

**TWILLEY**  
SEEDS®

**2024**



Catalog for Farms, Local Market  
and Bedding Plant Growers

**Grower Discounts  
Available**





## Table of Contents

 AAS Winners.....	3
 Professional Seeds Series.....	1
Planting Information.....	108
Growing Supplies.....	108
Order Form.....	Centerfold
Warranties.....	Centerfold & 76
Terms & Conditions.....	112
Artichoke.....	5
Arugula.....	27
Asparagus.....	5
Beans.....	5-6
Beets.....	7
Broccoli.....	8-9
Brussels Sprouts.....	9
Cabbage.....	10-11
Carrots.....	13
Cauliflower.....	14
Celery.....	13
Chinese Cabbage.....	12
Collards.....	15
Corn, Ornamental.....	17
Corn, Sweet.....	18-22
Corn Salad.....	27
Cowpeas.....	40
Cucumber.....	23-25
Eggplant.....	26
Flowers.....	90-108
Greens.....	27
Gourd.....	28
Leek.....	30
Lettuce.....	31
Herbs.....	84-88
Kale.....	29-30
Kalette.....	30
Kohlrabi.....	30
Melons.....	32-35
Mustard.....	36
Okra.....	36
Onion.....	37-38
Pak Choi.....	12
Parsley.....	39
Parsnip.....	39
Peas.....	41
Pepper, Hot.....	46-49
Pepper, Sweet.....	42-45
Potato.....	39
Pumpkin.....	50-55
Radish.....	56
Rutabaga.....	75
Shallots.....	38
Soybean.....	6
Spinach.....	57
Squash, Summer.....	58-61
Squash, Winter.....	62-65
Strawberry.....	57
Swiss Chard.....	57
Tatsoi.....	27
Tomato.....	66-74
Tomatillo.....	74
Turnip.....	75
Watermelon.....	76-83
Wildflowers.....	108

## Otis S. Twilley Seed Co. Inc.

121 GARY ROAD • HODGES, SC 29653


PHONE: 864-227-5140 • FAX: 864-227-5108


TOLL FREE ORDERING: 800-622-7333



Dear Grower Friends,

Welcome to the 2024 Otis S. Twilley Seed Company catalog. Our entire staff is proud to be part of Twilley Seed's 109 years in the business of providing quality seed at fair prices. Your continued faith in our company has been the rock foundation of our work.

We are pleased to offer over 35 new varieties this year, from garden beans to watermelon and from cut flowers to stunning bedding plants. Look for the  symbol throughout the catalog.

Also please the expanded list of varieties suitable for Controlled Environment Agriculture. They are identified by the  symbol.

We are especially happy to offer Bean Blue Lake Superior, featuring the flavor of the original Blue Lake with improved disease resistance and high yield potential.

For bedding plant growers, please see the new Begonia Stonchedge. It was an attention grabber at various national trials, growing to a potential height of four feet!

If you honor us with your orders, we pledge to do our utmost to fill them accurately and efficiently.

As always, we wish you a bountiful growing season. Thank you for the privilege of allowing us to serve you.

Sincerely,  
George B. Park, President

George B. Park is a third generation seedsman and has spent his entire working life in the seed industry. Twilley Seed Company is proud to operate as a trial site for All America Selections.

Our knowledgeable, friendly sales staff has many years of combined experience and are always ready to talk with you to offer dedicated service and support. For fastest service, use credit card and call early in the day.



Nancy Walden



Jack Jennings



Jaclyn Thomason

## IMPORTANT NOTICE:

**In submitting an order to Twilley Seed you are accepting the conditions of sale on page 112. Warranty disclaimers are on page 76.**

**On the Cover: Bean Blue Lake Superior.**  
See Page 5 for more information.



©2024 Otis S. Twilley Seed

Email: [twilley@twilleyseed.com](mailto:twilley@twilleyseed.com)

Fax: 864-227-5108



# Professional Seed Series for Commercial Growers

## Leaders in Excellence



The vegetable variety you choose for planting is one of the most important decisions you make. Each brand in our "Professional Seeds Series" offers notable benefits to help guarantee your success in producing quality crops that bring the greatest return on investment.

