



Garden Mums,
Pot Mums, Asters
and Fleurettes

2017 Catalog

syngenta flowers®

A large, dense bouquet of pink chrysanthemums in a black pot with a decorative band, sitting on a white pedestal on a porch. The background shows a white house with a wreath and a window, and a white chair. The text "Born of Nature, Bettered by Breeding" is overlaid in white.

Born of Nature,
Bettered by Breeding

Syngenta Flowers, Inc. is proud to introduce our 2017 Chrysanthemum program. As the industry leader, The Yoder® brand of Chrysanthemums is recognized for innovation. Built upon a tradition of excellence in breeding and production, it continues to be regarded by growers, retailers, and consumers as best in class. Today, Syngenta Flowers prides itself in supporting the industry and its growers with a complete clean stock program, vibrant assortment, the best technical support, and strong grower partnerships to ensure our reputation continues as a consistent and trusted supplier.

Our program is focused and built upon making North American growers successful. From our ever growing assortment of high performance families, to exciting new individual varieties, we continue to innovate and bring new choices to complete your programs.

Our shaded program charts will help you build an assortment for those earlier ship weeks. The Fresh-All-Fall program provides you with a system for Natural Season production planning. By grouping our varieties by color palette and response time, we have simplified your program to ensure you can deliver staged color all season long. The strength of our families make us your first choice for designing exciting combination programs that can work throughout the season.

Our assortment of pot mums will excite retailers and consumers. The novel colors and flower forms provide you with many options for weekly and special event programs.

This season we are proud to introduce several new families and varieties for your programs. Our goal is to offer you the best varieties and solutions. We want to thank you for your continued support and trust in us.

On the front cover: Patty™ Purple
 On the inside front cover: Nikki™ Dark Pink
 On the back cover: Milton™ Combo

Meet Your Mum Breeders



Mark Smith

CROPS

Garden mums. I have also had a hand in breeding other crops including Asters, Hibiscus, Lantana, Leucanthemum and various perennials.

NUMBER OF YEARS BREEDING

19 years

GREATEST ACCOMPLISHMENTS

Consulting one on one with growers to select varieties that have become a staple of grower's programs, such as Elena™ Gold and Beverly™ Bronze. Building on the family concept in mums to allow for easy mum combos throughout the fall natural season such as the Jacqueline™ family and Wanda™ family.

PERSONAL ACTIVITIES

I enjoy being in my yard, cooking and traveling with my wife of 20 years.



Wendy Bergman

CROPS

Yoder® Pot Chrysanthemums, Madinia™ Dipladinia, Bandana® Lantana, Sidekick™ Ipomoea, Bombay® Scaevola, Arabesque™ Penstemon

NUMBER OF YEARS BREEDING

20+ years

GREATEST ACCOMPLISHMENTS

Developing successful flower breeding programs from the ground up. My greatest reward is seeing a shopper pick up something I've bred and put it in their cart.

PERSONAL ACTIVITIES

Family, quilting, gardening and the great outdoors.

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New Varieties

New Varieties

Garden Mums



Arlette™ Purple

Purple/Dark Pink / Dec / Sm-Med / S-M
N = 36.5, Very Early / **S** = 37, Very Early / 6.5
 Variety 70067053



Ashley™ Red

Red / Dec / Sm-Med / M
N = 40.5, Mid-Late / **S** = 41, Mid-Late / 7
 Variety 70067019



Beverly™ Orange

Orange/Bronze / Dec / Med / M-L
N = 38.5, Early-Mid / **S** = 39, Early-Mid / 6.5
 Variety 70067020



Christina™ Red

Red / Dec / Med / M
N = 39, Mid / **S** = 39.5, Mid / 7.5
 Variety 70056068



Keeley™ Orange

Orange/Bronze / Dec / Med / S-M
N = 36.5, Very Early / **S** = 37.5, Early / 7
 Variety 70067047



Nikki™ Dark Pink

Purple/Dark Pink / Dec / Med / M
N = 41, Late / **S** = 42, Late / 7.5
 Variety 70067025



Nikki™ Orange

Orange/Bronze / Dec / Med / M
N = 41, Late / **S** = 42, Late / 7.5
 Variety 70067024



Nikki™ Yellow

Yellow/Gold / Dec / Med / M
N = 41, Late / **S** = 42, Late / 7.5
 Variety 70067027

Key: Color group / Flower form / Flower size / Plant vigor
 Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety

New Varieties

Garden Mums



Patty™ Pomegranate

Red / Dec / Med / M-L

N = 37.5, Early / **S** = 38.5, Early-Mid / 7

Variety 70067017



Rhonda™ Bronze

Orange/Bronze / Dec / Sm / M-L

N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5

Variety 70067036



Rhonda™ Pink

Pink/Lavender / Dec / Sm / M-L

N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5

Variety 70067039



Rhonda™ Purple

Purple/Dark Pink / Dec / Sm / M-L

N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5

Variety 70067038



Rhonda™ Red

Red / Dec / Sm / M-L

N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5

Variety 70067033



Rhonda™ White

White / Dec / Sm / M-L

N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5

Variety 70072189



Rhonda™ Yellow

Yellow/Gold / Dec / Sm / M-L

N = 42, Very Late / **S** = 43, Very Late / 8.5

Variety 70072192



Yvette™ Orange Bicolor

Orange/Bronze / Dec / Sm / M

N = 40, Mid-Late / **S** = 41, Mid-Late / 7

Variety 70066392

Key: Color group / Flower form / Flower size / Plant vigor

Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number

New Varieties

Pot Mums



Chowchilla™ Yellow

Yellow / Dsy / Med / 8 / S

Variety 70065613



Springdale™ Purple

Purple / Dsy / Med-Lg / 7.5 / M

Variety 70065612



LaBelle™ Dark Pink Bicolor

Pink / Dsy Bicolor / Med / 7.5 / S

Variety 70065620



Estes Park™ Purple Bicolor

Purple / Dsy Bicolor / Med / 8 / M

Variety 70065637



Clearview™ White

White / Dsy / Med / 7.5 / M

Variety 70065632



Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number



New variety

NEW VARIETIES 5

A close-up photograph of several red garden mums (Chrysanthemum) with bright yellow centers. The flowers are in various stages of bloom, with some fully open and others as buds. The petals are a deep, vibrant red, and the centers are a bright, sunny yellow. The background is dark and out of focus, making the flowers stand out.

Garden Mums



Garden Mums

Garden Mums

Yoder Garden Mums from Syngenta Flowers have a long history of outstanding performance for growers, retailers, and consumers. Whether grown as stand-alone varieties or in combination baskets and planters, growers can be confident Yoder Garden Mums will deliver a consistently beautiful crop.

Yoder Garden Mums can be grown using natural season or blackcloth production methods, which makes them a good fit with other seasonal crops grown in a protected environment or outdoors.

Yoder Garden Mums give growers the ability to stage color throughout the selling season. With proven varieties to choose from, growers are able to group their production by color and response time.

Growers can build their core natural-season program with Yoder Select Garden Mum varieties. With our Fresh-All-Fall table, growers can be sure they will be able to offer retailers and consumers a wide assortment of colors, flower forms and sizes sure to satisfy the most discerning buyer. All varieties have been trialed across North America so growers, retailers, and consumers can be confident Yoder Garden Mums will perform to the highest expectations wherever they are produced and displayed.

Starting with clean vegetative cuttings, Yoder Garden Mum varieties make it easy to produce consistent crops year round. Breeding of Yoder Garden Mums is focused on the development of key families that are well matched for flower timing, plant form and final size.

Garden Mum Families

Yoder Garden Mum families are the starting point for a successful mum program.

Families are bred in order for growers to produce a range of colors under a similar cultural program. Families are well matched for habit, vigor, and uniform timing across all colors. Several of our families will work for both Natural Season and Blackcloth production. When selecting for combinations recipes, the families are an ideal choice because all varieties within a family time and grow well together in mixed pots.



Jacqueline Family

Early natural season family with great plant flexibility for a wide range of container sizes

- Can be used in both blackcloth and natural season programs, and coastal California
- Perfectly round plant habit for a great show of color
- Great choice for combination programs



Jacqueline™ Yellow

Yellow/Gold / Dec / Sm-Med / M
N = 37, Early / **S** = 38, Early / 6.5
Variety 70038574



Jacqueline™ Orange Fusion

Orange/Bronze / Dec / Sm-Med / M
N = 37.5, Early / **S** = 38, Early / 6.5
Variety 70018841



Jacqueline™ Pink

Purple/Dark Pink / Dec / Sm-Med / M
N = 37.5, Early / **S** = 38, Early / 6.5
Variety 70038575



Jacqueline™ Peach Fusion

Pink/Lavender / Dec / Sm-Med / S-M
N = 37.5, Early / **S** = 38, Early / 6.5
Variety 70018868



Jacqueline™ Pearl

White / Dec / Sm-Med / M
N = 37, Early / **S** = 38, Early / 6.5
Variety 70018828

Key: Color group / Flower form / Flower size / Plant vigor
Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety



GARDEN MUMS 9

Ursula Family

Early season family for both natural season and blackcloth production

- Reliable flower timing and color retention with tolerance to temperature variations
- Works well in smaller to medium sized containers
- Attractive color mix for spring production



Ursula™ Sunny Yellow

Yellow/Gold / Dec / Med / S

N = 37, Early / **S** = 38, Early / 6.5

Variety 70018628



Ursula™ Fancy Orange

Orange/Bronze / Dec / Med / S

N = 37, Early / **S** = 37.5 Early / 6.5

Variety 70018840



Ursula™ Lavender

Pink/Lavender / Dec / Med / S-M

N = 37.5, Early / **S** = 38, Early / 6.5

Variety 70018633



Ursula™ Jazzy Coral

Pink/Lavender / Dec / Med / S

N = 37, Early / **S** = 37.5, Early / 6.5

Variety 70036120



Gigi Family

Cute, petite flowers that make a big statement in the fall

- Controlled habit and plant strength with a great show of flowers that never needs netting
- Mix and match colors within the Gigi family to create containers that correspond with the changing of the seasons
- Great choice for a wide range of small to medium containers, window boxes, color bowls, and mixed combinations
- Excellent performance for blackcloth programs



Gigi™ Gold

Yellow/Gold / Dec / Sm / S

N = 38, Early-Mid / **S** = 38.5, Early-Mid / 7

Variety 70018847



Gigi™ Yellow

Yellow/Gold / Dec / Sm / S

N = 38, Early-Mid / **S** = 38.5, Early-Mid / 7

Variety 70038553



Gigi™ Orange

Orange/Bronze / Dec / Sm / S

N = 38, Early-Mid / **S** = 38.5, Early-Mid / 7

Variety 70038551



Gigi™ Dark Pink

Purple/Dark Pink / Dec / Sm / S

N = 38, Early-Mid / **S** = 38.5, Early-Mid / 7

Variety 70038552



Gigi™ Snow

White / Dec / Sm / S

N = 38, Early-Mid / **S** = 38.5, Early-Mid / 7

Variety 70018902



Gigi™ Coral

Pink/Lavender / Dec / Sm / S

N = 38, Early-Mid / **S** = 38.5, Early-Mid / 7

Variety 70038550

Danielle Family

Early-mid season family that can be produced under blackcloth and natural season

- Works well in larger containers
- Grows well with Chelsey and Beverly families

Beverly Family

- The deep, striking colors of the Beverly family work well for landscape plantings
- Plants have the vigor for larger pots
- An early-mid season flowering family that can also work in blackcloth production
- Grows well with Chelsey and Danielle family



Danielle™ Purple

Purple/Dark Pink / Dec / Sm / M
N = 38, Early-Mid / **S** = 38.5, Early-Mid / 6.5
Variety 70021407



Danielle™ Red

Red / Dec / Sm / M
N = 38, Early-Mid / **S** = 38.5, Early-Mid / 6.5
Variety 70021406



Beverly™ Bronze

Orange/Bronze / Dec / Med / M-L
N = 38.5, Early-Mid / **S** = 39, Early-Mid / 6.5
Variety 70056069



Beverly™ Orange

Orange/Bronze / Dec / Med / M-L
N = 38.5, Early-Mid / **S** = 39, Early-Mid / 6.5
Variety 70067020

Key: Color group / Flower form / Flower size / Plant vigor
Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety

Chelsey Family

A versatile early-mid season garden mum

- Ideal flower size, round plant habit and uniform flowering
- Mix and match any color except coral in this family to create unique fall combinations for retail displays
- Pairs well with Danielle and Beverly families in blackcloth and natural season programs



Chelsey™ Yellow

Yellow/Gold / Dec / Med / E-M

N = 38, Early-Mid / **S** = 38.5, Early-Mid / 6.5

Variety 70038562



Chelsey™ Pink

Pink/Lavender / Dec / Med / E-M

N = 38.5, Early-Mid / **S** = 39, Early-Mid / 6.5

Variety 70038561



Chelsey™ White

White / Dec / Med / E-M

N = 38, Early-Mid / **S** = 38.5, Early-Mid / 6.5

Variety 70038560



Chelsey™ Coral

Pink/Lavender / Dec / Med / M

N = 39, Mid / **S** = 39.5, Mid / 6.5

Variety 70038563



GARDEN MUMS 13

Wanda Family

A mid season family that fits into any garden mum program

- Strong and rich colors hold up well through the season
- Works well in combinations
- Natural season timing falls between Chelsey and Cheryl families



Wanda™ Red

Red / Dec / Med-Lg / M

N = 39, Mid / **S** = 40, Mid / 6.5

Variety 70038636



Wanda™ Lavender

Pink/Lavender / Dec / Med-Lg / M

N = 38.5, Mid / **S** = 39.5, Mid / 6.5

Variety 70018871



Wanda™ Purple

Purple/Dark Pink / Dec / Med-Lg / M

N = 39, Mid / **S** = 40, Mid / 6.5

Variety 70021410



Cheryl Family

Mid-late family with bold colors for any crop

- A complete color family that holds up well under higher temperatures
- Good for blackcloth production
- Perfect natural season flowering response



Cheryl™ Golden

Yellow/Gold / Dec / Med / M

N = 40.5, Mid-Late / **S** = 41, Mid-Late / 7

Variety 70038554



Cheryl™ Sparkling Yellow

Yellow/Gold / Dec / Med / S-M

N = 40.5, Mid-Late / **S** = 40.5, Mid-Late / 7

Variety 70018867



Cheryl™ Spicy Orange

Orange/Bronze / Dec / Med / M

N = 40.5, Mid-Late / **S** = 41, Mid-Late / 7

Variety 70018620



Cheryl™ Jolly Red

Red / Dec / Med / S-M

N = 40.5, Mid-Late / **S** = 41, Mid-Late / 7

Variety 70018852



Cheryl™ Pink

Pink/Lavender / Dec / Med / M-L

N = 40, Mid-Late / **S** = 41.5, Mid-Late / 7

Variety 70018836



Cheryl™ Regal Purple

Purple/Dark Pink / Dec / Med / S-M

N = 40.5, Mid-Late / **S** = 41, Mid-Late / 7

Variety 70018609



Cheryl™ Frosty White

White / Dec / Med / M-L

N = 40.5, Mid-Late / **S** = 41, Mid-Late / 7

Variety 70018845

Key: Color group / Flower form / Flower size / Plant vigor
Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety

Nikki Family

The start of a new late season garden mum family for both blackcloth and natural season production

- Attractive flower size and colors
- Sturdy round plants with frost tolerance for late season longevity
- Great option for late season three-color combos



Nikki™ Dark Pink

Purple/Dark Pink / Dec / Med / M
N = 41, Late / **S** = 42, Late / 7.5

Variety 70067025



Nikki™ Orange

Orange/Bronze / Dec / Med / M
N = 41, Late / **S** = 42, Late / 7.5

Variety 70067024



Nikki™ Yellow

Yellow/Gold / Dec / Med / M
N = 41, Late / **S** = 42, Late / 7.5

Variety 70067027



Rhonda Family

Full color family for the very end of the fall garden mum season

- Needed vigor provides growers with the opportunity to shorten crop time even in larger containers
- Best choice for color longevity at the end of the season
- Proven frost tolerance to carry you through to the end of the season



Rhonda™ Yellow

Yellow/Gold / Dec / Sm / M-L

N = 42, Very Late / **S** = 43, Very Late / 8.5

Variety 70072192



Rhonda™ Bronze

Orange/Bronze / Dec / Sm / M-L

N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5

Variety 70067036



Rhonda™ Red

Red / Dec / Sm / M-L

N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5

Variety 70067033



Rhonda™ Pink

Pink/Lavender / Dec / Sm / M-L

N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5

Variety 70067039



Rhonda™ Purple

Purple/Dark Pink / Dec / Med / M-L

N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5

Variety 70067038



Rhonda™ White

White / Dec / Sm / M-L

N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5

Variety 70072189

Key: Color group / Flower form / Flower size / Plant vigor
Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety



Garden Mum Combos

Garden Mum Combinations

Consumers love to express themselves with color and there is no better way of doing that than with Yoder Garden Mum combinations.

Syngenta has responded to the popularity of combinations by providing a wide choice of varieties within our families that are well matched in habit and flower response timing.

We have families that can work throughout the natural season and under blackcloth, so you can continue to deliver a fresh assortment of exciting mixes throughout the fall season.

Knowing they have access to the expertise and production experience of Syngenta Flowers technical representatives, growers can be confident they can consistently produce colorful, high quality garden mum combos throughout the season

Chelsey™ Pink, Danielle™ Red,
Danielle™ Purple



Chelsey™ / Beverly™ combo





Gigi™ Snow, Gigi™ Yellow,
Gigi™ Dark Pink

Autumn Color™: Ursula™ Sunny Yellow,
Ursula™ Fancy Orange, Ursula™ Lavender



Jacqueline™ Pearl, Jacqueline™ Pink,
Jacqueline™ Yellow



Cheryl™ Golden,
Cheryl™ Regal Purple, Cheryl™ Frosty White

COMBO NAME	COMBO RECIPE	VARIETY NUMBER
A Trace Of Fall™	Gigi™ Gold	70018847
	Gigi™ Orange	70038551
	Gigi™ Coral	70038550
Autumn Morning™	Gigi™ Dark Pink	70038552
	Gigi™ Coral	70038550
	Gigi™ Snow	70018902
Acorn Lane™	Gigi™ Gold	70018847
	Gigi™ Orange	70038551
	Gigi™ Dark Pink	70038552
Mumberry™ Mix	Chelsey™ Yellow	70038562
	Beverly™ Bronze	70056069
	Danielle™ Red	70021406
Promise™ Mix	Danielle™ Red	70021406
	Chelsey™ Pink	70038561
	Danielle™ Purple	70021407
Southern Harvest™ Mix	Cheryl™ Golden	70038554
	Cheryl™ Spicy Orange	70018620
	Cheryl™ Jolly Red	70018852
Front Door™ Mix	Cheryl™ Pink	70018536
	Cheryl™ Regal Purple	70018609
	Cheryl™ Frosty	70018845
Pumpkin Patch™ Mix	Cheryl™ Golden	70038554
	Cheryl™ Spicy Orange	70018620
	Cheryl™ Regal Purple	70018609

Acorn Lane™ Combo: Gigi™ Orange,
Gigi™ Gold, Gigi™ Dark Pink

COMBO NAME	COMBO RECIPE	VARIETY NUMBER
Apple Cider™ Mix	Cheryl™ Golden	70038554
	Cheryl™ Jolly Red	70018852
	Cheryl™ Regal Purple	70018609
Mountain Drive™ Mix	Cheryl™ Jolly Red	70018852
	Cheryl™ Pink	70018536
	Cheryl™ Regal Purple	70018609
Autumn Color™ Mix	Ursula™ Sunny	70018628
	Ursula™ Fancy Orange	70018840
	Ursula™ Lavender	70018633
Harvest Fusion™ Mix	Jacqueline™ Yellow	70038574
	Jacqueline™ Orange Fusion	70018841
	Jacqueline™ Pink	70038575
Fall Berry™ Mix	Wanda™ Red	70038636
	Wanda™ Lavender	70018871
	Wanda™ Purple	70021410
Festival Fun™ Mix	Nikki™ Yellow	70067027
	Nikki™ Orange	70067024
	Nikki™ Dark Pink	70067025
Color My Fall™ Mix	Rhonda™ Yellow	70072192
	Rhonda™ Bronze	70067036
	Rhonda™ Red	70067033
Fall Creations™ Mix	Rhonda™ Pink	70067039
	Rhonda™ Purple	70067038
	Rhonda™ White	70072189

Yellow/Gold

VARIETY	Yoder Select™	Flower Form	Flower Size	Fall Response Time - North	Fall Response Group - North	Fall Response Time - South	Fall Response Group - South	Vigor	Shade Response	Spring	Blackcloth	Coastal CA	1.25 qt	3.0 qt	Patio	Hanging Baskets	Window Boxes
Bernadette™ Yellow		Anm	Med/Lg	Week 37	Early	Week 38	Early	L	6.5 Weeks				•	•			
Bethany™ Yellow		Dec	Sm/Med	Week 40.5	Mid-Late	Week 41.5	Late	S/M	7 Weeks				•				
Brittany™ Yellow	Yes	Dec	Med/Lg	Week 36.5	Very Early	Week 37	Very Early	M	6.5 Weeks				•	•	•		
Chelsey™ Yellow	Yes	Dec	Med	Week 38	Early-Mid	Week 38.5	Early-Mid	M/L	6.5 Weeks	•	•	•	•	•	•	•	
Cheryl™ Golden	Yes	Dec	Med	Week 40.5	Mid-Late	Week 41	Mid-Late	M	7 Weeks	•	•	•	•	•	•	•	
Cheryl™ Sparkling Yellow	Yes	Dec	Med	Week 40.5	Mid-Late	Week 40.5	Mid-Late	S/M	7 Weeks	•	•	•	•	•			
Dawn™ Yellow		Dec	Med	Week 37.5	Early	Week 38	Early	M	6.5 Weeks	•	•	•		•			
Elena™ Gold	Yes	Dec	Med	Week 37.5	Early	Week 37.5	Early	S/M	7 Weeks	•	•	•	•	•	•	•	•
Gigi™ Gold		Dec	Sm	Week 38	Early-Mid	Week 38.5	Early-Mid	S	7 Weeks	•	•	•	•	•		•	•
Gigi™ Yellow		Dec	Sm	Week 38	Early-Mid	Week 38.5	Early-Mid	S	7 Weeks	•	•	•	•	•		•	•
Hankie™ Yellow	Yes	Dsy	Med	Week 39.5	Mid	Week 40	Mid	L	7.5 Weeks		•			•	•		
Jacqueline™ Yellow	Yes	Dec	Sm/Med	Week 37	Early	Week 38	Early	M	6.5 Weeks		•	•	•	•	•	•	•
Makayla™ Yellow	Yes	Dec	Med	Week 41	Late	Week 41.5	Late	M	7 Weeks					•	•	•	
Mary™ Yellow		Dec	Med/Lg	Week 39	Mid	Week 39.5	Mid	M/L	6.5 Weeks					•	•		
Michelle™ Gold	Yes	Dsy	Med	Week 36	Very Early	Week 36.5	Very Early	M	6 Weeks	•	•	•		•		•	
Mildred™ Yellow		Dec	Lg	Week 41.5	Late	Week 42	Late	M/L	7.5 Weeks		•			•	•	•	•
Monica™ Sunny Yellow		Anm	Lg	Week 39	Mid	Week 39.5	Mid	M/L	7 Weeks	•	•	•		•	•	•	
Nikki™ Yellow	Yes	Dec	Med	Week 41	Late	Week 42	Late	M	7.5 Weeks		•	•		•	•	•	
Okra™ Yellow		Dec	Sm/Med	Week 38.5	Early-Mid	Week 39.5	Mid	M/L	8 Weeks			•		•		•	
Olga™ Yellow		Dec	Med	Week 38	Early-Mid	Week 38.5	Early-Mid	M/L	6.5 Weeks			•		•	•		
Rhonda™ Yellow	Yes	Dec	Sm	Week 42	Very Late	Week 43	Very Late	M/L	8.5 Weeks					•	•	•	
Stephany™ Yellow	Yes	Dec	Med/Lg	Week 42.5	Very Late	Week 43	Very Late	S	7.5 Weeks			•		•		•	•
Ursula™ Sunny Yellow		Dec	Med	Week 37	Early	Week 38	Early	S	6.5 Weeks	•	•	•	•	•	•	•	•
Wilma™ Yellow	Yes	Dec	Med	Week 39	Mid	Week 40	Mid	M	6.5 Weeks			•		•		•	
Yolanda™ Yellow	Yes	Dec	Med/Lg	Week 38	Early-Mid	Week 39	Early-Mid	S/M	6.5 Weeks	•	•	•	•	•		•	•

Key: VIGOR (S) Small mounding | (S/M) Small-Medium mounding | (M) Medium mounding | (M/L) Medium-Large mounding | (L) Large mounding
FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy



Bernadette™ Yellow

Yellow/Gold / Anm / Med-Lg / L
N = 37, Early / **S** = 38, Early / 6.5
 Variety 70018821



Bethany™ Yellow

Yellow/Gold / Dec / Sm-Med / S-M
N = 40.5, Mid-Late / **S** = 41.5, Late / 7
 Variety 70018822



Brittany™ Yellow

Yellow/Gold / Dec / Med-Lg / M
N = 36.5, Very Early / **S** = 37, Very Early / 6.5
 Variety 70049738



Chelsey™ Yellow

Yellow/Gold / Dec / Med / M-L
N = 38, Early-Mid / **S** = 38.5, Early-Mid / 6.5
 Variety 70038562



Cheryl™ Golden

Yellow/Gold / Dec / Med / M
N = 40.5, Mid-Late / **S** = 41, Mid-Late / 7
 Variety 70038554



Cheryl™ Sparkling Yellow

Yellow/Gold / Dec / Med / S-M
N = 40.5, Mid-Late / **S** = 40.5, Mid-Late / 7
 Variety 70018867



Dawn™ Yellow

Yellow/Gold / Dec / Med / M
N = 37.5, Early / **S** = 38, Early / 6.5
 Variety 70018833



Elena™ Gold

Yellow/Gold / Dec / Med / S-M
N = 37.5, Early / **S** = 37.5, Early / 7
 Variety 70018837

Key: Color group / Flower form / Flower size / Plant vigor
 Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety

Garden Mums



Gigi™ Gold

Yellow/Gold / Dec / Sm / S

N = 38, Early-Mid / **S** = 38.5, Early-Mid / 7

Variety 70018847



Gigi™ Yellow

Yellow/Gold / Dec / Sm / S

N = 38, Early-Mid / **S** = 38.5, Early-Mid / 7

Variety 70038553



Hankie™ Yellow

Yellow/Gold / Dsy / Med / L

N = 39.5, Mid / **S** = 40, Mid / 7.5

Variety 70018848



Jacqueline™ Yellow

Yellow/Gold / Dec / Sm-Med / M

N = 37, Early / **S** = 38, Early / 6.5

Variety 70038574



Makayla™ Yellow

Yellow/Gold / Dec / Med / M

N = 41, Late / **S** = 41.5, Late / 7

Variety 70049747



Mary™ Yellow

Yellow/Gold / Dec / Med-Lg / M-L

N = 39, Mid / **S** = 39.5, Mid / 6.5

Variety 70038577



Michelle™ Gold

Yellow/Gold / Dsy / Med / M

N = 36, Very Early / **S** = 36.5, Very Early / 6

Variety 70018648



Mildred™ Yellow

Yellow/Gold / Dec / Lg / M-L

N = 41.5, Late / **S** = 42, Late / 7.5

Variety 70021409

Key: Color group / Flower form / Flower size / Plant vigor

Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety



Monica™ Sunny Yellow

Yellow/Gold / Anm / Lg / M-L
N = 39, Mid / **S** = 39.5, Mid / 7
Variety 70018859



Nikki™ Yellow

Yellow/Gold / Dec / Med / M
N = 41, Late / **S** = 42, Late / 7.5
Variety 70067027



Okra™ Yellow

Yellow/Gold / Dec / Sm-Med / M-L
N = 38.5, Early-Mid / **S** = 39.5, Mid / 8
Variety 70018596



Olga™ Yellow

Yellow/Gold / Dec / Med / M-L
N = 38, Early-Mid / **S** = 38.5, Early-Mid / 6.5
Variety 70038581



Rhonda™ Yellow

Yellow/Gold / Dec / Sm / M-L
N = 42, Very Late / **S** = 43, Very Late / 8.5
Variety 70072192



Stephany™ Yellow

Yellow/Gold / Dec / Med-Lg / S
N = 42.5, Very Late / **S** = 43, Very Late / 7.5
Variety 70062016



Ursula™ Sunny Yellow

Yellow/Gold / Dec / Med / S
N = 37, Early / **S** = 38, Early / 6.5
Variety 70018628



