, it adds color, texture and interest to both landscapes and containers. An ideal season extender as it tolerates frost and light freezes, and cool night temperatures bring out its color. 8-12" tall.

NEW Bright Red

NEW Bright White

Pink

Nagoya "Emperor" - Produces attractive, colourful fringed leaves and is effective for cool season bedding as well as combination containers. Height 8-10".

Red

Rose

White

Mix

Peacock - Works well in wet conditions as the open, feathery leaves are less likely to trap and hold water than fringe and round-leaf types. Height 8-12".

Red

White

Red Russian - Dark green, oak-leaf cut leaves with red/ purple hues that intensify after frost. It has a tender, sweet taste when cooked, but it is also good when eaten fresh. Very hardy and disease resistant. 12-18" tall.

Yokohama - features very unique, extra-curlly fringed leaves that form nicely mounded plants. Yokohama looks great planted alone, in garden beds or in mixed containers. This outstanding series also offers improved cold tolerance. 5-7" tall.

Red

White

Mix

Gaillardia

Arizona - Excellent branching habit. Great for hot weather and a top selling perennial. Suitable for pot crops, mixed containers and perennial beds. Height 8-10". Zones 2-10.

Red Shades

Sun - AAS Winner. Red and yellow bicolor.

Mesa™ - A vigorous F1 hybrid. Well branched and early blooming, suitable for pot crops. Height 16". Zones 5-9.

Bright Bicolor - Yellow-red bicolor.

Peach - Yellow-orange bicolor.

Hedera

"English Ivy" - This hardy accent plant makes a great addition to mixed planters or baskets. Can also be grown as a foliage basket for winter indoor use. Does okay in low light. Feed lightly.

Glacier - Gray-green with white variegation. Zones 6-11.

Gold Child - Gray-green with creamy-gold variegation. A popular hedera choice. Height 6-12". Spread 2-3'. Zones 4-10.

Golden Ingot - Small, triangular leaves are dark olive green with light yellow speckling. Height 6-8". Zones 5-9.

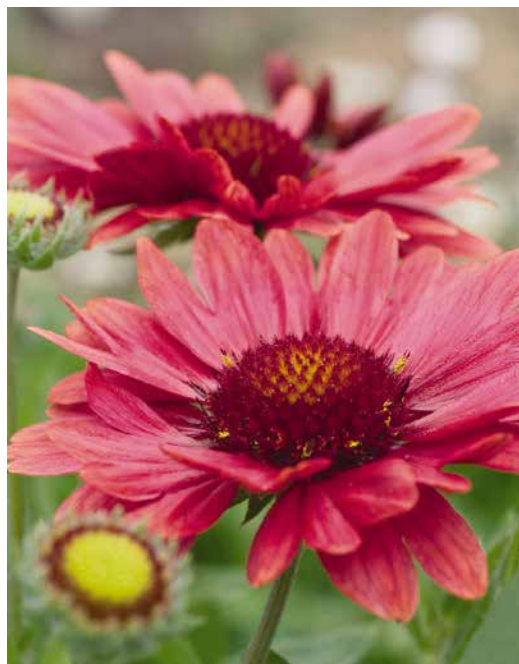
Grunpfeil - Teardrop-shaped leaves are gray-green with silver-green veination. Reddish stems add interest. Stunning selection with excellent hardiness. Height 8-10". Zones 5-10.

Luzii - Irregular leaf patterns in a heavily mottled yellow-green color. An all-season performer with a compact, trailing habit that will climb if supported. Best suited for 4-6" pots for indoor use, or in baskets, containers and in the garden. Indoor height 8-10". Outdoor height up to 40". Spread 20". Zone 4.

Needlepoint - Green sharply-pointed leaves. Zones 6-11.

Teardrop - Pointy teardrop-shaped leaves are glossy dark green. Strong compact plants. Height 8-10". Zones 5-10.

NEW Yellow Ripple - Showy, yellow-green leaves have 3-5 points each, and are perfect for partly sunny and shaded areas. Can be used as a ground cover or over walls and hills for a cascading effect. Also great as a "spiller" in baskets. Height 3-6". Can grow up to 30' long. Zones 5-9.



GAILLARDIA ARIZONA RED SHADES



GAILLARDIA ARIZONA SUN



GAILLARDIA MESA BRIGHT BICOLOR



GAILLARDIA MESA PEACH



HEDERA GLACIER



HEDERA GOLD CHILD



HEDERA GOLDEN INGOT



HEDERA GRUNPFEIL



HEDERA LUZII



HEDERA NEEDLEPOINT



HEDERA TEARDROP



HEDERA YELLOW RIPPLE



HELIANTHUS SUNBELIEVABLE BROWN EYED GIRL



HELIANTHUS SUNFINITY



HELIOPSIS SUNSTRUCK



HELIANTHUS SUNMAZING

Helianthus

NEW SunBelievable Brown Eyed Girl - Large vibrant blooms are a sunny yellow color with rustic red surrounding the large brown center. Produces over 1,000 flowers in one season, from Spring to Fall. This non-invasive sunflower is multi-branching and heat tolerant. Excellent for borders and containers or cut flowers. Height 32". Spread 40". Propagation prohibited.

Sunfinity™ - Take your sunflower crop to a whole new level! Sunfinity produces loads of blooms over the entire season...not just "one and done" like typical sunflowers. Plant grows to 36-48" tall. Be sure to see detailed culture information sheet, including pinching and pgr instructions. Try Sunfinity for Summer color! Note: Not available after July 1st.

NEW SunMazing - 4" flowers sit on heavily branched plants that continuously rebloom all season long. The large plants are ideal for late spring and early summer planters, or landscape. Heat and drought tolerant. In the landscape, height and spread is 3' by 3'. In containers, they are more restricted so expect a shorter plant.

Heliopsis

Sunstruck - Compact mounded habit, with big showy bright yellow flowers on variegated foliage. Stays in flower all summer long. Good for 1 gallon containers or in gardens in well drained soil. Likes full sun. Height 14-16". Width 12-14". Zones 4-9. Propagation prohibited.



Heuchera

Carnival - A beautiful palette of foliage awaits in the Carnival series. These heat tolerant villosa types make an excellent choice for shady beds or containers. Note that temperatures affect the coloration. Will also display blooms for up to 5 months. Height 10-12". Zones 4-9. Propagation prohibited.

Cinnamon Stick

Plum Crazy

Rose Granita

Indian Summer - Indian Summer has a wide range of colors to choose from. This compact series has outstanding heat and sun tolerance, and can be grown with minimal shade. Use in combinations, gardens and containers. Height 16". Zones 4-9. Propagation prohibited.

Blackberry

Cherryberry

Limeberry

Mulberry

Orangeberry

Silverberry

Splashberry

Magma - This gorgeous plant starts off bright pink or purple, then turns vibrant red and burgundy in Autumn. Its leaves can grow up to 8" across. Has a tidy habit with clusters of pink blossoms on 30" stems, appearing in early summer. Height 14" (when not in bloom). Spread 24". Zones 4-9. Propagation prohibited.

Jamesbrittenia

Stardom™ Goldstar - A relative of Bacopa with better heat tolerance. Continues to flower throughout the summer. Upright habit. Suitable for beds, baskets, and mixed containers. Height 8-12". Propagation prohibited.

Lamiastrum

variegatum - Silver spotted with yellow flowers in spring. Makes attractive ground cover or accents in containers. Height 12". Spread 18-24". Zones 4-8.



HEUCHERA CARNIVAL CINNAMON STICK



HEUCHERA CARNIVAL PLUM CRAZY



HEUCHERA CARNIVAL ROSE GRANITA



HEUCHERA INDIAN SUMMER BLACKBERRY



HEUCHERA INDIAN SUMMER CHERRYBERRY



HEUCHERA INDIAN SUMMER LIMEBERRY



HEUCHERA INDIAN SUMMER MULBERRY



HEUCHERA INDIAN SUMMER ORANGEBERRY



HEUCHERA INDIAN SUMMER SILVERBERRY



HEUCHERA INDIAN SUMMER SPLASHBERRY



HEUCHERA MAGMA



BACOPA JAMESBRITTENIA GOLDSTAR



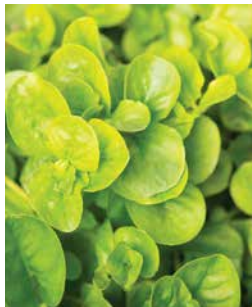
LAMIASTRUM VARIEGATUM



LAMIUM ANNE GREENAWAY



LAMIUM BEACON SILVER



LYSIMACHIA NUMMULARIA KARAT



MISCANTHUS SINENSIS GOLD BREEZE



PENNISETUM CHERRY SPARKLER



PENNISETUM FIREWORKS



PENNISETUM RUBRUM



PENNISETUM SKY ROCKET

Lamium

A vigorous plant used to fill in mixed containers, baskets, or window boxes. Good as a ground cover, too. Likes bright light and partial shade. Good in 4-10" pots. Hardy perennial - Zones 3-8.

Anne Greenaway - Tricolor green, silver, and chartreuse leaves with small lavender flowers. Height 8". Spread 18".

Beacon Silver - Pink flowers. Height 6-12".

Lysimachia

nummularia Karat - Greenish-gold leaves will turn bright yellow in full sun. Trails 24".

Miscanthus

sinensis Gold Breeze - "Zebra Grass" - This variegated "Maiden Hair" has graceful arching green stems with gold bands and feathery red plumes in late summer. Gold Breeze will add beautiful color wherever they are planted, whether in a perennial garden, or as smaller shrubs. They can also be used for cut or dried flowers. Height 60-72" (up to 84" with flower). Spread 12-36". Zones 5-9.

Pennisetum

Cherry Sparkler - The variegated foliage of this grass is white and dark pink, with a thin green stripe. The center of the plant is mostly white with pink color starting halfway down the blade. The plumes are dark pink to burgundy. Needs intense sunlight and full maturity to display full color. Height 36-48". Zones 9-11. Propagation prohibited. Part of ItSaul Plants' Celebration series.

Fireworks - The first variegated purple fountain grass. The midvein is the typical burgundy color and is flanked by hot pink margins! Needs intense sunlight and full maturity to display full color. Foliage height to 24". Zones 9-10. Propagation prohibited. Part of ItSaul Plants' Celebration series. *Note: Only available until June 10th.*

rubrum - "Purple Fountain Grass" A perfect fall grass with its deep red foliage and dramatic purple-red plumes. Flowers displayed all summer long. Beautiful in the landscape or mixed containers. Needs intense sunlight and full maturity to display full color. Height 3-4'. Annual except in Zones 9-10. *Note: Only available until June 10th.*

Sky Rocket - Bright white and green variegated foliage with plumes that are white with a pink blush. Stands out in the landscape and in containers. Needs intense sunlight and full maturity to display full color. Height 48". Zones 9-10. Propagation prohibited. Part of ItSaul Plants' Celebration Series.

Petchoa

SuperCal® Premium - This series brings you the same great flower power that you've come to love with the added benefit of a more mounded, controlled habit. Early blooms and medium vigor.

Caramel Yellow

Cinnamon

French Vanilla

Pearl White - white with small dark eye

Purple Dawn - vibrant purple with deep veins

NEW Red Maple - iridescent scarlet to orange glow

Sunset Orange - shades of orange and yellow

Yellow Sun - bright golden yellow with darker veins



PETCHOA SUPERCAL PREMIUM
CARAMEL YELLOW



PETCHOA SUPERCAL PREMIUM
CINNAMON



PETUNIA SUPERCAL PREMIUM
FRENCH VANILLA



PETCHOA SUPERCAL PREMIUM
PEARL WHITE



PETCHOA SUPERCAL PREMIUM
PURPLE DAWN



PETCHOA SUPERCAL PREMIUM RED MAPLE



PETCHOA SUPERCAL PREMIUM
ORANGE SUNSET



PETCHOA SUPERCAL PREMIUM
YELLOW SUN



PETUNIA CASCADIAS AUTUMN
MYSTERY

Petunias

Cascadias™ - Vegetative petunias known for their excellent garden performance. Used extensively for hanging baskets, window boxes, and landscaping, they quickly make an impressive mass planting under full sunlight. From early spring to first frost, they continue to grow and bloom profusely. Feed well for best performance. Tolerate both high temperatures as well as light frost. Height 12-14". Spread 18-24".

Autumn Mystery - mocha with purple eye, large flower, more compact than some Cascadias.

Indian Summer - shades of yellow, peach, orange. Early, large blooms.

Crazytunia® - A collection of novelty colors, sure to please. Very unstable color patterns give a great deal of variation on these descriptions. Often the first flower is closer to a solid color. Height 12-14". Spread 18-24".

Black Mamba - velvety black. Medium earliness and vigor, semi-upright.

Frisky Orange - orange w yellow star. *Contains A1DFR gene (GMO).*

NEW Gingersnap - *Contains A1DFR gene (GMO).* Dark red with nearly black centers.

Razzmatazz - bright shades of magenta with a yellow star.