Twilley constantly reviews products from breeders worldwide, investigating attributes such as quality, stress and disease tolerance, yield potentials and market acceptability. Superior varieties are added only if they represent the best in their respective classes.

Therefore, you can be confident when selecting from these vegetables.



**Sunbright Supreme F1**  
Popular cut flower variety. Bred to produce stems under low light and temperature conditions.



**Camaro F1**  
Smooth round fruits with great color and strong handle. High yield potential.



**Starbrite F1**  
Can produce high percent Jumbos for Roadside market. Deep red flesh, crisp and sweet.



**Celebrity Plus F1**  
All the Celebrity genetics but with modernized disease resistances and improved uniformity.



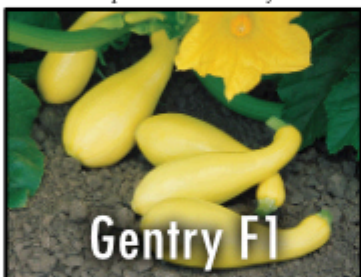
**Top Bunch 2.0**  
Improved successor to the original Top Bunch. Early bearing and quick to regrow after leaf harvest.



**Summer Flavor 720 F1**  
A traditional favorite. The gold standard of Allsweet diploids.



**Athena F1**  
Early maturity, small cavity, high quality fruit. Firm flesh, great flavor.



**Gentry F1**  
Open vigorous bush with fewer spines than many other varieties.



**Summer Dance F1**  
Extra fine quality, uniform fruit. Strong mildew resistance and heat tolerance.



**Ambrosia F1**  
Exceptionally tender bicolor kernels. Wonderful flavor.



**Emperor's Jade F1**  
Early zucchini. Glossy deep green fruit. Tender, firm flesh. Good yield potential. Powdery mildew tolerant.



**Royal Crown F1**  
Improved hybrid of Purple Top White Globe. High yield potential of uniform roots.



**Superpik F1**  
Early straightneck with solid disease resistance and precocious yellow gene.



**PS 09941819 X5R**  
Green to red. Jumbo bell with super disease package. Non-purple gene so color comes in clean with no dark streaks even under stress.

## Choose from our Outstanding 2023 Professional Seed Series:

Variety	Page	Variety	Page	Variety	Page	Variety	Page
Beet Kestrel.....	07	Pak Choi Joi Choi .....	12	Squash Gentry.....	58	Tomato Tasti-Lee .....	69
Cabbage Blue Vantage.....	10	Onion Bunching Feast .....	37	Squash Indian Brave .....	63	Turnip Royal Crown.....	75
Cantaloupe Athena.....	32	Pea Sugar Sprint.....	41	Squash Superpik.....	58	Watermelon Kingman.....	77
Collard Top Bunch 2.0.....	15	Pea Super Sugar Snap.....	41	Squash Zucchini Emperor's Jade.....	59	Watermelon PS 11018330 .....	81
Cucumber Dasher II .....	23	Pepper PS 09941819 .....	43	Sweet Corn Ambrosia.....	20	Watermelon Revolution.....	78
Cucumber Summer Dance .....	24	Pumpkin Camaro.....	51	Sweet Corn Obsession.....	19		
Cucumber Sweet Success .....	24	Pumpkin Corvette.....	52	Tomato Celebrity .....	67		
Cucumber Vlasstar.....	25	Pumpkin Mustang .....	51	Tomato Celebrity Plus.....	67		
Kale Blue Knight.....	29	Sunflower Sunbright Supreme...104		Tomato Mountain Merit .....	68		
Mustard Savanna.....	36						

**To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)**



# *New Varieties*





# All-America Selections Winners

## Regional



Acknowledging that geographic differences are an important part of agriculture, AAS rewards entries that have superior regional performance. To keep the regional division simple, North America is divided into six regions: *Northeast, Southeast, Great Lakes, Heartland, Mountain/Southwest, West/Northwest.*



## National



AAS judges all over the US and Canada run extensive trials on new varieties every year. Each All America Selections winner has been carefully "Tested Nationally, Proven Locally."