Wilma™ Yellow

Yellow/Gold / Dec / Med / M
N = 39, Mid / **S** = 40, Mid / 6.5
Variety 70018874

Garden Mums



Yolanda™ Yellow

Yellow/Gold / Dec / Med-Lg / S-M

N = 38, Early-Mid / **S** = 39, Early-Mid / 6.5

Variety 70018875



GARDEN MUMS 27

Orange/Bronze

VARIETY	Yoder Select™	Flower Form	Flower Size	Fall Response Time - North	Fall Response Group - North	Fall Response Time - South	Fall Response Group - South	Vigor	Shade Response	Spring	Blackcloth	Coastal CA	1.25 qt	3.0 qt	Patio	Hanging Baskets	Window Boxes
Ashley™ Dark Orange	Yes	Dec	Sm/Med	Week 40	Mid-Late	Week 40.5	Mid-Late	M	7 Weeks					•			
Aubrey™ Orange		Dec	Med	Week 38.5	Early-Mid	Week 39	Early-Mid	M	7.5 Weeks					•	•		
Beverly™ Bronze	Yes	Dec	Med	Week 38.5	Early-Mid	Week 39	Early-Mid	M/L	6.5 Weeks	•	•	•		•	•	•	
Beverly™ Orange	Yes	Dec	Med	Week 38.5	Early-Mid	Week 39	Early-Mid	M/L	6.5 Weeks		•	•		•	•	•	
Cheryl™ Spicy Orange	Yes	Dec	Med	Week 40.5	Mid-Late	Week 41	Mid-Late	M	7 Weeks	•	•	•	•	•	•	•	
Electra™ Amber Imp.	Yes	Dec	Med	Week 37	Very Early	Week 37.5	Early	M/L	6.5 Weeks			•		•	•		
Fiona™ Coral Orange	Yes	Dec	Med	Week 37.5	Early	Week 37.5	Early	S/M	7 Weeks			•	•	•			•
Fiona™ Nutty Bronze		Dec	Med	Week 38	Early	Week 38	Early	S/M	7 Weeks			•	•	•			•
Gigi™ Orange		Dec	Sm	Week 38	Early-Mid	Week 38.5	Early-Mid	S	7 Weeks	•	•	•	•	•		•	•
Hailey™ Orange	Yes	Dec	Sm/Med	Week 39.5	Mid	Week 40.5	Mid-Late	S/M	7 Weeks		•	•	•	•	•	•	•
Hannah™ Orange		Dec	Med	Week 37.5	Early	Week 37	Very Early	M/L	6.5 Weeks			•		•	•		
Jacqueline™ Orange Fusion	Yes	Dec	Sm/Med	Week 37.5	Early	Week 38	Early	M	6.5 Weeks		•	•	•	•	•	•	•
Keeley™ Orange	Yes	Dec	Med	Week 36.5	Very Early	Week 37.5	Early	S/M	7 Weeks			•	•				•
Makenna™ Orange	Yes	Dec	Med/Lg	Week 41	Late	Week 41	Mid-Late	M	7 Weeks					•	•	•	
Miranda™ Orange		Dec	Med/Lg	Week 38	Early-Mid	Week 39	Early-Mid	S/M	7 Weeks	•	•	•	•	•		•	•
Nikki™ Orange	Yes	Dec	Med	Week 41	Late	Week 42	Late	M	7.5 Weeks		•	•		•	•	•	
Rhonda™ Bronze	Yes	Dec	Sm	Week 42.5	Very Late	Week 43.5	Very Late	M/L	8.5 Weeks					•	•	•	
Stacy™ Dazzling Orange	Yes	Dsy	Med/Lg	Week 38	Early-Mid	Week 39.5	Mid	M	7 Weeks			•		•	•	•	
Stephany™ Bronze	Yes	Dec	Med/Lg	Week 42.5	Very Late	Week 43	Very Late	S	7.5 Weeks			•		•		•	•
Ursula™ Fancy Orange		Dec	Med	Week 37	Early	Week 37.5	Early	S	6.5 Weeks	•	•	•	•	•		•	•
Ursula™ Jazzy Coral		Dec	Med	Week 37	Early	Week 37.5	Early	S	6.5 Weeks	•	•	•	•	•		•	•
Yvette™ Orange Bicolor	Yes	Dec	Sm	Week 40	Mid-Late	Week 41	Mid-Late	M	7 Weeks		•	•	•	•		•	•

Key: **VIGOR** (S) Small mounding | (S/M) Small-Medium mounding | (M) Medium mounding | (M/L) Medium-Large mounding | (L) Large mounding
FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy



Ashley™ Dark Orange

Orange/Bronze / Dec / Sm-Med / M
N = 40, Mid-Late / **S** = 40.5, Mid-Late / 7
 Variety 70018819



Aubrey™ Orange

Orange/Bronze / Dec / Med / M
N = 38.5, Early-Mid / **S** = 39, Early-Mid / 7.5
 Variety 70021415



Beverly™ Bronze

Orange/Bronze / Dec / Med / M-L
N = 38.5, Early-Mid / **S** = 39, Early-Mid / 6.5
 Variety 70056069



Beverly™ Orange

Orange/Bronze / Dec / Med / M-L
N = 38.5, Early-Mid / **S** = 39, Early-Mid / 6.5
 Variety 70067020



Cheryl™ Spicy Orange

Orange/Bronze / Dec / Med / M
N = 40.5, Mid-Late / **S** = 41, Mid-Late / 7
 Variety 70018620



Electra™ Amber Imp.

Orange/Bronze / Dec / Med / M-L
N = 37, Very Early / **S** = 37.5, Early / 6.5
 Variety 70063265



Fiona™ Coral Orange

Pink/Lavender / Dec / Med / S-M
N = 37.5, Early / **S** = 37.5, Early / 7
 Variety 70018842



Fiona™ Nutty Bronze

Orange/Bronze / Dec / Med / S-M
N = 38, Early / **S** = 38, Early / 7
 Variety 70038578

Key: Color group / Flower form / Flower size / Plant vigor
 Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety



Improved variety

Garden Mums



Gigi™ Orange

Orange/Bronze / Dec / Sm / S

N = 38, Early-Mid / **S** = 38.5, Early-Mid / 7

Variety 70038551



Hailey™ Orange

Orange/Bronze / Dec / Sm-Med / S-M

N = 39.5, Mid / **S** = 40.5, Mid-Late / 7

Variety 70038582



Hannah™ Orange

Orange/Bronze / Dec / Med / M-L

N = 37.5, Early / **S** = 37, Very Early / 6.5

Variety 70018647



Jacqueline™ Orange Fusion

Orange/Bronze / Dec / Sm-Med / M

N = 37.5, Early / **S** = 38, Early / 6.5

Variety 70018841



Keeley™ Orange

Orange/Bronze / Dec / Med / S-M

N = 36.5, Very Early / **S** = 37.5, Early / 7

Variety 70067047



Makenna™ Orange

Orange/Bronze / Dec / Med-Lg / M

N = 41, Late / **S** = 41, Mid-Late / 7

Variety 70038627



Miranda™ Orange

Orange/Bronze / Dec / Med-Lg / S-M

N = 38, Early-Mid / **S** = 39, Early-Mid / 7

Variety 70018858



Nikki™ Orange

Orange/Bronze / Dec / Med / M

N = 41, Late / **S** = 42, Late / 7.5

Variety 70067024

Key: Color group / Flower form / Flower size / Plant vigor

Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety



Improved variety



Rhonda™ Bronze

Orange/Bronze / Dec / Sm / M-L
N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5
Variety 70067036

Stacy™ Dazzling Orange

Orange/Bronze / Dsy / Med-Lg / M
N = 38, Early-Mid / **S** = 39.5, Mid / 7
Variety 70018548

Stephany™ Bronze

Orange/Bronze / Dec / Med-Lg / S
N = 42.5, Very Late / **S** = 43, Very Late / 7.5
Variety 70063273



Ursula™ Fancy Orange

Orange/Bronze / Dec / Med / S
N = 37, Early / **S** = 37.5 Early / 6.5
Variety 70018840

Ursula™ Jazzy Coral

Pink/Lavender / Dec / Med / S
N = 37, Early / **S** = 37.5, Early / 6.5
Variety 70036120



Yvette™ Orange Bicolor

Orange/Bronze / Dec / Sm / M
N = 40, Mid-Late / **S** = 41, Mid-Late / 7
Variety 70066392



Red

VARIETY	Yield Select™	Flower Form	Flower Size	Fall Response Time - North	Fall Response Group - North	Fall Response Time - South	Fall Response Group - South	Vigor	Shade Response	Spring	Blackcloth	Coastal CA	1.25 qt	3.0 qt	Patio	Hanging Baskets	Window Boxes
Aideen™ Red Fire	Yes	Dec	Sm/Med	Week 37	Very Early	Week 37	Very Early	S/M	6.5 Weeks		•	•	•	•	•	•	•
Ashley™ Red	Yes	Dec	Sm/Med	Week 40.5	Mid-Late	Week 41	Mid-Late	M	7 Weeks		•			•			
Bonnie™ Red		Dsy	Med	Week 37	Early	Week 37.5	Early	S/M	6.5 Weeks	•	•	•	•	•		•	•
Brandi™ Burgundy		Dec	Med	Week 39	Mid	Week 39.5	Mid	M	7 Weeks	•	•	•		•	•		
Cheryl™ Jolly Red	Yes	Dec	Med	Week 40.5	Mid-Late	Week 41	Mid-Late	S/M	7 Weeks	•	•	•	•	•	•	•	
Christina™ Red	Yes	Dec	Med	Week 39	Mid	Week 39.5	Mid	M	7.5 Weeks					•	•		
Danielle™ Red	Yes	Dec	Sm	Week 38	Early-Mid	Week 38.5	Early-Mid	M	6.5 Weeks	•	•	•		•	•	•	
Edana™ Red	Yes	Dsy	Med	Week 40.5	Mid-Late	Week 41.5	Late	S/M	7 Weeks	•	•	•	•	•		•	•
Emelda™ Red	Yes	Dup	Sm	Week 41	Late	Week 42	Late	S	7.5 Weeks				•	•		•	•
Helen™ Maroon		Dec	Med	Week 37.5	Early	Week 39	Early-Mid	M/L	6.5 Weeks					•	•		
Hestia™ Hot Red		Dec	Med	Week 37	Early	Week 38	Early	M	6.5 Weeks	•	•	•		•	•		
Kathleen™ Dark Red	Yes	Dec	Sm/Med	Week 42	Very Late	Week 42.5	Very Late	S	7.5 Weeks	•	•		•	•		•	•
Patty™ Pomegranate	Yes	Dec	Med	Week 37.5	Early	Week 38.5	Early-Mid	M/L	7 Weeks			•		•	•	•	
Raquel™ Ruby Red		Dec	Med	Week 40	Mid-Late	Week 41	Mid-Late	L	7 Weeks					•	•		
Rhonda™ Red	Yes	Dec	Sm	Week 42.5	Very Late	Week 43.5	Very Late	M/L	8.5 Weeks					•	•	•	
Tabitha™ Scarlet	Yes	Dec	Med	Week 37.5	Early	Week 39.5	Mid	M	7 Weeks	•	•	•	•	•	•	•	
Wanda™ Red	Yes	Dec	Med/Lg	Week 39	Mid	Week 40	Mid	M	6.5 Weeks	•	•	•	•	•	•	•	•

Key: VIGOR (S) Small mounding | (S/M) Small-Medium mounding | (M) Medium mounding | (M/L) Medium-Large mounding | (L) Large mounding
FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy



Aideen™ Red Fire

Red / Dec / Sm-Med / S-M

N = 37, Very Early / **S** = 37, Very Early / 6.5

Variety 70021416



Ashley™ Red

Red / Dec / Sm-Med / M

N = 40.5, Mid-Late / **S** = 41, Mid-Late / 7

Variety 70067019



Bonnie™ Red

Red / Dsy / Med / S-M

N = 37, Early / **S** = 37.5, Early / 6.5

Variety 70018824



Brandi™ Burgundy

Red / Dec / Med / M

N = 39, Mid / **S** = 39.5, Mid / 7

Variety 70018644



Cheryl™ Jolly Red

Red / Dec / Med / S-M

N = 40.5, Mid-Late / **S** = 41, Mid-Late / 7

Variety 70018852



Christina™ Red

Red / Dec / Med / M

N = 39, Mid / **S** = 39.5, Mid / 7.5

Variety 70056068



Danielle™ Red

Red / Dec / Small / M

N = 38, Early-Mid / **S** = 38.5, Early-Mid / 6.5

Variety 70021406



Edana™ Red

Red / Dsy / Med / S-M

N = 40.5, Mid-Late / **S** = 41.5, Late / 7

Variety 70021418

Key: Color group / Flower form / Flower size / Plant vigor
Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety



Improved variety

Garden Mums



Emelda™ Red

Red / Dup / Sm / S

N = 41, Late / **S** = 42, Late / 7.5

Variety 70063272



Helen™ Maroon

Red / Dec / Med / M-L

N = 37.5, Early / **S** = 39, Early-Mid / 6.5

Variety 70018574



Hestia™ Hot Red

Red / Dec / Med / M

N = 37, Early / **S** = 38, Early / 6.5

Variety 70021417



Kathleen™ Dark Red

Red / Dec / Sm-Med / S

N = 42, Very Late / **S** = 42.5, Very Late / 7.5

Variety 70038584



Patty™ Pomegranate

Red / Dec / Med / M-L

N = 37.5, Early / **S** = 38.5, Early-Mid / 7

Variety 70067017



Raquel™ Ruby Red

Red / Dec / Med / L

N = 40, Mid-Late / **S** = 41, Mid-Late / 7

Variety 70018605



Rhonda™ Red

Red / Dec / Sm / M-L

N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5

Variety 70067033



Tabitha™ Scarlet

Red / Dec / Med / M

N = 37.5, Early / **S** = 39.5, Mid / 7

Variety 70018658

Key: Color group / Flower form / Flower size / Plant vigor

Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety



Improved variety



Wanda™ Red

Orange/Bronze / Dsy / Med-Lg / M

N = 39, Mid / **S** = 40, Mid / 6.5

Variety 70038636



Purple/Dark Pink

VARIETY	Yoder Select™	Flower Form	Flower Size	Fall Response Time - North	Fall Response Group - North	Fall Response Time - South	Fall Response Group - South	Vigor	Shade Response	Spring	Blackcloth	Coastal CA	1.25 qt	3.0 qt	Patio	Hanging Baskets	Window Boxes
Alisha™ Dark Pink		Dsy	Med	Week 39.5	Mid	Week 40	Mid	S/M	7 Weeks	•	•	•	•	•		•	
Arlette™ Purple	Yes	Dec	Sm/Med	Week 36.5	Very Early	Week 37	Very Early	S/M	6.5 Weeks			•		•			
Beth™ Violet		Dec	Med	Week 37.5	Early	Week 39	Early-Mid	M	6.5 Weeks					•			
Cheryl™ Regal Purple	Yes	Dec	Med	Week 40.5	Mid-Late	Week 41	Mid-Late	S/M	7 Weeks	•	•	•	•	•	•	•	•
Danielle™ Purple	Yes	Dec	Sm	Week 38	Early-Mid	Week 38.5	Early-Mid	M	6.5 Weeks	•	•	•		•	•	•	
Emelda™ Purple	Yes	Dup	Sm	Week 41	Late	Week 42	Late	S	7.5 Weeks			•	•			•	•
Gigi™ Dark Pink		Dec	Sm	Week 38	Early-Mid	Week 38.5	Early-Mid	S	7 Weeks	•	•	•	•	•		•	•
Jacqueline™ Pink	Yes	Dec	Sm/Med	Week 37.5	Early	Week 38	Early	M	6.5 Weeks		•	•	•	•	•	•	•
Nikki™ Dark Pink	Yes	Dec	Med	Week 41	Late	Week 42	Late	M	7.5 Weeks		•	•		•	•	•	
Patty™ Purple	Yes	Dec	Med	Week 37.5	Early	Week 38.5	Early-Mid	M/L	7 Weeks			•		•	•	•	
Rhonda™ Purple	Yes	Dec	Sm	Week 42.5	Very Late	Week 43.5	Very Late	M/L	8.5 Weeks					•	•	•	
Wanda™ Purple	Yes	Dec	Med/Lg	Week 39	Mid	Week 40	Mid	M	6.5 Weeks	•	•	•	•	•	•	•	•

Key: **VIGOR** (S) Small mounding | (S/M) Small-Medium mounding | (M) Medium mounding | (M) | (M/L) Medium-Large mounding | (L) Large mounding
FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy



Alisha™ Dark Pink

Purple/Dark Pink / Dsy / Med / S-M
N = 39.5, Mid / **S** = 40, Mid / 7
 Variety 70018818



Arlette™ Purple

Purple/Dark Pink / Dec / Sm-Med / S-M
N = 36.5, Very Early / **S** = 37, Very Early / 6.5
 Variety 70067053



Beth™ Violet

Purple/Dark Pink / Dec / Med / M
N = 37.5, Early / **S** = 39, Early-Mid / 6.5
 Variety 70018523



Cheryl™ Regal Purple

Purple/Dark Pink / Dec / Med / S-M
N = 40.5, Mid-Late / **S** = 41, Mid-Late / 7
 Variety 70018609



Danielle™ Purple

Purple/Dark Pink / Dec / Small / M
N = 38, Early-Mid / **S** = 38.5, Early-Mid / 6.5
 Variety 70021407



Emelda™ Purple

Purple/Dark Pink / Dup / Sm / S
N = 41, Late / **S** = 42, Late / 7.5
 Variety 70038572



Gigi™ Dark Pink

Purple/Dark Pink / Dec / Sm / S
N = 38, Early-Mid / **S** = 38.5, Early-Mid / 7
 Variety 70038552



Jacqueline™ Pink

Purple/Dark Pink / Dec / Sm-Med / M
N = 37.5, Early / **S** = 38, Early / 6.5
 Variety 70038575

Key: Color group / Flower form / Flower size / Plant vigor
 Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety



Improved variety

Garden Mums



Nikki™ Dark Pink

Purple/Dark Pink / Dec / Med / M
N = 41, Late / **S** = 42, Late / 7.5
Variety 70067025

Patty™ Purple

Purple/Dark Pink / Dec / Med / M-L
N = 37.5, Early / **S** = 38.5, Early-Mid / 7
Variety 70049774



Rhonda™ Purple

Purple/Dark Pink / Dec / Sm / M-L
N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5
Variety 70067038

Wanda™ Purple

Purple/Dark Pink / Dec / Med-Lg / M
N = 39, Mid / **S** = 40, Mid / 6.5
Variety 70021410

Key: Color group / Flower form / Flower size / Plant vigor
Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.
Variety number



New variety



Improved variety





Pink/Lavender

VARIETY	Yoder Select™	Flower Form	Flower Size	Fall Response Time - North	Fall Response Group - North	Fall Response Time - South	Fall Response Group - South	Vigor	Shade Response	Spring	Blackcloth	Coastal CA	1.25 qt	3.0 qt	Patio	Hanging Baskets	Window Boxes
Chelsey™ Coral		Dec	Med	Week 39	Mid	Week 39.5	Mid	M/L	6.5 Weeks	•	•	•		•	•	•	
Chelsey™ Pink	Yes	Dec	Med	Week 38.5	Early-Mid	Week 39	Early-Mid	M/L	6.5 Weeks	•	•	•		•	•	•	
Cheryl™ Pink	Yes	Dec	Med	Week 41	Mid-Late	Week 41.5	Mid-Late	M/L	7 Weeks	•	•	•	•	•	•		
Gigi™ Coral		Dec	Sm	Week 38	Early-Mid	Week 38.5	Early-Mid	S	7 Weeks	•	•	•	•	•		•	•
Jacqueline™ Peach Fusion	Yes	Dec	Sm/Med	Week 37.5	Early	Week 38	Early	S/M	6.5 Weeks		•	•	•	•		•	•
Marsha™ Pink		Dsy	Med	Week 38	Early-Mid	Week 37.5	Early	M	6.5 Weeks	•	•			•	•		
Rhonda™ Pink	Yes	Dec	Sm	Week 42.5	VLate	Week 43.5	VLate	M/L	8.5 Weeks					•	•	•	
Stacy™ Pink	Yes	Dsy	Med/Lg	Week 38	Early-Mid	Week 39	Early-Mid	M	7 Weeks			•		•	•	•	
Susan™ Coral Pink	Yes	Spdr	Lg	Week 40	Mid-Late	Week 40.5	Mid-Late	L	6.5 Weeks	•	•	•		•			
Ursula™ Lavender		Dec	Med	Week 37.5	Early	Week 38	Early	S/M	6.5 Weeks	•	•	•	•	•	•	•	•
Wanda™ Lavender	Yes	Dec	Med/Lg	Week 38.5	Mid	Week 39.5	Mid	M	6.5 Weeks	•	•	•	•	•	•	•	•

Key: **VIGOR** (S) Small mounding | (S/M) Small-Medium mounding | (M) Medium mounding | (M/L) Medium-Large mounding | (L) Large mounding
FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy

Garden Mums



Chelsey™ Coral

Pink/Lavender / Dec / Med / M-L
N = 39, Mid / **S** = 39.5, Mid / 6.5
 Variety 70038563



Chelsey™ Pink

Pink/Lavender / Dec / Med / M-L
N = 38.5, Early-Mid / **S** = 39, Early-Mid / 6.5
 Variety 70038561



Cheryl™ Pink

Pink/Lavender / Dec / Med / M-L
N = 40, Mid-Late / **S** = 41.5, Mid-Late / 7
 Variety 70018536



Gigi™ Coral

Pink/Lavender / Dec / Sm / S
N = 38, Early-Mid / **S** = 38.5, Early-Mid / 7
 Variety 70038550



Jacqueline™ Peach Fusion

Pink/Lavender / Dec / Sm-Med / S-M
N = 37.5, Early / **S** = 38, Early / 6.5
 Variety 70018868



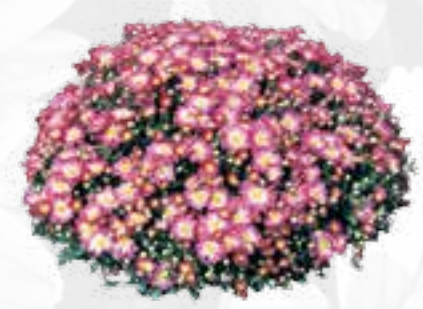
Marsha™ Pink

Pink/Lavender / Dsy / Med / M
N = 38, Early-Mid / **S** = 37.5, Early / 6.5
 Variety 70018854



Rhonda™ Pink

Pink/Lavender / Dec / Sm / M-L
N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5
 Variety 70067039



Stacy™ Pink

Pink/Lavender / Dsy / Med-Lg / M
N = 38, Early-Mid / **S** = 39, Early-Mid / 7
 Variety 70018623

Key: Color group / Flower form / Flower size / Plant vigor
 Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety



Improved variety

Garden Mums



Susan™ Coral Pink

Pink/Lavender / Spdr / Lg / L

N = 40, Mid-Late / **S** = 40.5, Mid-Late / 6.5

Variety 70049769



Ursula™ Lavender

Pink/Lavender / Dec / Med / S-M

N = 37.5, Early / **S** = 38, Early / 6.5

Variety 70018633



Wanda™ Lavender

Pink/Lavender / Dec / Med-Lg / M

N = 38.5, Mid / **S** = 439.5, Mid / 6.5

Variety 70018871

Key: Color group / Flower form / Flower size / Plant vigor

Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety



Improved variety





White

VARIETY	Yoder Select™	Flower Form	Flower Size	Fall Response Time - North	Fall Response Group - North	Fall Response Time - South	Fall Response Group - South	Vigor	Shade Response	Spring	Blackcloth	Coastal CA	1.25 qt	3.0 qt	Patio	Hanging Baskets	Window Boxes
Bertha™ White	Yes	Dec	Med/Lg	Week 37	Early	Week 37.5	Early	M	6.5 Weeks	•	•	•		•	•	•	
Chelsey™ White	Yes	Dec	Med	Week 38	Early-Mid	Week 38.5	Early-Mid	M/L	6.5 Weeks	•	•	•		•	•	•	
Cheryl™ Frosty White	Yes	Dec	Med	Week 40.5	Mid-Late	Week 41	Mid-Late	M/L	7 Weeks	•	•	•	•	•			
Edith™ White	Yes	Anm	Med/Lg	Week 36.5	Very Early	Week 36.5	Very Early	S/M	7 Weeks	•	•	•	•	•		•	•
Gigi™ Snow		Dec	Sm	Week 38	Early-Mid	Week 38.5	Early-Mid	S	7 Weeks	•	•	•	•	•		•	•
Jacqueline™ Pearl	Yes	Dec	Sm/Med	Week 37	Early	Week 38	Early	M	6.5 Weeks		•	•	•	•	•	•	•
Makenzie™ White	Yes	Dec	Med	Week 39.5	Mid	Week 40.5	Mid-Late	M	6.5 Weeks	•	•	•	•	•	•	•	•
Mildred™ White	Yes	Dec	Lg	Week 41.5	Late	Week 42	Late	M/L	7.5 Weeks		•	•		•	•	•	•
Rhonda™ White	Yes	Dec	Sm	Week 42.5	Very Late	Week 43.5	Very Late	M/L	8.5 Weeks					•	•	•	
Shannon™ White	Yes	Dec	Med/Lg	Week 36.5	Very Early	Week 36.5	Very Early	L	6 Weeks					•	•		
Vanna™ Snow	Yes	Dsy	Med	Week 37.5	Early	Week 38	Early	M	7 Weeks	•	•	•		•	•	•	
Wilma™ White	Yes	Dec	Med	Week 39	Mid	Week 40	Mid	M	6.5 Weeks			•		•	•	•	•

Key: **VIGOR** (S) Small mounding | (S/M) Small-Medium mounding | (M) Medium mounding | (M) | (M/L) Medium-Large mounding | (L) Large mounding
FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy



Bertha™ White

White / Dec / Med-Lg / M
N = 37, Early / **S** = 37.5, Early / 6.5
 Variety 70038580



Chelsey™ White

White / Dec / Med / M-L
N = 38, Early-Mid / **S** = 38.5, Early-Mid / 6.5
 Variety 70038560



Cheryl™ Frosty White

White / Dec / Med / M-L
N = 40.5, Mid-Late / **S** = 41, Mid-Late / 7
 Variety 70018845



Edith™ White

White / Anm / Med-Lg / S-M
N = 36.5, Very Early / **S** = 36.5, Very Early / 7
 Variety 70038579



Gigi™ Snow

White / Dec / Sm / S
N = 38, Early-Mid / **S** = 38.5, Early-Mid / 7
 Variety 70018902



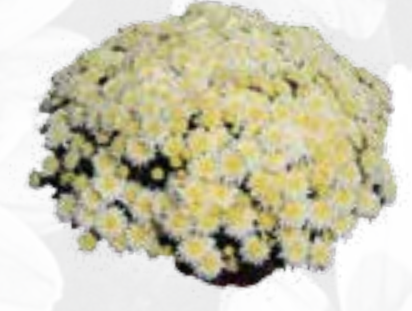
Jacqueline™ Pearl

White / Dec / Sm-Med / M
N = 37, Early / **S** = 38, Early / 6.5
 Variety 70018828



Makenzie™ White

White / Dec / Med / M
N = 39.5, Mid / **S** = 40.5, Mid-Late / 6.5
 Variety 70049795



Mildred™ White

White / Dec / Lg / M-L
N = 41.5, Late / **S** = 42, Late / 7.5
 Variety 70018857

Key: Color group / Flower form / Flower size / Plant vigor
 Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety



Improved variety

Garden Mums



Rhonda™ White

White / Dec / Sm / M-L

N = 42.5, Very Late / **S** = 43.5, Very Late / 8.5

Variety 70072189



Shannon™ White

Pink/Purple / Dec / Med-Lg / L

N = 36.5, Very Early / **S** = 36.5, Very Early / 6

Variety 70056059



Vanna™ Snow

Pink/Purple / Dsy / Med / M

N = 37.5, Early / **S** = 38, Early / 7

Variety 70018870



Wilma™ White

Lavender/Purple / Dec / Med / M

N = 39, Mid / **S** = 40, Mid / 6.5

Variety 70018873

Key: Color group / Flower form / Flower size / Plant vigor

Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.