PETUNIA CASCADIAS INDIAN
SUMMER



PETUNIA CRAZYTUNIA BLACK
MAMBA



PETUNIA CRAZYTUNIA FRISKY ORANGE



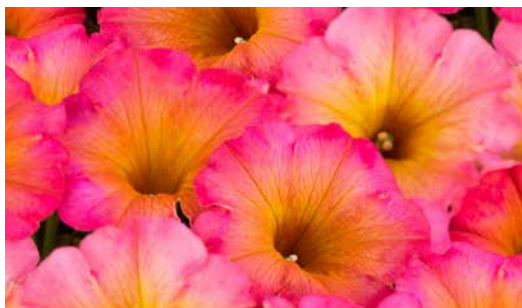
PETUNIA CRAZYTUNIA GINGERSNAP



PETUNIA CRAZYTUNIA RAZZMATAZZ



PETUNIA FLOWER SHOWER GOLDEN HARVEST



PETUNIA MAYAN SUNSET



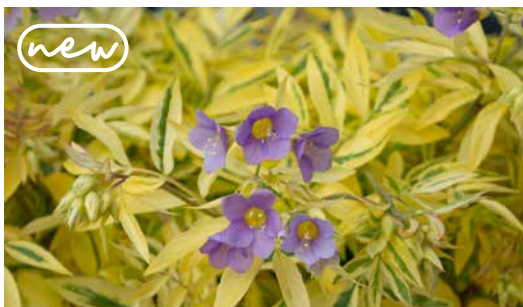
PETUNIA PERFECTUNIA MANDARIN



PETUNIA RAY BLACK



PETUNIA RAY SUNFLOWER



POLEMONIUM GOLDEN FEATHERS



POTHOS HAWAIIAN



POTHOS MARBLE QUEEN

Flower Shower - Stunning blooms pour over beds and containers in an array of eye-catching colors. Best in hanging baskets or the garden. Semi-trailing habit with incredible weather tolerance. Non-stop flowering from early Spring through Fall. Height 12-14". Spread 20-28".

Golden Harvest - contains A1DFR gene (GMO)

Mayan Sunset - formerly Crazytunia

NEW Perfectunia® Mandarin - Contains A1DFR gene (GMO). A perfect petunia for pot crops and color bowls. Compact with good basal branching. Very early to bloom with large, single flowers. Also suitable for "mounded" baskets. Height 8-12". Spread 9-14".

Ray™ - A beautiful, mounding habit just covers itself in large flowers. All will bloom early in the spring for the start-up of your season. Would look fantastic in color bowls. Height 6-10". Spread 10-12".

Black - large, black flower, best we've seen.

Sunflower - black with yellow star, medium flower size.

Polemonium

NEW Golden Feathers - An exciting gold-green variegated polemonium that will stand out in your shade gardens. Golden Feathers has bluish/purple flowers that will bloom late spring and into the summer months. Attracts bees. Deer resistant. Height 6-8". Spread 12-14". Zones 5-9. Propagation prohibited.

Pothos

Hawaiian - Glossy green, sometimes with cream and yellow variegation

Marble Queen - Attractive white and green variegated pattern. More light will maintain its unique coloring.

Rudbeckia

Amarillo Gold - AAS, and 2020 Fleuroselect Gold Medal Winner! An eye-catcher with large 4-6" golden flowers with green centers. This bushy, compact plant is earlier to flower and shows color from spring to fall, giving a wow factor in any garden. Great for containers, or landscapes. Deadheading is recommended. Height 12-18". Tender perennial.

NEW American Gold Rush - AAS Winner. 2023 Perennial Plant of the Year. Displays masses of beautiful deep yellow, daisy like flowers with a brown/black center cone. This upright, clump forming variety will last all summer in landscapes and gardens. Works for borders, containers, and cut flowers. Deer and rabbit resistant. Polintator friendly. Height 22-27". Spread up to 40" if given enough room. Zones 4-9. Propagation prohibited.

Autumn Colors - Fleuroselect Quality Mark - gigantic 5-7" flowers have variable red rings and brown centers. Very striking! Blooms all summer. Tender perennial. Garden height 20-24".

Cherry Brandy - Unique cherry-red blooms with dark rings and black tones. Excellent for beds, borders and cut flowers. Flowers are 3-4" in diameter. Height 24". Tender perennial.

Goldsturm (fulgida) - Large, golden yellow flowers on 48" plants. Zones 4-8.

Indian Summer - AAS Winner. Large 6-9" golden yellow single and semi-double blooms. Outstanding basal-branching habit that does not require staking. Early flowering. Outstanding garden performance and also used as cut flower. Tender perennial. 36" tall.

NEW Pawnee Spirit - A compact sister to Denver Daisy, Pawnee Spirit is yellow with a larger dark center. Outstanding garden performance with great rain tolerance. Very early and uniform flowering. Height 20". Tender perennial.

Vinca minor

A spreading groundcover plant, excellent for shade and moist areas, especially good for erosion control on hillsides.

Bowles - "Common Periwinkle, Common Myrtle" Small glossy green leaves and small blue flowers. 4-6" tall, spreads up to 3'. Zones 4-9.

major Maculata - An attractive accent plant similar to Vinca Vine, with a dark green leaf and yellow central veining. Does best with some shade.



RUDBECKIA AMARILLO GOLD



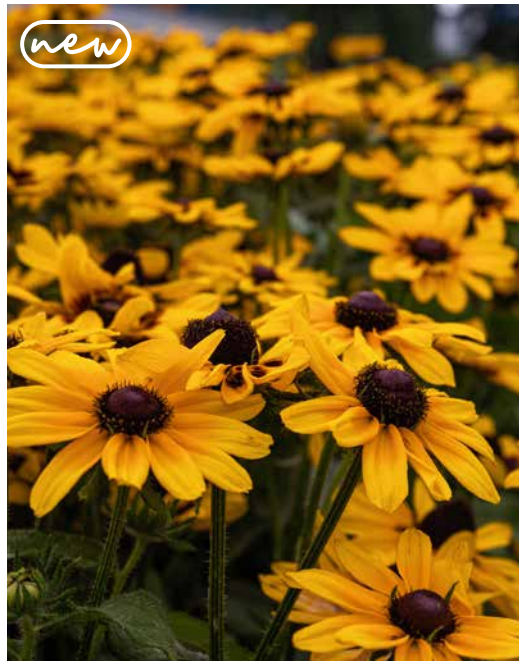
RUDBECKIA AUTUMN COLORS



RUDBECKIA CHERRY BRANDY



RUDBECKIA AMERICAN GOLD RUSH



RUDBECKIA PAWNEE SPIRIT



RUDBECKIA GOLDSTURM



RUDBECKIA INDIAN SUMMER



VINCA BOWLES



VINCA MAJOR MACULATA



VINCA VINE MAJOR
VARIEGATED



VINCA MINOR ILLUMINATION



ZINNIA PROFUSION DOUBLE
FIRE



ZINNIA PROFUSION DOUBLE
HOT CHERRY



ZINNIA PROFUSION RED YELLOW BICOLOR



ZINNIA PROFUSION DOUBLE YELLOW



ZINNIA PROFUSION DOUBLE MIX

major Variegated - Ever popular variegated vine. Does best with some shade.

minor Illumination - Bright chartreuse centers surrounded by dark green - an accent that "illuminates" any combination. Zone 5.

Zinnia

Profusion Red Yellow Bicolor - National AAS Gold Medal Winner. Judges comments: "Wow, Wow, Wow!" This gorgeous zinnia starts the season with a bold vibrant red center ring surrounded by golden yellow outer petals, and ages into soft, beautiful shades of apricot, salmon and dusty rose. "Just so cute!"

Profusion Double - Fully double flower on the popular Profusion plant. Larger flowered, but all the great qualities of the original series.

Fire

Hot Cherry - AAS Winner, non-fading

Yellow

Mix



SUCCULENTS

Crassula

A group of succulents, used for groundcover in dry areas, or for mixed containers, potted plants, or bonsai. Extremely heat and drought tolerant, but sensitive to cold.

Campfire - fleshy leaves in a "propeller" pattern turn a bright flame color under cool night conditions. Height up to 12". Prefers some light shade.

Hobbit - Strong tubular "fingers" of foliage make an interesting texture in succulent gardens. May grow very large in warm climates. Useable as a house plant with adequate lighting. Do not overwater. Height 1-3'.

ovata minor - "Baby Jade" - Branching shrub with stout stems. Rounded, glossy green, thick leaves may mature with reddish edges. In warm climates this variety produces star-shaped white flowers in autumn. Tender soft succulent - will not tolerate frost, but is extremely drought tolerant. Great for living wreaths, weddings, or indoor spaces. Garden height 12-24".

NEW ovata Sunshine - Branching succulent with stout stems. Rounded, glossy yellow, thick leaves may mature with reddish edges. Excellent heat and drought tolerance. Garden height 12-24".

perforata variegata - "Variegated String of Buttons or Variegated Necklace Vine" is a small shrubby, sprawling succulent. Stems are erect and fleshy, later becoming prostrate and woody. The oval leaves are gray-green, edged in pink. Flowers are very small, star-shaped and white. This fast-growing variety is moderately easy and should be planted in a bed with bright morning sun or afternoon sunlight. Height 3.5".

Echeveria

An easy to grow succulent that is great for rock gardens. Looks wonderful in small dish gardens combined with other succulents or cactus. Also great for green roofs.

Caribbean Blue - Silvery blue rosette with flushes of pink on the edges when grown in full sun. Height 4-8". Spread 4-8".



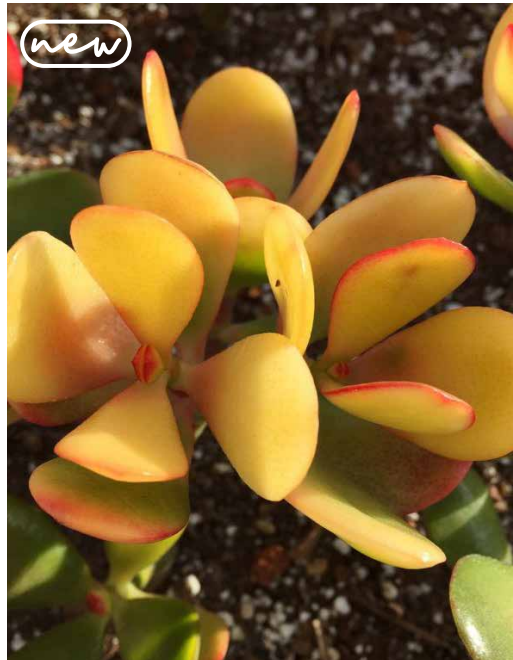
CRASSULA CAMPFIRE



CRASSULA HOBBIT



CRASSULA OVATA MINOR



CRASSULA OVATA SUNSHINE



CRASSULA PERFORATA VARIEGATA



ECHEVERIA CARIBBEAN BLUE



ECHEVERIA CORAL REEF CHOCOLATE



ECHEVERIA CORAL REEF PINK



ECHEVERIA DIFFRACTENS



ECHEVERIA LILACINA



Echeveria Perle von Nürnberg



Echeveria Prolifica



Echeveria Purple Perle von Nürnberg



Echeverria Red Prince



Echeveria Subsessilis Blue



Echeveria Vertis



Echeveria Mixed



Kalanchoe Desert Rose



Kalanchoe Marmorata



Portulaca Molokiniensis

Coral Reef - This series has leaves with thin ruffled edges which add great texture and color to combinations or rock gardens. Recommended for 4-6" containers or as a stand alone. Plant in well drained soil. Height 10". Spread 12".

NEW Chocolate - dark shiny brown with red ruffled edges

NEW Pink - gray/green with soft pink edges

Diffractens - Rosy gray with spade-shaped leaves

Lilacina - Wide gray leaves with pointy ends.

Perle von Nürnberg - Broad gray pointed leaves.

Prolifica - Green with red tips.

NEW Purple Perle von Nürnberg - Broad deep purple pointed leaves. More intense purple coloring than the others in this series.

NEW Red Prince - A fast growing Echeveria with large burgundy/red leaves that will fade to a pleasing matte color over time. Large bell-shaped orange flowers will bloom late spring. Height 4-6". Spread 8".

subsessilis Blue - Chalk blue chubby leaves.

Vertis - formerly called Elegans. Delicate, rounded, florets of milky green.

Mixed - Our mix of several echeverias for your ordering convenience.

Kalanchoe

Desert Rose "Red Lips" - white flowers with a pink blush and edged in dark pink. Big, oval, succulent leaves are gray-green with pink edge. **Warning:** all parts of Desert Rose are poisonous and should be kept out of reach of children and animals.

marmorata - "Penwiper Plant" A striking, erect, ground-cover succulent with glossy leaves spotted with purple. Flowers in the spring, producing starry white blooms sometimes tinged in pink. Height 16".

Portulaca

Molokiniensis - This interesting, soft succulent has glossy lime green, cupped leaves, stacked on an upright stem. Produces clusters of small, lemon-yellow, cup shaped flowers. Height 12".

Sedum Creeping

(SEE-dum) | “Stone Crop”

Versatile sedums are very drought tolerant. Excellent for fairy gardens, perennial beds, and green roofs.