## Explanation of Symbols in this Catalog



Listed for the first time in the Twilley catalog.

F1 Indicates a hybrid variety.



Located at the end of a catalog number; indicates a variety of untreated seed.



The "Professional Seed Series™", a selection of Twilley varieties called "The Best of the Best." We believe that our "Professional Seeds Series" represents the best varieties available in their respective classes.



Designated a winner by All-America Selections, regional winners have performed truly well in a specific regional climate while national winners have thrived in four or more regions. All-America Selections is a non-profit organization which evaluates new seed-grown flowers and vegetables from around the world for home garden performance. Winners are consistently and reliably good varieties.



PVP Indicates that a Plant Variety Protection certificate has been granted by the USDA because of the uniqueness of the variety. Symbol is also used if this certificate is applied for. Unauthorized propagation of such a variety is prohibited.



Well-suited to growing in packs for bedding plant sales.



Particularly popular or attractive for fresh market sales.



Well-suited for cut flower production.



Well-suited for greenhouse production.



Novelty market items.



Controlled Environment Agriculture

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)



## What Is CEA?

Controlled Environment Agriculture is a growing international trend; embracing indoor production in greenhouses, hoop houses, vertical farms, container farms and in-home systems.



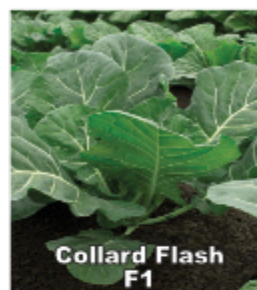
<b>Lower Inputs</b>	Higher yields
<b>Environmental Control</b>	Precise harvest timing
<b>Expanded cultivation areas</b>	Shorter distribution distance
<b>Controllable variables</b>	Lighting, temperature, pest control



Beet Fresh Start  
F1



Arugula Astro



Collard Flash  
F1



Kale Vates

Look for the  symbol throughout this catalog!



The Otis S. Twilley Seed Company is proud to partner with Sakata Seed America to offer exceptional products from the Sakata Harvest Collection.

These vegetable seed varieties have been carefully selected for easy and dependable gardening. The wide assortment covers both cool and warm weather seasons.

Freshly harvested vegetables are not only packed full of flavor and enjoyable to harvest, but are also known to have increased health benefits.

Harvesting your own collection is something everyone looks forward to.



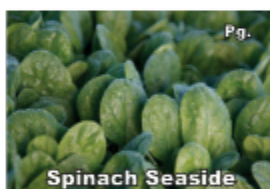
Beet Touchstone Gold



Tomato Rubee Dawn



Pumpkin Toad



Spinach Seaside



Broccoli Aspacroc



Beet Merlin



Pepper Jalafuego



Cabbage Stonehead



Tomato Gold Spark



Broccoli Gypsy



Carrot Fuerte



Squash Tivoli



Pepper Majestic Red



Okra Jambalaya



Swiss Chard  
Peppermint



# Artichokes

About 500-600 sd/oz.

**2005U Green Globe** Traditional type, large green head. About 50% produce artichokes during the first season on 30" stems.

**2010U Romanesco** Exotic Italian heirloom type, stems and artichokes are marked in bronze and purple. Ornamental/Edible.

# Asparagus Perennial

(*Asparagus officinalis*)

About 900-1,000 sd/oz. Pkt plants 25' of row. Seeds germinate in about 15 days. Grow seedlings on until following spring. Set plants 9-15" apart in rows 48-72" apart. Plantings usually yield well for many years under normal conditions.

**2019U Grande F1** Mid-early. Widely adapted to cool, medium and warm climate areas. Heat resistant. Produces ideal tight head quality even in hot growing conditions. Large to jumbo spears can reach a whopping 1" diam, depending on plant spacing. Generous spacing can produce 12" spears with 1" diam, while close spacing produces longer spears with avg .4-.5" diam. Tight heads for smooth appearance. Improved genetics enables this dioecious variety to achieve extra high yields while allowing more reliable seed supply. Resistant Fusarium wilt.