Variety number



New variety



Improved variety





GARDEN MUMS 47

Montauk Daisy



VARIETY	Yoder Select™	Flower Form	Flower Size	Fall Response Time - North	Fall Response Group - North	Fall Response Time - South	Fall Response Group - South	Vigor	Shade Response	1.25 qt	3.0 qt	Patio	Hanging Baskets	Window Boxes
Montauk Daisy	Dsy	Lg	Week 39.5	Mid	Week 39.5	Mid		7 Weeks	•	•	•			

Key: **VIGOR** (S) Small mounding | (S/M) Small-Medium mounding | (M) Medium mounding | (M/L) Medium-Large mounding | (L) Large mounding
FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy

With its glossy green leaves and large daisy flowers, Montauk daisy is a real eye-catcher at retail, and is a simple addition to your existing garden mum program



Montauk Daisy

White / Dsy / Lg

N = 39.5, Mid / **S** = 39.5, Mid / 7

Variety 70018157

Key: Color group / Flower form / Flower size / Plant vigor
Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.
Variety number

- Excellent for summer production
- The Montauk Daisy is a programmable perennial that behaves like a mum
- Showy flowers and very glossy foliage make it a consumer favorite
- Not recommended for cool weather production and needs to be pinched



GARDEN MUMS 49



Technical Data

Garden Mums

Family

Yellow / Gold

Orange / Bronze

Red

Purple / Dark Pink

Pink / Lavender

White

SPRING SELECTIONS

GIGI™ 7 Weeks	Gigi™ Yellow Gigi Gold	Gigi™ Orange	Kathleen™ Dark Red ■	Gigi™ Dark Pink	Gigi™ Coral	Gigi™ Snow
CHERYL™ 7 Weeks	Cheryl™ Golden Cheryl™ Sparkling Yellow	Cheryl™ Spicy Orange	Cheryl™ Jolly Red ▼ Brandi™ Burgundy ▲	Cheryl™ Regal Purple ▼	Cheryl™ Pink	Cheryl™ Frosty White
URSULA™ 6.5 Weeks	Ursula™ Sunny Yellow	Ursula™ Fancy Orange Ursula™ Jazzy Coral	Tabitha™ Scarlet Hestia™ Hot Red		Ursula™ Lavender	Makenzie™ White
WANDA™ et al 6.5/7 Weeks	Yolanda™ Yellow Elena™ Gold ■	Miranda™ Orange ▼ Beverly™ Bronze ▲	Wanda™ Red Hestia™ Hot Red	Wanda™ Purple	Wanda™ Lavender	Makenzie™ White
CHELSEY™ et al 6.5 Weeks	Chelsey™ Yellow Dawn™ Yellow	Beverly™ Bronze	Danielle™ Red ▼ Hestia™ Hot Red	Danielle™ Purple ▼	Chelsey™ Pink Chelsey™ Coral	Chelsey™ White Bertha™ White
DAISY 6.5/7 Weeks	Michelle™ Gold Monica™ Sunny Yellow		Bonnie™ Red ▼ Edana™ Red ▼	Alisha™ Dark Pink ▼	Marsha™ Pink	Edith™ White Vanna™ Snow
SPECIAL					Susan™ Coral Pink	

BLACKCLOTH

GIGI™ 7 Weeks	Gigi™ Yellow Gigi™ Gold	Gigi™ Orange Hailey™ Orange	Aideen™ Red Fire ▲ Kathleen™ Dark Red ■	Gigi™ Dark Pink	Gigi™ Coral	Gigi™ Snow
CHERYL™ 7 Weeks	Cheryl™ Golden Cheryl™ Sparkling Yellow	Cheryl™ Spicy Orange	Cheryl™ Jolly Red ▼ Brandi™ Burgundy ▲	Cheryl™ Regal Purple ▼	Cheryl™ Pink	Cheryl™ Frosty White ▲
URSULA™ 6.5 Weeks	Ursula™ Sunny Yellow Yolanda™ Yellow	Ursula™ Fancy Orange Ursula™ Jazzy Coral	Aideen™ Red Fire Tabitha™ Scarlet ▲		Ursula™ Lavender	Makenzie™ White
JACQUELINE™ 6.5 Weeks	Jacqueline™ Yellow	Jacqueline™ Orange Fusion ●	Tabitha™ Scarlet	Jacqueline™ Pink	Jacqueline™ Peach Fusion ●	Jacqueline™ Pearl
WANDA™ 6.5 Weeks	Elena™ Gold ▼ Dawn™ Yellow ■	Miranda™ Bronze ▼	Wanda™ Red Hestia™ Hot Red ▲	Wanda™ Purple	Wanda™ Lavender	Bertha™ White ▲
NIKKI™ 7.5 Weeks	Nikki™ Yellow Mildred™ Yellow ▲	Nikki™ Orange		Nikki™ Dark Pink		Mildred™ White ▲
CHELSEY™ 6.5 Weeks	Chelsey™ Yellow	Beverly™ Bronze Beverly™ Orange	Danielle™ Red ▼ Hestia™ Hot Red	Danielle™ Purple ▼	Chelsey™ Pink Chelsey™ Coral ●	Chelsey™ White Bertha™ White
DAISY 6.5 + 7 Weeks	Michelle™ Gold ■ Monica™ Sunny Yellow		Bonnie™ Red Edana™ Red	Alisha™ Dark Pink ■	Marsha™ Pink ▲	Edith™ White Vanna™ Snow

- Will likely flower a bit slower than the rest of the varieties in this group
- ▲ Will likely need more growth regulators than other varieties in this group
- ▼ Likely need less growth regulators than other varieties in this group
- Color will fade in hot greenhouses
- Not recommended for 2.5 or 3.0 gal pots in blackcloth

Response listed is for plants between stage 2 and 3. Plan to ship about 1 week earlier.
Groups listed in order of vigor from most compact to most vigorous, followed by daisies

Response Week

YELLOW / GOLD

Flower Form

Fall Response Time

ORANGE / BRONZE

Flower Form

Fall Response Time

RED

Flower Form

Fall Response Time

FRESH-ALL-FALL: NORTH

VERY EARLY Week 37 and earlier	Michelle™ Gold ☺	Dsy	Week 36	Keeley™ Orange N ☺	Dec	Week 36.5	Aideen™ Red Fire ☺	Dec	Week 37	
	Brittany™ Yellow ☺	Dec	Week 36.5	Electra™ Amber Imp. ☺	Dec	Week 37				
EARLY Week 37 to Week 37.5	Ursula™ Sunny Yellow	Dec	Week 37	Ursula™ Fancy Orange	Dec	Week 37	Bonnie™ Red	Dsy	Week 37	
	Jacqueline™ Yellow ☺	Dec	Week 37	Ursula™ Jazzy Coral	Dec	Week 37	Hestia™ Hot Red	Dec	Week 37	
	Bernadette™ Yellow	Anm	Week 37	Fiona™ Coral Orange ☺	Dec	Week 37.5	Helen™ Maroon	Dec	Week 37.5	
	Elena™ Gold ☺	Dec	Week 37.5	Hannah™ Orange	Dec	Week 37.5	Patty™ Pomegranate N ☺	Dec	Week 37.5	
	Dawn™ Yellow	Dec	Week 37.5	Jacqueline™ Orange Fusion ☺	Dec	Week 37.5	Tabitha™ Scarlet ☺	Dec	Week 37.5	
					Fiona™ Nutty Bronze	Dec	Week 38			
EARLY-MID Week 38 to Week 38.5	Yolanda™ Yellow ☺	Dec	Week 38	Gigi™ Orange	Dec	Week 38	Danielle™ Red ☺	Dec	Week 38	
	Gigi™ Yellow	Dec	Week 38	Miranda™ Orange	Dec	Week 38				
	Gigi™ Gold	Dec	Week 38	Stacy™ Dazzling Orange ☺	Dsy	Week 38				
	Olga™ Yellow	Dec	Week 38	Beverly™ Bronze ☺	Dec	Week 38.5				
	Chelsey™ Yellow ☺	Dec	Week 38	Beverly™ Orange ☺	Dec	Week 38.5				
	Okra™ Yellow	Dec	Week 38.5	Aubrey™ Orange ☺	Dec	Week 38.5				
MID Week 38.5 to Week 39.5	Monica™ Sunny Yellow	Anm	Week 39	Hailey™ Orange ☺	Dec	Week 39.5	Brandi™ Burgundy	Dec	Week 39	
	Mary™ Yellow	Dec	Week 39				Christina™ Red N ☺	Dec	Week 39	
	Wilma™ Yellow ☺	Dec	Week 39				Wanda™ Red ☺	Dec	Week 39	
	Hankie™ Yellow ☺	Dsy	Week 39.5							
MID-LATE Week 40 to Week 41	Cheryl™ Sparkling Yellow ☺	Dec	Week 40.5	Ashley™ Dark Orange ☺	Dec	Week 40	Raquel™ Ruby Red	Dec	Week 40	
	Cheryl™ Golden ☺	Dec	Week 40.5	Yvette™ Orange Bicolor ☺	Dec	Week 40	Ashley™ Red N ☺	Dec	Week 40.5	
	Bethany™ Yellow	Dec	Week 40.5	Cheryl™ Spicy Orange ☺	Dec	Week 40.5	Cheryl™ Jolly Red ☺	Dec	Week 40.5	
						Edana™ Red ☺	Dsy	Week 40.5		
LATE Week 41 to Week 41.5	Makayla™ Yellow ☺	Dec	Week 41	Makenna™ Orange ☺	Dec	Week 41	Emelda™ Red ☺	Dup	Week 41	
	Nikki™ Yellow N ☺	Dec	Week 41	Nikki™ Orange N ☺	Dec	Week 41				
	Mildred™ Yellow ☺	Dec	Week 41.5							
VERY LATE Week 42 and later	Rhonda™ Yellow N ☺	Dec	Week 42	Stephany™ Bronze ☺	Dec	Week 42.5	Kathleen™ Dark Red ☺	Dec	Week 42	
	Stephany™ Yellow ☺	Dec	Week 42.5	Rhonda™ Bronze N ☺	Dec	Week 42.5	Rhonda™ Red N ☺	Dec	Week 42.5	

- N** New for 2017
- ☺** Yoder Select™

Key: FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy
Response listed is for plants between stage 2 and 3. Plan to ship about 7-14 days earlier.

**PURPLE /
DARK PINK**

Flower Form

Fall Response Time

PINK / LAVENDER

Flower Form

Fall Response Time

WHITE

Flower Form

Fall Response Time

Arlette™ Purple N Y	Dec	Week 36.5				Shannon™ White Y	Dec	Week 36.5
						Edith™ White Y	Anm	Week 36.5
Jacqueline™ Pink Imp Y	Dec	Week 37.5	Ursula™ Lavender	Dec	Week 37.5	Bertha™ White Y	Dec	Week 37
Patty™ Purple Y	Dec	Week 37.5	Jacqueline™ Peach Fusion Y	Dec	Week 37.5	Jacqueline™ Pearl Y	Dec	Week 37
Beth™ Violet	Dec	Week 37.5				Vanna™ Snow Y	Dsy	Week 37.5
Gigi™ Dark Pink	Dec	Week 38	Marsha™ Pink	Dsy	Week 38	Gigi™ Snow	Dec	Week 38
Danielle™ Purple Y	Dec	Week 38	Gigi™ Coral	Dec	Week 38	Chelsey™ White Y	Dec	Week 38
			Stacy™ Pink Y	Dsy	Week 38			
			Chelsey™ Pink Y	Dec	Week 38.5			
Wanda™ Purple Y	Dec	Week 39	Wanda™ Lavender Y	Dec	Week 38.5	Wilma™ White Y	Dec	Week 39
Alisha™ Dark Pink	Dsy	Week 39.5	Chelsey™ Coral	Dec	Week 39	Makenzie™ White Y	Dec	Week 39.5
Cheryl™ Regal Purple Y	Dec	Week 40.5	Susan™ Coral Pink Y	Spdr	Week 40	Cheryl™ Frosty White Y	Dec	Week 40.5
			Cheryl™ Pink Y	Dec	Week 41			
Emelda™ Purple Y	Dup	Week 41				Mildred™ White Y	Dec	Week 41.5
Nikki™ Dark Pink N Y	Dec	Week 41						
Rhonda™ Purple N Y	Dec	Week 42.5	Rhonda™ Pink N Y	Dec	Week 42.5	Rhonda™ White N Y	Dec	Week 42.5

Response Week

YELLOW / GOLD
Flower Form
Fall Response Time
ORANGE / BRONZE
Flower Form
Fall Response Time
RED
Flower Form
Fall Response Time

FRESH-ALL-FALL: SOUTH

VERY EARLY Week 37 and earlier	Michelle™ Gold ☺	Dsy	Week 36	Hannah™ Orange	Dec	Week 37	Aideen™ Red Fire ☺	Dec	Week 37
	Brittany™ Yellow ☺	Dec	Week 36.5						
EARLY Week 37 to Week 37.5	Elena™ Gold ☺	Dec	Week 37.5	Ursula™ Jazzy Coral	Dec	Week 37.5	Bonnie™ Red	Dsy	Week 37.5
	Ursula™ Sunny Yellow	Dec	Week 38	Fiona™ Coral Orange ☺	Dec	Week 37.5	Hestia™ Hot Red	Dec	Week 38
	Jacqueline™ Yellow ☺	Dec	Week 38	Keeley™ Orange N ☺	Dec	Week 37.5			
	Bernadette™ Yellow	Anm	Week 38	Electra™ Amber Imp. ☺	Dec	Week 37.5			
	Dawn™ Yellow	Dec	Week 38	Ursula™ Fancy Orange	Dec	Week 37.5			
				Jacqueline™ Orange Fusion ☺	Dec	Week 38			
				Fiona™ Nutty Bronze	Dec	Week 38			
EARLY-MID Week 38 to Week 38.5	Gigi™ Yellow	Dec	Week 38.5	Gigi™ Orange	Dec	Week 38.5	Patty™ Pomegranate N ☺	Dec	Week 38.5
	Gigi™ Gold	Dec	Week 38.5	Miranda™ Orange	Dec	Week 39	Danielle™ Red ☺	Dec	Week 38.5
	Chelsey™ Yellow ☺	Dec	Week 38.5	Beverly™ Bronze N ☺	Dec	Week 39	Helen™ Maroon	Dec	Week 39
	Olga™ Yellow	Dec	Week 38.5	Beverly™ Orange ☺	Dec	Week 39			
	Yolanda™ Yellow ☺	Dec	Week 39	Aubrey™ Orange	Dec	Week 39			
MID Week 38.5 to Week 39.5	Okra™ Yellow	Dec	Week 39.5	Stacy™ Dazzling Orange ☺	Dsy	Week 39.5	Tabitha™ Scarlet ☺	Dec	Week 39.5
	Monica™ Sunny Yellow	Anm	Week 39.5				Brandi™ Burgundy	Dec	Week 39.5
	Mary™ Yellow	Dec	Week 39.5				Christina™ Red N ☺	Dec	Week 39.5
	Wilma™ Yellow ☺	Dec	Week 40				Wanda™ Red ☺	Dec	Week 40
	Hankie™ Yellow ☺	Dsy	Week 40						
MID-LATE Week 40 to Week 41	Cheryl™ Sparkling Yellow ☺	Dec	Week 40.5	Hailey™ Orange ☺	Dec	Week 40.5	Ashley™ Red N ☺	Dec	Week 41
	Cheryl™ Golden ☺	Dec	Week 41	Ashley™ Dark Orange ☺	Dec	Week 40.5	Cheryl™ Jolly Red ☺	Dec	Week 41
				Yvette™ Orange Bicolor N ☺	Dec	Week 41	Raquel™ Ruby Red	Dec	Week 41
				Cheryl™ Spicy Orange ☺	Dec	Week 41			
				Makenna™ Orange ☺	Dec	Week 41			
LATE Week 41 to Week 41.5	Bethany™ Yellow	Dec	Week 41.5	Nikki™ Orange N ☺	Dec	Week 42	Edana™ Red ☺	Dsy	Week 41.5
	Makayla™ Yellow ☺	Dec	Week 41.5				Emelda™ Red ☺	Dup	Week 42
	Nikki™ Yellow N ☺	Dec	Week 42						
	Mildred™ Yellow ☺	Dec	Week 42						
VERY LATE Week 42 and later	Stephany™ Yellow ☺	Dec	Week 43	Stephany™ Bronze ☺	Dec	Week 43	Kathleen™ Dark Red ☺	Dec	Week 42.5
	Rhonda™ Yellow N ☺	Dec	Week 43	Rhonda™ Bronze N ☺	Dec	Week 43.5	Rhonda™ Red N ☺	Dec	Week 43.5

N New for 2017
☺ Yoder Select™

Key: FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy
Response listed is for plants between stage 2 and 3. Plan to ship about 7-14 days earlier.

Garden Mums

**PURPLE /
DARK PINK**

Flower Form

Fall Response Time

PINK / LAVENDER


































Flower Form

Fall Response Time

WHITE

Flower Form

Fall Response Time

Arlette™ Purple  	Dec	Week 36.5				Shannon™ White 	Dec	Week 36.5
						Edith™ White 	Anm	Week 36.5
Jacqueline™ Pink Imp. 	Dec	Week 38	Marsha™ Pink	Dsy	Week 37.5	Bertha™ White 	Dec	Week 37.5
			Ursula™ Lavender	Dec	Week 38	Jacqueline™ Pearl 	Dec	Week 37.5
			Jacqueline™ Peach Fusion 	Dec	Week 38	Vanna™ Snow 	Dsy	Week 38
Patty™ Purple 	Dec	Week 38.5	Gigi™ Coral	Dec	Week 38.5	Gigi™ Snow	Dec	Week 38.5
Gigi™ Dark Pink	Dec	Week 38.5	Stacy™ Pink 	Dsy	Week 39	Chelsey™ White 	Dec	Week 38.5
Danielle™ Purple 	Dec	Week 38.5	Chelsey™ Pink 	Dec	Week 39			
Beth™ Violet	Dec	Week 39						
Wanda™ Purple 	Dec	Week 40	Wanda™ Lavender 	Dec	Week 39.5	Wilma™ White 	Dec	Week 40
Alisha™ Dark Pink	Dsy	Week 40	Chelsey™ Coral	Dec	Week 39.5			
Cheryl™ Regal Purple 	Dec	Week 41	Susan™ Coral Pink 	Spdr	Week 40.5	Makenzie™ White 	Dec	Week 40.5
			Cheryl™ Pink 	Dec	Week 41.5	Cheryl™ Frosty White 	Dec	Week 41
Emelda™ Purple 	Dup	Week 42				Mildred™ White 	Dec	Week 42
Nikki™ Dark Pink  	Dec	Week 42						
Rhonda™ Purple   	Dec	Week 43.5	Rhonda™ Pink  	Dec	Week 43.5	Rhonda™ White  	Dec	Week 43.5



	Response August	Response October	Pot Size	For Sales in	Yellow/Gold	Orange / Bronze	Red	Purple / Dark Pink	Pink / Lavender	White
COASTAL CALIFORNIA RECOMMENDATIONS										
URSULA™ GROUP	7.5 Weeks	6.5 Weeks	Sm	Aug Sep	Ursula™ Sunny Yellow Ursula™ Jazzy Coral	Ursula™ Fancy Orange	Aideen™ Red Fire Tabitha™ Scarlet ▲		Ursula™ Lavender	Edith™ White ● Bertha™ White ▲
GIGI™ GROUP	8.5 Weeks	7 Weeks	Sm	Aug Sep	Gigi™ Yellow Gigi™ Gold	Gigi™ Orange	Aideen™ Red Fire ▲	Gigi™ Dark Pink	Gigi™ Coral	Gigi™ Snow
CHERYL™ GROUP	10.5 Weeks	7.5 Weeks	Sm-Med	Sep Oct	Cheryl™ Sparkling Yellow Cheryl™ Golden	Cheryl™ Spicy Orange	Cheryl™ Jolly Red ■ ▼	Cheryl™ Regal Purple ■ ▲	Cheryl™ Pink ■	Cheryl™ Frosty White
WANDA™ / WILMA™ GROUP	8.5 Weeks	7 Weeks	Med	Aug Sep Oct	Wilma™ Yellow Elena™ Gold ■ ▼	Miranda™ Orange ▼ Beverly™ Bronze ■	Wanda™ Red Tabitha™ Scarlet	Wanda™ Purple	Wanda™ Lavender	Makenzie™ White ▼ Wilma™ White
CHELSEY™ GROUP	8.5 Weeks	7 Weeks	Med	Aug Sep Oct	Chelsey™ Yellow Dawn™ Yellow	Beverly™ Bronze ■ Hannah™ Orange	Hestia™ Hot Red Danielle™ Red ■	Danielle™ Purple ■	Chelsey™ Pink Chelsey™ Coral	Chelsey™ White
EARLY Large Pots	5.5 Weeks	6 Weeks	Lg	Aug Sep	Ursula™ Sunny Yellow Olga™ Yellow ■	Hannah™ Orange ▲ ★ Electra™ Amber Imp.	Aideen™ Red Fire		Ursula™ Lavender	Bertha™ White
REGULAR Large Pots	7 Weeks	6.5 Weeks	Lg	Aug Sep Oct	Chelsey™ Yellow Elena™ Gold ▼	Beverly™ Bronze ■	Wanda™ Red ▼ Brandi™ Burgundy	Wanda™ Purple ▼	Chelsey™ Pink Chelsey™ Coral	Chelsey™ White
LATE Large Pots	8.5 Weeks	7.5 Weeks	Lg	Sep Oct	Cheryl™ Golden	Cheryl™ Spicy Orange Fiona™ Coral Orange	Cheryl™ Jolly Red ■ ▼	Cheryl™ Regal Purple ■ ▼	Cheryl™ Pink ■	Mildred™ White
DAISIES	8 Weeks	7 Weeks	Sm-Med	Aug Sep Oct	Michelle™ Gold	Stacy™ Dazzling Orange	Bonnie™ Red	Alisha™ Dark Pink ■	Stacy™ Pink	Edith™ White
	9 Weeks	7.5 Weeks			Monica™ Sunny Yellow ■		Edana™ Red ■			Vanna Snow ■

- Will likely flower a bit slower than the rest of the varieties in this group
- ▲ Will likely need more growth regulators than other varieties in this group
- ▼ Likely need less growth regulators than other varieties in this group
- ★ Best with a net in large containers
- For late season crops only

Response listed is for plants between stage 2 and 3. Plan to ship about 1 week earlier.
Groups listed in order of vigor from most compact to most vigorous, followed by daisies



Garden Mums

GARDEN MUMS 57

Variety

GARDEN MUMS AT-A-GLANCE

	Yoder Select™	Family	Color Group	Flower Form	Flower Size	Plant Vigor	Fall Crack Color - North	Fall Response Time - North	Fall Response Group - North	Fall Crack Color - South	Fall Response Time - South	Fall Response Group - South	Shade Response
Aideen™ Red Fire	☑		Red	Dec	Sm/Med	S/M	Week 35	Week 37	Very Early	Week 35	Week 37	Very Early	6.5 Weeks
Alisha™ Dark Pink			Purple/Dark Pink	Dsy	Med	S/M	Week 37.5	Week 39.5	Mid	Week 38	Week 40	Mid	7 Weeks
Arlette™ Purple N	☑		Purple/Dark Pink	Dec	Sm/Med	S/M	Week 34.5	Week 36.5	Very Early	Week 35	Week 37	Very Early	6.5 Weeks
Ashley™ Dark Orange	☑	Ashley	Orange/Bronze	Dec	Sm/Med	M	Week 37.5	Week 40	Mid-Late	Week 38.5	Week 40.5	Mid-Late	7 Weeks
Ashley™ Red N	☑	Ashley	Red	Dec	Sm/Med	M	Week 38	Week 40.5	Mid-Late	Week 39	Week 41	Mid-Late	7 Weeks
Aubrey™ Orange			Orange/Bronze	Dec	Med	M	Week 37	Week 38.5	Early-Mid	Week 37.5	Week 39	Early-Mid	7.5 Weeks
Bernadette™ Yellow			Yellow/Gold	Anm	Med/Lg	L	Week 35	Week 37	Early	Week 36	Week 38	Early	6.5 Weeks
Bertha™ White	☑		White	Dec	Med/Lg	M	Week 35	Week 37	Early	Week 35.5	Week 37.5	Early	6.5 Weeks
Bethany™ Yellow			Yellow/Gold	Dec	Sm/Med	S/M	Week 38.5	Week 40.5	Mid-Late	Week 39.5	Week 41.5	Late	7 Weeks
Beth™ Violet			Purple/Dark Pink	Dec	Med	M	Week 35	Week 37.5	Early	Week 36.5	Week 39	Early-Mid	6.5 Weeks
Beverly™ Bronze	☑	Beverly	Orange/Bronze	Dec	Med	M/L	Week 36.5	Week 38.5	Early-Mid	Week 37.5	Week 39	Early-Mid	6.5 Weeks
Beverly™ Orange N	☑	Beverly	Orange/Bronze	Dec	Med	M/L	Week 36.5	Week 38.5	Early-Mid	Week 37.5	Week 39	Early-Mid	6.5 Weeks
Bonnie™ Red			Red	Dsy	Med	S/M	Week 35	Week 37	Early	Week 35.5	Week 37.5	Early	6.5 Weeks
Brandi™ Burgundy			Red	Dec	Med	M	Week 36.5	Week 39	Mid	Week 37	Week 39.5	Mid	7 Weeks
Brittany™ Yellow	☑		Yellow/Gold	Dec	Med/Lg	M	Week 34.5	Week 36.5	Very Early	Week 35	Week 37	Very Early	6.5 Weeks
Chelsey™ Coral		Chelsey	Pink/Lavender	Dec	Med	M/L	Week 37.5	Week 39	Mid	Week 38	Week 39.5	Mid	6.5 Weeks
Chelsey™ Pink	☑	Chelsey	Pink/Lavender	Dec	Med	M/L	Week 37	Week 38.5	Early-Mid	Week 37.5	Week 39	Early-Mid	6.5 Weeks
Chelsey™ White	☑	Chelsey	White	Dec	Med	M/L	Week 36.5	Week 38	Early-Mid	Week 37	Week 38.5	Early-Mid	6.5 Weeks
Chelsey™ Yellow	☑	Chelsey	Yellow/Gold	Dec	Med	M/L	Week 36.5	Week 38	Early-Mid	Week 37	Week 38.5	Early-Mid	6.5 Weeks
Cheryl™ Frosty White	☑	Cheryl	White	Dec	Med	M/L	Week 38	Week 40.5	Mid-Late	Week 39	Week 41	Mid-Late	7 Weeks
Cheryl™ Golden	☑	Cheryl	Yellow/Gold	Dec	Med	M	Week 38	Week 40.5	Mid-Late	Week 39	Week 41	Mid-Late	7 Weeks
Cheryl™ Jolly Red	☑	Cheryl	Red	Dec	Med	S/M	Week 38	Week 40.5	Mid-Late	Week 39	Week 41	Mid-Late	7 Weeks
Cheryl™ Pink	☑	Cheryl	Pink/Lavender	Dec	Med	M/L	Week 38.5	Week 41	Mid-Late	Week 39.5	Week 41.5	Mid-Late	7 Weeks
Cheryl™ Regal Purple	☑	Cheryl	Purple/Dark Pink	Dec	Med	S/M	Week 38	Week 40.5	Mid-Late	Week 39	Week 41	Mid-Late	7 Weeks
Cheryl™ Sparkling Yellow	☑	Cheryl	Yellow/Gold	Dec	Med	S/M	Week 38	Week 40.5	Mid-Late	Week 38.5	Week 40.5	Mid-Late	7 Weeks

N New for 2017

☑ Yoder Select™

Key: VIGOR (S) Small mounding | (S/M) Small-Medium mounding | (M) Medium mounding (M) | (M/L) Medium-Large mounding | (L) Large mounding

FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy

Garden Mums

Spring	Blackcloth	Coastal CA	1.25 qt	3.0 qt	Patio	Hanging Baskets	Window Boxes	Rooting	No-Pinch Blackcloth	Temp Tolerance - Blackcloth	Keeping Quality Rate	Landscape Varieties	Fall High Temp Variety
	•	•	•	•	•	•	•	F	Good	Very Good	Good	•	•
•	•	•	•	•		•		M/S	Good	Average	Good	•	•
		•		•					Average	Good	Very Good	•	•
				•				M	Average	Good	Good	•	•
	•			•					Average	Good	Good	•	•
				•	•			M	Average	Average	Good	•	•
				•	•			M/F	Poor	Good	Very Good	•	
•	•	•		•	•	•		M	Very Good	Very Good	Good	•	•
				•				M	Poor	Average	Very Good	•	
				•				M	Poor	Average	Average		
•	•	•		•	•	•			Very Good	Good	Good	•	•
	•	•		•	•	•			Very Good	Good	Good	•	
•	•	•	•	•		•	•	M/S	Good	Good	Average	•	•
•	•	•		•	•			M	Poor	Good	Very Good	•	•
				•	•	•		M	Good	Good	Good	•	•
•	•	•		•	•	•		M	Very Good	Good	Average		
•	•	•		•	•	•		M	Very Good	Very Good	Good	•	•
•	•	•		•	•	•		M	Very Good	Very Good	Very Good	•	•
•	•	•		•	•	•		M	Very Good	Very Good	Very Good	•	•
•	•	•	•	•				M/F	Poor	Very Good	Good		•
•	•	•	•	•	•	•	•	M/F	Poor	Very Good	Good	•	•
•	•	•	•	•	•	•	•	M/F	Poor	Very Good	Average		
•	•	•	•	•	•	•	•	M/F	Poor	Very Good	Good	•	•
•	•	•	•	•	•	•	•	M/F	Poor	Very Good	Good	•	•
•	•	•	•	•	•			M/F	Poor	Very Good	Good	•	•
•	•	•	•	•	•			M/F	Poor	Very Good	Good	•	•