Coral Reef - A wonderful spreading mat of small, rounded, deep green leaves with tiny star-shaped yellow flowers that appear in the summer. Will tolerate light traffic. Excellent for rock gardens or as a lawn substitute for small to mid sized areas. Height 3-4". Spread 10-12". Zones 4-9.

dasphyllum Major - Low carpet of rounded, blue-gray leaves excellent for ground cover, fairy gardens, green roofs and rock gardens. Height 2-4". Spread 8-12". Zones 5-9.

Lemon Ball - Succulent needle like foliage in bright chartreuse. Bright yellow blooms. Height 6-8". Zones 3-11.

NEW Lizard - A sedum from seed that grows very fast, forming a mat of tiny pointed leaves. Starts out gray-green, but will turn a rosy color in high light as it matures. Drought and heat tolerant. Its compact, spreading habit works well in beds, containers, or as a ground cover. Height 4". Spread 8-10". Tender perennial, zones 8-10.

makinoi Ogon - “Golden Japanese Stonecrop” An attractive, tiny-leaved, bright gold, ground-cover sedum with a mounding habit. Its red stems make a nice contrast to the foliage. This sedum is heat tolerant and should be planted in sun to part sun. Height 2-4". Zones 7-9.

morganianum Burrito- “Burro’s Tail” Extremely ornamental with its distinctive blue-green foliage. Because of its pendulous stems, this succulent resembles an animal tail. This long-lived shrub grows upright at first then becomes trailing as it gets larger. Smooth, lance-shaped leaves form an overlapping spiraling pattern. Produces small pink/red flowers in summer. Grow in part sun to shade, heat tolerant. Looks best when watered to allow the foliage to plump up. It can hang up to 4 feet.

Prima Angelina - A sport of Angelina, Prima Angelina has a vivid golden color with a denser and more compact, spreading habit. The fleshy, needle-like leaves make a wonderful show in your rock gardens. Great in mixed containers or as a groundcover. Deer resistant. Heat and drought tolerant. Height 3-6". Spread 6-8". Zones 4-9.

sieboldii - (see-BOL-de-eye) Nicely rounded leaves with pink margins. Cold temperatures darken the contrast. Mounding, “fountain” habit. Especially pretty in mixed containers with other dwarf plants. Height 6-10". Zones 3-9.

NEW Sunsparkler Plum Dazzled - Dark purple foliage with cherry colored flowers. A groundcover sedum type that is outstanding in mass plantings. Height 6-8". Spread 16-18". Zones 4-9. Propagation prohibited.



SEDUM CORAL REEF



SEDUM DASPHYLLUM MAJOR



SEDUM LEMON BALL



SEDUM CREEPING LIZARD



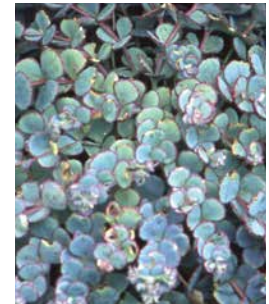
SEDUM MAKINOI OGON



SEDUM MORGANIANUM BURRITO



SEDUM PRIMA ANGELINA



SEDUM SIEBOLDII



SEDUM SUNSPARKLER PLUM DAZZLED



SEDUM WHAT A DOOZIE



SEDUM MIXED



SEMPERVIVUM COBWEB



SEMPERVIVUM ROYAL RUBY



SEMPERVIVUM SUNSET



SEMPERVIVUM SUPERSEMPMS ONYX



SEMPERVIVUM MIXED



SENECIO BLUE CHALK FINGERS



SENECIO CRASSISIMUS



SENECIO ROWLEYANUS STRING OF PEARLS

What a Doozie - Stands out all season long with its attractive white and green variegated foliage. Spreading habit. Blush pink and creamy pink flowers appear in the fall. Height 2-5". Spread 11-14". Zones 5-9.

Mixed - Our mix of several creeping sedum for your ordering convenience.

Sempervivum

"Hens and Chicks, Houseleeks"

Easy to grow and adaptable to many conditions, Hens and Chicks are well loved by gardeners for use in containers, rockeries, grave sites and even rooftops! They spread and multiply and seem to fulfill their name sempervivum - "always living". Drought tolerant. Does not display flowers until the 3rd year. Zones 3-7.

Cobweb - Ruby tinted rosettes of foliage adorned with spider-web like filaments.

Royal Ruby - Forms mats of wine-red foliage.

Sunset - Lime green with maroon tips. Very showy.

NEW SuperSemps Onyx - Produces large 8" single rosettes in as little as 20 weeks. Stunning geometric leaves are a dark mahogany-black.

Mixed - Our assortment of Sempervivum for your ordering convenience.

Senecio

Blue Chalk Fingers - Dramatic texture plant with long, silvery blue, needle-like, succulent leaves. Upright habit reaches up to 24" tall. Hardy in zone 7 and the South.

crassisimus - *"Vertical Leaf Senecio"* An erect evergreen subshrub. It has wide, thick purple stems that hold flat waxy, silver-gray obovate leaves. The edges have vivid purple margins that face outward. Flowers during the winter with flower stems reaching up to 2 feet. The flowers are open branched yellow daisies. This succulent should be planted in full sun, in well drained soil. Can take cooler temperatures. Height 2-3 feet.

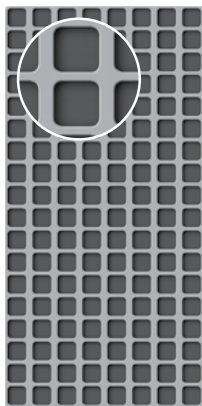
rowleyanus - *"String of Pearls"* is a creeping, succulent vine with pearl-like foliage. Vigorous and easy to reproduce. Poisonous if consumed. Height under 6" with massively long "strings of pearls". Not hardy.

A FEW NOTES
about mums

Tray Sizes

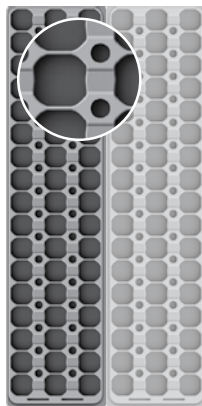
144 TRAY

20x10" true-size tray. Guaranteed count indicated per variety in "count per tray" column on price list. Available for asters and mums.



2 X 51 TRAY

20x10" true-size tray. Two strips of 51 each sold as 50 count. One strip counts as 1/2 tray toward volume discount. Available for asters and mums.



Mums

For all mums, the timing chart is based on Stage 1 flowering, as shown here.

One tag per plant is provided. All mum varieties are protected. Propagation prohibited.

You can choose between an un-pinched 51 ct tray or an un-pinched 144 ct tray.





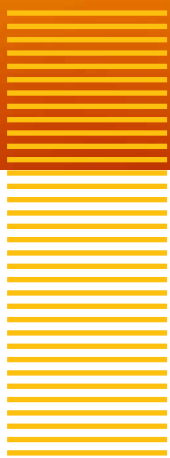
DROPS & subs

DROPPED

Addison White
Antica Bronze
Brittany Yellow
Champagne
Christina Red
Emelda Purple
League Pink
Mefisto Purple
Mildred White
Mimosa
Party Yellow
Stacy Pink
Tina Gold

SUB

Alexa White
Veritas Orange
Skylar Yellow
Strawberry Ice
Tabitha Scarlet
Nikki Dark Pink
Homerun Pink
Aduro Purple
Pamela White
Homerun Yellow
Sing Yellow
Chelsey Pink
Mary Yellow





ASTERS

asters

AVAILABLE IN
51 AND 144
COUNT TRAYS



BELIEVER PURPLE
Vigor Med



DAYS BLUE
Vigor Med



DRAGON BLUE
Vigor Med



HAZY DARK PINK
Vigor Med



HENRY I BLUE
Double | Vigor Med



HENRY I PINK
Double | Vigor Med



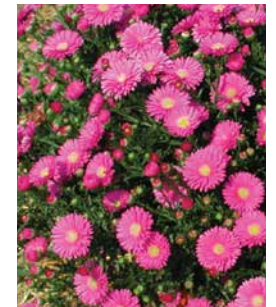
HENRY I PURPLE
Double | Vigor Med



HENRY III PINK
Double | Vigor Med



HENRY III PURPLE
Double | Vigor Med



MAGIC PINK
Vigor Med



MAGIC PURPLE
Vigor Med



MARIE III DARK PINK
Double | Vigor Sm



PETER III BLUE
Double | Vigor Med



PUFF WHITE
Vigor Med



MONTAUK DAISY



SHOWMAKERS BLUE BAYOU
Vigor Med



SHOWMAKERS PRETTY PINK
Vigor Med



A FEW NOTES

Aster cuttings are “pinched”. One tag per plant.
Propagation prohibited. Asters are an ideal fall-blooming perennial, complementing a fall mum program by adding the colors blue and raspberry. These hardy asters perform well in pots, tubs, and perennial gardens. Cultural practices are similar to garden mums, making it simple to expand your line.

VARIETY	NORTH*	SOUTH*
Dragon Blue	36.0	34.0
Magic Pink	36.0	34.0
Magic Purple	36.0	34.0
Puff White	36.0	34.0
Henry I Blue	36.5	34.5
Henry I Pink	36.5	34.5
Henry I Purple	36.5	34.5
Believer Purple	37.0	35.0
Days Blue	37.0	35.0
Hazy Dark Pink	37.0	35.5
Marie III Dark Pink	38.5	37.5
Henry III Pink	39.0	37.5
Henry III Purple	39.0	37.5
NEW Showmakers Arctic White	39.0	37.5
Showmakers Blue Bayou	39.0	37.5
Showmakers Pretty Pink	39.0	37.5
Peter III Blue	39.0	38.0
Montauk Daisy	39.5	39.5

*CHART SHOWS NATURAL RESPONSE

KEY TO PHOTO CAPTIONS
Bloom Description | Vigor Sm-Lg



vitamin

BRONZE / ORANGE



APPLE CIDER
Med-Lg | Vigor Med



BALANCE BRONZE BICOLOR
Med-Lg | Vigor Lg



BANQUET RED BICOLOR
Med | Vigor Med



CRUSH ORANGE
Med | Vigor Med



DITTO DARK ORANGE
Sm-Med | Vigor Sm/Med



FLAME BICOLOR
Med | Vigor Med



GOAL LIGHT BRONZE
Lg | Vigor Med



GOAL ORANGE
Lg | Vigor Med



HOMERUN ORANGE
Lg | Vigor Med



HOMERUN SCARLET
Lg | Vigor Med



JAMBOREE RED YELLOW
Med-Lg | Vigor Med



JOLLY DARK BRONZE
Med | Vigor Med



KARAMUM 24 BRONZE
Lg | Vigor Med



KICK ORANGE
Med-Lg | Vigor Med/Lg



LIVELY BRONZE BICOLOR
Med | Vigor Med



MELODY BRONZE
Med | Vigor Med



MERRY BRONZE BICOLOR
Med | Vigor Med



REEF BRONZE
Sm-Med | Vigor Med/Lg



SOLAR FLARE
Med-Lg | Vigor Med



STARSPOT
Med | Vigor Sm



SUNBLAZE FLAME
Sm-Med | Vigor Sm/Med



TIGER EYES
Lg | Vigor Lg



TOAST ORANGE
Med | Vigor Med



TOUCHDOWN ORANGE
Med-Lg | Vigor Med

VARIETY	STAGE 1 NORTH	STAGE 1 SOUTH
Solar Flare	33.0	35.0
Reef Bronze	34.0	35.0
Sunblaze Flame	34.0	35.0
Crush Orange	35.0	36.0
Flame Bicolor	35.0	36.0
Lively Bronze Bicolor	35.0	36.0
Apple Cider	36.0	37.0
Balance Bronze Bicolor	36.0	37.0
Ditto Dark Orange	36.0	37.0
Goal Light Bronze	36.0	38.0
Goal Orange	36.0	38.0
Jolly Dark Bronze	36.0	37.0
Karamum 24 Bronze	36.0	36.0
Merry Bronze Bicolor	36.0	37.0
Starspot	36.0	36.0
Touchdown Orange	36.0	37.0
Homerun Orange	37.0	38.0
Homerun Scarlet	37.0	38.0
Kick Orange	37.0	38.0
Tiger Eyes	37.0	38.0
Jamboree Red Yellow	38.0	39.0
Melody Bronze	39.0	40.0
Toast Orange	40.0	41.0
Banquet Red Bicolor	41.0	42.0