**2028U Walker Deluxe F1** High yields, widely adapted to cool, medium and warm climate areas. All male hybrid; every plant produces spears rather than seed. Ideal quality even where harvest-time day temperatures rise above 85° F. Thick, mid-green spears can reach 3/8"-3/4" diam, depending on spacing. Tight heads for smooth appearance. Tolerant of Rust, Fusarium, Cercospora, Botrytis. Fresh Mkt, Shipping, Restaurant, Processing.

# Beans

(*Phaseolus vulgaris humilis*)

About 1000-2000 sd/lb 70-90 lbs/acre. Sow 2-4" apart, 1-2" deep, on 18-36" rows. 1 lb sows 200 ft. Germ about 6 days. Days to maturity are from sowing.

# French Filet Beans

About 2000-3000 sd/lb.

**1055 & 1055U Outlaw** 55 days. Long, straight, extra deep green 5 1/2" pods. Upright bush holds pods well above ground. Stands well with very low risk of lodging. Tender texture and sweet flavor just right for fresh mkt sales. Concentrated pod sets allow efficient fresh mkt harvest with high yield potential. Widely adapted with good heat tolerance. Resistant BCMV. Fresh Mkt, hand or machine harvest.

**1063U Serengeti PVP** 55 days. Very early. Long, straight, fancy fine sieve beans. Very slender, good for "baby" beans preferred for nouvelle cuisine. Excellent for tray pack. Very high quality pods are extra tender, stringless, dark green and gourmet flavorful. Seed holds well in pod giving long harvest window and good shelf life. Harvest at 4-5" while still slim (#2 sieve or 1/4"). Concentrated set; mechanical or hand harvest. Narrow, strong upright plant holds beans well above soil. Widely adapted with high yield potential. Resistant BCMV, A. Tolerant R. Fresh Mkt, Tray Pack, Shipping.

## Bean Disease Codes

A	Anthraxnose
ALS	Angular Leaf Spot
BBS	Bacterial Brown Spot
BCMV	Bean Common Mosaic Virus
CB	Common Blight
CT	Curly Top
HB	Halo Blight
R	Rust



Green Globe

# Bush Green Pod Beans

**1007U Bush Blue Lake 274** 55 days. Bush form of Blue Lake pole, known for its delicious flavor, size, yield, and quality. Long dark green pods are round, 6" x 3/8", slow to form fiber/seeds. Canning, Fresh Mkt.

**1010U Bush Blue Lake Superior** 54 days. All the flavor of the original Blue Lake type with several improved traits. Higher yield, multiple disease resistances. More uniform pods with lower fiber for better fresh eating, canning or freezing. Higher yield. Overall a great new introduction well worth adding to fresh-market programs. Resistant BCMV, CT, R.

**1014 Cabot** 55 days. Improved bean with a wonderfully broad disease package promoting very high yield potential. Pods set mid-high on upright 18-20" plant, held 3" on avg above soil. Bred for strong "standability" to support weight of crop. Pods detach easily for a clean, easy harvest, with a high % of stems and caps intact. Good solid green color, long, straight 5-6" pods. Resistant BBS, BCMV, CB, CT, HB. Fresh Mkt, Mechanical Harvest, Gdn.

**1057 Roma II** 59 days. Bush form of the well-known Romano pole, with the same delicious flavor. Italian-type, flat green pods to 4 1/2" produce white seeds. Sturdy Plant. Resistant BCMV. Tolerant R. Fresh Mkt, Shipping.