Variety

GARDEN MUMS AT-A-GLANCE

	Yoder Select™	Family	Color Group	Flower Form	Flower Size	Plant Vigor	Fall Crack Color - North	Fall Response Time - North	Fall Response Group - North	Fall Crack Color - South	Fall Response Time - South	Fall Response Group - South	Shade Response
Cheryl™ Spicy Orange	☑	Cheryl	Orange/Bronze	Dec	Med	M	Week 38	Week 40.5	Mid-Late	Week 39	Week 41	Mid-Late	7 Weeks
Christina™ Red ^N	☑		Red	Dec	Med	M	Week 37	Week 39	Mid	Week 37.5	Week 39.5	Mid	7.5 Weeks
Danielle™ Purple	☑	Danielle	Purple/Dark Pink	Dec	Sm	M	Week 36.5	Week 38	Early-Mid	Week 37	Week 38.5	Early-Mid	6.5 Weeks
Danielle™ Red	☑	Danielle	Red	Dec	Sm	M	Week 36.5	Week 38	Early-Mid	Week 37	Week 38.5	Early-Mid	6.5 Weeks
Dawn™ Yellow			Yellow/Gold	Dec	Med	M	Week 35.5	Week 37.5	Early	Week 35.5	Week 38	Early	6.5 Weeks
Edana™ Red	☑		Red	Dsy	Med	S/M	Week 39	Week 40.5	Mid-Late	Week 40	Week 41.5	Late	7 Weeks
Edith™ White	☑		White	Anm	Med/Lg	S/M	Week 35	Week 36.5	Very Early	Week 35	Week 36.5	Very Early	7 Weeks
Electra™ Amber Imp.	☑		Orange/Bronze	Dec	Med	M/L	Week 35	Week 37	Very Early	Week 35.5	Week 37.5	Early	6.5 Weeks
Elena™ Gold	☑		Yellow/Gold	Dec	Med	S/M	Week 35.5	Week 37.5	Early	Week 35.5	Week 37.5	Early	7 Weeks
Emelda™ Purple	☑	Emelda	Purple/Dark Pink	Dup	Sm	S	Week 39	Week 41	Late	Week 40.5	Week 42	Late	7.5 Weeks
Emelda™ Red	☑	Emelda	Red	Dup	Sm	S	Week 39	Week 41	Late	Week 40.5	Week 42	Late	7.5 Weeks
Fiona™ Coral Orange	☑	Fiona	Orange/Bronze	Dec	Med	S/M	Week 35.5	Week 37.5	Early	Week 35.5	Week 37.5	Early	7 Weeks
Fiona™ Nutty Bronze		Fiona	Orange/Bronze	Dec	Med	S/M	Week 36	Week 38	Early	Week 36	Week 38	Early	7 Weeks
Gigi™ Coral		Gigi	Pink/Lavender	Dec	Sm	S	Week 36	Week 38	Early-Mid	Week 36.5	Week 38.5	Early-Mid	7 Weeks
Gigi™ Dark Pink		Gigi	Purple/Dark Pink	Dec	Sm	S	Week 36	Week 38	Early-Mid	Week 36.5	Week 38.5	Early-Mid	7 Weeks
Gigi™ Gold		Gigi	Yellow/Gold	Dec	Sm	S	Week 36	Week 38	Early-Mid	Week 36.5	Week 38.5	Early-Mid	7 Weeks
Gigi™ Orange		Gigi	Orange/Bronze	Dec	Sm	S	Week 36	Week 38	Early-Mid	Week 36.5	Week 38.5	Early-Mid	7 Weeks
Gigi™ Snow		Gigi	White	Dec	Sm	S	Week 36	Week 38	Early-Mid	Week 36.5	Week 38.5	Early-Mid	7 Weeks
Gigi™ Yellow		Gigi	Yellow/Gold	Dec	Sm	S	Week 36	Week 38	Early-Mid	Week 36.5	Week 38.5	Early-Mid	7 Weeks
Hailey™ Orange	☑		Orange/Bronze	Dec	Sm/Med	S/M	Week 37	Week 39.5	Mid	Week 38.5	Week 40.5	Mid-Late	7 Weeks
Hankie™ Yellow	☑		Yellow/Gold	Dsy	Med	L	Week 38	Week 39.5	Mid	Week 38.5	Week 40	Mid	7.5 Weeks
Hannah™ Orange			Orange/Bronze	Dec	Med	M/L	Week 35.5	Week 37.5	Early	Week 35	Week 37	Very Early	6.5 Weeks
Helen™ Maroon			Red	Dec	Med	M/L	Week 35	Week 37.5	Early	Week 36.5	Week 39	Early-Mid	6.5 Weeks
Hestia™ Hot Red			Red	Dec	Med	M	Week 34.5	Week 37	Early	Week 35.5	Week 38	Early	6.5 Weeks

^N New for 2017

☑ Yoder Select™

Key: VIGOR (S) Small mounding | (S/M) Small-Medium mounding | (M) Medium mounding (M) | (M/L) Medium-Large mounding | (L) Large mounding

FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy

Garden Mums

Spring	Blackcloth	Coastal CA	1.25 qt	3.0 qt	Patio	Hanging Baskets	Window Boxes	Rooting	No-Pinch Blackcloth	Temp Tolerance - Blackcloth	Keeping Quality Rate	Landscape Varieties	Fall High Temp Variety
•	•	•	•	•	•	•		M/F	Poor	Very Good	Good	•	•
				•	•				Average	Poor	Good	•	•
•	•	•		•	•	•		M/F	Very Good	Good	Average		•
•	•	•		•	•	•		M/F	Very Good	Good	Average		
•	•	•		•				F	Good	Average	Very Good	•	•
•	•	•	•	•		•	•	M/F	Very Good	Average	Average		
•	•	•	•	•		•	•	S	Very Good	Good	Good	•	•
		•		•	•			M	Average	Very Good	Very Good	•	•
•	•	•	•	•	•	•	•	M/S	Very Good	Very Good	Very Good	•	•
			•	•		•	•	S	Very Good	Average	Good		•
			•	•		•	•	S	Very Good	Average	Good		•
		•	•	•		•	•	S	Poor	Very Good	Very Good	•	•
			•	•		•	•	S	Poor	Very Good	Good	•	•
•	•	•	•	•		•	•	M/S	Very Good	Average	Good	•	•
•	•	•	•	•		•	•	M/S	Very Good	Average	Good	•	•
•	•	•	•	•		•	•	M/S	Very Good	Average	Good	•	•
•	•	•	•	•		•	•	M/S	Very Good	Average	Good	•	•
•	•	•	•	•		•	•	M/S	Very Good	Average	Good	•	•
	•		•	•	•	•	•	M	Very Good	Average	Good	•	•
	•			•	•			M	Very Good	Average	Average		•
		•		•	•			M	Poor	Very Good	Very Good	•	•
				•	•			M	Poor	Average	Good	•	
•	•	•		•	•			F	Average	Average	Good	•	•



Variety

GARDEN MUMS AT-A-GLANCE

	Yoder Select™	Family	Color Group	Flower Form	Flower Size	Plant Vigor	Fall Crack Color - North	Fall Response Time - North	Fall Response Group - North	Fall Crack Color - South	Fall Response Time - South	Fall Response Group - South	Shade Response
Jacqueline™ Orange Fusion	☑	Jacqueline	Orange/Bronze	Dec	Sm/Med	M	Week 36	Week 37.5	Early	Week 36.5	Week 38	Early	6.5 Weeks
Jacqueline™ Peach Fusion	☑	Jacqueline	Pink/Lavender	Dec	Sm/Med	S/M	Week 36	Week 37.5	Early	Week 36.5	Week 38	Early	6.5 Weeks
Jacqueline™ Pearl	☑	Jacqueline	White	Dec	Sm/Med	M	Week 35.5	Week 37	Early	Week 36.5	Week 38	Early	6.5 Weeks
Jacqueline™ Pink	☑	Jacqueline	Purple/Dark Pink	Dec	Sm/Med	M	Week 36	Week 37.5	Early	Week 36.5	Week 38	Early	6.5 Weeks
Jacqueline™ Yellow	☑	Jacqueline	Yellow/Gold	Dec	Sm/Med	M	Week 35.5	Week 37	Early	Week 36.5	Week 38	Early	6.5 Weeks
Kathleen™ Dark Red	☑		Red	Dec	Sm/Med	S	Week 40	Week 42	Very Late	Week 40.5	Week 42.5	Very Late	7.5 Weeks
Keeley™ Orange N	☑		Orange/Bronze	Dec	Med	S/M	Week 34.5	Week 36.5	Very Early	Week 35.5	Week 37.5	Early	7 Weeks
Makayla™ Yellow	☑		Yellow/Gold	Dec	Med	M	Week 39.5	Week 41	Late	Week 40	Week 41.5	Late	7 Weeks
Makenna™ Orange	☑		Orange/Bronze	Dec	Med/Lg	M	Week 39	Week 41	Late	Week 39	Week 41	Mid-Late	7 Weeks
Makenzie™ White	☑		White	Dec	Med	M	Week 37.5	Week 39.5	Mid	Week 39	Week 40.5	Mid-Late	6.5 Weeks
Marsha™ Pink			Pink/Lavender	Dsy	Med	M	Week 36.5	Week 38	Early-Mid	Week 35.5	Week 37.5	Early	6.5 Weeks
Mary™ Yellow			Yellow/Gold	Dec	Med/Lg	M/L	Week 37	Week 39	Mid	Week 37.5	Week 39.5	Mid	6.5 Weeks
Michelle™ Gold	☑		Yellow/Gold	Dsy	Med	M	Week 34.5	Week 36	Very Early	Week 35	Week 36.5	VEarly	6 Weeks
Mildred™ White	☑	Mildred	White	Dec	Lg	M/L	Week 39	Week 41.5	Late	Week 40	Week 42	Late	7.5 Weeks
Mildred™ Yellow		Mildred	Yellow/Gold	Dec	Lg	M/L	Week 39	Week 41.5	Late	Week 40	Week 42	Late	7.5 Weeks
Miranda™ Orange			Orange/Bronze	Dec	Med/Lg	S/M	Week 36	Week 38	Early-Mid	Week 37	Week 39	Early-Mid	7 Weeks
Monica™ Sunny Yellow			Yellow/Gold	Anm	Lg	M/L	Week 37	Week 39	Mid	Week 37.5	Week 39.5	Mid	7 Weeks
Nikki™ Dark Pink N	☑	Nikki	Purple/Dark Pink	Dec	Med	M	Week 39	Week 41	Late	Week 40.5	Week 42	Late	7.5 Weeks
Nikki™ Orange N	☑	Nikki	Orange/Bronze	Dec	Med	M	Week 39	Week 41	Late	Week 40.5	Week 42	Late	7.5 Weeks
Nikki™ Yellow N	☑	Nikki	Yellow/Gold	Dec	Med	M	Week 39	Week 41	Late	Week 40.5	Week 42	Late	7.5 Weeks
Okra™ Yellow			Yellow/Gold	Dec	Sm/Med	M/L	Week 36.5	Week 38.5	Early-Mid	Week 37.5	Week 39.5	Mid	8 Weeks
Olga™ Yellow			Yellow/Gold	Dec	Med	M/L	Week 36	Week 38	Early-Mid	Week 36.5	Week 38.5	Early-Mid	6.5 Weeks
Patty™ Pomegranate N	☑	Patty	Red	Dec	Med	M/L	Week 35.5	Week 37.5	Early	Week 36.5	Week 38.5	Early-Mid	7 Weeks
Patty™ Purple	☑	Patty	Purple/Dark Pink	Dec	Med	M/L	Week 35.5	Week 37.5	Early	Week 36.5	Week 38.5	Early-Mid	7 Weeks
Raquel™ Ruby Red			Red	Dec	Med	L	Week 37.5	Week 40	Mid-Late	Week 38.5	Week 41	Mid-Late	7 Weeks

N New for 2017

☑ Yoder Select™

Key: **VIGOR** (S) Small mounding | (S/M) Small-Medium mounding | (M) Medium mounding (M) | (M/L) Medium-Large mounding | (L) Large mounding

FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy

Garden Mums

	Spring	Blackcloth	Coastal CA	1.25 qt	3.0 qt	Patio	Hanging Baskets	Window Boxes	Rooting	No-Pinch Blackcloth	Temp Tolerance - Blackcloth	Keeping Quality Rate	Landscape Varieties	Fall High Temp Variety
		•		•	•	•	•	•	M/S	Very Good	Average	Good	•	•
		•		•	•		•	•	M/S	Very Good	Average	Good	•	
		•		•	•	•	•	•	M/S	Very Good	Average	Good	•	•
		•		•	•	•	•	•	M/S	Very Good	Average	Good	•	•
		•		•	•	•	•	•	M/S	Very Good	Average	Good	•	•
	•	•		•	•		•	•	M	Very Good	Average	Good	•	•
				•	•			•		Average	Good	Good	•	
				•	•	•	•		M	Very Good	Poor	Average	•	•
				•	•	•	•		M	Good	Average	Good	•	•
	•	•	•	•	•	•	•	•	M	Good	Good	Good	•	•
	•	•			•	•			M	Average	Very Good	Good	•	•
				•	•				S	Average	Good	Very Good	•	•
	•	•	•	•	•		•		F	Very Good	Very Good	Good	•	•
		•	•	•	•	•	•		S	Very Good	Poor	Very Good	•	•
		•		•	•	•	•		S	Very Good	Poor	Very Good	•	
	•	•	•	•	•		•	•	M	Average	Average	Average		•
	•	•	•		•	•	•		S	Good	Average	Average		
		•	•	•	•	•	•			Good	Good	Very Good	•	•
		•	•	•	•	•	•			Good	Good	Good	•	•
		•	•	•	•	•	•			Good	Good	Very Good	•	•
			•	•	•		•		S	Very Good	Average	Average		
			•	•	•	•	•		S	Average	Average	Very Good	•	•
			•	•	•	•	•			Average	Average	Good	•	•
			•	•	•	•	•		M	Average	Average	Good	•	•
				•	•	•			M	Poor	Average	Good	•	•



Variety

Yoder Select™

Family

Color Group

Flower Form

Flower Size

Plant Vigor

Fall Crack Color - North

Fall Response Time - North

Fall Response Group - North

Fall Crack Color - South

Fall Response Time - South

Fall Response Group - South

Shade Response

GARDEN MUMS AT-A-GLANCE

Rhonda™ Bronze N	☑	Rhonda	Orange/Bronze	Dec	Sm	M/L	Week 41	Week 42.5	Very Late	Week 42	Week 43.5	Very Late	8.5 Weeks
Rhonda™ Pink N	☑	Rhonda	Pink/Lavender	Dec	Sm	M/L	Week 41	Week 42.5	Very Late	Week 42	Week 43.5	Very Late	8.5 Weeks
Rhonda™ Purple N	☑	Rhonda	Purple/Dark Pink	Dec	Sm	M/L	Week 41	Week 42.5	Very Late	Week 42	Week 43.5	Very Late	8.5 Weeks
Rhonda™ Red N	☑	Rhonda	Red	Dec	Sm	M/L	Week 41	Week 42.5	Very Late	Week 42	Week 43.5	Very Late	8.5 Weeks
Rhonda™ White N	☑	Rhonda	White	Dec	Sm	M/L	Week 41	Week 42.5	Very Late	Week 42	Week 43.5	Very Late	8.5 Weeks
Rhonda™ Yellow N	☑	Rhonda	Yellow/Gold	Dec	Sm	M/L	Week 40.5	Week 42	Very Late	Week 41.5	Week 43	Very Late	8.5 Weeks
Shannon™ White	☑		White	Dec	Med/Lg	L	Week 35	Week 36.5	Very Early	Week 35	Week 36.5	VEarly	6 Weeks
Stacy™ Dazzling Orange	☑	Stacy	Orange/Bronze	Dsy	Med/Lg	M	Week 36	Week 38	Early-Mid	Week 37.5	Week 39.5	Mid	7 Weeks
Stacy™ Pink	☑	Stacy	Pink/Lavender	Dsy	Med/Lg	M	Week 36	Week 38	Early-Mid	Week 37	Week 39	Early-Mid	7 Weeks
Stephany™ Bronze	☑	Stephany	Orange/Bronze	Dec	Med/Lg	S	Week 40.5	Week 42.5	Very Late	Week 41.5	Week 43	Very Late	7.5 Weeks
Stephany™ Yellow	☑	Stephany	Yellow/Gold	Dec	Med/Lg	S	Week 40.5	Week 42.5	Very Late	Week 41.5	Week 43	Very Late	7.5 Weeks
Susan™ Coral Pink	☑		Pink/Lavender	Spdr	Lg	L	Week 37.5	Week 40	Mid-Late	Week 39.5	Week 40.5	Mid-Late	6.5 Weeks
Tabitha™ Scarlet	☑		Red	Dec	Med	M	Week 35.5	Week 37.5	Early	Week 37	Week 39.5	Mid	7 Weeks
Ursula™ Fancy Orange		Ursula	Orange/Bronze	Dec	Med	S	Week 35.5	Week 37	Early	Week 35.5	Week 37.5	Early	6.5 Weeks
Ursula™ Jazzy Coral		Ursula	Orange/Bronze	Dec	Med	S	Week 35.5	Week 37	Early	Week 35.5	Week 37.5	Early	6.5 Weeks
Ursula™ Lavender		Ursula	Pink/Lavender	Dec	Med	S/M	Week 36	Week 37.5	Early	Week 36	Week 38	Early	6.5 Weeks
Ursula™ Sunny Yellow		Ursula	Yellow/Gold	Dec	Med	S	Week 35.5	Week 37	Early	Week 36	Week 38	Early	6.5 Weeks
Vanna™ Snow	☑		White	Dsy	Med	M	Week 36	Week 37.5	Early	Week 36	Week 38	Early	7 Weeks
Wanda™ Lavender	☑	Wanda	Pink/Lavender	Dec	Med/Lg	M	Week 36	Week 38.5	Mid	Week 37.5	Week 39.5	Mid	6.5 Weeks
Wanda™ Purple	☑	Wanda	Purple/Dark Pink	Dec	Med/Lg	M	Week 37	Week 39	Mid	Week 38	Week 40	Mid	6.5 Weeks
Wanda™ Red	☑	Wanda	Red	Dec	Med/Lg	M	Week 37	Week 39	Mid	Week 38	Week 40	Mid	6.5 Weeks
Wilma™ White	☑	Wilma	White	Dec	Med	M	Week 37	Week 39	Mid	Week 38	Week 40	Mid	6.5 Weeks
Wilma™ Yellow	☑	Wilma	Yellow/Gold	Dec	Med	M	Week 37	Week 39	Mid	Week 38	Week 40	Mid	6.5 Weeks
Yolanda™ Yellow	☑		Yellow/Gold	Dec	Med/Lg	S/M	Week 36	Week 38	Early-Mid	Week 37	Week 39	Early-Mid	6.5 Weeks
Yvette™ Orange Bicolor N	☑		Orange/Bronze	Dec	Sm	M	Week 38	Week 40	Mid-Late	Week 39	Week 41	Mid-Late	7 Weeks

N New for 2017

☑ Yoder Select™

Key: VIGOR (S) Small mounding | (S/M) Small-Medium mounding | (M) Medium mounding (M) | (M/L) Medium-Large mounding | (L) Large mounding

FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy

Garden Mums

Spring	Blackcloth	Coastal CA	1.25 qt	3.0 qt	Patio	Hanging Baskets	Window Boxes	Rooting	No-Pinch Blackcloth	Temp Tolerance - Blackcloth	Keeping Quality Rate	Landscape Varieties	Fall High Temp Variety
				•	•	•			Very Good	Average	Average		
				•	•	•			Very Good	Average	Good		
				•	•	•			Very Good	Average	Good	•	•
				•	•	•			Very Good	Average	Average	•	•
				•	•	•			Very Good	Average	Good	•	•
				•	•	•			Very Good	Average	Good	•	•
				•	•	•			Good	Very Good	Very Good	•	•
		•		•	•	•		M	Poor	Poor	Average		
		•		•	•	•		M	Poor	Poor	Good		
			•	•	•	•	•		Very Good	Average	Average		
			•	•	•	•	•		Very Good	Average	Average	•	•
•	•	•		•	•	•		M	Very Good	Good	Average		
•	•	•	•	•	•	•		M	Average	Poor	Good	•	•
•	•	•	•	•	•	•	•	M	Average	Good	Good	•	•
•	•	•	•	•	•	•	•	M	Average	Good	Good		•
•	•	•	•	•	•	•	•	M/F	Average	Good	Good	•	•
•	•	•	•	•	•	•	•	M/F	Average	Good	Good	•	•
•	•	•	•	•	•	•	•	M/F	Good	Average	Very Good	•	•
•	•	•	•	•	•	•	•	M/S	Good	Average	Good	•	•
•	•	•	•	•	•	•	•	M/S	Good	Average	Good	•	•
•	•	•	•	•	•	•	•	M/S	Good	Average	Good	•	•
		•		•	•	•		M	Average	Good	Very Good	•	•
		•		•	•	•		M	Average	Good	Very Good	•	•
•	•		•	•	•	•	•	M	Very Good	Good	Very Good	•	•
	•	•	•	•	•	•	•		Good	Good	Good		





Asters

Group

Purple

Blue / Lavender

Pink / White

BLACKCLOTH / COASTAL CALIFORNIA RECOMMENDATIONS

MAGIC™ GROUP 4.5 Weeks	Magic™ Purple	Dragon™ Blue Daydream™ Lavender	Magic™ Pink Puff™ White
ROYALTY™ GROUP 5 Weeks	Henry™ I Purple	Henry™ I Blue Daydream™ Lavender	Henry™ I Pink Puff™ White

FALL

MAGIC™ GROUP Very Early	Magic™ Purple ☺	Dragon™ Blue ☺	Magic™ Pink ☺
ROYALTY™ GROUP Early	Henry™ I Purple ☺	Henry™ I Blue ☺	Henry™ I Pink ☺
BELIEVER™ GROUP Early	Believer™ Purple ☺	Days™ Blue ☺	Hazy™ Dark Pink ☺
ROYALTY™ GROUP Late	Henry™ III Purple ☺	Peter™ III Blue	Henry™ III Pink ☺ Marie™ III Dark Pink

☺ Yoder Select

Purple / Blue / Lavender



Believer™ Purple

Purple / Dsy / Sm / M
N = 37 / **S** = 35 / 4.5
Variety 70018144



Henry™ I Purple

Purple / Dbl / Med / M
N = 36.5 / **S** = 34.5 / 5
Variety 70018152



Henry™ III Purple

Purple / Dbl / Med / M
N = 39 / **S** = 37.5 / 6
Variety 70018153



Magic™ Purple

Purple / Dsy / Med / M
N = 36 / **S** = 34 / 4.5
Variety 70018154



Daydream™ Lavender

Blue/Lavender / Dsy / Lg / M

N = 36.5 / **S** = 34.5 / 4.5

Variety 70018146



Days™ Blue

Blue/Lavender / Dsy / Sm / M

N = 37 / **S** = 35 / 4.5

Variety 70018147



Dragon™ Blue

Blue/Lavender / Dsy / Med / M

N = 36 / **S** = 34 / 4.5

Variety 70021404



Henry™ I Blue

Blue/Lavender / Dbl / Med / M

N = 36.5 / **S** = 34.5 / 5

Variety 70018145



Peter™ III Blue

Blue/Lavender / Dbl / Med / M

N = 39 / **S** = 38 / 5

Variety 70018158

Key: Color group / Flower form / Flower size / Plant vigor
Northern resp. Week, Northern resp. group / Southern resp. Week, Southern resp. group / Shade resp.
Variety number



Pink / White



Hazy™ Dark Pink

Pink/White / Dsy / Med / M

N = 37 / **S** = 35.5 / 5

Variety 70018151



Henry™ I Pink

Pink/White / Dbl / Med / M

N = 36.5 / **S** = 34.5 / 5

Variety 70036256



Henry™ III Pink

Pink/White / Dbl / Med / M

N = 39 / **S** = 37.5 / 6

Variety 70018160



Magic™ Pink

Pink/White / Dsy / Med / M

N = 36 / **S** = 34 / 4.5

Variety 70018161



Marie™ III Dark Pink

Pink/White / Dbl / Sm / S

N = 38.5 / **S** = 37.5 / 4.5

Variety 70018155



Puff™ White

Pink/White / Dsy / Med / M

N = 36 / **S** = 34 / 4.5

Variety 70018162

Variety

ASTERS AT-A-GLANCE

	Yoder® Select	Series	Family	Color Group	Flower Form	Flower Size	Fall Response Time - North	Fall Response Time - South	Season	Vigor	Shade Response	1.25 qt	3.0 qt	Patio	Hanging Baskets	Window Boxes	Summer Shaded	West Coast
Believer™ Purple	☑			Purple	Dsy	Sm	Week 37	Week 35	Early	Med	4.5 Weeks	•	•		•			
Daydream™ Lavender				Lavender	Dsy	Lg	Week 36.5	Week 34.5	Early	Med	4.5 Weeks	•	•		•		•	•
Days™ Blue	☑			Blue	Dsy	Sm	Week 37	Week 35	Early	Med	4.5 Weeks	•	•		•			
Dragon™ Blue	☑			Blue	Dsy	Med	Week 36	Week 34	Very Early	Med	4.5 Weeks	•	•		•	•	•	
Hazy™ Dark Pink	☑			Pink	Dsy	Med	Week 37	Week 35.5	Early	Med	5 Weeks	•	•					
Henry™ I Blue	☑	Royalty™	Henry™ I	Blue	Dbl	Med	Week 36.5	Week 34.5	Early	Med	5 Weeks	•	•		•	•	•	•
Henry™ I Pink	☑	Royalty™	Henry™ I	Pink	Dbl	Med	Week 36.5	Week 34.5	Early	Med	5 Weeks	•	•		•	•	•	•
Henry™ I Purple	☑	Royalty™	Henry™ I	Purple	Dbl	Med	Week 36.5	Week 34.5	Early	Med	5 Weeks	•	•		•	•	•	•
Henry™ III Pink	☑	Royalty™	Henry™ III	Pink	Dbl	Med	Week 39	Week 37.5	Late	Med	6 Weeks	•	•		•	•		
Henry™ III Purple	☑	Royalty™	Henry™ III	Purple	Dbl	Med	Week 39	Week 37.5	Late	Med	6 Weeks	•	•		•	•		
Magic™ Pink	☑		Magic™	Pink	Dsy	Med	Week 36	Week 34	Very Early	Med	4.5 Weeks	•	•		•	•	•	•
Magic™ Purple	☑		Magic™	Purple	Dsy	Med	Week 36	Week 34	Very Early	Med	4.5 Weeks	•	•		•	•	•	•
Marie™ III Dark Pink		Royalty™		Pink	Dbl	Sm	Week 38.5	Week 37.5	Late	Short	4.5 Weeks	•	•		•			
Peter™ III Blue		Royalty™		Blue	Dbl	Med	Week 39	Week 38	Late	Med	5 Weeks	•	•		•			
Puff™ White	☑			White	Dsy	Med	Week 36	Week 34	Very Early	Med	4.5 Weeks	•	•		•	•	•	•

Key: FLOWER FORM (Dbl) Double | (Dsy) Daisy
VIGOR (Short) Short | (Med) Medium | (Tall) Tall



Pot Mums



Pot Mums

Syngenta breeders are developing Yoder Pot Mums with pizzazz. Unique colors, different flower forms, and an endless possibility of mixed combos are creating excitement for this traditional crop.

Yoder Pot Mums can be produced year round and offer growers many options to satisfy changing consumer habits and lifestyles. Yoder Pot Mums are a versatile crop that can be grown as a single color or in mixed combos to match specific seasons, holidays, and design trends.

With their striking flower colors and types, it's easy for growers and retailers to offer Yoder Pot Mums in both conventional and unique container sizes and designs. This allows growers and retailers to develop marketing programs to match specific consumer needs.

Yoder Pot Mums are sturdy plants that have been bred to hold up to the rigors of shipping and handling for the grower and continue to look good on the retail shelf. Once in the home setting, Yoder Pot Mums provide consumers with a long lasting, beautiful product that is a great value.

Yoder Pot Mums offer a wide range of colors that are well suited for single color and mixed combos. Families that are well matched for flower form, plant habit, and flower timing, make it easy for growers to produce unique combos that are sure to delight retailers and consumers.

Pot Mum Families

Syngenta breeders have made pot mum production easy for growers. Our families are well matched for flower form, plant habit, finish size, and flower timing. Growers can use these varieties for single-color programs or for creating unique color combinations.

The Yoder Pot Mum families offer a variety of colors suitable for year round, seasonal, and holiday sales. Colors range from springtime pastels and rich fall colors to unique electric shades that should excite consumers regardless of age and lifestyle.

Some Yoder Pot Mum families have been designated as Yoder Select™. These varieties have been identified by Syngenta breeders as the best performing varieties and are considered to be “must have” plants. Yoder Pot Mum families chosen as Yoder Select provide growers, retailers and consumers with consistent performance for every variety in the family.