KEY TO PHOTO CAPTIONS

Bloom Size: Sm-XL | Vigor Sm-Lg



vitamin

PINK / PURPLE



BANQUET PINK BICOLOR
Med | Vigor Med



BERRY BLAST BICOLOR
Med-Lg | Vigor Sm/Med



BANQUET PURPLE
Med | Vigor Med



BUZZ LAVENDER
Med-Lg | Vigor Med/Lg



CHERRY PURPLE
Sm-Med | Vigor Sm/Med



CONCERT PURPLE
Med | Vigor Med



DARLING PINK
Lg | Vigor Med



DITTO DARK PINK
Sm-Med | Vigor Sm/Med



ECSTATIC PURPLE
Med | Vigor Med



ELATED PURPLE
Med | Vigor Med



FESTIVE PURPLE
Med | Vigor Med



HOMERUN PINK
Lg | Vigor Med



JAMBOREE PINK WHITE
Med-Lg | Vigor Med



JAMBOREE PURPLE WHITE
Med-Lg | Vigor Med



LAGOON PURPLE
Med | Vigor Med



LIVELY PINK BICOLOR
Med | Vigor Med



LUCKY PURPLE
Lg | Vigor Lg



SHORE APPLEBLOSSOM
Med | Vigor Med



STRAWBERRY ICE
Med | Vigor Med/Lg



PEPPERMINT PASSION PINK
Med | Vigor Med



TOUCHDOWN BICOLOR PINK
Med-Lg | Vigor Med



TOUCHDOWN PURPLE
Med-Lg | Vigor Med

VARIETY	STAGE 1 NORTH	STAGE 1 SOUTH
Lagoon Purple	34.0	35.0
Shore Appleblossom	34.0	35.0
Buzz Lavender	35.0	35.0
Darling Pink	35.0	36.0
Ecstatic Purple	35.0	36.0
Elated Purple	35.0	36.0
Lively Pink Bicolor	35.0	36.0
NEW Peppermint Passion Pink	35.0	36.0
Strawberry Ice	35.0	36.0
Ditto Dark Pink	36.0	37.0
Lucky Purple	36.0	37.0
Touchdown Bicolor Pink	36.0	37.0
Touchdown Purple	36.0	37.0
Cherry Purple	37.0	38.0
Homerun Pink	37.0	38.0
NEW Berry Blast Bicolor	38.0	39.0
Jamboree Pink White	38.0	39.0
Jamboree Purple White	38.0	39.0
Festive Purple	39.0	40.0
Concert Purple	40.0	41.0
Banquet Pink Bicolor	41.0	42.0
Banquet Purple	41.0	42.0

KEY TO PHOTO CAPTIONS
Bloom Size: Sm-XL | Vigor Sm-Lg



vitamin

RED / WHITE
YELLOW



BUZZ MERLOT
Med-Lg | Vigor Med/Lg



CATCH RED
Sm | Vigor Med



CHEER RED
Med | Vigor Med



CHERRY RED
Sm-Med | Vigor Sm/Med



CHILI RED
Med | Vigor Sm/Med



FIESTA RED
Med | Vigor Med/Lg



JUBILANT RED
Med | Vigor Med



POWER RED
Med | Vigor Med/Lg



SEASIDE RED
Sm-Med | Vigor Sm/Med



VOLLEY RED
Sm-Med | Vigor Sm/Med



CALM WHITE
Med | Vigor Med



CEREMONY WHITE
Med | Vigor Med



DITTO WHITE
Sm-Med | Vigor Sm/Med



FAIR WHITE
Med | Vigor Med



HOMERUN WHITE
Lg | Vigor Med



JUMP WHITE
Med-Lg | Vigor Med/Lg



TOUCHDOWN WHITE
Med-Lg | Vigor Med



BEACH YELLOW
Med | Vigor Med



BLITZ LEMON
Med-Lg | Vigor Med



CRUISE YELLOW
Med-Lg | Vigor Lg



DESIRE GOLDEN
Med | Vigor Med/Lg



DITTO YELLOW
Sm-Med | Vigor Sm/Med



GOAL YELLOW
Lg | Vigor Med



HOMERUN YELLOW IMP
Lg | Vigor Med



KARAMUM 24 GOLD
Lg | Vigor Med



SING YELLOW
Med | Vigor Med



TOUCHDOWN YELLOW
Med-Lg | Vigor Med



WHIMSY YELLOW
Med | Vigor Lg



WONDER YELLOW
Med | Vigor Med

VARIETY	STAGE 1 NORTH	STAGE 1 SOUTH
Seaside Red	34.0	35.0
Buzz Merlot	35.0	35.0
Cheer Red	35.0	36.0
Chili Red	36.0	37.0
Cherry Red	37.0	38.0
Volley Red	37.0	37.0
Catch Red	38.0	39.0
Power Red	38.0	39.0
Jubilant Red	39.0	40.0
Fiesta Red	40.0	41.0
Calm White	34.0	35.0
Ditto White	36.0	37.0
Touchdown White	36.0	37.0
Homerun White	37.0	38.0
Jump White	37.0	38.0
Fair White	39.0	40.0
Ceremony White	40.0	41.0
Beach Yellow	34.0	35.0
Cruise Yellow	34.0	35.0
Whimsy Yellow	35.0	36.0
Wonder Yellow	35.0	36.0
Desire Golden	36.0	37.0
Ditto Yellow	36.0	37.0
Touchdown Yellow	36.0	37.0
Goal Yellow	36.0	38.0
Karamum 24 Gold	36.0	36.0
Blitz Lemon	37.0	38.0
Homerun Yellow Imp	37.0	38.0
Sing Yellow	40.0	41.0

KEY TO PHOTO CAPTIONS
Bloom Size: Sm-XL | Vigor Sm/Lg



belgian

BRONZE / ORANGE



ADURO ORANGE
Lg | Vigor 3



AMIKO BRONZE
Big | Vigor 3



ARLUNO ORANGE
Med | Vigor 3



CONACO GOLD
Big, Bicolor | Vigor 2



CONACO ORANGE
Big | Vigor 2



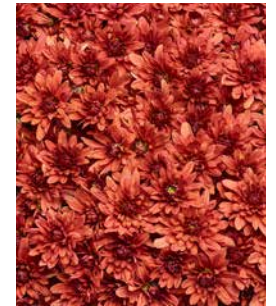
CONELLA ORANGE
Bicolor | Vigor 3



FONTI ORANGE
XL | Vigor 3-4



JASODA ORANGE
Vigor 2



MAGNUS BRONZE
Vigor 3



MIKA ORANGE
Vigor 3



MIORA ORANGE
Vigor 2-3



PADRE ORANGE
Vigor 4



PERONI ORANGE
Med | Vigor 3



RHINOS ORANGE
Bicolor | Vigor 4



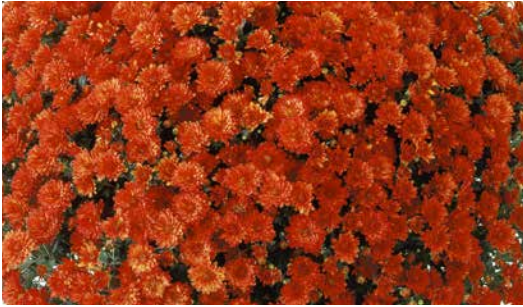
SOUL SISTER ORANGE
Vigor 2



STAVISKI ORANGE
Vigor 3



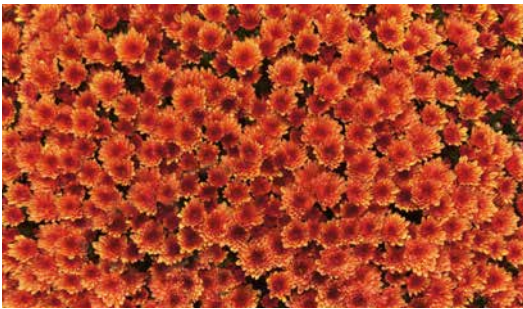
URANO ORANGE
Vigor 2



URANO RED
Vigor 2



VERITAS ORANGE
Vigor 3



VIGORELLI ORANGE
Vigor 2-3



FONTI CORAL
Vigor 3

VARIETY	STAGE 1 NORTH	STAGE 1 SOUTH
Mika Orange	36.0	37.5
Urano Orange	36.0	37.0
Urano Red	36.0	37.0
Fonti Orange	37.0	37.5
Arluno Orange	38.0	38.5
Conella Orange	38.0	39.0
Magnus Bronze	38.0	39.0
Miora Orange	38.0	39.5
Padre Orange	38.0	39.0
Rhinos Orange	38.0	40.0
Conaco Gold	38.5	39.5
Conaco Orange	38.5	39.5
Peroni Orange	38.5	40.0
Amiko Bronze	39.0	41.0
Veritas Orange	40.0	41.0
Jasoda Orange	41.0	42.0
Soul Sister Orange	41.0	42.0
Aduro Orange	41.5	42.0
Staviski Orange	41.5	42.0
Vigorelli Orange	41.5	42.5
Fonti Coral	37.0	37.5

KEY TO PHOTO CAPTIONS
Bloom Description | Vigor 1-5



belgian

PINK / PURPLE



ADIVA PURPLE
Vigor 3



ADURO PINK
Lg | Vigor 3



ADURO PURPLE
Lg | Vigor 3



AMIKO VIOLET
Big | Vigor 3



ARLUNO DARK PINK
Vigor 3



ARLUNO PINK
Med | Vigor 3



ARLUNO PURPLE
Med | Vigor 3



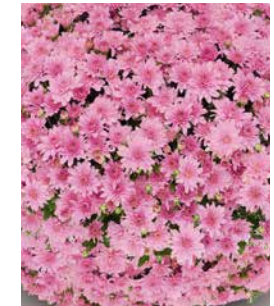
BAOLI LILAC
Lg | Vigor Med



CIPRIANI PINK
Vigor 3



FONTI DARK PINK
Vigor 3



FONTI PINK
XL | Vigor 3-4



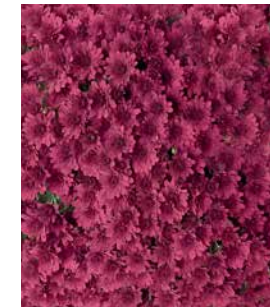
JASODA PINK
Vigor 2



JASODA PURPLE
Vigor 2



KOKO PURPLE
Vigor 3



LANO PURPLE
Med | Vigor 3



MAGNUS PINK
Vigor 3



MAGNUS VIOLET
Vigor 3



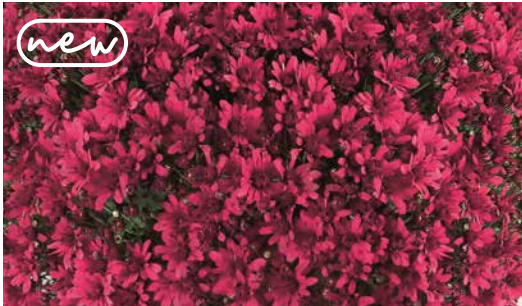
PADRE LILAC
Vigor 4



PADRE CERISE
Vigor 4



PENERA PINK
Vigor 3



PENERA PURPLE
Vigor 3



POBO LAVENDER
Vigor 3



POMONA VIOLET
Vigor 3



SOUL SISTER DARK PINK
Vigor 2



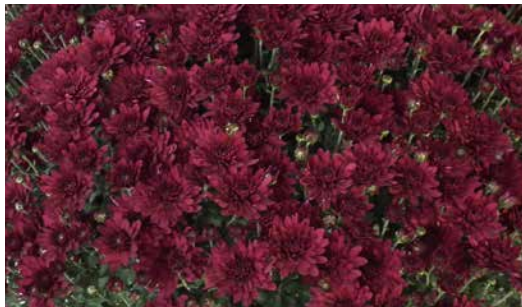
SOUL SISTER PINK
Vigor 2



STAVISKI PINK
Vigor 3



VIGORELLI PURPLE
Vigor 3



ZAZA PURPLE
Vigor 3

VARIETY	STAGE 1 NORTH	STAGE 1 SOUTH
Cipriani Pink	36.0	37.0
Pobo Lavender	36.5	38.0
Fonti Dark Pink	37.0	37.5
Fonti Pink	37.0	37.5
Adiva Purple	37.5	38.0
Baoli Lilac	38.0	38.0
Arluno Dark Pink	38.0	38.5
Arluno Pink	38.0	38.5
Arluno Purple	38.0	38.5
Koko Purple	38.0	39.5
Magnus Pink	38.0	39.0
Padre Lilac	38.0	39.0
Padre Cerise	38.0	39.0
Zaza Purple	38.0	39.5
Magnus Violet	38.5	40.0
Amiko Violet	39.0	41.0
Lano Purple	39.5	40.5
Pomona Violet	39.5	40.5
NEW Penera Pink	40.0	40.5
NEW Penera Purple	40.0	40.5
Jasoda Pink	41.0	42.0
Jasoda Purple	41.0	42.0
Soul Sister Dark Pink	41.0	42.0
Soul Sister Pink	41.0	42.0
Aduro Pink	41.5	42.0
Aduro Purple	41.5	42.0
Staviski Pink	41.5	42.0
Vigorelli Purple	41.5	42.5