Milton Family

- A pot mum family for easy growing and year-round production of both single color pots and combos
- Better plant strength for easy packing and shipping
- Exciting bicolors to spice up combinations



Milton™ Bronze Bicolor

Orange/Bronze / Dsy Bicolor / Med / M / 7.5

Variety 70065649



Milton™ Orange

Orange/Bronze / Dsy / Med / M / 7.5

Variety 70065641



Milton™ Dark Pink

Pink/Lavender / Dsy / Med / M / 7.5

Variety 70065639



Milton™ Pink

Pink/Lavender / Dsy / Med / M / 7.5

Variety 70065640



Milton™ Pink Bicolor

Pink/Lavender / Dsy Bicolor / Med / M / 7.5

Variety 70065647



Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number



New variety

POT MUMS 75

Blush Family

Large pastel flowers for that burst of spring color

- Brightens retail to signal spring is here
- Perfect for Easter and Mother's Day combination containers
- Popular daisy form that comes in traditional flower colors



Blush™ Sunny

Yellow/Gold / Dsy / Med-Lg / S / 8

Variety 70018720



Blush™ Yellow

Yellow/Gold / Dsy / Med-Lg / S / 8

Variety 70018640



Blush™ Dark Pink

Pink/Lavender / Dsy Bicolor / Med-Lg / S / 8

Variety 70018543



Blush™ Apricot

Salmon / Dsy / Med-Lg / S / 8

Variety 70018670



Blush™ Orange

Orange/Bronze / Dsy / Med-Lg / S / 8

Variety 70018599



Blush™ White

White / Dsy / Med-Lg / S / 8

Variety 70018637



Blush™ Pink

Pink/Lavender / Dec / Med-Lg / S / 8

Variety 70018602

Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number

 New variety

Delano Family



Delano™ Red

Red / Dec / Med-Lg / M / 8.5

Variety 70018608



Delano™ Spring Pink Bicolor

Pink/Lavender / Dec Bicolor / Med-Lg / M / 8.5

Variety 70018621



Delano™ Purple

Purple / Dec / Med-Lg / M / 8.5

Variety 70018551

A pot mum for all seasons

- Colors well suited for any holiday season
- Decorative flowers up to five inches in diameter
- Strong spreading growth habit
- Best grown as a pinched disbud for maximum flower size



POT MUMS 77

Hilo Family

Unique colors for the new generation of potted plant consumers

- Electric colors well suited for any consumer
- An eye-catching addition to any seasonal retail line-up
- Times and pairs well with the Pueblo™ family to create interesting combos
- Recommended for CBR and ZBR production



Hilo™ Tangerine

Orange/Bronze / Dsy / Med / M / 8.5
Variety 70046053



Hilo™ Mango

Pink/Lavender / Dsy / Med / M / 8.5
Variety 70018947



Hilo™ Fuchsia

Purple / Dec / Med / M / 8.5
Variety 70046052



Pueblo Family



Pueblo™ Yellow

Yellow/Gold / Dsy / Med-Sm / M / 8

Variety 70053323



Pueblo™ Cinnamon

Orange/Bronze / Dsy / Med-Sm / M / 8.5

Variety 70018952



Pueblo™ Orange

Orange/Bronze / Dsy / Med-Sm / M / 8.5

Variety 70018708

Rich fall color

- Outstanding family for fall daisy sales
- Great in combinations for fall and holiday promotions
- Partners well with Hilo family for striking combinations, suited to any season



POT MUMS 79



Pot Mum Combos

Pot Mum Combos

Combinations are all the rage with consumers. Go into any retail garden center, supermarket, or retail florist and you're sure to see a wide assortment of combos containing a variety of plant material, including blooming and foliage plants.

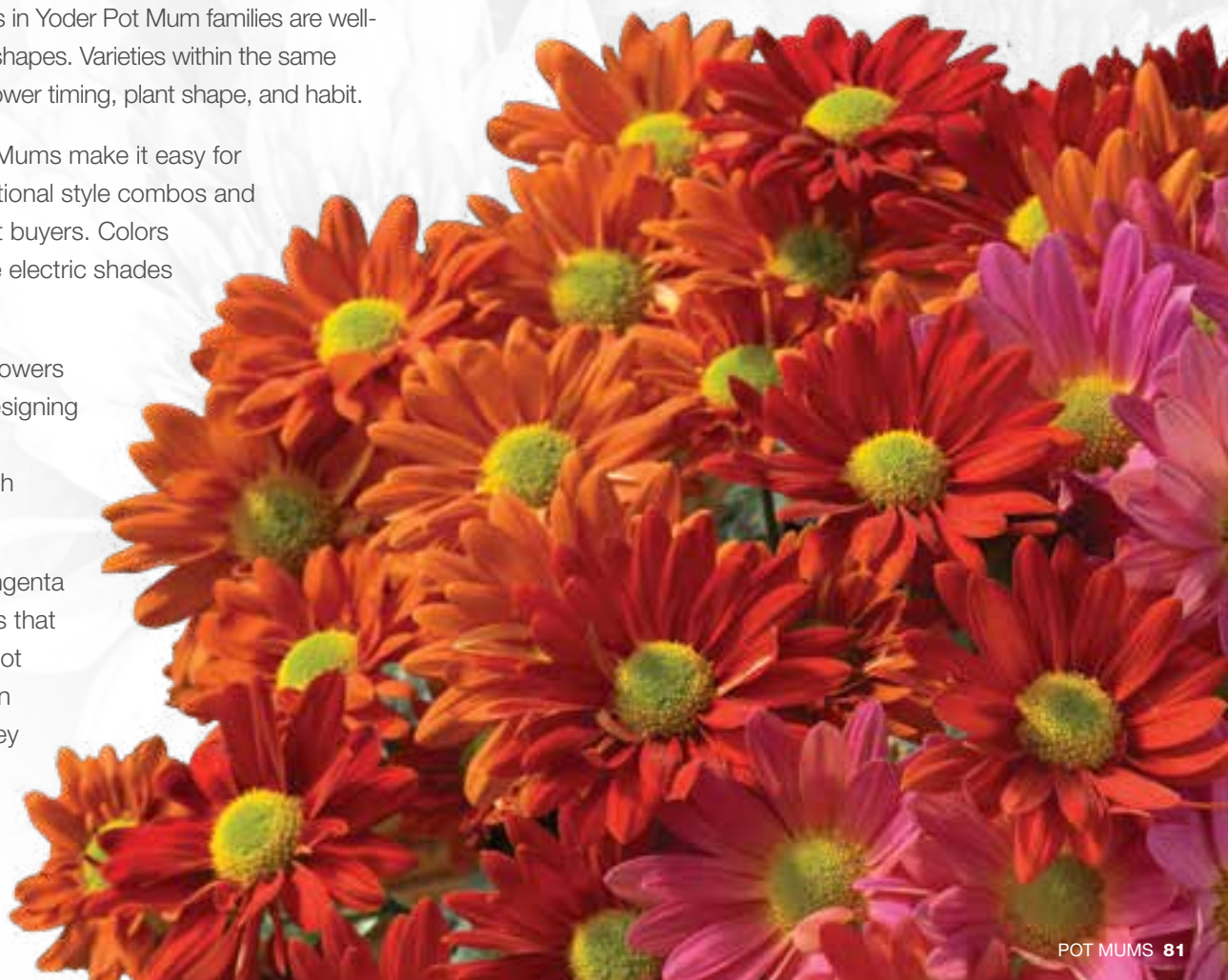
Syngenta has bred families of Yoder Pot Mums that make it simple for growers to produce combos for year-round, seasonal and holiday sales. Varieties in Yoder Pot Mum families are well-matched for use in combo containers of multiple sizes and shapes. Varieties within the same Yoder Pot Mum family have similar production schedules, flower timing, plant shape, and habit.

With a wide range of colors and flower forms, Yoder Pot Mums make it easy for growers to mix and match varieties to produce both traditional style combos and chic color combinations that will excite even the youngest buyers. Colors range from springtime pastel and rich fall colors to unique electric shades that should excite consumers of all ages and lifestyles.

With so many colors and flower forms to choose from, growers have the option of designing their own combos. When designing combos, consider mixing in Yoder Pot Mum stand-alone varieties. These stand-alone varieties can be matched with family varieties to create unique and different looks.

Growers can tap into the expertise and experience of Syngenta technical representatives to identify potential new combos that will do best under their production conditions. All Yoder Pot Mums have been trialed under North American production conditions, so growers have access to the information they need to make the best combo variety choices for their location and customers.

Hilo™ Mango, Pueblo™ Orange,
Pueblo™ Cinnamon





Milton™ Dark Pink, Milton™ Orange,
Milton™ Pink Bicolor



Milton™ Pink, Milton™ Pink Bicolor,
Oakville™ Yellow



Oakville™ Yellow, Milton™ Dark Pink,
Shasta™ White



Hilo™ Mango, Pueblo™ Orange,
Pueblo™ Cinnamon



Hilo™ Fuchsia, Hilo™ Tangerine,
Hilo™ Mango

Pot Mum Combos

COMBO NAME	SEASON	COMBO RECIPE	VARIETY NUMBER
Pumpkin Spice™	Autumn	Pueblo™ Orange	70018708
		Pueblo™ Cinnamon	70018952
		Pueblo™ Yellow	70053323
Harvest's Glory™	Autumn	Point Pelee™	70018719
		Hollister™ Yellow	70018694
		Auburn™ Orange	70018671
		Auburn™ Red	70018607
Autumn Breeze™	Autumn	Durango™ Honey	70021402
		Durango™ Bronze	70018904
		Durango™ Yellow	70046048
Winter's Passion™	Valentine's Day	Irvine™ Red	70018709
		Irvine™ Regal Purple	70018711
		Juneau™ White	70018696

COMBO NAME	SEASON	COMBO RECIPE	VARIETY NUMBER
Sunny Blossom™	Easter / Mother's Day	Blush™ Apricot	70018670
		Blush™ Dark Pink	70018543
		Blush™ White	70018637
		Blush™ Sunny Yellow	70018640
Spring Passion™	Easter / Mother's Day	Blush™ Pink	70018602
		Milton™ Pink	70065640
		Milton™ Pink Bicolor	70065647
Fruit Smoothie™	Any	Milton™ Dark Pink	70065639
		Hilo™ Mango	70018947
		Hilo™ Fuchsia	70046052
Shades of Sunset™	Fleurette	Hilo™ Tangerine	70046053
		Lucienne™ Yellow	70021403
		Fifi™ Hot Pink	70024094
Saturday Brunch™	Fleurette	Chantal™ Hot Red	70024095
		Lucienne™ Yellow	70021403
		Fifi™ Hot Pink	70024094
		Sylvie™ White	70024134

Single Stem

Single stem pot mums are unique, huge flowers that add dramatic, high-impact color at retail. Considered a more traditional flower form, these mums are popular during holidays and can diversify any indoor program year round.

Similar to pinched pot mums, single-stem varieties are grown with similar culture specification, including: spacing, rooting media, watering, fertilization and temperatures.

Single stem varieties

- Golden Gate™
- Nob Hill
- Pittsburgh™ Purple
- Seaside™ White
- Shanghai™ Red



Golden Gate™

Yellow/Gold / Incurve / Med-Lg / 7.5 / T
Variety 70018690



Pittsburgh™ Purple

Purple / Spider / Lg / 8 / M
Variety 70024131



Shanghai™ Red

Red / Incurve / Med-Lg / 8.5 / M
Variety 70024086

Key: Color group / Flower form / Flower size / Resp. week / Plant vigor
Variety number



Seaside™ White

White / Spider / Med-Lg / 8 / S
Variety 70035731





POT MUMS 85

Yellow/Gold

VARIETY	Flower Form	Response Week	Vigor	Flower Size	1.0 qt	1.25 qt	Side Bud Removal (SB)	Center Bud Removal (CB)	Zero Bud Removal (ZBR)	Single Stem	Yoder Select™ - Reg. Season	Yoder Select™ - Extreme Heat	Yoder Select™ - Winter
Bloomfield™ Yellow	Dec	7	S	Med-Lg	•	•	•	•	•	•	•		
Blush™ Sunny	Dsy	8	S	Med-Lg	•	•	•	•	•				
Blush™ Yellow	Dsy	8	S	Med-Lg	•	•	•	•	•				
Brighton™ Yellow	Dsy	8	M	Med-Sm	•	•		•	•				
Butterfield™ Yellow	Dsy	8	M	Med	•	•		•	•				
Chesapeake™ Yellow	Dsy	8.5	M	Med-Lg	•	•	•	•	•		•		•
Chowchilla™ Yellow	Dsy	8	S	Med	•	•		•	•		•	•	•
Covington™ Yellow	Dec	7.5	S	Med	•	•	•	•	•		•	•	
Durango™ Honey	Dec	8.5	S	Med	•	•	•	•	•		•		•
Durango™ Yellow	Dec	8.5	S	Med	•	•	•	•	•		•		•
Emporia™ Golden	Dsy Spoon	8	M	Med-Lg	•	•		•	•		•		
Golden Gate™	Incurve	7.5	T	Lg	•	•	•		•				
Hollister™ Yellow	Dsy	7.5	M	Med	•	•		•	•		•	•	•
Key Largo™ Golden	Anm	8	S	Med-Sm	•	•		•	•				
Kingsville™ Yellow	Dec	8	S	Med	•	•	•	•	•				
Lemon Springs™	Anm	8	M	Med	•	•		•	•			•	
Manhattan™ Yellow	Dec	8.5	S	Med	•	•	•	•					
New York™ Dazzling Yellow	Dec Bicolor	8	M	Med	•	•		•	•		•	•	
Oakville™ Yellow	Dsy	7	M	Med	•	•		•	•		•	•	•
Providence™ Yellow	Dec	8	M	Med	•	•	•	•	•		•	•	
Pueblo™ Yellow	Dsy	8	M	Med-Sm	•	•		•	•		•		•
Vyron™ Yellow	Dsy	9	T	Med-Sm		•		•	•				

Key: FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy | Incurve

Pot Mums



Bloomfield™ Yellow

Yellow/Gold / Dec / Med-Lg / 7 / S

Variety 70024073



Blush™ Sunny

Yellow/Gold / Dsy / Med-Lg / 8 / S

Variety 70018720



Blush™ Yellow

Yellow/Gold / Dsy / Med-Lg / 8 / S

Variety 70018640



Brighton™ Yellow

Yellow/Gold / Dsy / Med-Sm / 8 / M

Variety 70018674



Butterfield™ Yellow

Yellow/Gold / Dsy / Med / 8 / M

Variety 70018529



Chesapeake™ Yellow

Yellow/Gold / Dsy / Med-Lg / 8.5 / M

Variety 70018537



Chowchilla™ Yellow

Yellow/Gold / Dsy / Med / 8 / S

Variety 70065613



Covington™ Yellow

Yellow/Gold / Dec / Med / 7.5 / S

Variety 70018541

Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number



New variety

Pot Mums



Durango™ Honey

Yellow/Gold / Dec / Med / 8.5 / S

Variety 70021402



Durango™ Yellow

Yellow/Gold / Dec / Med / 8.5 / S

Variety 70046048



Golden Gate™

Yellow/Gold / Incurve / Lg / 7.5 / T

Variety 70018690



Hollister™ Yellow

Yellow/Gold / Dsy / Med / 7.5 / M

Variety 70018694



Kingsville™ Yellow

Yellow/Gold / Dec / Med / 8 / S

Variety 70018699



Lemon Springs™

Yellow/Gold / Anm / Med / 8 / M

Variety 70024078



Manhattan™ Yellow

Yellow/Gold / Dec / Med / 8.5 / S

Variety 70018589




Oakville™ Yellow

Yellow/Gold / Dsy / Med / 7 / M

Variety 70053701

Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number

 New variety



Providence™ Yellow

Yellow/Gold / Dec / Med / 8 / M

Variety 70018652



Pueblo™ Yellow

Yellow/Gold / Dsy / Med-Sm / 8 / M

Variety 70053323



Vyron™ Yellow

Yellow/Gold / Dsy / Med-Sm / 9 / T

Variety 70018728



Orange / Bronze

VARIETY	Flower Form	Response Week	Vigor	Flower Size	1.0 qt	1.25 qt	Side Bud Removal (DB)	Center Bud Removal (CBR)	Zero Bud Removal (ZBR)	Single Stem	Yoder Select™ - Reg. Season	Yoder Select™ - Extreme Heat	Yoder Select™ - Winter
Auburn™ Orange	Dsy	7.5	M	Med	•	•	•	•	•	•	•	•	•
Blush™ Orange	Dsy	8	S	Med-Lg	•	•	•	•	•	•	•	•	•
Chatham™ Orange	Dec	8	S	Med-Sm	•	•	•	•	•	•	•	•	•
Durango™ Bronze	Dec	8.5	S	Med	•	•	•	•	•	•	•	•	•
Emporia™ Orange	Dsy Spoon	8	M	Med-Lg	•	•	•	•	•	•	•	•	•
Hilo™ Tangerine	Dsy	8.5	M	Med	•	•	•	•	•	•	•	•	•
Milton™ Bronze Bicolor	Dsy Bicolor	7.5	M	Med	•	•	•	•	•	•	•	•	•
Milton™ Orange	Dsy	7.5	M	Med	•	•	•	•	•	•	•	•	•
Newport™ Bronze Bicolor	Dec Bicolor	8	M	Med	•	•	•	•	•	•	•	•	•
Pelee™	Dsy Bicolor	8.5	M	Med-Lg	•	•	•	•	•	•	•	•	•
Pueblo™ Cinnamon	Dsy	8.5	M	Med-Sm	•	•	•	•	•	•	•	•	•
Pueblo™ Orange	Dsy	8.5	M	Med-Sm	•	•	•	•	•	•	•	•	•
Reno™ Bronze	Dsy	8.5	M	Med-Sm	•	•	•	•	•	•	•	•	•

Key: FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy | Incurve

Pot Mums



Auburn™ Orange

Orange/Bronze / Dsy / Med / 7.5 / M
Variety 70018671



Blush™ Orange

Orange/Bronze / Dsy / Med-Lg / 8 / S
Variety 70018599



Chatham™ Orange

Orange/Bronze / Dec / Med-Sm / 8 / S
Variety 70018702



Durango™ Bronze

Orange/Bronze / Dec / Med / 8.5 / S
Variety 70018904



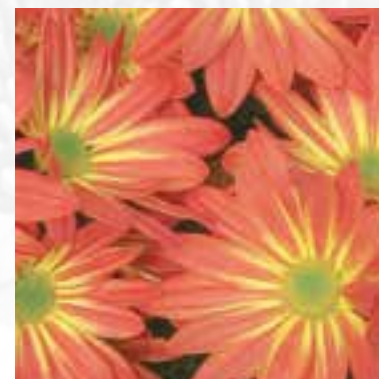
Emporia™ Orange

Orange/Bronze / Dsy Spoon / Med-Lg / 8 / M
Variety 70035746



Hilo™ Tangerine

Orange/Bronze / Dsy / Med / 8.5 / M
Variety 70046053



Milton™ Bronze Bicolor

Orange/Bronze / Dsy Bicolor / Med / 7.5 / M
Variety 70065649



Milton™ Orange

Orange/Bronze / Dsy / Med / 7.5 / M
Variety 70065641

Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number



New variety

Pot Mums



Newport™ Bronze Bicolor

Orange/Bronze / Dec Bicolor / Med / 8 / M

Variety 70053400



Pelee™

Orange/Bronze / Dsy Bicolor / Med-Lg / 8.5 / M

Variety 70018705



Pueblo™ Cinnamon

Orange/Bronze / Dsy / Med-Sm / 8.5 / M

Variety 70018952



Pueblo™ Orange

Orange/Bronze / Dsy / Med-Sm / 8.5 / M

Variety 70018708



Reno™ Bronze

Orange/Bronze / Dsy / Med-Sm / 8.5 / M

Variety 70018612

Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number

 New variety





POT MUMS 93

Red

VARIETY

	Flower Form	Response Week	Vigor	Flower Size	1.0 qt	1.25 qt	Side Bud Removal (DB)	Center Bud Removal (CBR)	Zero Bud Removal (ZBR)	Single Stem	Yoder Select™ - Reg. Season	Yoder Select™ - Extreme Heat	Yoder Select™ - Winter
Auburn™ Red	Dsy	7.5	M	Med	•	•	•	•		•		•	
Baton Rouge™ Red Bicolor	Dsy Bicolor	8	S	Med-Sm	•	•	•	•			•		
China Doll™ Red	Dec	7.5	M	Med-Lg	•	•	•	•		•			
Delano™ Red	Dec	8.5	M	Med-Lg		•	•				•		
Encino™ Red Imp.	Dsy Spoon	8.5	M	Med	•	•	•	•					
Fire Island™ Red Bicolor	Dsy Bicolor	8.5	M	Med	•	•	•	•		•			
Hudson Bay™ Red Bicolor	Dsy Bicolor	8	S	Med	•	•	•	•					
Irvine™ Red	Dsy	8	M	Med	•	•	•	•		•		•	
Outrageous™ Red	Dsy	7.5	M	Med-Lg	•	•	•	•		•	•	•	
Point Pelee™	Dsy Bicolor	8	M	Med	•	•	•	•		•			
Red Springs™	Anm	7.5	M	Med	•	•	•	•		•	•		
Santa Cruz™ Red Bicolor	Dsy Bicolor	8	T	Med-Sm	•	•	•	•		•			•
Shanghai™ Red	Incurve	8.5	M	Med-Lg	•	•	•		•	•			•
Tobago™ Red	Dec	8.5	M	Med	•	•	•	•		•	•		•

Key: FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy | Incurve

Pot Mums



Auburn™ Red

Red / Dsy / Med / 7.5 / M

Variety 70018672



Baton Rouge™ Red Bicolor

Red / Dsy Bicolor / Med-Sm / 8 / S

Variety 70018672



China Doll™ Red

Red / Dec / Med-Lg / 7.5 / M

Variety 70035688



Delano™ Red

Red / Dec / Med-Lg / 8.5 / M

Variety 70018680



Encino™ Red Imp.

Red / Dsy Spoon / Med / 8.5 / M

Variety 70059422



Fire Island™ Red Bicolor

Red / Dsy Spoon / Med / 8.5 / M

Variety 70018561



Hudson Bay™ Red Bicolor

Red / Dsy Bicolor / Med / 8 / S

Variety 70018695



Irvine™ Red

Red / Dsy / Med / 8 / M

Variety 70018709

Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number



New variety



Improved variety

Pot Mums



Outrageous™ Red

Red / Dsy / Med-Lg / 7.5 / M

Variety 70046043



Point Pelee™

Red / Dsy Bicolor / Med / 8 / M

Variety 70018719



Red Springs™

Red / Anm / Med / 7.5 / M

Variety 70035741



Santa Cruz™ Red Bicolor

Red / Dsy Bicolor / Med-Sm / 8 / T

Variety 70018715



Shanghai™ Red

Red / Incurve / Med-Lg / 8.5 / M

Variety 70024086



Tobago™ Red

Red / Dec / Med / 8.5 / M

Variety 70018662

Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number

 New variety





POT MUMS 97

Pink / Lavender

VARIETY	Flower Form	Response Week	Vigor	Flower Size	1.0 qt	1.25 qt	Side Bud Removal (PB)	Center Bud Removal (CBR)	Zero Bud Removal (ZBR)	Single Stem	Yoder Select™ - Reg. Season	Yoder Select™ - Extreme Heat	Yoder Select™ - Winter
Apple Valley™ Pink Bicolor	Dsy Bicolor	7.5	M	Med-Lg	•	•	•	•					
Blush™ Dark Pink	Dsy	8	S	Med-Lg	•	•	•	•					
Blush™ Pink	Dsy	8	S	Med-Lg	•	•	•	•					
Chatham™ Dark Pink	Dec	8	S	Med-Sm	•	•	•	•		•			
Deep Presidio™ Pink	Dec	7.5	T	Med-Lg	•	•	•	•		•	•	•	
Delano™ Spring Pink Bicolor	Dec Bicolor	8.5	M	Med-Lg		•	•						•
Grandview™ Light Pink	Dsy	8	M	Med-Lg	•	•		•	•		•	•	•
Grandview™ Pink	Dsy	8	M	Med-Lg	•	•		•	•		•	•	•
Hilo™ Mango	Dsy	8.5	M	Med		•		•	•		•		
LaBelle™ Dark Pink Bicolor	Dsy Bicolor	7.5	S	Med	•	•		•	•		•		•
Milton™ Dark Pink	Dsy	7.5	M	Med	•	•		•	•		•	•	•
Milton™ Pink	Dsy	7.5	M	Med	•	•		•	•		•	•	•
Milton™ Pink Bicolor	Dsy Bicolor	7.5	M	Med	•	•		•	•		•		•
New York™ Bold Lavender	Dec Bicolor	8	M	Med	•	•		•	•		•	•	
Newark™ Pink Bicolor	Dec Bicolor	8	M	Med	•	•		•	•		•	•	
Roanoke™ Dark Pink	Dsy	7.5	M	Med	•	•		•	•		•		
Roanoke™ Pink	Dsy	7.5	M	Med	•	•		•	•		•		
Starling™ Pink	Dsy Spoon	7.5	M	Med	•	•		•	•		•		•

Key: FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy | Incurve

Pot Mums



Apple Valley™ Pink Bicolor

Pink/Lavender / Dsy Bicolor / Med-Lg / 7.5 / M
Variety 70018669



Blush™ Dark Pink

Pink/Lavender / Dsy / Med-Lg / 8 / S
Variety 70018543



Blush™ Pink

Pink/Lavender / Dsy / Med-Lg / 8 / S
Variety 70018602



Chatham™ Dark Pink

Pink/Lavender / Dec / Med-Sm / 8 / S
Variety 70018683



Presidio™ Deep Pink

Pink/Lavender / Dec / Med-Lg / 7.5 / T
Variety 70018550



Delano™ Spring Pink Bicolor

Pink/Lavender / Dec Bicolor / Med-Lg / 8.5 / M
Variety 70018621



Grandview™ Light Pink

Pink/Lavender / Dsy / Med-Lg / 8 / M
Variety 70053404



Grandview™ Pink

Pink/Lavender / Dsy / Med-Lg / 8 / M
Variety 70065651

Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number



New variety

Pot Mums



Hilo™ Mango

Pink/Lavender / Dsy / Med / 8.5 / M

Variety 70018947



LaBelle™ Dark Pink Bicolor

Pink/Lavender / Dsy Bicolor / Med / 7.5 / S

Variety 70065620



Milton™ Dark Pink

Pink/Lavender / Dsy / Med / 7.5 / M

Variety 70065639



Milton™ Pink

Pink/Lavender / Dsy / Med / 7.5 / M

Variety 70065640



Milton™ Pink Bicolor

Pink/Lavender / Dsy Bicolor / Med / 7.5 / M

Variety 70065647



New York™ Bold Lavender

Pink/Lavender / Dec Bicolor / Med / 8 / M

Variety 70018673



Newark™ Pink Bicolor

Pink/Lavender / Dec Bicolor / Med / 8 / M

Variety 70046071



Roanoke™ Dark Pink

Pink/Lavender / Dsy / Med / 7.5 / M

Variety 70018685

Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number



New variety



Roanoke™ Pink

Pink/Lavender / Dsy / Med / 7.5 / M

Variety 70018614



Starling™ Pink

Pink/Lavender / Dsy Spoon / Med / 7.5 / M

Variety 70053520



Purple

VARIETY	Flower Form	Response Week	Vigor	Flower Size	1.0 qt	1.25 qt	Side Bud Removal (DB)	Center Bud Removal (DB)	Zero Bud Removal (CBR)	Single Stem	Yoder Select™ - Reg. Season	Yoder Select™ - Extreme Heat	Yoder Select™ - Winter
Delano™ Purple	Dec	8.5	M	Med-Lg		•	•				•	•	
Essex™ Purple	Dsy	7.5	M	Med-Lg	•	•	•	•		•			
Estes Park™ Purple Bicolor	Dsy Bicolor	8	M	Med		•	•	•		•	•	•	
Fairbanks™ Purple Spoon	Dsy Spoon	7.5	S	Med	•	•	•	•		•	•	•	
Hilo™ Fuchsia	Dsy	8.5	M	Med		•	•	•		•		•	
Irvine™ Regal Purple	Dsy	8	M	Med	•	•	•	•		•		•	
Jamestown™ Regal Purple	Dec	8	S	Med-Sm	•	•	•	•		•			
Pittsburgh™ Purple	Spider	8	M	Lg		•	•	•	•	•			•
Purple Springs™	Anm Spoon	7.5	T	Med		•	•	•		•	•	•	
Rockport™ Purple	Dsy	8	M	Med	•	•	•	•		•			
Springdale™ Purple	Dsy	7.5	M	Med-Lg	•	•	•	•		•	•	•	
Williamsburg™ Purple	Dec	8	M	Med	•	•	•	•		•	•	•	

Key: FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy | Incurve



Delano™ Purple

Purple / Dec / Med-Lg / 8.5 / M

Variety 70018551



Essex™ Purple

Purple / Dsy / Med-Lg / 7.5 / M

Variety 70018688



Estes Park™ Purple Bicolor

Purple / Dsy Bicolor / Med / 8 / M

Variety 70065637



Fairbanks™ Purple Spoon

Purple / Dsy Spoon / Med / 7.5 / S

Variety 70059977



Hilo™ Fuchsia

Purple / Dec / Med / 8.5 / M

Variety 70046052



Irvine™ Regal Purple

Purple / Dsy / Med / 8 / M

Variety 70018711



Jamestown™ Regal Purple

Purple / Dec / Med-Sm / 8 / S

Variety 70018712



Pittsburgh™ Purple

Purple / Spider / Lg / 8 / M

Variety 70024131

Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number



New variety

Pot Mums



Purple Springs™

Purple / Anm Spoon / Med / 7.5 / T

Variety 70035706



Rockport™ Purple

Purple / Dsy / Med / 8 / M

Variety 70018714



Springdale™ Purple

Purple / Dsy / Med-Lg / 7.5 / M

Variety 70065612



Williamsburg™ Purple

Purple / Dec / Med / 8 / M

Variety 70059425

Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number

 New variety





POT MUMS 105

White

VARIETY	Flower Form	Response Week	Vigor	Flower Size	1.0 qt	1.25 qt	Side Bud Removal (DB)	Center Bud Removal (CBR)	Zero Bud Removal (ZBR)	Single Stem	Yoder Select™ - Reg. Season	Yoder Select™ - Extreme Heat	Yoder Select™ - Winter
Blush™ White	Dsy	8	S	Med-Lg	•	•	•	•					
Brunswick™ White	Dsy Spoon	8	T	Lg	•	•	•	•			•		
Clearview™ White	Dsy	7.5	M	Med		•	•	•		•	•	•	
Juneau™ White	Dsy	7.5	M	Med	•	•	•	•		•	•	•	
Nob Hill	Incurve	10	T	Lg		•	•		•				
Olympia™ White	Dec	7.5	M	Med	•	•	•	•		•	•	•	
Ottawa™ White	Dec	7	M	Med	•	•	•	•		•	•		
Saskatoon™ White	Dec	8.5	T	Med-Lg		•	•	•		•	•		
Seaside™ White	Spider	8	S	Med-Lg	•	•	•	•	•	•			•
Shasta™ White	Dsy	7.5	M	Med	•	•	•	•		•			

Key: FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy | Incurve



Blush™ White

White / Dsy / Med-Lg / 8 / S

Variety 70018637



Brunswick™ White

White / Dsy Spoon / Lg / 8 / T

Variety 70018645



Clearview™ White

White / Dsy / Med / 7.5 / M

Variety 70065632



Juneau™ White

White / Dsy / Med / 7.5 / M

Variety 70018696



Nob Hill

White / Incurve / Lg / 10 / T

Variety 70039167



Olympia™ White

White / Dec / Med / 7.5 / M

Variety 70018598



Ottawa™ White

White / Dec / Med / 7 / M

Variety 70018651



Saskatoon™ White

White / Dec / Med-Lg / 8.5 / T

Variety 70024141

Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number



New variety

Pot Mums



Seaside™ White

White / Spider / Med-Lg / 8 / S

Variety 70035731



Shasta™ White

White / Dsy / Med / 7.5 / M

Variety 70035734





Accent Colors

VARIETY

	Flower Form	Response Week	Vigor	Flower Size	1.0 qt	1.25 qt	Side Bud Removal (PB)	Center Bud Removal (CBR)	Zero Bud Removal (ZBR)	Single Stem	Yoder Select™ - Reg. Season	Yoder Select™ - Extreme Heat	Yoder Select™ - Winter
Blush™ Apricot	Dsy	8	S	Med/Lg	•	•	•	•					
Green Valley™	Dup	8	M	Med	•	•		•	•				
Irvine™ Currant	Dsy	8	M	Med	•	•		•	•	•			•
Limerick™ Lime	Dec	8	M	Med/Sm	•	•		•	•				

Key: FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy | Incurve



Blush™ Apricot

Salmon / Dsy / Med-Lg / 8 / S

Variety 70018670



Irvine™ Currant

Coral / Dsy / Med / 8 / M

Variety 70018679



Green Valley™

Green / Dup / Med / 8 / M

Variety 70018692



Limerick™ Lime

Green / Dec / Med-Sm / 8 / M

Variety 70053324

Key: Color group / Flower form / Flower size / Resp. week / Plant vigor

Variety number



New variety





Technical Data

Pot Mums

Pot Mums

	Yellow / Gold	Orange / Bronze	Red	Pink / Lavender	Purple	White	Accent Color
YODER SELECT™							
REGULAR SEASON	Bloomfield™ Yellow Chesapeake™ Yellow Chowchilla™ Yellow N Covington™ Yellow Durango™ Honey Durango™ Yellow Emporia™ Golden Hollister™ Yellow New York™ Dazzling Yellow Oakville™ Yellow Providence™ Yellow Pueblo™ Yellow	Auburn™ Orange Chatham™ Orange Durango™ Bronze Emporia™ Orange Hilo™ Tangerine Milton™ Bronze Bicolor Milton™ Orange Newport™ Bronze Bicolor Pueblo™ Cinnamon Pueblo™ Orange	Auburn™ Red China Doll™ Red Fire Island™ Red Bicolor Irvine™ Red Outrageous™ Red Point Pelee™ Red Springs™ Santa Cruz™ Red Bicolor Shanghai™ Red Tobago™ Red	Chatham™ Dark Pink Deep Presidio™ Pink Grandview™ Light Pink Grandview™ Pink Hilo™ Mango LaBelle™ Dark Pink Bicolor N Milton™ Dark Pink Milton™ Pink Milton™ Pink Bicolor New York™ Bold Lavender Newark™ Pink Bicolor Roanoke™ Dark Pink Roanoke™ Pink Starling™ Pink	Essex™ Purple Estes Park™ Purple Bicolor N Fairbanks™ Purple Spoon Hilo™ Fuchsia Irvine™ Regal Purple Jamestown™ Regal Purple Pittsburgh™ Purple Purple Springs™ Rockport™ Purple Springdale™ Purple N Williamsburg™ Purple	Clearview™ White N Juneau™ White Olympia™ White Ottawa™ White Saskatoon™ White Seaside™ White Shasta™ White	Irvine™ Currant
EXTREME HEAT LOVERS	Bloomfield™ Yellow Chowchilla™ Yellow N Covington™ Yellow Hollister™ Yellow Lemon Springs™ New York™ Dazzling Yellow Oakville™ Yellow Providence™ Yellow	Auburn™ Orange Milton™ Orange	Baton Rouge™ Red Bicolor Delano™ Red Outrageous™ Red Red Springs™ Tobago™ Red	Deep Presidio™ Pink Grandview™ Light Pink Grandview™ Pink Milton™ Dark Pink Milton™ Pink New York™ Bold Lavender Newark™ Pink Bicolor	Delano™ Purple Estes Park™ Purple Bicolor N Fairbanks™ Purple Spoon Purple Springs™ Springdale™ Purple N Williamsburg™ Purple	Brunswick™ White Clearview™ White N Juneau™ White Olympia™ White Ottawa™ White Saskatoon™ White	
WINTER NORTH	Chesapeake™ Yellow Chowchilla™ Yellow N Durango™ Honey Durango™ Yellow Hollister™ Yellow Oakville™ Yellow Pueblo™ Yellow	Durango™ Bronze Hilo™ Tangerine Milton™ Bronze Bicolor Milton™ Orange Pueblo™ Cinnamon Pueblo™ Orange	Auburn™ Red Irvine™ Red Outrageous™ Red Santa Cruz™ Red Bicolor Shanghai™ Red Tobago™ Red	Deep Presidio™ Pink Delano™ Spring Pink Bicolor Grandview™ Light Pink Grandview™ Pink LaBelle™ Dark Pink Bicolor N Milton™ Dark Pink Milton™ Pink Milton™ Pink Bicolor Starling™ Pink	Delano™ Purple Estes Park™ Purple Bicolor N Fairbanks™ Purple Spoon Hilo™ Fuchsia Irvine™ Regal Purple Pittsburgh™ Purple Purple Springs™ Springdale™ Purple N Williamsburg™ Purple	Clearview™ White N Juneau™ White Olympia™ White Seaside™ White	Irvine™ Currant

N New for 2017



Variety

POT MUMS AT-A-GLANCE

	Color	Color Group	Flower Form	Response Week	Vigor	Keeping Quality Rate	Flower Size	1.0 qt	1.25 qt	Side Bud Removal	Center Bud Removal	Zero Bud Removal	Single Stem	Yoder Select™	Yoder Select™ - Reg. Season	Yoder Select™ - Extreme Heat	Best Finish Months - North	Best Finish Months - South	Best Finish Months - West
Apple Valley™ Pink Bicolor	Pink	Pink/Lavender	Dsy Bicolor	7.5	M	VG	Med-Lg	•	•	•	•	•					Mar-Oct	Nov-May	Year-round
Auburn™ Orange	Orange	Orange/Bronze	Dsy	7.5	M	VG	Med	•	•		•	•		•	•	•	Year-round	Oct-Jun	Year-round
Auburn™ Red	Red	Red	Dsy	7.5	M	G	Med	•	•		•	•		•		•	Year-round	Nov-May	Year-round
Baton Rouge™ Red Bicolor	Red	Red	Dsy Bicolor	8	S	VG	Med-Sm	•	•		•	•				•	Year-round	Year-round	Year-round
Bloomfield™ Yellow	Yellow	Yellow/Gold	Dec	7	S	VG	Med-Lg	•	•	•	•	•		•	•		Mar-Dec	Year-round	Year-round
Blush™ Apricot	Salmon	Accent Color	Dsy	8	S	VG	Med-Lg	•	•	•	•	•					Sep-Jun	Nov-May	Year-round
Blush™ Dark Pink	Pink	Pink/Lavender	Dsy	8	S	VG	Med-Lg	•	•	•	•	•					Sep-Jun	Nov-May	Year-round
Blush™ Orange	Orange	Orange/Bronze	Dsy	8	S	VG	Med-Lg	•	•	•	•	•					Sep-Jun	Oct-May	Year-round
Blush™ Pink	Pink	Pink/Lavender	Dsy	8	S	VG	Med-Lg	•	•	•	•	•					Sep-Jun	Nov-May	Year-round
Blush™ Sunny	Yellow	Yellow/Gold	Dsy	8	S	VG	Med-Lg	•	•	•	•	•					Oct-May	Oct-May	Year-round
Blush™ White	White	White	Dsy	8	S	VG	Med-Lg	•	•	•	•	•					Year-round	Year-round	Year-round
Blush™ Yellow	Yellow	Yellow/Gold	Dsy	8	S	VG	Med-Lg	•	•	•	•	•					Year-round	Year-round	Year-round
Brighton™ Yellow	Yellow	Yellow/Gold	Dsy	8	M	VG	Med-Sm	•	•		•	•					Apr-Nov	Oct-May	Apr-Nov
Brunswick™ White	White	White	Dsy Spoon	8	T	G	Lg	•	•		•	•			•		Mar-Dec	Year-round	Year-round
Butterfield™ Yellow	Yellow	Yellow/Gold	Dsy	8	M	G	Med	•	•		•	•					Apr-Nov	Oct-May	Mar-Nov
Chatham™ Dark Pink	Pink	Pink/Lavender	Dec	8	S	E	Med-Sm	•	•		•	•				•	Mar-Nov	Oct-Jun	Mar-Nov
Chatham™ Orange	Bronze	Orange/Bronze	Dec	8	S	E	Med-Sm	•	•		•	•				•	Mar-Nov	Oct-Jun	Mar-Nov
Chesapeake™ Yellow	Yellow	Yellow/Gold	Dsy	8.5	M	VG	Med-Lg	•	•	•	•	•			•		Year-round	Oct-Jun	Year-round
China Doll™ Red	Red	Red	Dec	7.5	M	G	Med-Lg	•	•	•	•	•					Mar-Nov	Nov-Jun	Year-round
Chowchilla™ Yellow ^N	Yellow	Yellow/Gold	Dsy	8	S		Med	•	•		•	•		•	•	•	Year-round	Year-round	Year-round
Clearview™ White ^N	White	White	Dsy	7.5	M		Med		•		•	•		•	•	•	Year-round	Year-round	Year-round
Covington™ Yellow	Yellow	Yellow/Gold	Dec	7.5	S	VG	Med	•	•	•	•	•		•	•		Apr-Oct	Oct-May	Apr-Oct
Deep Presidio™ Pink	Pink	Pink/Lavender	Dec	7.5	T	VG	Med-Lg	•	•	•	•	•		•	•	•	Year-round	Year-round	Year-round
Delano™ Purple	Purple	Purple	Dec	8.5	M	G	Med-Lg		•	•					•	•	Year-round	Year-round	Year-round
Delano™ Red	Red	Red	Dec	8.5	M	G	Med-Lg		•	•					•		Year-round	Year-round	Year-round
Delano™ Spring Pink Bicolor	Pink	Pink/Lavender	Dec Bicolor	8.5	M	G	Med-Lg		•	•					•		Year-round	Oct-Jun	Year-round
Durango™ Bronze	Bronze	Orange/Bronze	Dec	8.5	S	G	Med	•	•	•	•	•		•	•		Year-round	Nov-Jul	Year-round

^N New for 2017

Key: FLOWER FORM (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy | Incurve

Variety

POT MUMS AT-A-GLANCE

	Color	Color Group	Flower Form	Response Week	Vigor	Keeping Quality Rate	Flower Size	1.0 qt	1.25 qt	Side Bud Removal	Center Bud Removal	Zero Bud Removal	Single Stem	Yoder Select™ - Reg. Season	Yoder Select™ - Extreme Heat	Yoder Select™ - Winter North	Best Finish Months - North	Best Finish Months - South	Best Finish Months - West
Durango™ Honey	Golden	Yellow/Gold	Dec	8.5	S	G	Med	•	•	•	•	•	•	•	•	•	Year-round	Dec-Jul	Year-round
Durango™ Yellow	Yellow	Yellow/Gold	Dec	8.5	S	G	Med	•	•	•	•	•	•	•	•	•	Year-round	Nov-Jul	Year-round
Emporia™ Golden	Golden	Yellow/Gold	Dsy Spoon	8	M	VG	Med-Lg	•	•	•	•	•	•	•	•	•	Mar-Dec	Nov-May	Year-round
Emporia™ Orange	Orange	Orange/Bronze	Dsy Spoon	8	M	VG	Med-Lg	•	•	•	•	•	•	•	•	•	Mar-Dec	Nov-May	Year-round
Encino™ Red Imp.	Red	Red	Dsy Spoon	8.5	M	E	Med	•	•	•	•	•	•	•	•	•	Year-round	Nov-May	Year-round
Essex™ Purple	Purple	Purple	Dsy	7.5	M	E	Med-Lg	•	•	•	•	•	•	•	•	•	Mar-Nov	Nov-Jun	Mar-Nov
Estes Park™ Purple Bicolor ^N	Purple	Purple	Dsy Bicolor	8	M		Med	•	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Fairbanks™ Purple Spoon	Purple	Purple	Dsy Spoon	7.5	S		Med	•	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Fire Island™ Red Bicolor	Red	Red	Dsy Bicolor	8.5	M	VG	Med	•	•	•	•	•	•	•	•	•	Sep-Jun	Oct-Jun	Year-round
Golden Gate™	Yellow	Yellow/Gold	Incurve	7.5	T	VG	Lg	•	•	•	•	•	•	•	•	•	Mar-Nov	Year-round	Year-round
Grandview™ Light Pink	Pink	Pink/Lavender	Dsy	8	M		Med-Lg	•	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Grandview™ Pink	Pink	Pink/Lavender	Dsy	8	M		Med-Lg	•	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Green Valley™	Green	Accent Color	Dup	8	M	VG	Med	•	•	•	•	•	•	•	•	•	Oct-Jun	Nov-Jun	Year-round
Hilo™ Fuchsia	Purple	Purple	Dsy	8.5	M	VG	Med	•	•	•	•	•	•	•	•	•	Year-round	Nov-Jun	Year-round
Hilo™ Mango	Pink	Pink/Lavender	Dsy	8.5	M	VG	Med	•	•	•	•	•	•	•	•	•	Year-round	Nov-Jun	Year-round
Hilo™ Tangerine	Orange	Orange/Bronze	Dsy	8.5	M	VG	Med	•	•	•	•	•	•	•	•	•	Year-round	Nov-Jun	Year-round
Hollister™ Yellow	Yellow	Yellow/Gold	Dsy	7.5	M	G	Med	•	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Hudson Bay™ Red Bicolor	Red	Red	Dsy Bicolor	8	S	VG	Med	•	•	•	•	•	•	•	•	•	Mar-Nov	Nov-Jun	Mar-Nov




Variety

POT MUMS AT-A-GLANCE

	Color	Color Group	Flower Form	Response Week	Vigor	Keeping Quality Rate	Flower Size	1.0 qt	1.25 qt	Side Bud Removal	Center Bud Removal	Zero Bud Removal	Single Stem	Yoder Select™ - Reg. Season	Yoder Select™ - Extreme Heat	Best Finish Months - North	Best Finish Months - South	Best Finish Months - West
Irvine™ Currant	Coral	Accent Color	Dsy	8	M	VG	Med	•	•	•	•	•	•	•	•	Year-round	Dec-Jun	Year-round
Irvine™ Red	Red	Red	Dsy	8	M	VG	Med	•	•	•	•	•	•	•	•	Year-round	Dec-Jun	Year-round
Irvine™ Regal Purple	Purple	Purple	Dsy	8	M	VG	Med	•	•	•	•	•	•	•	•	Year-round	Dec-Jun	Year-round
Jamestown™ Regal Purple	Purple	Purple	Dec	8	S	VG	Med-Sm	•	•	•	•	•	•	•	•	Mar-Nov	Nov-Jun	Mar-Dec
Juneau™ White	White	White	Dsy	7.5	M	VG	Med	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Key Largo™ Golden	Golden	Yellow/Gold	Anm	8	S	G	Med-Sm	•	•	•	•	•	•	•	•	Mar-Nov	Nov-Jun	Mar-Nov
Kingsville™ Yellow	Yellow	Yellow/Gold	Dec	8	S	E	Med	•	•	•	•	•	•	•	•	Mar-Nov	Nov-Jun	Year-round
LaBelle™ Dark Pink Bicolor ^N	Pink	Pink/Lavender	Dsy Bicolor	7.5	S		Med	•	•	•	•	•	•	•	•	Year-round	Nov-Jun	Year-round
Lemon Springs™	Yellow	Yellow/Gold	Anm	8	M	E	Med	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Limerick™ Lime	Green	Accent Color	Dec	8	M		Med-Sm	•	•	•	•	•	•	•	•	Year-round	Nov-Jun	Year-round
Manhattan™ Yellow	Yellow	Yellow/Gold	Dec	8.5	S	G	Med	•	•	•	•	•	•	•	•	Year-round	Nov-Jun	Year-round
Milton™ Bronze Bicolor	Bronze	Orange/Bronze	Dsy Bicolor	7.5	M		Med	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Milton™ Dark Pink	Pink	Pink/Lavender	Dsy	7.5	M		Med	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Milton™ Orange	Orange	Orange/Bronze	Dsy	7.5	M		Med	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Milton™ Pink	Pink	Pink/Lavender	Dsy	7.5	M		Med	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Milton™ Pink Bicolor	Pink	Pink/Lavender	Dsy Bicolor	7.5	M		Med	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
New York™ Bold Lavender	Pink	Pink/Lavender	Dec Bicolor	8	M	G	Med	•	•	•	•	•	•	•	•	Mar-Dec	Year-round	Year-round
New York™ Dazzling Yellow	Golden	Yellow/Gold	Dec Bicolor	8	M	G	Med	•	•	•	•	•	•	•	•	Mar-Dec	Year-round	Year-round
Newark™ Pink Bicolor	Pink	Pink/Lavender	Dec Bicolor	8	M		Med	•	•	•	•	•	•	•	•	Mar-Nov	Year-round	Year-round
Newport™ Bronze Bicolor	Bronze	Orange/Bronze	Dec Bicolor	8	M		Med	•	•	•	•	•	•	•	•	Mar-Nov	Oct-Jul	Year-round
Nob Hill	White	White	Incurve	10	T		Lg	•	•	•	•	•	•	•	•	May-Oct	Nov-Apr	Apr-Dec
Oakville™ Yellow	Yellow	Yellow/Gold	Dsy	7	M		Med	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Olympia™ White	White	White	Dec	7.5	M	E	Med	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Ottawa™ White	White	White	Dec	7	M	E	Med	•	•	•	•	•	•	•	•	Apr-Oct	Year-round	Mar-Nov
Outrageous™ Red	Red	Red	Dsy	7.5	M		Med-Lg	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Pelee™	Bronze	Orange/Bronze	Dsy Bicolor	8.5	M	G	Med-Lg	•	•	•	•	•	•	•	•	Year-round	Oct-Jun	Year-round
Pittsburgh™ Purple	Purple	Purple	Spider	8	M	E	Lg	•	•	•	•	•	•	•	•	Oct-Jun	Oct-Jun	Year-round
Point Pelee™	Red	Red	Dsy Bicolor	8	M	VG	Med	•	•	•	•	•	•	•	•	Mar-Nov	Oct-Jun	Year-round
Providence™ Yellow	Yellow	Yellow/Gold	Dec	8	M	G	Med	•	•	•	•	•	•	•	•	Mar-Nov	Year-round	Mar-Dec
Pueblo™ Cinnamon	Bronze	Orange/Bronze	Dsy	8.5	M	VG	Med-Sm	•	•	•	•	•	•	•	•	Year-round	Nov-Jun	Year-round

Variety

POT MUMS AT-A-GLANCE

	Color	Color Group	Flower Form	Response Week	Vigor	Keeping Quality Rate	Flower Size	1.0 qt	1.25 qt	Side Bud Removal	Center Bud Removal	Zero Bud Removal	Single Stem	Yoder Select™ - Reg. Season	Yoder Select™ - Extreme Heat	Yoder Select™ - Winter North	Best Finish Months - North	Best Finish Months - South	Best Finish Months - West
Pueblo™ Orange	Orange	Orange/Bronze	Dsy	8.5	M	VG	Med-Sm	•	•	•	•	•	•	•	•	•	Year-round	Nov-Jun	Year-round
Pueblo™ Yellow	Yellow	Yellow/Gold	Dsy	8	M	VG	Med-Sm	•	•	•	•	•	•	•	•	•	Year-round	Nov-Jun	Year-round
Purple Springs™	Purple	Purple	Anm Spoon	7.5	T	E	Med		•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Red Springs™	Red	Red	Anm	7.5	M		Med	•	•	•	•	•	•	•	•	•	Mar-Nov	Oct-Jul	Year-round
Reno™ Bronze	Bronze	Orange/Bronze	Dsy	8.5	M	G	Med-Sm	•	•	•	•	•	•	•	•	•	Oct-May	Nov-May	Year-round
Roanoke™ Dark Pink	Pink	Pink/Lavender	Dsy	7.5	M	G	Med	•	•	•	•	•	•	•	•	•	Mar-Nov	Nov-May	Year-round
Roanoke™ Pink	Pink	Pink/Lavender	Dsy	7.5	M	G	Med	•	•	•	•	•	•	•	•	•	Mar-Dec	Nov-May	Year-round
Rockport™ Purple	Purple	Purple	Dsy	8	M	VG	Med	•	•	•	•	•	•	•	•	•	Apr-Nov	Oct-May	Mar-Dec
Santa Cruz™ Red Bicolor	Red	Red	Dsy Bicolor	8	T	VG	Med-Sm	•	•	•	•	•	•	•	•	•	Oct-Jun	Nov-Jun	Year-round
Saskatoon™ White	White	White	Dec	8.5	T	VG	Med-Lg		•	•	•	•	•	•	•	•	Mar-Dec	Year-round	Year-round
Seaside™ White	White	White	Spider	8	S		Med-Lg	•	•	•	•	•	•	•	•	•	Mar-Dec	Year-round	Year-round
Shanghai™ Red	Red	Red	Incurve	8.5	M	VG	Med-Lg	•	•	•	•	•	•	•	•	•	Year-round	Nov-Jun	Year-round
Shasta™ White	White	White	Dsy	7.5	M		Med	•	•	•	•	•	•	•	•	•	Mar-Nov	Nov-Jun	Year-round
Springdale™ Purple 	Purple	Purple	Dsy	7.5	M		Med-Lg	•	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Starling™ Pink	Pink	Pink/Lavender	Dsy Spoon	7.5	M		Med	•	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round
Tobago™ Red	Red	Red	Dec	8.5	M	E	Med	•	•	•	•	•	•	•	•	•	Oct-Jun	Nov-Jun	Year-round
Vyron™ Yellow	Yellow	Yellow/Gold	Dsy	9	T	E	Med-Sm		•	•	•	•	•	•	•	•	Oct-Jun	Nov-May	Apr-Nov
Williamsburg™ Purple	Purple	Purple	Dec	8	M		Med	•	•	•	•	•	•	•	•	•	Year-round	Year-round	Year-round



Fleurettes

VARIETY	Color	Flower Form	Response Week	Vigor	Keeping Quality Rate	Flower Size	1.0 qt	5 th Pan	Center Bud Removal	Zero Bud Removal	Best Finish Months - North	Best Finish Months - South	Best Finish Months - West
Adelle™ White	White	Dsy Spoon	6	S	E	Mini	•	•	•	•	Mar-Nov	Nov-Jun	Year-Round
Chantal™ Hot Red	Red	Dsy	6	S	VG	Mini	•	•	•	•	Apr-Dec	Year-Round	Mar-Dec
Fifi™ Hot Pink	Pink	Dsy	6	S	VG	Mini	•	•	•	•	Year-Round	Sep-Jul	Year-Round
Genevieve™ Purple Bicolor	Purple	Dsy Bicolor	6.5	S		Mini	•	•	•	•	Year-Round	Year-Round	Year-Round
Lisette™ Yellow	Yellow	Dsy	7	S	E	Mini	•	•	•	•	Year-Round	Year-Round	Year-Round
Lucienne™ Yellow	Yellow	Dsy	6	S	VG	Mini	•	•	•	•	Year-Round	Year-Round	Year-Round
Sabine™ Bronze	Bronze	Dsy	6.5	S	VG	Mini	•	•	•	•	Mar-Nov	Nov-Jun	Mar-Nov
Sylvie™ White	White	Dsy	6	S	VG	Mini	•	•	•	•	Mar-Dec	Sep-Jun	Year-Round

Key: **FLOWER FORM** (Dec) Decorative | (Anm) Anemone | (Spdr) Spider | (Dsy) Daisy | Incurve



Lisette™ Yellow

Yellow / Dsy / Mini / S / 7

Variety 70018586



Sabine™ Bronze

Bronze / Dsy / Mini / S / 6.5

Variety 70024137



Sylvie™ White

White / Dsy / Mini / S / 6

Variety 70024134



Fifi™ Hot Pink

Pink / Dsy / Mini / S / 6

Variety 70024094



Lucienne™ Yellow

Yellow / Dsy / Mini / S / 6

Variety 70021403



Adelle™ White

White / Dsy Spoon / Mini / S / 6

Variety 70018667



Chantal™ Hot Red

Red / Dsy / Mini / S / 6

Variety 70024095



Genevieve™ Purple Bicolor

Purple / Dsy Bicolor / Mini / S / 6.5

Variety 70046047



Culture



Culture

GARDEN MUMS

Garden Mums are easy to grow when basic guidelines are followed. Simply plant rooted cuttings and feed. Today's varieties do all the work when you provide the appropriate feed. Below is a list of the points for successfully growing any garden mum crop.

1. Plant (rooted) or stick (unrooted) cuttings as soon as they arrive and always plant or stick cuttings into moist media. For natural-season East Coast and Midwest crops, planting rooted cuttings outside in mid- to late June, or even early July, saves growing time and reduces premature budding caused by the cool nights of late May and early June.
2. Start the liquid feed program in the first three days after stick for unrooted cuttings and at the time of planting for rooted cuttings.
3. Maintain the level of fertilizer in the root zone with a constant liquid feed program and be sure to refeed after rain so the plants always have fertilizer during the growing phase.
4. Pinches are not required for most crops. One pinch may be beneficial if your cuttings have stretched due to delayed planting, if large propagation cells were used, or if you are in a low humidity growing area.
5. Space pots so plants will not touch when they reach the desired finished size.
6. Monitor the feed levels in the pot and in the irrigation line to prevent problems before they show up in the plant.
7. Take notes on procedures used, any problems seen and weather conditions to allow for adjustments and planning for a better crop next year.

RECOMMENDED CULTURAL PRACTICES

On Receipt of Cuttings

Plant (rooted) or stick (unrooted) garden mum cuttings immediately. If the cuttings cannot be planted immediately, they may be stored for one or two days in a cooler at 33–40 °F / 0.5–4.4 °C, but this is not recommended.

Rooting Unrooted Cuttings

Rooting hormone increases uniformity. The easiest way to apply hormone is to spray cuttings after stick with 200 ppm IBA (indole-3-butyric acid). If spraying IBA, spray in the early morning the day after stick to allow the mist program to be turned off for one to two hours and then resume mist after cuttings begin to wilt. An alternate method is to apply 1,000–1,500 ppm IBA in powder or liquid form to the bottom 1/8"–1/4" of cuttings before sticking.

Always stick cuttings into moist root media. The longer you plan to hold the cutting in the cell tray before planting, the bigger the cell should be. Unrooted cuttings can also be stuck directly into the finishing container, which requires more propagation space.

Allowing plants to become over-rooted, dried out, crowded and/or under-fertilized serves to compromise plant growth and sets the stage for severe budding very early in the crop. Proper care initially is crucial for easy, high-quality finished crops. Plant the cuttings as soon as possible after rooting so quality is not compromised.

Ideal light levels are 3,500–4,000 foot candles, but mum cuttings can be rooted in full sun with adjustments to the misting frequency. Rooting medium temperature should be 70–74 °F / 21–24 °C. Maintain air temperature of 70–85 °F / 21–29 °C. Use longday lighting year round to reduce budding during rooting (see Photoperiod Control section). Fertilization during propagation also reduces rooting time. Apply a complete N-P-K fertilizer containing 165–200 ppm of nitrogen approximately two or three times a week starting on the third day after stick or when callus starts to form.

Misting guidelines: Use of an environmental controller to vary the mist based on weather and the stage of root

development is ideal. More traditional mist time clocks can also be used. In most cases, mist can be off 10 days after stick and with a 100-cell tray, cuttings can be ready to plant in 14 days. Overall, less mist is better at all stages of development since water-logged media slows the rooting process. There is no need to mist a turgid cutting. Mist during daylight hours throughout the rooting process and during the night for the first three to four days to help keep cuttings turgid. You will find it is possible to shut the mist system off in the morning and wait until cuttings first start to wilt before turning the mist back on. This will reduce the amount of mist at the least stressful part of the day and decrease overall time needed in propagation.