KEY TO PHOTO CAPTIONS
Bloom Description | Vigor 1-5



belgian

RED / WHITE



ADURO RED
Vigor 3



AMADORA RED
Big | Vigor 3



ARLUNO RED
Vigor 3



CAMINA RED
Vigor 2



COMO RED
Med | Vigor 3



FONTI RED
Vigor 3



GRANATA RED
Vigor 3



JASODA RED
Vigor 2



KOKO RED
Vigor 3



LAVA RED
Big | Vigor 3



PENERA RED
Vigor 3



POBO RED
Vigor 3



SAVONA RED
Vigor 4



SOUL SISTER RED
Vigor 2



STAVISKI RED
Vigor 3



VEGA RED
Vigor 3



VIGORELLI RED
Vigor 3



ALUGA WHITE
Big | Vigor 3



AMIKO WHITE
Vigor 3



ARLUNO VANILLA
Med | Vigor 3



ESPERO WHITE
Vigor 3



FONTI WHITE
XL | Vigor 3-4



JASODA WHITE
Vigor 2



LESCONIL WHITE
Vigor 3



MABEL WHITE
Vigor 3



NAZIMI WHITE
Vigor 5



PADRE WHITE
Vigor 4



POSSIDI WHITE
Vigor 2



PRIMA WHITE
Big | Vigor 3



STAVISKI WHITE
Vigor 3



SOUL SISTER WHITE
Vigor 2

VARIETY	STAGE 1 NORTH	STAGE 1 SOUTH
Fonti Red	35.5	37.0
Granata Red	36.5	38.0
Vega Red	36.5	38.0
Camina Red	37.0	38.0
Amadora Red	37.5	38.5
Arluno Red	38.0	38.5
Pobo Red	38.0	39.0
Koko Red	38.0	39.5
Savona Red	38.5	39.5
Como Red	39.0	40.0
NEW Penera Red	40.0	40.5
Lava Red	40.0	41.0
Jasoda Red	41.0	42.0
Soul Sister Red	41.0	42.0
Aduro Red	41.5	42.0
Staviski Red	41.5	42.0
Vigorelli Red	41.5	42.5
Prima White	36.5	38.0
Fonti White	37.0	37.5
Mabel White	37.0	37.5
Lesconil White	37.5	38.0
Arluno Vanilla	38.0	38.5
Padre White	38.0	39.0
Espero White	38.5	39.0
Possidi White	38.5	40.0
Amiko White	39.0	41.0
Aluga White	39.5	41.5
NEW Nazimi White	40.0	41.0
Jasoda White	41.0	42.0
Soul Sister White	41.0	42.0
Staviski White	41.5	42.0

KEY TO PHOTO CAPTIONS
Bloom Description | Vigor 1-5



BELGIAN
belgian

YELLOW



ALLEGRA YELLOW
Big | Vigor 3



ALUGA YELLOW
Big | Vigor 3



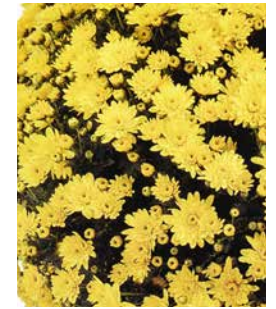
AMIKO YELLOW
Big | Vigor 3



ARLUNO YELLOW
Med | Vigor 3



CESARO YELLOW
Vigor 4



CONACO YELLOW
Big | Vigor 2



CONELLA YELLOW
Vigor 3



ESPERO YELLOW
Vigor 3



FONTI YELLOW
XL | Vigor 3-4



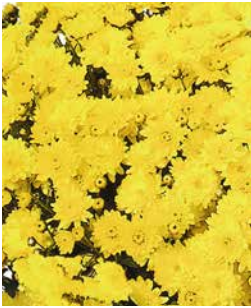
JASODA YELLOW
Vigor 2



MATADOR YELLOW
Vigor 3



MOURIA YELLOW
Vigor 3



PADRE YELLOW
Vigor 4



POSSIDI YELLOW
Vigor 3



SINELLI YELLOW
Vigor 4



SOUL SISTER YELLOW
Vigor 2



STAVISKI YELLOW
Vigor 3



URANO YELLOW
Vigor 2



VIGORELLI GOLD
Vigor 3



VENOS YELLOW
Vigor 3



VERITAS YELLOW
Vigor 3

VARIETY	STAGE 1 NORTH	STAGE 1 SOUTH
Allegra Yellow	36.0	37.0
Sinelli Yellow	36.0	37.5
Urano Yellow	36.5	37.5
Fonti Yellow	37.0	37.5
Venos Yellow	37.0	38.5
Matador Yellow	37.5	39.0
Arluno Yellow	38.0	38.5
Conella Yellow	38.0	39.0
Padre Yellow	38.0	39.0
Cesaro Yellow	38.5	39.5
Conaco Yellow	38.5	39.5
Espero Yellow	38.5	40.0
Possidi Yellow	38.5	40.0
Amiko Yellow	39.0	41.0
Aluga Yellow	39.5	41.5
Veritas Yellow	40.0	41.0
Jasoda Yellow	41.0	42.0
Soul Sister Yellow	41.0	42.0
Staviski Yellow	41.5	42.0
Vigorelli Gold	41.5	42.0
Mouria Yellow	42.0	43.0

KEY TO PHOTO CAPTIONS
Bloom Description | Vigor 1-5



SYNCHRONIA
synchro

BRONZE / ORANGE
 CORAL



AUBREY ORANGE
 Vigor Med



AUTUMN SUNSET
 Vigor Med/Lg



BEATRICE ORANGE
 Med | Vigor Med



BEVERLY BRONZE
 Vigor Med



BEVERLY DARK BRONZE
 Vigor Med/Lg



BEVERLY ORANGE
 Vigor Med/Lg



CHERYL SPICY ORANGE
 Vigor Med/Lg



DOROTHY BRONZE
 Med | Vigor Med



GIGI ORANGE
 Vigor Sm



HAILEY ORANGE
 Vigor Sm



JUDY BRONZE
 Med | Vigor Sm/Med



HANNAH ORANGE
 Vigor Sm/Med



JACQUELINE ORANGE FUSION
 Bicolor | Vigor Sm/Med



KEELEY ORANGE
 Vigor Sm



LUCY BRONZE BICOLOR
Lg | Vigor Med/Lg



MAKENNA ORANGE
Vigor Med



MIRANDA ORANGE
Vigor Med



PAMELA ORANGE
Med | Vigor Lg



RHONDA BRONZE
Vigor Med/Lg



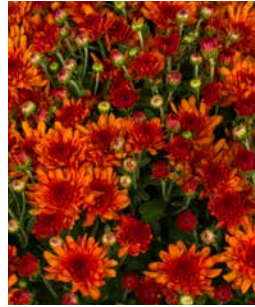
STACY DAZZLING ORANGE
Vigor Med



TRACY ORANGE
Med | Vigor Med



URSULA FANCY ORANGE
Vigor Sm



WANDA BRONZE
Vigor Med



URSULA JAZZY CORAL
Vigor Sm



GIGI CORAL
Vigor Sm



JACQUELINE PEACH FUSION
Bicolor | Vigor Sm/Med



CHELSEY CORAL
Vigor Med/Lg

VARIETY	STAGE 1 NORTH	STAGE 1 SOUTH
Beatrice Orange	34.0	34.0
Keeley Orange	34.5	35.5
Hannah Orange	35.5	35.0
Ursula Fancy Orange	35.5	35.5
Gigi Orange	36.0	36.5
Jacqueline Orange Fusion	36.0	36.5
Dorothy Bronze	36.0	37.0
Miranda Orange	36.0	37.0
Stacy Dazzling Orange	36.0	37.5
Beverly Bronze	36.5	37.5
Beverly Dark Bronze	36.5	37.5
Beverly Orange	36.5	37.5
Tracy Orange	36.5	36.5
Aubrey Orange	37.0	37.5
Hailey Orange	37.0	38.5
Lucy Bronze Bicolor	37.0	38.0
Wanda Bronze	37.0	38.0
Cheryl Spicy Orange	38.0	39.0
Autumn Sunset	39.0	40.0
Makenna Orange	39.0	39.0
Pamela Orange	39.0	41.0
Rhonda Bronze	41.0	42.0
Judy Bronze	41.5	42.5
Ursula Jazzy Coral	35.5	35.5
Gigi Coral	36.0	36.5
Jacqueline Peach Fusion	36.0	36.5
Chelsey Coral	37.5	38.0

KEY TO PHOTO CAPTIONS
Bloom Description | Vigor Sm-Lg



SYNGENTA
syngenta

PINK / PURPLE



ADRIANA PURPLE
 Sm | Vigor Sm



ARLETTE PURPLE
 Vigor Sm



CHELSEY PINK
 Vigor Med/Lg



CHERYL PINK
 Vigor Med/Lg



CHERYL REGAL PURPLE
 Vigor Med



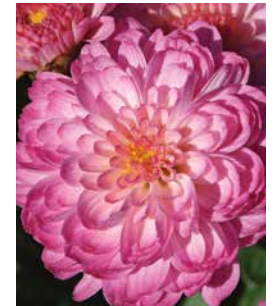
DANIELLE PURPLE
 Vigor Med



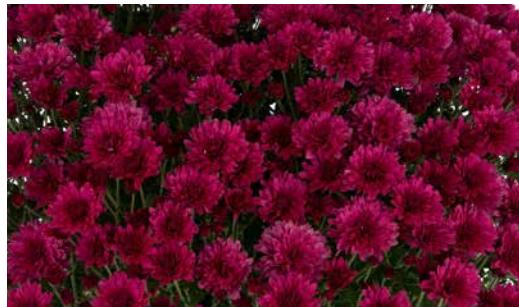
DEMI PINK
 Med | Vigor Med



EMELDA PURPLE
 Vigor Sm



GIGI DARK PINK
 Vigor Sm



ELIZABETH DARK PINK
 Med | Vigor Med



JACQUELINE PINK
 Vigor Med



JACQUELINE ROSE
 Vigor Sm/Med



PAMELA PINK
Med | Vigor Lg



PATTY PURPLE
Vigor Med



RHONDA PURPLE
Vigor Med/Lg



SUMMER SUNSET
Daisy/Med-Lg | Vigor Med



PAULINE PURPLE
Sm-Med | Vigor Med



TERESA PINK
Daisy/Med-Lg | Vigor Med/Lg



URSULA LAVENDER
Vigor Sm



VERONICA DARK PINK
Med | Vigor Med/Lg



WANDA LAVENDER
Vigor Med



WANDA PURPLE
Vigor Med

VARIETY	STAGE 1 NORTH	STAGE 1 SOUTH
Arlette Purple	34.5	35.0
Jacqueline Rose	35.5	36.5
Patty Purple	35.5	36.5
Veronica Dark Pink	35.5	36.0
Demi Pink	36.0	36.0
Gigi Dark Pink	36.0	36.5
Jacqueline Pink	36.0	36.5
Ursula Lavender	36.0	36.0
Wanda Lavender	36.0	37.5
Danielle Purple	36.5	37.0
Chelsey Pink	37.0	37.5
NEW Pauline Purple	37.0	38.0
Summer Sunset	37.0	37.5
Teresa Pink	37.0	37.5
Wanda Purple	37.0	38.0
Adriana Purple	38.0	39.0
Cheryl Regal Purple	38.0	39.0
Cheryl Pink	38.5	39.5
Emelda Purple	39.0	40.5
Pamela Pink	39.0	41.0
Elizabeth Dark Pink	40.5	41.0
Rhonda Purple	41.0	42.0

KEY TO PHOTO CAPTIONS
Bloom Description | Vigor Sm-Lg



SYNGENTA
syngenta

RED / WHITE



AIDEEN RED FIRE
 Vigor Sm/Med



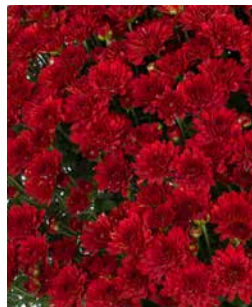
ASHLEY RED
 Vigor Med



BONNIE RED
 Vigor Sm/Med



CHERYL JOLLY RED
 Vigor Lg



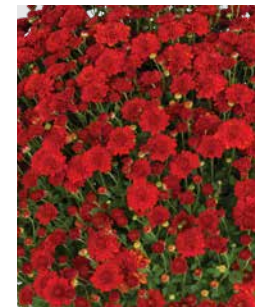
CYNTHIA SCARLET
 Med | Vigor Med



DANIELLE RED
 Vigor Med



EDANA RED
 Vigor Med



HAILEY RED BRONZE
 Med | Vigor Sm/Med



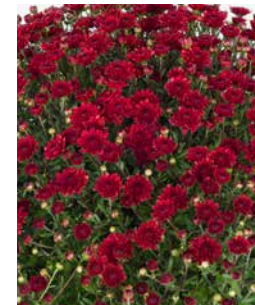
HESTIA HOT RED
 Vigor Med



JOSEPHINE RED
 Sm | Vigor Med



KATHLEEN DARK RED
 Vigor Sm



MILA RED
 Vigor Med



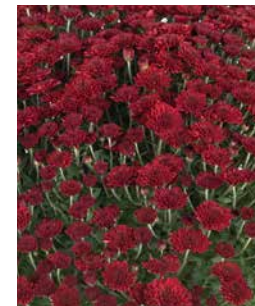
PATTY POMEGRANATE
 Vigor Med



RIHANNA RED
 Med | Vigor Med



RHONDA RED
 Vigor Med/Lg



SELENA RED
 Sm-Med | Vigor Sm/Med



TABITHA SCARLET
Vigor Med



WANDA RED
Vigor Med



ALEXA WHITE
Med | Vigor Med



CHELSEY WHITE
Vigor Med/Lg



CHERYL FROSTY WHITE
Vigor Med/Lg



EDITH WHITE
Vigor Med



GIGI SNOW
Vigor Sm



JACQUELINE PEARL
Vigor Sm/Med



JOAN WHITE
Sm-Med | Vigor Med



KATIE WHITE
Med | Vigor Med



NORAH WHITE
Med-Lg | Vigor Med



PAMELA WHITE
Med | Vigor Lg



RHONDA WHITE
Vigor Med/Lg



SHANNON WHITE
Vigor Med/Lg



VANNA SNOW
Vigor Med



WILMA WHITE
Vigor Med

VARIETY	STAGE 1 NORTH	STAGE 1 SOUTH
Hestia Hot Red	34.5	35.5
Aideen Red Fire	35.0	35.0
Bonnie Red	35.0	35.5
Patty Pomegranate	35.5	36.5
Tabitha Scarlet	35.5	37.0
Mila Red	36.0	37.0
Danielle Red	36.5	37.0
Hailey Red Bronze	37.0	38.5
Wanda Red	37.0	38.0
Josephine Red	37.5	38.0
Ashley Red	38.0	39.0
Cheryl Jolly Red	38.0	39.0
Cynthia Scarlet	39.0	40.0
Edana Red	39.0	40.0
Selena Red	39.0	39.5
Kathleen Dark Red	40.0	40.5
Rihanna Red	40.5	41.5
Rhonda Red	41.0	42.0
NEW Norah White	34.0	35.0
Bertha White	35.0	35.0
Edith White	35.0	35.0
Shannon White	35.0	35.0
Jacqueline Pearl	35.5	36.5
Katie White	35.5	36.0
Gigi Snow	36.0	36.5
Vanna Snow	36.0	36.0
Chelsey White	36.5	37.0
NEW Alexa White	37.0	38.0
Wilma White	37.0	38.0
Cheryl Frosty White	38.0	39.0
Pamela White	39.0	41.0
Rhonda White	41.0	42.0
Joan White	41.5	42.5