Planting

Always plant the cuttings into moist growing media. Planting a garden mum cutting into dry media reduces initial growth and future potential. Plant cuttings deep enough to cover the root ball and part of the base of the stem. With today's well drained growing mixes, disease issues from planting deeper are not seen. Planting deeper can be done on taller cuttings, but is not necessary or recommended on regular size cuttings. Deep planting will reduce overall growth.

Liquid fertilization at planting time gets the plant off to a vigorous start. Immediately after planting, water-in freshly planted cuttings with a complete N-P-K fertilizer containing 200–300 ppm of nitrogen. Allowing garden mum cuttings to wilt inhibits their establishment, future branching and overall growth. It may be beneficial to mist or syringe the plants for the first few days, or until the plants are fully turgid and the roots are absorbing water.

Budded Cuttings

Garden mums are very reproductive. At times, some buds may be present when cuttings are received. When producing garden mums, this must be expected. With the free branching varieties of today, small buds on the cuttings will have little to no effect on the finished plant.

To prevent garden mum cuttings from becoming prematurely reproductive, it is necessary to keep them actively growing. Therefore, it is essential to provide the plant with optimum moisture and fertility levels. Use night interruption lighting

during propagation and before the start of short days with blackcloth crops to help prevent premature bud initiation (see Photoperiod Control section). This should be done even during natural long-day periods. Varieties that naturally come into flower in late August and early September, initiate flower buds in mid- to late July. The natural daylength in mid- to late July is similar to the natural daylength in mid- to late May. Relying on only natural daylength in May can lead to flowering plants at the end of June.

Many areas of North America experience very cool nights in May and June, which may cause cuttings to initiate buds prematurely. It is best to avoid exposure of the cuttings to these low night temperatures (see Temperature section). If you can keep the plants actively growing with fertilizer and water, in most cases the cuttings can grow over any premature buds that are set.

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 media, 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.

Containers

There are a variety of container sizes used in garden mum production. Cell packs, handle baskets and 3–1.25 qt pots are widely used for spring sales. For summer and fall sales 1.25–3.0 qt plastic and fiber pots are used, along with 1.0–2.0 gal nursery containers. Many growers find demand for large pot sizes such as 1.5 gal, 2.5 gal and 3.0 gal pots as well as different pot colors and styles. As a general rule, the larger the container, the larger the finished plant will be. We recommend using new containers each year. Reused

containers must be properly cleaned and sanitized to prevent possible crop disease issues.

There is also the potential to “upgrade” traditional pots with pot covers put on at the time of retail delivery. Seasonal themes such as Jack-o'-lanterns or bushel baskets are available. Pot covers add market value at a low cost and do not require any adjustments to your current growing process.

Temperature

Once the cuttings are in the final container, keep night temperatures above 62–65 °F to allow growth and reduce the potential for budding. Night temperatures in the 50–59 °F range can cause garden mum bud initiation and potential development even under long day conditions. Plant outdoor crops in mid- to late June after the night temperatures are above 60 °F. This will allow for more growth than planting in late May because of a lack cold night temperatures and premature bud initiation.

Fertilization

Fertilization is the key to success with any garden mum crop. Mums demand fertilizer and providing this early solves headaches that could occur later in the crop. Fertilization rates vary depending upon the type of media, fertilizer used and application frequency. Growers can utilize a water-soluble fertilizer, a controlled release fertilizer, or even a combination of the two depending on preference. Lack of fertility during the vegetative development phase (first half of the crop) will adversely affect plant size and quality. High ammonium levels can help overcome crown-budding but can also delay flowering. During the flowering phase, nutrient demand drops and fertility can be reduced.

Water-Soluble Fertilizer (WSF) Usage

The first five weeks of the crop is critical, so check your feed system and injectors before you plant the cuttings. Growers should use a complete N-P-K fertilizer with trace elements. The best fertilizer product to use will depend more on your water quality than any preference by the mum. During the first half of the crop cycle EC values of 2.0–3.5 mS/cm (SME extract) or 2.5–4.5 mS/cm (pour through extract) should be maintained. We have traditionally recommended



a high level of fertilizer (200-300 ppm N) from a constant liquid feed program to get the plants started. Some growers use an ammonium-based fertilizer for the first two weeks, and then switch to a higher-nitrate fertilizer. Fertilizer rates can be reduced once the plant body has been built and/or once there is a need to irrigate more than once a day. It is better to maintain constant feed at half the rate than use a feed-then-water program when irrigating twice a day. The application rate might have to be adjusted to accommodate weather conditions or the degree of leaching that occurs.

An alternative to the traditional liquid feed program is a low N-P-K constant liquid feed program that is supplemented with magnesium sulfate and micronutrients. Research* and grower trials over the past several years have found that high levels of nitrogen are not necessary to drive growth. Lower levels of nitrogen, phosphorus, and potassium can be applied without sacrificing proper growth and development of the plant as long as there is an increase in the levels of micronutrients and magnesium sulfate so that they are equivalent to a standard 200–250 ppm N fertilizer program. The lower N-P-K program utilizes a complete fertilizer at 75–150 ppm N that is supplemented with 1-2 ppm iron from a complete micronutrient fertilizer package and magnesium sulfate at 25–30 ppm. The additional micronutrients and magnesium sulfate are best added through a second injector. This is a constant feed program, so every irrigation needs to include fertilizer. If bark is incorporated into your growing media, plan to use nitrogen rates at the higher end of the recommended range. After a significant rain event (.5-1" of rain), it is important to apply 200–300 ppm N feed to recharge the soil solution. This can also be done at the start of your crop if your growing media does not contain a starter fertilizer. Lower EC values in the media would be expected with this program because the plant will be more fully utilizing the nutrients being supplied.

The magnesium sulfate can also be applied every three to four weeks as a separate application at 50–75 ppm to help reduce potential precipitate issues that can occur when mixing with other fertilizer products. The required extra micronutrients can be added as a control release product that is incorporated into the growing media before the cuttings are planted. This may be an easier option for some growers to be able to reduce N-P-K levels without using two injectors to prevent precipitate problems. There are some new fertilizer products now available with increased levels of micronutrients and magnesium that may also be an option when using lower N-P-K levels.

Overall, a low N-P-K program helps to reduce fertilizer costs and simplifies irrigation in the field because the same fertilizer level is used at all stages of the crop, allowing different plant dates to utilize the same feed tank. It is suggested to trial this program before changing your entire production schedule. Dedication to monitoring the feed is one of the keys to a successful low N-P-K fertilizer program.

Controlled-Release Fertilizer (CRF) Usage

Some mum growers use CRF instead of liquid feed. Be sure to use one that contains trace elements. CRF can be incorporated into the growing medium prior to planting or top dressed after planting. If at all possible, water in the plants with a WSF to boost initial fertility. CRF release is temperature dependent, releasing faster during warmer weather. CRFs are categorized by release rate in months or days. Northern growers often use three- to four-month or five- to six-month products while Southern growers use five- to six-month or eight- to nine-month products. The recommended application rates vary by product and are listed on the labels. High application rates are required to provide adequate nutrition. Growers should take great care when selecting a CRF and its application rate, especially if there is no way to apply supplemental WSF if needed. Depending upon weather conditions, it is sometimes necessary for additional top-dress applications to avoid low fertility. Growers should regularly monitor growing medium electrical conductivity (EC). Low or decreasing EC values would indicate the need for supplemental fertility.

Water-Soluble Fertilizer/Controlled-Release Fertilizer Combination

Some growers produce mums alongside lighter feeding crops using a single injector. With this system, heavier mum fertility requirements can be accommodated by including a light to moderate CRF application to the crop. This provides continuous low to medium fertility levels supplemented by the liquid feed.

Irrigation

Proper irrigation is critical to produce high-quality garden mums. Always apply enough fertilizer solution so it soaks through the pot and up to 10% of the solution drains out of the pot to prevent soluble salts build-up.

Garden mums should never be allowed to wilt during the early stages of growth. Wilting can restrict branching and overall growth as well as contribute to premature budding. Slight wilting can be beneficial late in the crop to help harden the plant off, control height and promote more uniform flowering. Keeping plants evenly moist (not wet) can increase overall plant size even after buds are seen. This can be a useful tool if your plants look like they will finish too small.

Drip irrigation is better than overhead irrigation because drip irrigation can more uniformly water a pot especially when the plants are large in size and because overhead irrigation can promote the development of leaf spotting foliar diseases. If using overhead irrigation be sure the foliage is dry before evening hours. When using drip irrigation, it is not required to place drip emitters close to the center of the pot to ensure uniform irrigation throughout the pot.

Pulse irrigation is a useful tool to more fully irrigate pots with drip irrigation. Instead of running one long irrigation cycle, break that run time into two or three shorter segments with time in between to allow the irrigation solution to move laterally in the pot not just run out the bottom. Doing this can also allow you to time your irrigation so the pots never completely dry out which will encourage more growth and plant size.

During extremely hot periods, do not apply extra water to the pots in an attempt to lower temperatures. This leads to overwatering, root loss and chlorosis. Syringing plants reduces heat stress and lowers leaf temperatures without overwatering. With greenhouse grown crops, 25–30% shade can be used to reduce temperatures, but the reduction in light will slow the flowering response.

Pinching

In most cases, garden mums no longer require pinching, and certainly do not require multiple pinches to obtain beautiful round plants. Many of the newer varieties will actually start branching during propagation, well before you would even think about pinching. We have stopped pinching in all of our garden mum trials to allow us to introduce and recommend that best varieties for no pinch production.

Sometimes cuttings rooted in large plugs and cuttings held in small plugs too long before planting may require a pinch. Some growers may still want to give one pinch if they are located in an area of the country with low humidity or if more spread is needed on some varieties grown as a blackcloth crop.

On crops that will be pinched, the ideal would be to pinch when the plants are ready, not based on a calendar date. Plants are ready to pinch when their roots are established in the pot and they achieve 1"–1.5" / 2.5–3.8 cm of new growth. This is generally 10–14 days after planting. The top .5" of growth should be pinched out. Many growers rooting mums in trays for transplant into the final containers pinch the cuttings by machine right before transplanting to reduce labor and handling costs. When pinching, the last pinch should be given sometime in July—early in the month for crops in cool areas, and as late as August in warm regions.

Remember, with today's improved varieties there is no reason to plant a cutting in May or early June and pinch it multiple times. Excellent fall crops can be grown by planting in mid-June and not pinching. Some growers find it more economical to plant two to four weeks later with two cuttings per pot and no pinch.

Spacing

Proper spacing is important for producing garden mums with beautiful round shapes. Pots grown too close together have an upright appearance, even when the right varieties have been selected and proper fertilization is given. Space pots to allow plants to reach the desired head size without touching the adjacent plants. Finished plant head size and sale price are the main factors used to determine proper spacing.

Growth Regulators

Some garden mum varieties tend to get too big. If these varieties are needed, they can be controlled with the use of growth regulators. Effective use of all growth regulators is more of an art than a science. Stage of the crop, concentration of the plant growth regulator (PGR) used, uniformity of application, and the weather after the application all factor in to the level of control seen. Accurate records are needed to learn from crop to crop and year to year to know how to best adjust applications for a location.

If most of the varieties in your crop require growth regulators, consider a later plant date to reduce growing time and, therefore, plant size. Proper use of fertilizer and irrigation can also help control plant size later in the crop (see the Fertilizer and Irrigation sections).

B-Nine® plant growth regulator is a traditional plant growth regulator for garden mums. Typical rates are 1,000–5,000 ppm with 2,500 ppm as a normal starting point. Rates vary depending on a variety's vigor, temperature, and growth stage of the crop. Usually B-Nine plant growth regulator is not applied after the buds can be seen to avoid flower discoloration and delay.

Bonzi® plant growth regulator is also an effective tool that can be used to regulate plant growth. The active ingredient in Bonzi plant growth regulator is absorbed by roots and stems and can be applied as either a spray or drench. Spray rates range from 30–50 ppm, while drench rates range from 0.5–2 ppm. While drench applications can be applied at any point during production, foliar sprays are best used after transplanting up until the early stages of bud formation. Drench applications can be particularly helpful at the end

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GARDEN MUMS

of the crop cycle to maintain plants at their finished size prior to shipping. Late applications using low drench rates do not appear to delay flowering. Use rates and application frequency will vary based on the vigor of the variety and the climate in which it is grown. It is always best to trial at a lower rate first, especially when growing in regions with cooler climates and for first time users.

Sumagic® is also a very effective plant growth regulator, but results have been more variable. Spray rates range from 2.5–10 ppm and drenches of only 0.1–1 ppm are used. Uptake of Sumagic plant growth regulator is similar to Bonzi plant growth regulator.

Florel™ plant growth regulator has been promoted for several uses on garden mums: to increase branching, to prevent premature budding and to delay flower dates of the same variety. More recently, Florel plant growth regulator is being used by some growers to replace night interruption lighting during the long-day period of the crop schedule.

In our trials, we have not found Florel plant growth regulator to increase the branching of garden mums as it does in other crops. With the free-branching garden mums now available, Florel plant growth regulator is not required to have well-branched plants.

Florel plant growth regulator can be used as insurance against premature flowering and to manipulate the flower date of varieties when night interruption lighting is not possible. The key to both of these uses is to plan ahead and make Florel plant growth regulator a part of the production schedule from the beginning. Florel plant growth regulator will be less effective if applied after buds are already seen.

When using Florel plant growth regulator as insurance or to substitute for night interruption lighting, plan the first application for 8–10 days after stick for unrooted cuttings or about three days after planting for rooted cuttings. The goal is to make the first application early but to not apply to stressed cuttings. Subsequent applications can be made every 10–14 days. The last application should be made eight weeks before the desired ship date or about two

weeks before the start of short days. Spray rates of 300–500 ppm are commonly used.

Mum cuttings that are stuck or planted in May have a good chance of setting flower buds early because the natural daylength is not long enough to prevent flower initiation. If night interruption lighting (see Photoperiod Control section) is not possible, a Florel plant growth regulator program will help keep your plants vegetative.

Greenhouse vs. Outdoor Growing

A better quality fall garden mum is produced outdoors versus indoors. Temperature and humidity levels are often too high in a greenhouse. Outdoor-grown mums are tougher, more compact and generally perform better for the consumer. Fall garden mums grown indoors under natural day length may flower approximately two weeks later than those grown outdoors as warm summer night temperatures can delay flower initiation. With proper variety selection, high quality “summer shaded” garden



Stage 1 Ursula™ Lavender



Stage 2-3 Ursula™ Lavender

mums can be produced indoors before the fall season (see Blackcloth Selection).

Photoperiod Control

Long days are needed to generate vegetative growth. Sufficient long days must be provided to obtain the proper finished plant size for a given container. Artificial long days should always be provided during mum propagation, with spring-lighted/shaded crops and blackcloth garden mum programs. Artificial long days can be supplied by lighting plants from 10:00 p.m.–2:00 a.m. with 10–15 foot candles or 1.5–2.0 W/m². This can be obtained with 100 watt incandescent bulbs or 33 watt corkscrew-type compact fluorescent bulbs. A typical set up would be to have light lines 10 feet apart and incandescent bulbs placed every 10 feet down the light line. When using compact fluorescent bulbs, additional bulbs are necessary and should be spaced every five feet down the light line. Even with the additional bulbs, there should be a 33% energy savings using the compact fluorescent bulbs. For either bulb, a reflector (pie pan) is recommended to be sure the light is directed down toward the plants. Use a timer to control when the lights go on and off. Use of artificial “mum lighting” should be done even when the natural day length is greater than 12 hours, to ensure the cuttings do not initiate flower buds early.

Short days are needed for flowering. Artificial short days are provided by covering plants with an impermeable light barrier like blackcloth or 4–6 mil black plastic for at least 12 hours daily. Accomplish this by pulling blackcloth before the sun sets and opening after sunrise (7:00 p.m.–7:00 a.m.), or by pulling blackcloth early in the morning before the sun rises and opening mid- to late morning (5:00 a.m.–10:00 a.m.) to help reduce the temperature under the cloth during the night. Light intensity under the blackout must be less than two foot candles to be effective. For the most predictable timing, we recommend covering every night for at least four weeks to initiate flowers. When using blackcloth outside of the greenhouse, some growers use weed barrier cloth since it allows the passage of air and water. Blackcloth can be laid directly atop plants, but most often a support structure is used to prevent damage from windy or rainy conditions. The covering is pulled over the structure at the end of each day from either the sides or

ends of beds, and then rolled and stored in the aisles in the morning.

Combo Mum Culture

Garden mum combos are very popular and are very easy to grow. Requiring more than one cutting in a pot, they are usually grown in larger container sizes and upgraded containers. The easiest way to create a garden mum combo pot is to choose varieties from the same family. Families will be the most consistent between the colors in any crop schedule. Individual varieties can be used, but may not be consistent and reliable.

For natural-season crops, we recommend planting multi-cutting pots two to four weeks after your single cutting 3.0 qt pots to reduce risk of premature budding under cool night temperatures and inadequate natural day lengths.

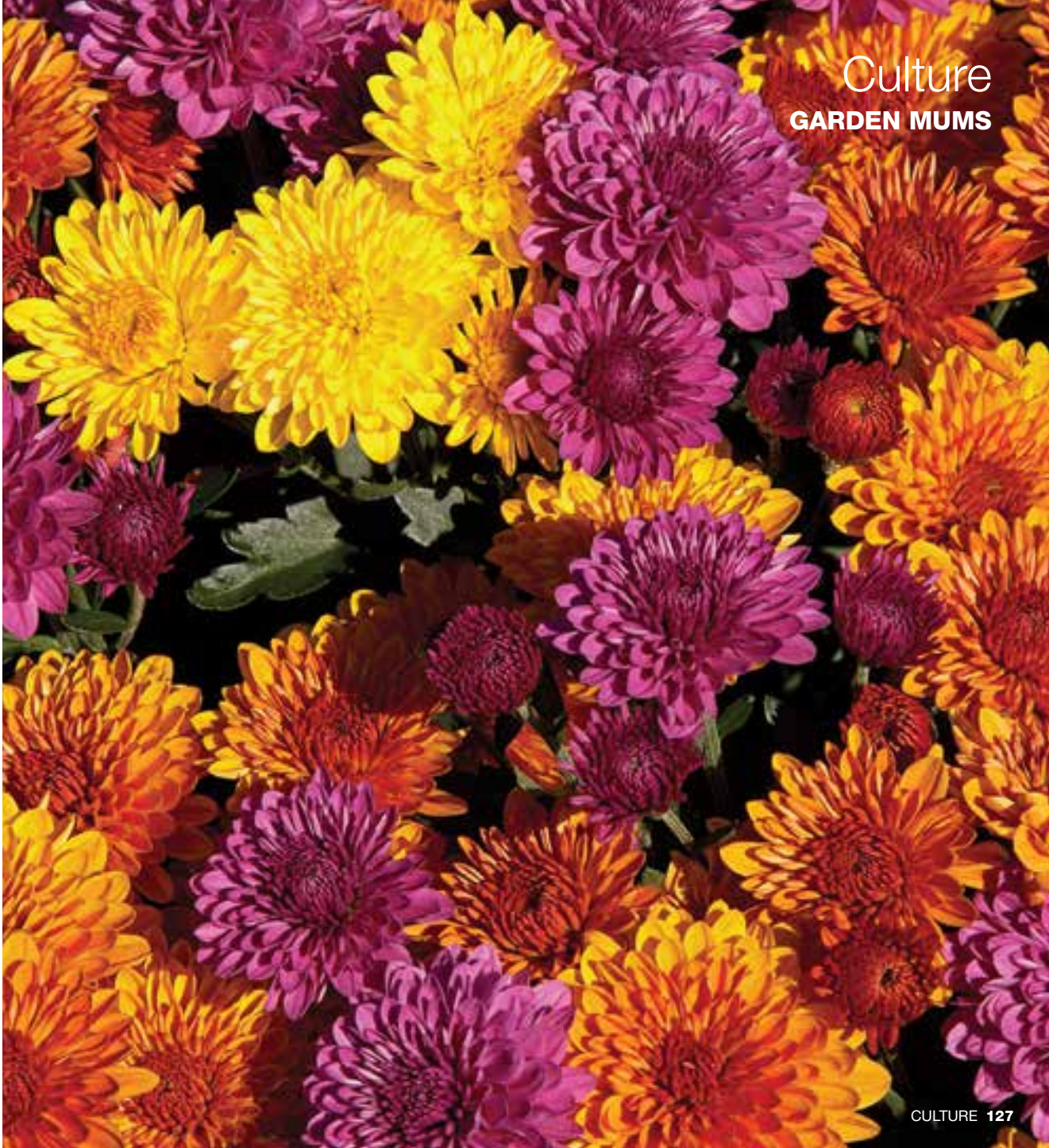
For a shaded program, expect large containers to be ready to ship faster after blackcloth is started than what you have scheduled for standard 1.25 qt crops. The same variety can flower as much as a week faster in a 3.0 gal pot versus a 1.25 qt pot going into blackcloth at the same time.

For planting multi-cutting pots, 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 two inches apart and as close as having the rootballs touch near the center of the pot. This allows the cuttings to grow together early in the crop and create a stronger plant base.

Reference our Garden Mum Combination recommendations and cultural information at www.syngentafhg.com for additional details.

Pest Control

There are several insect pests that can be a problem on garden mums which include aphids, mites, various caterpillars, leafminer, whiteflies and thrips. Fortunately, insects are not usually a significant problem, but pressure can vary from region to region. Previous scouting data can provide a history of which pests are more prevalent in your area and help provide a framework for building a preventive program for routine pests. Avid® and Mainspring® GNL



Culture

GARDEN MUMS

insecticides, with their broad-spectrum activity across some of the major garden mum pests, will be two important staples in your insecticide rotation program. Additional information for various pests can be found at www.syngentaflowersinc.com under Cultural Information in the Technical Support tab.

Leafminer: Leafminer pressure can vary from year to year and if not recognized in time, this pest can cause serious damage to garden mums. It is important to inspect plants upon arrival and note any active mines. Monitor the growing areas with sticky cards so you can check for adult activity. Good scouting and proper use of effective controls is the best way to protect crops that are prone to leafminer. A preventive approach is best, as once leafminer gain a foothold in the crop; it is often difficult to get them under control. This is due to the unsynchronized timing of the different life stages and the difficulty of getting good spray coverage once the crop has gained some size.

A rotation using Avid, Citation®, Mainspring GNL, and Conserve® SC Insecticides can be used to protect garden mums from leafminer as well as other pests listed on these labels. Use Citation and Avid in a block rotation of three spray applications each, then rotate to the next product. This targets the lifecycle of the pest and allows you to effectively rotate to another product to help minimize the chance of resistance. The systemic activity of Mainspring GNL insecticide provides extended protection of eight weeks (depending on the rate used) when used as a drench and will also provide protection against thrips, aphids, whiteflies and worms. This is best applied once the crop has rooted in well, in order to maximize uptake. Mainspring GNL may also be applied as a spray using a two week interval. Use Conserve insecticide at the end of the crop if needed for leafminer and thrips control. Products containing Azadiractin can be applied at the end of the week (or four to five days after a treatment of Avid, Citation or Conserve insecticides) if pressure is high and/or during the third week prior to rotating to the next product.

Disease Problems

The most common diseases found on garden mums are caused by Pythium, Fusarium, Rhizoctonia, and foliar leafspots caused by Pseudomonas cichorii (bacterial leaf spot). The first defense for disease prevention is to start clean —using clean cuttings, soil/planting media, equipment and good cultural practices that create an unsuitable environment for disease organisms.

For the field, be sure the ground is free of weeds and debris to remove any potential inoculum source from last year. Prior to placing plants in the field, clean irrigation lines by flushing with chlorinated water containing 2–3 ppm chlorine, followed by a 1 ppm chlorine rinse to clear out any debris. Please note that this may cause some clogging in the lines as algae and other debris is dislodged. Be sure to check drippers after flushing and replace those as needed. ZeroTol® algaecide/fungicide can also be used to clean and flush irrigation lines. Be sure to check the label for the instructions on applications and use rates. It is also important to check for low spots in the field that can be collection points for excess water after rain or irrigation. These areas can contribute to root rot and other disease problems. If the low spots cannot be properly leveled, raising pots up on trays in these troublesome spots can help alleviate future disease problems.

Other cultural practices that can help reduce the risk of disease include moving from a high ammonium fertilizer to one with a nitrate form of nitrogen after initial growth has begun and maintaining the soil pH at the higher end of the desired range. A sand filter and chlorination of the irrigation water if it is from a surface water source is also a good idea.

Disease Control

Infections by Fusarium sp. can cause root, stem and foliar blight on garden mums. If this disease has been a problem in the past, a preventive program using systemic and protectant fungicides can be beneficial for producing a healthy garden mum crop. A rotation using Heritage® (0.9 oz/100 gal) or Mural® fungicides (2-3oz/100 gal) as a drench four weeks after planting, followed by a Medallion® fungicide drench (2 oz/100 gal) four weeks later; then apply a Mural®

fungicide spray 7 oz/100 gal) focused on the center of the plant three weeks after the Medallion fungicide treatment will provide protection against Fusarium sp. and many other diseases such as Rhizoctonia, Rust and foliar leafspots that can affect garden mums. Please refer to the product labels for specific instructions on applications and use rates.

Pythium root rot can also be a problem in garden mum production, particularly in crops grown outside. The heat of the summer months and the periodic rains can sometimes put additional stress on the root system which can make them prone to infection. Build-up of salts in the planting media can also contribute to root problems, so monitor the EC and pH regularly to be sure it is within the proper range. Using a preventive fungicide rotation can help avoid problems that can show up in the crop and disrupt sales. Begin by drenching mums after transplanting or seven days after stick. The following products listed below have shown to be effective in controlling diseases caused by Pythium sp. For prevention, apply on a 21–28 day interval; for active infections apply on a 14-day interval. Products should be used in a rotation to avoid problems with resistance.

MOA#	FUNGICIDE	RATE (per 100 gal)
4	Subdue Maxx®	1-2 fl. oz.
3	Truban®	4-10 fl. oz.
21	Segway®	1.5-3 fl. oz.
11 + 7	Mural	2-3 oz

For more details on chrysanthemum disease management, see the Mum Disease Control tip sheets at www.syngentaflg.com.

Chrysanthemum White Rust (CWR) is a pest of quarantine significance in North America that can affect garden mum production. Visit www.syngentaflowersinc.com for a complete bulletin on the disease lifecycle and preventative management.

Weed Control

Weed control in outdoor garden mum production areas is primarily accomplished with solid or woven plastic ground cover. Use clean media in containers to prevent any weeds in the pots. Other manual methods or mulches can be used in field cultivation. There are several pre- and post-emergence chemicals available for use with mums. Barricade® 4FL or 65WG is a pre-emergent herbicide that can be helpful in reducing a broad-spectrum of broadleaf and some grassy weeds. For best results, apply to the ground/groundcover prior to setting plants in the field. Remember that both preemergence and post-emergence herbicides only control certain weeds. Read the label for weeds controlled and for use rates and application methods. Also keep in mind that damage can occur with drift or vaporization when using weed killers near growing plants.

NOTE: These suggestions are only guidelines and may have to be altered to meet individual growers needs.

*Based on a program developed by Dr. Royal Heins.

All products may not be registered for sale or use in all states. Please check with your state or local Extension Service before buying or using Syngenta products. 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. Florel™ is a trademark of Bayer AG. ZeroTol® is a trademark of BioSafe Systems. B-Nine® is a registered trademark of Chemtura Corporation. Conserve® SC is a registered trademark of Dow AgroSciences LLC. Segway™ is a trademark of FMC Corp. Truban® is a registered trademark of OMS Investments, Inc. Oasis® is a registered trademark of Smithers-Oasis Company. Sumagic® is a registered trademark of Sumitomo Chemical Co., Ltd.

Visit www.syngentafhg.com for more detailed information.

Asters are the perfect companion for garden mums. Like garden mums, they can be used in summer, fall and West Coast programs. They also have similar cultural requirements.

We grow our aster trials with the same media and fertilizer as our garden mums. Our fall and West Coast asters are grown with no pinch, just like garden mums. There are a few differences from garden mum culture, which are highlighted below.

Propagation

Aster cuttings require a bit more care than garden mum cuttings. Aster cuttings do not ship or store as well as garden mums so plan to stick unrooted cuttings as soon as they arrive. Propagation may take a few days longer than mums. Keeping the media too wet will delay rooting.

Growing Media and Fertilization

The same soilless media and the same 200–300 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). The low N-P-K program also works for aster production. 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 with 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, or during the first half of the crop cycle EC values of 1.5–2.7 mS/cm (SME extract) or 2.0–3.5 mS/cm (pour through extract) should be maintained.

Flowering Response

Asters flower under short days, and tend to bud easier than garden mums. Be sure to use night interruption lighting year round for propagation, as well as the long day period for forced crops (See the Photoperiod Control section in Garden Mum Cultural Information). Asters flower faster than mums once short days begin. Most varieties 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 to 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 are primarily driven to flower by photoperiod and are not affected as much by temperature. This means asters grown in the South flower 7–10 days faster than the same variety grown in the North. And for those in the deep South, varieties can be faster by two weeks or more than the same variety in the North.

Pinching

Traditionally, fall aster crops have been pinched at least once and blackcloth flowering crops received two pinches. With the new, better-branching varieties, aster pinch requirements have been reduced. For our blackcloth trials we have been using multiple cuttings with just one pinch, and we have even started no pinch aster trials in blackcloth with good results for certain varieties. Our natural season trials have been one cutting with no pinch for more than ten years.

For blackcloth 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. Having roots established in the pots before the pinch helps create the most branching.

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.

Although not suggested, 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 and may flower too short after the pinch.

Spacing

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

Height Control

With today's free branching varieties, less growth regulators are needed to control height. B-Nine® and Bonzi® plant growth regulators are used successfully and rates are similar to those for garden mums (see Growth Regulator section in Garden Mum Cultural Information). A light B-Nine application when new shoots are .75-1" long is a key to creating full plants in greenhouse blackcloth crops. Skipping this application allows the primary branches to stretch in the warm and humid environment and the secondary branches are then not able to fill in the plant body.

Pest Control

Whiteflies and thrips and occasional spider mites are the key insect pests. A rotation of Mainspring® GNL and Avid® Insecticides can be used to control these pests. For additional information on products for insect management, refer to our Mum 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 can reduce the incidence of disease. For additional information on disease management, refer to our Mum Disease Control tip sheet at www.syngentaflowersinc.com.

For outdoor aster production, we strongly recommend a preventative spray program which includes a rotation of Daconil Ultrex® Concert® II and Mural® fungicides to control powdery mildew and rust. Scout crops regularly and apply protective fungicides when conditions are conducive for disease development. In a preventive program, sprays may be applied on a 14-day interval. Once flower buds are present, rotate Mural with a myclobutanil chemical such as Eagle® or Hoist® fungicide in place of Daconil and Concert II. Please note that applications of myclobutanil can have a growth retardant effect. Concert II is registered for outdoor use only. Do not apply Concert II to plants grown in a greenhouse.

NOTE: These suggestions are only guidelines and may have to be altered to meet individual growers needs.

All products may not be registered for sale or use in all states. Please check with your state or local Extension Service before buying or using Syngenta products.

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. B-Nine® is a registered trademark of Chemtura Corporation. Eagle® is a registered trademark of Dow AgroSciences, LLC. Hoist® is a registered trademark of PROKoz, Inc.



Culture

POT MUMS

Pot mums are versatile. They can be grown and marketed in almost any size and container type. There are different procedures for starting a pot mum crop, depending upon the type of cutting (rooted or unrooted) used. Once the crop is established, cultural practices are identical.

Keys to Success

- Choose varieties carefully. Consult variety listings in the mum catalog and the variety charts for recommended varieties by season and region.
- Maintain optimum environmental conditions.
- Do things on time.
- Use liquid fertilizer at planting and continue feed during the first part of the crop.
- Reduce or eliminate fertilizer for the last few weeks of the crop to help optimize keeping quality.
- Use nitrate-based fertilizers during low-light/winter environments.

On Receipt of Cuttings

It is best to stick or plant cuttings upon arrival. Cuttings may be stored for no longer than three days in a cooler at 33–40 °F / 1–4 °C, but this is not recommended. Inspect cuttings upon arrival for damage from heating, freezing, breakage or dehydration. Report any problems immediately; pictures are recommended.

Starting Cuttings

Unrooted Cuttings

Sticking unrooted pot mum cuttings is typically referred to as “direct sticking”. Fill containers to the top with media and moisten thoroughly. Rooting hormone increases rooting uniformity. Apply 1,200–1,500 ppm IBA (indole-3-butyric acid) in powder or liquid form to the bottom .125–.25" of cutting before sticking or spray cuttings after stick (recommended) with 200 ppm IBA. When using a spray rooting hormone, use a wetting agent and spray in the early morning or after dark; resume mist after cuttings begin to wilt. Please note: hormone-treated cuttings are available at a nominal charge for your convenience.

Unrooted cuttings should be stuck into moist media approximately 1.5" deep. Allow approximately .75–1" of growth exposed above the media. After sticking, cuttings must be watered in.

A complete N-P-K fertilizer such as 20-10-20 at 250-300 ppm nitrogen is recommended for media that does not contain a fertilizer charge.

Once the cuttings are stuck and watered in, provide mist for approximately 10–14 days while the cuttings root. Misting keeps cuttings turgid and provides moisture during rooting. The duration and frequency of the misting is dependent on light intensity, temperature, humidity, etc. As a general guideline, mist for 10 seconds every 5–10 minutes for the first three to four days. Then change to every 20 minutes for the next three to four days. Reduce the frequency to every 30 minutes as the cuttings root. While cuttings should be stressed as little as possible during propagation, there is no need to mist a turgid cutting. Do not overmist, especially once the cuttings are rooted. Cuttings may stretch from too much moisture if plants are kept too wet or under mist for too many days.

To reduce stretch in propagation during the warm months, an application of B-Nine® plant growth regulator at 1,000–1,500 ppm can be combined with the rooting hormone spray or applied separately at a later stage during the propagation phase.

Rooted Cuttings

Always plant rooted pot mum cuttings in moist media. Planting a cutting into a dry medium may delay its establishment and therefore reduce its initial and future growth.

Plant the rooted cuttings deep enough to cover the roots. In a loose, well-drained media, rooted cuttings can be planted about an inch deeper. This deeper planting can anchor the plant more securely and promote better branching with only the softer growth above the soil line.

Immediately after planting, water thoroughly with a fertilizer solution to get the plant off to a vigorous start. A pot mum cutting uses liquid fertilizer from the moment it is planted. A complete N-P-K fertilizer such as 20-10-20 at 200–300 ppm nitrogen is recommended at the time of planting. It is beneficial to mist or syringe the plants frequently for the first few days or until the plants are fully turgid and the roots are absorbing water.

Cuttings Per Pot

Four or five rooted cuttings are recommended for 1.25 qt or 1.81 qt azalea pots. One to three cuttings for a 1.0 qt pot. Plant cuttings near the outside edge of the pot at a slight angle and space equally apart. This allows more light to reach the plants later and encourages increased branching action for fuller pots. No cutting is needed in the center of the pot.

Rooting Media

Pot mums require well-drained, well-aerated media, with good moisture-holding capacity to firmly anchor the root system. Pot mums are adaptable to both soil-based and soilless mixes. It is important that the rooting media be free of insects, disease causing agents, and weed seeds. Soil-based mixes should be pasteurized (steamed) before use at 160 °F / 71 °C for 30 minutes. The pH for soil-based rooting media should be 6.2–6.8. The pH for soilless root media should be 5.8–6.2.

Spacing

Pot mums must be properly spaced at all times or quality suffers. Spacing is generally determined by the desired finish plant size. Ideal spacing would have the plants just touching when the desired finish height is reached.

Photoperiodic Lighting

Pot mums generally require night lighting during the initial portion of their growing schedule. This is the long-day portion of a pot mum crop. Long days are used to maintain vegetative growth and help determine overall finished plant size. The number of long days required will vary by cultivar and pot size. Long days are needed immediately upon planting/sticking. Long-day conditions require a minimum of 10 foot candles of light at plant level during the middle of the night. Do not permit more than seven hours of continuous darkness to occur prior to or during the lighting period. Artificial long days can be supplied by lighting plants from 10:00 p.m.–2:00 a.m. with 10–15 foot candles or 1.5–2.0 W/m². This can be obtained with 100 watt incandescent bulbs or 33 watt corkscrew-type compact fluorescent bulbs. A typical set up would be to have light lines ten feet apart and incandescent bulbs placed every ten feet down the light line. When using compact fluorescent bulbs, additional bulbs are necessary and should be spaced every five feet down the light line. Even with the additional bulbs, there should be a 33% energy savings using the compact fluorescent bulbs. For either bulb, a reflector (pie pan) is recommended to be sure the light is directed down toward the plants. Use a light meter to confirm lighting requirements are met.

Watering

Pot mums require a plentiful amount of water and fertilizer. For a strong root system, allow media to dry somewhat between irrigations, but do not allow the plants to wilt. Irrigate thoroughly, allowing for some leaching.

Various methods of irrigation are used on pot mums including drip irrigation, ebb and flow benches, troughs

and capillary mats. The majority of pot mums are watered with drip irrigation or sub-irrigation techniques. The use of automated irrigation systems is recommended. Automated systems tend to promote more uniform growth and reduce labor costs.

Fertilization

Pot mums are heavy feeders, especially during their initial stages of growth. A pot mum fertilization program should begin as soon as the cuttings are planted or stuck.



Constant liquid fertilization is recommended for pot mum production. Use a complete N-P-K fertilizer that has the majority of N in the nitrate form and contains extra micronutrients such as a “Peat-Lite Special” formulations, (e.g., 20-10-20, 20-5-19, 21-5-20). A 200–300 ppm solution of N (soil root media) or 300–400 ppm solution of N (soilless root media) will produce high quality pot mums. If nonleaching fertilizer delivery systems are used, such as ebb and flow, flood floors, capillary mats, or troughs, the fertilization rate is often 25–50% lower to reduce soluble salt accumulation. Soil and foliar tests at regular intervals are recommended. Adjust fertilizer rate as needed to maintain recommended fertility levels.

Pot mums are heavy feeders for much of the crop time, so it is very important to note that fertilization should be reduced or eliminated during the final two to three weeks of the crop. Work done at the University of Florida by Dr. Terril Nell has demonstrated that pot mum longevity can be increased by 7–14 days when fertilizer applications are terminated at disbudding, or approximately three weeks before marketing the crop. If not done at the time of disbud, fertilizer should be eliminated when bud color is showing.

Target EC (saturated media extract; mS/cm = millisiemens/cm = mmhos/cm):

Establishing 0.8–1.5 mS/cm
Growing 1.7–3.0 mS/cm
Finishing 0.8–1.5 mS/cm

Pinching

Pot mum cuttings are pinched to encourage lateral branching to produce fuller plants with high flower count. Before a pot mum is pinched, no matter what size pot, these requirements must be met:

- The plants must be established with their root system reaching the bottom of the pot
- .75–1" of new top growth should have occurred.

Under proper environmental conditions, pot mums should be ready to pinch 12–14 days after planting in spring and summer months and 15–18 days after planting in fall and winter months. When pinching, remove the top .5–1" of new growth, allowing approximately five to seven leaves to remain on the cutting. Delayed pinching refers to the practice of pinching after short days have started.

Short days are started one week after planting and then plants are pinched three to seven days later when ready. This produces shorter plants with fewer leaves. It's commonly used to control height during early spring to mid-summer production when the environment is conducive to vigorous growth.

Short Days

Pot mums initiate and develop flowers when exposed to short days. Pot mums need a minimum of 12 hours of uninterrupted, total darkness in order to initiate and develop their flowers. From approximately September 20 to March 20, the days are naturally short enough to induce flowering. Pot mum crops scheduled to flower from mid-November until late April only require natural short days.

Pot mum crops scheduled to flower from early May until early November need artificial short days in order to flower. This is accomplished by pulling blackcloth or black plastic over the crop each day to provide a minimum 12-hour period of darkness. (For example, blackcloth is pulled at 7:30 p.m. and removed at 7:30 a.m. each day.) A Mother's Day crop needs short-day treatment to ensure an on-time, uniform flowering response. The short-day treatment must be done each day from the start of short days until flower color shows in the flower buds. Missing a day means delaying the crop by a day. During summer months, it is wise to pull the blackcloth as late in the evening as possible to minimize heat build-up under the cloth. Excessive heat under the blackcloth can contribute to heat delay and reduce plant quality.

Temperature

In the propagation area, night air temperatures of 65–68 °F / 18–20 °C with soil temperatures of 68–70 °F / 20–21 °C are recommended. Day temperatures can run 5–10 °F / 2–6 °C warmer.

As pot mums move to the finishing environment, night temperatures of 62–65 °F / 17–18 °C, and day temperatures 67 °F / 19 °C if cloudy and 72 °F / 22 °C if sunny, are recommended.

During the final three to four weeks of development, it is beneficial to lower the night temperatures to 56–60 °F / 13–16 °C, with day temperatures of 61–65 °F / 16–18 °C to enhance flower color and strengthen stems.

A large, positive difference (DIF) between day and night temperatures, with the day temperature warmer than the night, promotes longer internodes and taller plants. Plant height can be reduced if a less positive or zero DIF is practiced. A negative DIF (warmer night than day) is not recommended as leaf chlorosis, clubbiness and reduced vigor may occur.

Bud Removal

There are three types of bud removal practiced on pot mums today. These include disbud (DB) or removing the side laterals to create one larger flower, center bud removal (CBR) or removing only the center bud to create a smooth canopy with many flowers, and zero bud removal (ZBR) which has a similar look as CBR on certain varieties but no disbudding is required. All types of bud removal need to be done on time or finished quality is diminished. Consult variety listings in the most current Syngenta mum catalog for recommended bud removal by variety. See bud removal tip sheet at www.syngentafhg.com.

Crop Scheduling

An easy general guideline for the number of weeks of long days required for standard 1.25 or 1.81 qt pots is as follows:

For pot mums to be finished in November through April:

Four weeks of long days from sticking URC until blackcloth for short vigor varieties

Three weeks of long days from sticking URC until blackcloth for medium or tall vigor varieties

Two weeks of long days from sticking URC until blackcloth for single stem varieties or any variety in a smaller 1.0 qt pot

(An additional week of long days may be required in cold regions or when warm rooting temperatures cannot be maintained in the winter months).

For pot mums to be finished in May through October:

Three weeks of long days from sticking URC until blackcloth for short vigor varieties

Two weeks of long days from sticking URC until blackcloth for medium or tall vigor varieties

Two weeks of long days from sticking URC until blackcloth for single stem varieties or any variety in a smaller 1.0 qt pot

As noted in the section above on pinching, the number of days from stick to pinch will be greater for crops finishing November through April than finishing May through October. Remember to pinch cuttings when ready not just based on a certain number of days after stick.

The number of weeks of short days require before the plants are flowering will vary by variety. Variety response is listed as seven, seven-and-a-half, eight, eight-and-a-half, and nine weeks. This is the number of weeks from the start of short days (natural or artificial as described above) until the plants will be in flower.

As an example, to schedule a variety such as Emporia™ Orange (eight week response, medium vigor) to flower for the end of September (Week 39):

Need two weeks of long days from stick until short days – medium vigor finishing between May and October.

Need eight weeks of short days and they will need to be provided artificially with blackcloth – eight week variety flowering between May and early November.

- Flower – Week 39
- Blackcloth – Week 31
- Pinch – when ready, approximately Week 31
- Direct stick – Week 29

If we wanted to finish Limerick™ Lime (eight week response, medium vigor) to flower for the middle of March (week 11)

Need three weeks of long days from stick until short days – medium vigor finishing between November and April.

Need eight weeks of short days and natural daylength will be short enough – eight week variety flowering between mid-November and late April.

- Flower – Week 11
- Lights Off/Natural daylength – Week 3
- Pinch – when ready, approximately Week 2.5
- Direct stick – Week 52
- Lights On – Week 52

Growth Regulators

B-Nine plant growth regulator is the most commonly used growth regulator for height control in pot mum production. The amount and timing of B-Nine plant growth regulator applications depends on the cultivar, temperatures and light intensity.

Generally, B-Nine plant growth regulator is applied about two weeks after the pinch, or when new shoots are 1.5–2" long. A second application may be needed in two or three weeks. The last application of B-Nine plant growth regulator is recommended to be no later than the center bud removal stage to avoid negative effects on flower form or color.

B-Nine plant growth regulator rates range from 2,500–5,000 ppm depending on the variety and time of year. Higher rates are used for tall-growing varieties and during the warmest, brightest growing seasons.

The following guidelines are a suggested starting point for B-Nine plant growth regulator applications on pot mums.

Number of B-Nine plant growth regulator applications:

- Short Vigor Varieties – zero to one
- Medium Vigor Varieties – one to two
- Tall Vigor Varieties – two to three

Bonzi® and Sumagic® plant growth regulators can also be used to control growth and height of pot mums. When applying these growth regulators as a spray, uniform application techniques are much more critical than applying B-Nine, which is absorbed and moved into the plant through the foliage. The active ingredients in Bonzi and Sumagic move into the plant tissue via plant stems or roots, so thorough and uniform coverage of the stems is important for absorption and good control when applied as a spray.

Spray rates to use on a trial basis are 30–125 ppm for Bonzi and 5–10 ppm (2.5–5 ppm in low light) for Sumagic. In general, multiple spray applications at lower use rates will give the best results. Fewer repeat applications may be needed since these products appear to have a longer lasting growth regulator effect than B-Nine. These products may be especially useful to trial in summer when high temperatures diminish the effectiveness of B-Nine. Drench applications of Bonzi at 2 ppm can be used to hold plants at the desired height prior to shipping. In general, uniform application is important with all plant growth regulation treatments.

Flore™ plant growth regulator and Etheryl is NOT recommended for use on Yoder pot mums. Flore plant growth regulator and Etheryl can reduce growth, delay flowering, and reduce flowering uniformity, particularly during the winter months.

Pest Control

Several insects and related pests may be attracted to pot mum crops. Maintaining a clean, weed-free greenhouse is important to help minimize insect populations and eliminate hiding places. Early detection is an important factor in reducing the severity of an infestation. At times, chemical spray applications are necessary to eradicate insect populations. Some common pests for pot mums are aphids, fungus gnats, leafminers, spider mites, thrips, and whiteflies. More specific information for leafminer and thrips is listed below. It is important to use a rotation program for the insecticides to help avoid resistance. In general, wettable powder formulations are less phytotoxic than emulsifiable concentrates; however, they may leave a residue on the plants. For additional information on products for insect management, refer to the mum pest control tip sheet at www.syngentafhg.com.

Leafminer pressure can vary from year to year and if not recognized in time, this pest can cause serious damage on mums. It is important to inspect plants upon arrival and note any active mines. Monitor the growing areas with yellow sticky cards so you can check for adult activity. Good scouting and proper use of effective controls is the best way to protect crops that are prone to leafminer. A preventive approach is best, as once leafminer gain a foothold in the crop, it is often difficult to get them under control. This is due to the unsynchronized timing of the different life stages and the difficulty of getting good spray coverage once the crop has gained some size. Leafminer control is best achieved when products are applied in block rotations targeting the lifecycle of the pest, then rotating to another product with a different mode of action. This approach provides good control and helps minimize the chance of resistance. Systemic insecticides like Flagship® and Mainspring® GNL can be applied as either a foliar spray or as a drench application if extended protection for four to six weeks is needed. Drench applications should be applied once the crop has rooted in well in order to maximize uptake. A block rotation of Avid® 0.15 EC, Citation®, Mainspring and/or Flagship insecticides, with Conserve® SC

insecticide saved till the end of the crop if needed for Thrips control, should provide good control throughout the crop cycle. Products containing Azadiractin can be applied at the end of the week (or four to five days after a treatment of Avid, Citation or Conserve insecticides) if pressure is high and/or during the third week prior to rotating to the next product.

Thrips can be a problem in mum crops, particularly when the plants are beginning to bloom. It is important to inspect plants upon arrival and monitor the growing areas with blue or yellow sticky cards to assess and track populations. Good scouting and proper use of effective controls before high populations develop are the best way to protect crops. Below are two chemical control strategies based on the Thrips pressure in the greenhouse.

Thrips Rotation for Low-Moderate Populations

1. Avid insecticide (one to two applications)
2. Mainspring insecticide (two applications on a 14-day interval)

Overture® insecticide (14-day application restriction—two applications/crop)—Need to make two applications of another MOA group before rotating back—limit to two applications/crop
3. Mainspring (two applications on a 14-day interval if needed)
4. Avid insecticide + Azadiractin

Thrips Rotation for Moderate-High Populations

1. Pylon® insecticide (GH use only) (one to two applications/crop—limited to three applications/crop) or Mesuro® pesticide (one application)
2. Orthene® insecticide + Pyrethroid
3. Conserve insecticide (one to two applications—rotate off for four weeks before reapplying—six applications/season)
4. Avid insecticide + Azadiractin (one application)

**Check labels for plant use safety and use limits

There are also some key biological control products to help control Thrips in the greenhouse. They include:

- Amblyseius swirskii—Swirskiline™ as
- Amblyseius cucumeris—Amblyline™ cu
- Orius insidiosus—Oriline™ I
- Steinernema feltiae—Exhibitline™ sf

In addition, Thripline can be a helpful tool for monitoring and control of western flower thrips (WFT). Designed to improve early detection in flowering crops,

Thripline utilizes a pheromone which excites WFT, bringing them out of the flowers and plant canopy where they hide. This helps enhance detection on sticky cards and through scouting and improves their exposure to management treatments.

Disease Control

The most severe diseases of pot mums, such as verticillium wilt, fusarium wilt and chrysanthemum stunt, are controlled through culture-indexing programs conducted by large, specialized commercial propagators, such as Syngenta Flowers. Clean, vigorous, disease-free cuttings should be planted into pasteurized, well-drained rooting media. Proper environmental control of ventilation, heating, watering, etc., should control or minimize the occurrence of other pathogens, which may infect pot mums. Disease prevention is more desirable than suppression. When conditions are favorable, however, some disease organisms may attack pot mums.

Some common diseases which can infect pot mums are *Pythium*, *Rhizoctonia*, powdery mildew and *Botrytis*. For additional information on products for insect management, refer to the mum disease control tip sheet at www.syngentafhg.com.

NOTE: These suggestions are only guidelines and may have to be altered to meet individual growers needs.

General Culture

Rooting media, fertility regimens, photoperiodic response, light levels and temperatures are comparable to the requirements of pot mums.

Containers

With compact and spreading growth habits, fleurettes are ideal to grow and market in multiple container sizes. Reference the lighting guidelines table for some recommended sizes.

Pinching

Pinching is optional for fleurettes grown in 0.09–1.0 qt containers. When grown in larger containers, such as bulb pans, a pinch is necessary to help increase branching and spread. Pinching is normally done 10–14 days after sticking, once a healthy root system and adequate plant growth are evident.

Long Days

Fleurettes are best grown in shorter or smaller containers which require fewer long days. Use the lighting guidelines table for recommended long-day schedules.

GROWTH REGULATORS

B-Nine® plant growth regulator reduces the height of fleurettes. Small 0.09 qt pots may require weekly applications of B-Nine plant growth regulator for best finished results, while 5" pans may receive one or two applications. A general recommended B-Nine plant growth regulator rate is 2,500 ppm. The ideal finish height for 1.68 pt pans is 8–9", measured from the bottom of the pot to the top of the flowers. Plants may be taller or shorter depending on the season. Bonzi® and Sumagic® plant growth regulators can also be trialed as directed for pot mums.

Pest Control

Aphids, leafminer, whiteflies, thrips and occasional spider mites are the key insect pests for fleurettes. Avid and Mainspring insecticides applied early in production will limit populations of these pests from building in the crop. For additional information on products for insect management, refer to the mum pest control tip sheet at www.syngentaflowersinc.com.

There are some key biological control products to help control thrips in the greenhouse. They include:

- *Amblyseius swirskii* – Swirskiline™ as
- *Amblyseius cucumeris* – Amblyline™ cu
- *Orius insidiosus* – Oriiline™ I
- *Steinernema feltiae* – Exhibitline™ sf

In addition, Thripline can be a helpful tool for monitoring and control of western flower thrips (WFT). Designed to improve early detection in flowering crops, Thripline utilizes a pheromone which excites WFT, bringing them out of the flowers and plant canopy where they hide. This helps enhance detection on sticky cards and through scouting and improves their exposure to management treatments.

Disease Control

Some common diseases which can infect fleurettes are *Pythium*, *Rhizoctonia*, and *Botrytis*. For additional information on products for disease management, refer to the mum disease control tip sheet at www.syngentaflg.com.

Postharvest

Fleurettes have demonstrated excellent longevity traits in controlled keeping quality trials. Fleurettes commonly last between five and six weeks from harvest at Stage 3 of development under approximately 70 foot candles of light daily for 12 hours with 50–60% relative humidity.

Recommended Uses

All fleurettes are adapted to use in many small container programs. Small individual pots ranging from 0.09–1.0 qt and shallow pans from 1.68 pt–3.0 qt have been grown. Color combinations can also be made in multicutting pots.

Scheduling

Use the lighting guidelines chart for long days prior to going into short days for flowering.

For the most popular containers, half to all of the propagation time will occur under short days, unlike most pot mum programs.

Lighting Guidelines

CONTAINER	NUMBER OF LONG DAYS	TARGET HEIGHT
2–2.5"	0–7*	5–6"
3–3.5"	0–7*	6–7"
5" pan	7–14*	7–8"
6" pan	7–21*	8–9"
8" pan	10–24*	10–11"

* Using unrooted cuttings.

NOTE: These suggestions are only guidelines and may have to be altered to meet individual growers needs.

Agents and Distributors

AGENTS

Ball Horticultural Company
622 Town Road
West Chicago, IL 60185
800-879-2255
800-234-0370 fax
www.ballhort.com
customerservice@ballhort.com

Express Seed Company
51051 US Highway 20
Oberlin, OH 44074
800-221-3838
440-774-2728 fax
www.expressseed.com

Fred C. Gloeckner
& Company, Inc.
600 Mamaroneck Avenue
Harrison, NY 10528
800-345-3787
914-698-0848 fax
www.fredgloeckner.com
info@fredgloeckner.com

Griffin
4951 Indiana Ave., Suite 100
Lisle, IL 60532
800-323-7253
630-969-6373 fax
www.griffins.com

Vaughan's Horticulture
40 Shuman Boulevard, #175
Naperville, IL 60563
855-864-3300
855-864-5790 fax
www.vaughans.com

DISTRIBUTORS

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P.O. Box 479
14500 Kinsman Road
Burton, OH 44021
800-883-0234
440-834-1885 fax
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web@bfgsupply.com

Bill Moore & Company, Inc.
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Brandon, FL 33509
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813-684-5856 fax
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Bob Soos Company, LLC
P.O. Box 9
Middleville, MI 49333
269-795-7890
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Fort Wright, KY 41017
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Florasource, Ltd.
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949-498-1131
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Germania Seed Company
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800-410-4721 fax
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mail@germaniaseed.com

Griffin Greenhouse &
Nursery Supplies
(Plant Department)
P.O. Box 709
200 Mountain View Road
Morgantown, PA 19543
610-286-0046
610-286-0012 fax
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Grimes Seeds & Plants
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800-241-7333
440-352-0038 fax
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Henry F. Michell Company
P.O. Box 60160
225 West Church Road
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64 Mountain View Boulevard
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info@mchutchison.com

Mid Atlantic Plant Company
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302-368-1599 fax
www.midatlanticplant.com
midatlantic.plants@verizon.net

Norseco, Inc.
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800-561-9693
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Park Wholesale
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info@parkseedwholesale.com

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626-445-3779 fax
www.visseed.com
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WeHoP (Western
Horticultural Products, Inc.)
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360-344-3555 fax
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info@wehop.com

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Stafford Springs, CT 06076
800-243-7170
860-684-3022 fax
plants@whmilikowski.com

Ordering Information

Garden Mums, Asters and Montauk Daisies Program Dates:

Weeks 1– 37, 2017

Spring-Season Varieties* Seasonality: Weeks 1 – 13, 2017

Natural-Season Varieties Seasonality:** Weeks 14 – 37, 2017

Royalty is included in the price of the cutting.

Pot Mums and Fleurettes Program Dates: Weeks 1 – 52, 2017

Royalty is included in the price of the cutting.

Garden Mums, Asters and Montauk Daisies: Tags will be available for \$0.028 per tag, this price includes tag freight. Ratios and no tags may be selected but choice must apply to the entire order.

Tag only orders will not be accepted. Tags available on garden mums, asters and Montauk Daisies only. Tags on these items will be automatically shipped unless otherwise specified. There is a 50% restocking fee on returned tags.

Unrooted Shipping: The freight charge is per cutting, based on the shipment size.

Production Location: Cuttings will come from Alva, Florida.

Propagation: License for propagation is required, please contact Royalty Administration International for details.

Billing: Cuttings will be billed at the time of shipping and will include separate line item charges for the cost of the tag and freight.

Cancellations: No cancellations or order reductions will be accepted within 30 days of shipping for unrooted cuttings.

* Spring-season varieties can be found on the Spring Selections table on page 32

** All Yoder garden mums are considered natural-season varieties.

Order minimums

Unrooted Cuttings

Unrooted Cuttings

Order Minimum: 2,000

Variety Minimum: 100

Variety Multiples: 100

Pack per box: 2,000

(4% over pack)

Garden mum availability

Unrooted Cuttings: Available Weeks 1–37

Aster availability

Unrooted Cuttings: Available Weeks 14–37

Montauk Daisy availability

Unrooted Cuttings: Available Weeks 14–37

Pot mum & fleurettes availability

Unrooted Cuttings: Available Weeks 1–52

PROPAGATION INFORMATION

Yoder mum varieties are protected by U.S. and Canadian Plant Patents, Utility Patents, and/or the varieties are listed in the Syngenta Flowers “Flowering Only License.” To order tags for propagation, contact MasterTag at 800-253-0439. Unlicensed propagation of these varieties is strictly prohibited and monitored by:

Royalty Administration International

10175 Six Mile Cypress Parkway,
Suite 3
Ft. Meyers, FL 33912
800-472-4724

COPF

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5A-218, North Bay
ON P1B 9P2, Canada
800-265-1629



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