KEY TO PHOTO CAPTIONS
Bloom Description | Vigor Sm-Lg



SYNGENTA
syngenta

YELLOW



BETHANY YELLOW
Vigor Sm/Med



BEVERLY GOLD
Vigor Med



CHELSEY YELLOW
Vigor Med/Lg



CHERYL GOLDEN
Bicolor | Vigor Med/Lg



CHERYL SPARKLING YELLOW
Vigor Med/Lg



CHLOE YELLOW
Vigor Med/Lg



DAWN YELLOW
Vigor Sm/Med



ELECTRA AMBER IMP
Vigor Med/Lg



ELENA GOLD
Vigor Sm/Med



ELLEN GOLDEN BICOLOR
Med | Vigor Med/Lg



GIGI GOLD
Bicolor | Vigor Sm



GIGI YELLOW
Vigor Sm



HAILEY GOLD
Med | Vigor Med



JACQUELINE YELLOW
Vigor Sm/Med



JANE YELLOW
Med | Vigor Med



MAKAYLA YELLOW
Vigor Med



MARY YELLOW
Vigor Med/Lg



MICHELLE GOLD
Vigor Sm/Med



NADIA YELLOW
Med | Vigor Med



PAMELA YELLOW
Med | Vigor Med



RHONDA YELLOW
Vigor Med/Lg



SKYLAR YELLOW
Med-Lg | Vigor Med



TANYA YELLOW
Vigor Med/Lg



URSULA SUNNY YELLOW
Vigor Sm



WILMA YELLOW
Vigor Med



YOLANDA YELLOW
Vigor Sm/Med



YVETTE YELLOW
Vigor Sm/Med



ZELDA YELLOW
Med-Lg | Vigor Sm/Med

VARIETY	STAGE 1 NORTH	STAGE 1 SOUTH
NEW Skylar Yellow	34.0	35.0
Michelle Gold	34.5	35.0
Tanya Yellow	34.5	34.5
Electra Amber Imp	35.0	35.5
Dawn Yellow	35.5	35.5
Elena Gold	35.5	35.5
Jacqueline Yellow	35.5	36.5
Ursula Sunny Yellow	35.5	36.0
Gigi Gold	36.0	36.5
Gigi Yellow	36.0	36.5
Yolanda Yellow	36.0	37.0
Beverly Gold	36.5	37.5
Chelsey Yellow	36.5	37.0
Chloe Yellow	36.5	37.5
Hailey Gold	37.0	38.5
Mary Yellow	37.0	37.5
Wilma Yellow	37.0	38.0
Zelda Yellow	38.0	38.0
Cheryl Golden	38.0	39.0
Cheryl Sparkling Yellow	38.0	38.5
Yvette Yellow	38.0	39.5
Bethany Yellow	38.5	39.5
NEW Nadia Yellow	39.0	40.0
Makayla Yellow	39.5	40.0
Ellen Golden Bicolor	40.0	41.0
Pamela Yellow	41.0	42.0
Jane Yellow	41.0	42.0
Rhonda Yellow	41.0	42.0

KEY TO PHOTO CAPTIONS
Bloom Description | Vigor Sm-Lg



COMBOS

combos

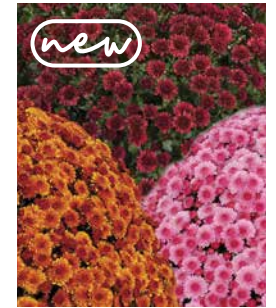
SYNGENTA
MUM COMBOS



BEVERLY BRIGHT PENNY



CHELSEY BRIGHT SPOT



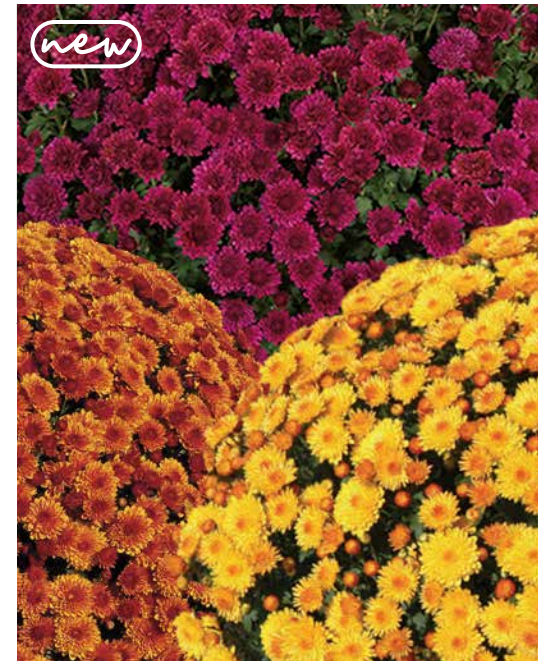
CHERYL FARMERS MARKET



CHERYL GLAMOROUS



CHERYL HAYRIDE



CHERYL PUMPKIN PATCH



CHERYL SWEATER WEATHER



GIGI ACORN LANE



GIGI AUTUMN MORNING



GIGI CAMPFIRE



HAILEY COLOR FIELD



JACQUELINE FALL SUNSET



JACQUELINE GAME DAY



WANDA FALL BERRY



JACQUELINE HARVEST FUSION

VARIETY	STAGE 1 NORTH	STAGE 1 SOUTH
NEW Jacqueline Fall Sunset	34.0	36.0
NEW Jacqueline Game Day	34.0	36.0
NEW Jacqueline Harvest Fusion	34.0	36.0
NEW Chelsey Bright Spot	36.0	37.0
NEW Gigi Acorn Lane	36.0	37.0
NEW Gigi Autumn Morning	36.0	37.0
NEW Gigi Campfire	36.0	37.0
NEW Beverly Bright Penny	36.0	38.0
NEW Hailey Color Field	37.0	39.0
NEW Wanda Fall Berry	37.0	39.0
NEW Cheryl Farmers Market	39.0	40.0
NEW Cheryl Glamorous	39.0	40.0
NEW Cheryl Hayride	39.0	40.0
NEW Cheryl Pumpkin Patch	39.0	40.0
NEW Cheryl Sweater Weather	39.0	40.0

KEY TO PHOTO CAPTIONS
Bloom Description | Vigor Sm-Lg



BLOOM TIME

BY COLOR

Based on northern conditions

AUG 2024

WK	S	M	T	W	T	F	S
31					1	2	3
32	4	5	6	7	8	9	10
33	11	12	13	14	15	16	17
34	18	19	20	21	22	23	24
35	25	26	27	28	29	30	31

SEP 2024

WK	S	M	T	W	T	F	S
36	1	2	3	4	5	6	7
37	8	9	10	11	12	13	14
38	15	16	17	18	19	20	21
39	22	23	24	25	26	27	28
40	29	30					

OCT 2024

WK	S	M	T	W	T	F	S
40			1	2	3	4	5
41	6	7	8	9	10	11	12
42	13	14	15	16	17	18	19
43	20	21	22	23	24	25	26
44	27	28	29	30	31		

KEY

- B | Belgian Mums
- V | Vitamum Mums
- S | Syngenta Mums

Week number for stage 1

BRONZE/ORANGE

V	Solar Flare	33.0
S	Beatrice Orange	34.0
V	Reef Bronze	34.0
V	Sunblaze Flame	34.0
S	Keeley Orange	34.5
V	Crush Orange	35.0
V	Flame Bicolor	35.0
V	Lively Red Bicolor	35.0
S	Hannah Orange	35.5
S	Ursula Fancy Orange	35.5
V	Apple Cider	36.0
V	Balance Bronze Bicolor	36.0
V	Ditto Dark Orange	36.0
S	Dorothy Bronze	36.0
S	Gigi Orange	36.0
V	Goal Light Bronze	36.0
V	Goal Orange	36.0
S	Jacqueline Orange Fusion	36.0
V	Jolly Dark Bronze	36.0
V	Karamum 24 Bronze	36.0
V	Merry Bronze Bicolor	36.0
B	Mika Orange	36.0
S	Miranda Orange	36.0
S	Stacy Dazzling Orange	36.0
V	Starspot	36.0
V	Touchdown Orange	36.0
B	Urano Orange	36.0
B	Urano Red	36.0
S	Beverly Bronze	36.5
S	Beverly Dark Bronze	36.5
S	Beverly Orange	36.5
S	Tracy Orange	36.5
S	Aubrey Orange	37.0
B	Fonti Orange	37.0
S	Hailey Orange	37.0
V	Homerun Orange	37.0
V	Homerun Scarlet	37.0
V	Kick Orange	37.0
S	Lucy Bronze Bicolor	37.0
V	Tiger Eyes	37.0
S	Wanda Bronze	37.0

B	Arluno Orange	38.0
S	Cheryl Spicy Orange	38.0
B	Conella Orange	38.0
V	Jamboree Red Yellow	38.0
B	Magnus Bronze	38.0
B	Miora Orange	38.0
B	Padre Orange	38.0
B	Rhinos Orange	38.0
B	Conaco Gold	38.5
B	Conaco Orange	38.5
B	Peroni Orange	38.5
B	Amiko Bronze	39.0
S	Autumn Sunset	39.0
S	Makenna Orange	39.0
V	Melody Bronze	39.0
S	Pamela Orange	39.0
V	Toast Orange	40.0
B	Veritas Orange	40.0
V	Banquet Red Bicolor	41.0
B	Jasoda Orange	41.0
S	Rhonda Bronze	41.0
B	Soul Sister Orange	41.0
B	Aduro Orange	41.5
S	Judy Bronze	41.5
B	Staviski Orange	41.5
B	Vigorelli Orange	41.5

CORAL

S	Ursula Jazzy Coral	35.5
S	Gigi Coral	36.0
S	Jacqueline Peach Fusion	36.0
B	Fonti Coral	37.0
S	Chelsey Coral	37.5

PINK/PURPLE

V	Lagoon Purple	34.0
V	Shore Appleblossom	34.0
S	Arllette Purple	34.5
V	Buzz Lavender	35.0
V	Darling Pink	35.0
V	Ecstatic Purple	35.0
V	Elated Purple	35.0
V	Lively Pink Bicolor	35.0

V	NEW Peppermint Passion Pink	35.0
V	Strawberry Ice	35.0
S	Jacqueline Rose	35.5
S	Patty Purple	35.5
S	Veronica Dark Pink	35.5
B	Cipriani Pink	36.0
S	Demi Pink	36.0
V	Ditto Dark Pink	36.0
S	Gigi Dark Pink	36.0
S	Jacqueline Pink	36.0
V	Lucky Purple	36.0
V	Touchdown Bicolor Pink	36.0
V	Touchdown Purple	36.0
S	Ursula Lavender	36.0
S	Wanda Lavender	36.0
S	Danielle Purple	36.5
B	Pobo Lavender	36.5
S	Chelsey Pink	37.0
V	Cherry Purple	37.0
B	Fonti Dark Pink	37.0
B	Fonti Pink	37.0
V	Homerun Pink	37.0
S	NEW Pauline Purple	37.0
S	Summer Sunset	37.0
S	Teresa Pink	37.0
S	Wanda Purple	37.0
B	Adiva Purple	37.5
S	Adriana Purple	38.0
B	Arluno Dark Pink	38.0
B	Arluno Pink	38.0
B	Arluno Purple	38.0
B	Baoli Lilac	38.0
V	NEW Berry Blast Bicolor	38.0
S	Cheryl Regal Purple	38.0
V	Jamboree Pink White	38.0
V	Jamboree Purple White	38.0
B	Koko Purple	38.0
B	Magnus Pink	38.0
B	Padre Cerise	38.0
B	Padre Lilac	38.0
B	Zaza Purple	38.0
S	Cheryl Pink	38.5

B	Magnus Violet	38.5
B	Amiko Violet	39.0
V	Festive Purple	39.0
S	Pamela Pink	39.0
B	Lano Purple	39.5
B	Pomona Violet	39.5
V	Concert Purple	40.0
B	NEW Penera Pink	40.0
B	NEW Penera Purple	40.0
S	Elizabeth Dark Pink	40.5
V	Banquet Pink Bicolor	41.0
V	Banquet Purple	41.0
B	Jasoda Pink	41.0
B	Jasoda Purple	41.0
S	Rhonda Purple	41.0
B	Soul Sister Dark Pink	41.0
B	Soul Sister Pink	41.0
B	Aduro Pink	41.5
B	Aduro Purple	41.5
B	Staviski Pink	41.5
B	Vigorelli Purple	41.5

RED

V	Seaside Red	34.0
S	Hestia Hot Red	34.5
S	Aideen Red Fire	35.0
S	Bonnie Red	35.0
V	Buzz Merlot	35.0
V	Cheer Red	35.0
B	Fonti Red	35.5
S	Patty Pomegranate	35.5
S	Tabitha Scarlet	35.5
V	Chili Red	36.0
S	Mila Red	36.0
S	Danielle Red	36.5
B	Granata Red	36.5
B	Vega Red	36.5
B	Camina Red	37.0
V	Cherry Red	37.0
S	Hailey Red Bronze	37.0
V	Volley Red	37.0
S	Wanda Red	37.0
B	Amadora Red	37.5

S	Josephine Red	37.5
B	Arluno Red	38.0
S	Ashley Red	38.0
V	Catch Red	38.0
S	Cheryl Jolly Red	38.0
B	Koko Red	38.0
B	Pobo Red	38.0
V	Power Red	38.0
B	Savona Red	38.5
B	Como Red	39.0
S	Cynthia Scarlet	39.0
S	Edana Red	39.0
V	Jubilant Red	39.0
S	Selena Red	39.0
V	Fiesta Red	40.0
S	Kathleen Dark Red	40.0
B	Lava Red	40.0
B	NEW Penera Red	40.0
S	Rihanna Red	40.5
B	Jasoda Red	41.0
S	Rhonda Red	41.0
B	Soul Sister Red	41.0
B	Aduro Red	41.5
B	Staviski Red	41.5
B	Vigorelli Red	41.5

WHITE

V	Calm White	34.0
S	NEW Norah White	34.0
S	Bertha White	35.0
S	Edith White	35.0
S	Shannon White	35.0
S	Jacqueline Pearl	35.5
S	Katie White	35.5
V	Ditto White	36.0
V	Touchdown White	36.0
S	Vanna Snow	36.0
S	Chelsey White	36.5
B	Prima White	36.5
S	NEW Alexa White	37.0
B	Fonti White	37.0
V	Homerun White	37.0

V	Jump White	37.0
B	Mabel White	37.0
S	Wilma White	37.0
B	Lesconil White	37.5
B	Arluno Vanilla	38.0
S	Cheryl Frosty White	38.0
B	Padre White	38.0
B	Espero White	38.5
B	Possidi White	38.5
B	Amiko White	39.0
V	Fair White	39.0
S	Pamela White	39.0
B	Aluga White	39.5
V	Ceremony White	40.0
B	NEW Nazimi White	40.0
B	Jasoda White	41.0
S	Rhonda White	41.0
B	Soul Sister White	41.0
B	Joan White	41.5
B	Staviski White	41.5

YELLOW

V	Beach Yellow	34.0
V	Cruise Yellow	34.0
S	NEW Skylar Yellow	34.0
S	Michelle Gold	34.5
S	Tanya Yellow	34.5
S	Electra Amber Imp	35.0
V	Whimsy Yellow	35.0
V	Wonder Yellow	35.0
S	Dawn Yellow	35.5
S	Elena Gold	35.5
S	Jacqueline Yellow	35.5
S	Ursula Sunny Yellow	35.5
B	Allegra Yellow	36.0
V	Desire Golden	36.0
V	Ditto Yellow	36.0
S	Gigi Gold	36.0
S	Gigi Yellow	36.0
V	Goal Yellow	36.0
V	Karamum 24 Gold	36.0
B	Sinelli Yellow	36.0
V	Touchdown Yellow	36.0

S	Yolanda Yellow	36.0
S	Beverly Gold	36.5
S	Chelsey Yellow	36.5
S	Chloe Yellow	36.5
B	Urano Yellow	36.5
V	Blitz Lemon	37.0
B	Fonti Yellow	37.0
S	Hailey Gold	37.0
V	Homerun Yellow	37.0
S	Mary Yellow	37.0
B	Venos Yellow	37.0
S	Wilma Yellow	37.0
B	Matador Yellow	37.5
B	Arluno Yellow	38.0
S	Cheryl Golden	38.0
S	Cheryl Sparkling Yellow	38.0
B	Conella Yellow	38.0
B	Padre Yellow	38.0
S	Yvette Yellow	38.0
S	Zelda Yellow	38.0
S	Bethany Yellow	38.5
B	Cesaro Yellow	38.5
B	Conaco Yellow	38.5
B	Espero Yellow	38.5
B	Possidi Yellow	38.5
B	Amiko Yellow	39.0
S	NEW Nadia Yellow	39.0
B	Aluga Yellow	39.5
S	Makayla Yellow	39.5
S	Ellen Golden Bicolor	40.0
V	Sing Yellow	40.0
B	Veritas Yellow	40.0
S	Pamela Yellow	41.0
S	Jane Yellow	41.0
B	Jasoda Yellow	41.0
S	Rhonda Yellow	41.0
B	Soul Sister Yellow	41.0
B	Staviski Yellow	41.5
B	Vigorelli Gold	41.5
B	Mouria Yellow	42.0

CULTURE

53 MUMS

55 ASTERS

56 CABBAGE
& KALE

57 CROP
SCHEDULE

58 OTHER
FALL
COLORS



MUMS

INFORMATION COURTESY OF BERNARD CHODYLA, TECHNICAL ADVISOR AT GEDIFLORA, WITH ADDITIONS FROM RON ADAMS AND STAFF MEMBERS OF JOLLY FARMER GROWING TEAM.

TRANSPLANTING

Transplant rooted cuttings as soon as possible after arrival. Any delay in planting or excessive drying will restrict vegetative growth after transplanting and may cause premature budding. Before you are ready to start planting, have your finished pots completely filled with media. Partially filled pots will wilt sooner and contribute to uneven plants. Make sure media is evenly moist throughout the entire pot, not just the top few inches. Never plant dry cuttings.

Do not bury the crowns of rooted cuttings.

Keep soil moist for the first several weeks after transplanting to promote the vegetative growth.

You may need to sprinkle your plants hourly for the first few days after moving outside to prevent any leaf burn and excessive wilting.

Garden mums require a high light intensity for good quality, ideally in full sun. Maintain at least 6000 foot candles in growing area. Shading will increase plant stretch and the need for plant growth regulators.

When transplanting multiple plants per pot, keep the cuttings closer to the center of the pot to help reduce individual plant separation at finish.

In general, plant cuttings no more than four to five inches apart near the center of the pot. This allows the cuttings to grow together early in the crop and create a stronger plant base.

GROWING MEDIA

For mum production, the growing medium should retain adequate water after irrigation but also drain sufficiently to provide aeration during rainy weather. Many growers use peat based mixes commonly used for bedding plants and baskets. Some growers prefer heavier bark-based mixes. Of the two types of growing medium, bark based mixes are more porous and might require 20% more nitrogen with the feed program. In either case, be sure that the growing mix is well drained with 12-18% air-filled pore space. The pH range should be 5.8-6.2. If a very lightweight mix is used, large plants can be top heavy and prone to tipping over in windy conditions. If this is a problem, use a growing mix that contains a heavier component (like bark) to provide weight and stability to the pots.

FERTILIZATION

Feed after transplanting with 250-300 ppm fertilizer containing a high percentage of ammonium nitrogen such as constant 20-10-20 or 20-20-20, adding 100 ppmN ammonium nitrate to the 20-10-20. Start alternating with calcium based fertilizer such as 15-0-15 after about 3 weeks, repeating it every 3rd-4th feeding. You should maintain a soil solution pH at 5.7-6.0. After flower buds reach pea size, reduce feed to 200 ppmN once a week, using calcium and potassium based fertilizers only. You may have to reapply 20-10-20 during extended periods of rain.

For garden mums grown with slow-release fertilizer choose one of the newer types on the market that is less likely to release solely on soil temperature. You can use a 3-4 month release type at manufacturer's recommended rates for southern locations. Northern growers often get better results using a five to six months or eight to nine month longevity product. Slow release fertilizer at half rate could be used in combination with liquid feed. Use weekly soil test results to

monitor pH and EC of your crop and adjust the feed program accordingly.

SPACING

Spacing will vary from grower to grower, depending on finished pot size and your target sales market. For the best results we recommend that the foliage not touch. Proper spacing will prevent tall 'stovepipe' growth, yellow foliage, disease and unsaleable plants.

WATERING

Drip tubes or drip tape is recommended instead of hand watering or overhead irrigation. Drip irrigation helps to keep foliage dry and prevents the spread of bacterial leaf spot. During the first few weeks of growth, keep the plants evenly moist but not soaked. It is best to irrigate at sunrise or just before. Mums can tolerate some later afternoon wilt, but they should be watered thoroughly early the next morning. Avoid fluctuations between too wet or too dry. Try to water the plants on a regular basis in order to prevent excessive drying. On the other hand over-watering will only cause root disease and a poor finished plant. Avoid feeding wilted plants. Instead, use clear water until plants regain turgidity.

PINCHING

Many garden mum varieties can be treated as no-pinch varieties if grown in a 6" or larger container. Smaller pots do not have sufficient time to develop and branch without a pinch. If a grower is more comfortable with doing a pinch, this is fine and can be done when planting the rooted cutting to save time and labor. When pinching, always do a "soft pinch" removing only 1/2" or less from the cutting tip. Pinching hard or pinching after July 15 may delay flowering.

PREMATURE BUDDING

Early budding can be caused by extreme conditions such as too dry or too cool. In the North, cool night temperatures in June could be a common cause of premature budding. Avoid moving plants outside too early. If premature budding occurs, feed plants 2-3 times with an ammonium-based fertilizer at 300 ppm N to bypass the buds with new vegetative growth.

HOT WEATHER ISSUES

If your geographical area is receiving prolonged hot weather, beware of high growing media temperatures especially in plants on black landscape cloth. Very hot weather over an extended period of time can cause the slow release fertilizer to release early, burn roots and weaken the plants. Once this happens, the soil remains saturated for longer periods of time when wet, and root diseases can set in. To avoid this, use lower rates of slow release products, and do more liquid feeding. Any root stress from high temperatures or pots sitting wet for prolonged periods can result in pythium, fusarium or phytophthora.

GROWTH REGULATORS

In most cases, if proper varieties are being used along with the correct schedule, no growth regulators are needed. Smaller finished products, such as market packs or 4", may benefit from the use of growth regulators. B-9 sprayed at 2500 to 5000 ppm will slow the growth and a Bonzi drench at 2-3 ppm will virtually stop all growth. The last PGR application should be no later than 4 weeks before first color. Excessive or late applications of growth regulators will delay flowering. Florel will significantly delay natural day flowering if applied after June 20th.

INSECTS

Potential insect problems include aphids, caterpillars, mites, thrips, leaf miners, and whiteflies. Always take the extra precaution of weekly scouting and prevention. The sooner the infestation is found, the fewer plants will be affected. Rotate insecticides and miticides to avoid resistance and control a wide range of pests and their development stages. The following spray program can be used for mite and thrips control, using chemicals available in the US. Other chemical names would be used in Canada.

Avid + Pylon tank mix
Conserve + DuraGuard tank mix
Citation + Mesurool tank mix
Pedestal

The above combinations should be applied twice in a row and then should not be reapplied until at least two other insecticides with different modes of action are applied to avoid resistance build up. Other recommended pesticides include:

- For spider mite control: Floramite, Hexygon, Judo, Ovation, Sammite

For thrips control: Flagship, Orthene, Safari, Preclude

For leaf miners control: Azatin, Decathlon, Flagship, Safari

For whitefly control: Distance, Endeavor, Flagship, Marathon II, Preclude, Safari, Tristar

When applying pesticides:

- Always experiment with any new chemical on a few plants before treating your entire crop.
- Always use label rates.

Make sure these products are available for use and labeled for mums in your state or province.

DISEASES

The most common disease problems on garden mums include: botrytis, pythium, rhizoctonia, fusarium and bacterial leaf spot. Thorough monitoring of your crop, implementing an IPM program and prevention are the best defense options against disease problems. It is very important to use drip irrigation, sterilize production areas, remove weeds and use healthy plant material. This will reduce the need for chemical control of disease problems. Inspect roots periodically to determine plant health. Chemical control could be very effective if quick diagnosis from the lab is performed and correct fungicides or bactericides are selected.

When applying pesticides:

- Always experiment with any new chemical on a few plants before treating your entire crop.
- Always use label rates.

Make sure these products are available for use and labeled for mums in your state or province.

For issues concerning chrysanthemum white rust control and prevention go to:
www.aphis.usda.gov/plant_health/plant_pest_info.

Further information on premature budding and hot weather growing problems are available online.

ASTERS

INFORMATION COURTESY OF SYNGENTA FLOWERS.

Asters are the perfect companion for garden mums. Like garden mums, they can be used in summer and fall. They also have similar cultural requirements. There are a few differences from garden mum culture, which are highlighted below.

GROWING MEDIA & FERTILIZATION

The same soilless media and the same 300 – 400 ppm N constant liquid feed program from a complete fertilizer used for garden mums will work for asters (see Growing Media and Fertilization sections in Garden Mum Cultural Information). Maximum growth is attained when water and fertilizer are not limited, similar to garden mums. Asters are more sensitive to salts in the root zone. Be sure solution comes out of the pot at every irrigation. If you notice foliage tip burn, you may need to leach. Monitor the pot EC to prevent damage. Target should be approximately 75% of the garden mum target.

FLOWERING RESPONSE

Asters flower under short days, and tend to bud easier than garden mums. Asters flower faster than mums once short days begin. Most flower in five weeks, compared to seven for mums. Avoid blackout periods longer than 13 hours since some varieties can abort flower buds. Artificial short days should be used from March 15 – August 15. We recommend retailing asters earlier than mums, when color is just starting to show, for better consumer longevity. In natural-season programs, asters flower faster under hot and bright conditions. Asters grown in the South flower seven to 10 days faster than the same variety grown in the North.

PINCHING

Traditionally, fall aster crops have been pinched at least once. (Liners from Jolly Farmer have been pinched.) With the new, better-branching varieties, aster pinch requirements have been reduced. For our trials we now use multiple cuttings, but just one pinch for black cloth and one cutting with no pinch for natural season. For black cloth crops, the pinch should be given when roots are well developed. This is generally 10 – 14 days after planting a rooted cutting or 21 – 24 days after a direct stick. Pinch off the top to leave four to six leaves on the cuttings. Rooted cuttings naturally become taller during propagation than cuttings that are direct-stuck. The first pinch on rooted cuttings will be harder than for direct-stick unrooted cuttings. If you pinch more than once, allow enough growth for three to four leaves to remain after pinching. Pinching can be done every two to three weeks. Be sure to pinch all shoots or there will be uneven growth and flowering. Pinching is not required on natural-season crops. Pinching natural season crops after mid-July is not recommended as the plants are too close to bud initiation.

SPACING

As with garden mums, proper spacing is critical. Asters are generally smaller in size than garden mums and therefore can be grown tighter.

CROP SCHEDULING

Plant on the same schedule as your mum crop. Flowering times vary as per information given in your catalog.

HEIGHT CONTROL

With today's free branching varieties, less growth regulator is needed to control height. B-Nine and Bonzi are used successfully and rates are similar to those for garden mums.

INSECT CONTROL

Whiteflies and thrips and occasional spider mites are the key insect pests. For additional information on pesticide use, refer to our Chrysanthemum Pest Control tip sheet at www.syngentaflowersinc.com.

DISEASE CONTROL

Asters are susceptible to some different diseases than garden mums, primarily powdery mildew and rust. Some varieties are more resistant to disease than others, but disease expression is also weather dependent and varies from year to year. These diseases generally do not spread to an adjacent garden mum crop. Good cultural practices that create an unsuitable environment for the disease reduces their incidence. For additional information on pesticide use, refer to our Chrysanthemum Pest Control tip sheet at www.syngentaflowersinc.com.

For outdoor aster production, we strongly recommend a preventative spray program with a myclobutanil chemical such as Eagle® or Hoist® to control powdery mildew and rust. Scout crops regularly and apply protective fungicides as needed. Try to limit the number of sprays applied as they can have a growth retardant effect. Before using any pesticides, be sure that they are registered for use in your state or province. See label for use rates and application methods. Always follow label directions. The label is the law.

Important: Always read and follow label instructions before buying or using Syngenta products. The instructions contain important conditions of sale, including limitations of warranty and remedy.

HOIST® IS A REGISTERED TRADEMARK OF PROKOZ, INC. EAGLE® IS A REGISTERED TRADEMARK OF DOW AGROSCIENCES, LLC

CABBAGE & KALE

INFORMATION COURTESY OF SAKATA ORNAMENTALS.

Flowering Kale is targeted for production in 4-6" pots. The plants need to be of sufficient size before color initiation. Intense coloring begins when the night temperature drops below 50-55°F for 2-3 weeks.

MEDIA

Flowering Kale does best in a soil-based mix (20-30% field soil), but soil less media can also be used with proper management. Optimum pH is 5.5-6.2 with a low nutrient charge.

TRANSPLANTING

Transplant on time, plug plants will easily stretch.

TEMPERATURE

Production is mostly done outdoors.

FERTILIZER

Fertilize with 150 ppm N using a well-balanced calcium nitrate-based fertilizer. Optimum EC is 1.0-1.5 (1:2 slurry). Excess fertilizer will delay leaf coloring and too little fertilizer will cause the outer leaves to yellow and drop off.

LIGHTING

Flowering Kale grows well outdoors under full sun up to 107,000 lux.

GROWTH REGULATORS

Under warm temperatures, growth regulation is necessary to keep the plants compact. In cooler-weather, applying B-9 (Alar) at 2,500-5,000 ppm works well. In warmer weather, weekly sprays of Bonzi at 4-6 ppm provides good height control.

PESTS & DISEASES

Caterpillars, Cut Worms and Aphids are the major pests, Botrytis and Downy Mildew are the major diseases.

CROP SCHEDULE

FOR 4" POTS

Plan on 5-6 weeks from transplant to the start of color.

FOR 6" POTS

Plan on 6-7 weeks from transplant to the start of color.



CROP SCHEDULING

Aster Guidelines

SIZE	TRANSPLANT OUTSIDE	PER POT	SPACE	FLOREL SPRAY*	READY**	TOTAL CROP TIME
6" pot	Wk 24	1 plant	15" b/t pots	Once only before July 1	Wk 37-39	11-13 wks fr transplant
8" pot	Wk 22	1 plant	20" b/t pots	Wk 24 & Wk 26	Wk 37-39	13-15 wks fr transplant

*@ 500 ppm after transplant | ** depending on variety

Mum Guidelines

SIZE	TRANSPLANT OUTSIDE	PER POT	SPACE	FLOREL SPRAY*	READY**	TOTAL CROP TIME
6" pot	Wk 26	1 plant	14" b/t pots	Once only before July 1	Wk 37-39	11-13 wks fr transplant
8" pot	Wk 24	1 plant	19" b/t pots	Wk 24 & Wk 26	Wk 37-39	13-15 wks fr transplant
10" pot	Wk 24	3 plants	22" b/t pots	Wk 24 & Wk 26	Wk 37-39	13-15 wks fr transplant

*@ 500 ppm after transplant | ** depending on variety | Delay transplanting by 2 wks for plants needing to be ready by wks 40, 41 and 42 on all sizes. No Florel needed in such a case.

Cabbage & Kale Guidelines

SIZE	PER POT	PGR	TIMING BEFORE COOLING
4" pot	1 plant	May be required	5-6 weeks
6" pot	1 plant	May be required	6-7 weeks
12" pot	3 plant	May be required	6-7 weeks

OTHER FALL COLORS

REFER TO YOUR YOUNG PLANTS GROWER CATALOG FOR CULTURE.

Fall Colors

SPECIE	SIZE	PER POT	SPACE	PINCH	PGR	NOTES	TOTAL CROP TIME
Bracteantha	4" pot	1 plant	–	See notes	–	Pinch at planting for 6" or larger pots. Avoid deep planting of liners.	4-6 weeks
	10" pot	4 plant	–		–		11-15 weeks
Celosia	4" pot	1 plant	3-4/sq ft	at 6-8 leaves	Required see notes	Plant the liners deep so that the tip of the liner is one inch above soil level. When the liner roots are well established pinch the cuttings to leave 6 - 8 leaves. Use Cycocel to keep the plants toned; PGR will give a darker foliage. *After 4 weeks you can lower the temp and finish them cooler. *Celosia Kelos Atomic varieties are about one week faster in comparison to Kelos Fire varieties.	4-6 weeks*
	6" pot	1 plant	1-2/sq ft	at 6-8 leaves	Required see notes		5-7 weeks*
	8" pot	2 plants	1/sq ft	at 6-8 leaves	Required see notes		5-7 weeks*
	12" pot	3 plants	1/sq ft	at 6-8 leaves	Required see notes		5-7 weeks*
Coreopsis	Quart	1 plant	–	–	–	Plant previous fall for sizing up gallons.	6-7 weeks
	Gallon	1 plant	–	–	–		7-9 weeks
Dracaena	4-6" pot	1 plant	–	–	–	–	8-12 weeks
EasyLiners™	6" pot	1 plant	–	week 3	Required see notes	After last pinch use Bonzi spray at 10-30 ppm or give a Bonzi soil drench at 3 ppm for longer lasting control.	9-12 weeks
	10-16" pot	2 plant	–	weeks 3 & 6	Required see notes		12-14 weeks
						Do not overwater. These are susceptible to root rot. Prevention treatment for Powdery Mildew may be necessary.	

SPECIE	SIZE	PER POT	SPACE	PINCH	PGR	NOTES	TOTAL CROP TIME
Echinacea	Gallon	1-2 plant	–	See notes	–	Pinch for more branching.	12-17 weeks
Gaillardia	Quart	1 plant	–	–	–	–	8-12 weeks
	Gallon	1 plant	–	–	–	–	8-14 weeks
Helianthus	6-8" pot	1 plant	–	at 6-7 leaves	Required see notes	Apply 2-3 ppm Bonzi® (paclobutrazol) drench 1-2 weeks after pinching; 2-3 ppm drench at first sign of visible buds; 2 ppm drench when flowers start cracking color to hold for finish. Higher rates may be necessary under high light and temperature conditions.	7-8 weeks
	10-12" pot	1-2 plant	–	at 6-7 leaves	Required see notes		7-8 weeks
	3" gal pot	2-3 plant	–	at 6-7 leaves	Required see notes		8-9 weeks
Heliopsis	Gallon	1 plant	–	–	–	–	9-11 weeks
Heuchera	Quart	1 plant	–	–	–	This schedule is not for finished in bloom. Do not bury crowns.	6 weeks
	Gallon	1 plant	–	–	–		10-14 weeks
Pennisetum	4" pot	1 plant	–	–	–	Color is brightest under high light.	4-6 weeks
Rudbeckia	Quart	1 plant	–	–	–	Not true perennials. Require good drainage.	7 weeks
	Gallon	1 plant	–	–	–		8-10 weeks
Vinca minor	Quart	1-2 plant	–	–	–	Needs time to bulk.	10 weeks
	Gallon	1-2 plant	–	–	–		10 weeks

Succulents

SPECIE	SIZE	PER POT	SPACE	PINCH	PGR	NOTES	TOTAL CROP TIME
Crassula	4-6" Pot	1 plant	-	-	-	Fast grower	6-8 weeks
Echeveria	4" Pot	1 plant	-	-	-	Fast grower	6-8 weeks
Kalanchoe	4-6" Pot	1 plant	-	-	-	Medium grower	10-14 weeks
Portulaca Succulents	4" Pot	3 plant	-	-	-	Slow Grower	16-20 weeks
Sedum Creeping	3-4" Pot	1 plant	-	-	-	Medium grower	10-14 weeks
Sempervivum	3-4" Pot	1 plant	-	-	-	Medium grower	10-14 weeks
Senecio	4" Pot	1 plant	-	-	-	Fast grower	6-8 weeks

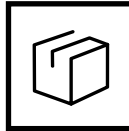


don't miss out
ON OUR OTHER
YOUNG
PLANTS

- COMBO KITS
- ANNUAL PLUGS
- ROOTED LINERS
- EDIBLES
- FOLIAGE
- PERENNIALS



**SCAN THE QR CODE TO
REQUEST A FREE CATALOG**



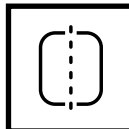
**WE CUSTOM
PACKAGE**

You can mix and match plugs and liners of various sizes in the same box!



**ENORMOUS
LISTING**

More than 3,000 varieties offered in multiple tray sizes, for every program or budget.



HALF-512 TRAY

We are offering annuals and vegetables in a half-512 tray! Get the benefit of low input costs while increasing the number of varieties that you can offer.





56 CRABBE ROAD, NORTHAMPTON
NEW BRUNSWICK, E7N 1R6 CANADA

CONNECT *with us*



✉ U.S. / P.O. Box 787 Houlton, ME 04730

☎ 800.695.8300 / 📠 800.863.7814

@ sales@jollyfarmer.com / 🌐 jollyfarmer.com

📘 📷 follow us on facebook & instagram

INTEGRITY, QUALITY & RELIABLE SERVICE