Serengeti PVP



Walker Deluxe F1



Bush Blue Lake 274



Blue Lake Superior

Cat#	Artichoke	1/4 oz	oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)
2005U	Green Globe	1.60	5.95	19.60	33.65	61.20	56.15	52.00
2010U	Romanesco	4.30	25.55	87.40	150.65	269.15	246.15	230.00

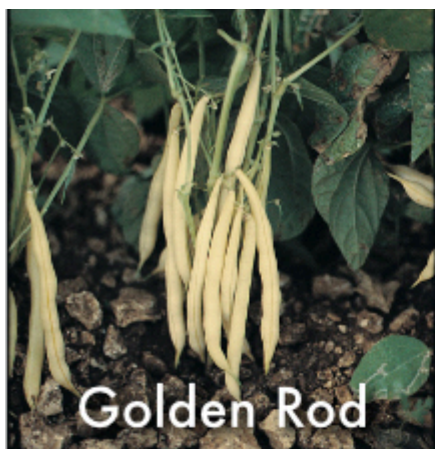
Cat#	Asparagus (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)
2019U	Grande	3.25	9.90	39.50	66.30	58.15
2028U	Walker Deluxe	4.35	13.15	52.20	87.65	76.95

Cat#	Bean	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)	50 lb (per lb)	100 lb (per lb)	500 lb (per lb)
1007U	Bush Blue Lake 274	3.35	5.15	7.90	6.25	5.70	5.15	4.60	4.00	3.70
1057	Roma II	3.45	5.30	8.25	6.50	5.95	5.35	4.75	4.15	3.85

Cat#	Bean (M=1000)	250 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)	500 M (per M)
1010U	Bush Blue Lake Superior	1.80	2.80	4.40	3.50	3.30	3.15	2.95	2.80
1014	Cabot	3.35	5.20	8.15	6.50	6.15	5.80	5.45	5.20
1055&1055U	Outlaw	3.20	4.90	7.35	5.90	5.55	5.20	4.80	4.55
1063U	Serengeti	4.00	6.15	9.30	7.40	7.00	6.50	6.00	5.70

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





Golden Rod

## Bush Purple Pod Bean

About 1000-2000 sd/lb.

**1062U Royal Burgundy** 51 days. Round, tender, stringless, purple pods turn green when cooked. Upright, hardy plants. Fresh Mkt.

## Bush Wax Pod Bean

About 1000-2000 sd/lb.

**1143 Golden Rod** 55 days. Brightest yellow of any wax bean! Vigorous, upright plants produce a bumper crop of round, straight, 5-6" pods with delicious, rich, buttery flavor. Resistant BCMV. Commercial, Fresh Mkt, Roadside, Garden.

## Lima Bean

**1081U Fordhook #242 [Bush]** 75 days. Famous Fordhook quality; improved strain which reliably sets blossoms and pods under adverse weather conditions. Produces reliable yields of high quality, large-seeded limas with delicious flavor; 3-4 seeds per 4" pod. Vigorous plants, heavy yields.

**1086U Henderson [Bush]** 65 days. Baby lima type. Small, 3" pods contain 3-4 small, flat, tender, dark green limas. Erect plants. Fresh Mkt.

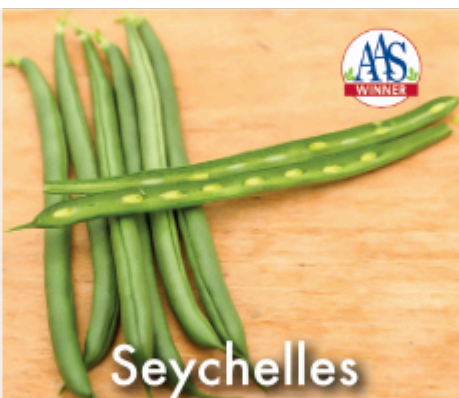
**1091U King of the Garden [Pole]** 87 days. Popular, giant large-seeded lima beans fine for drying. Large, wide 6" pods contain creamy white beans, 4-5 to each pod. Produces a continuous crop over a long season.



Fordhook #242



Kentucky Blue



Seychelles

## Pole Bean

**1110 Kentucky Blue** 60 days. Pole variety 6-7 days earlier than KY Wonder! Combines characteristics of Kentucky Wonder and Blue Lake for excellent beany flavor. Green pods, 8" are round, straight, smooth. Vigorous, highly productive vines. White seeded. Resistant BCMV. Fresh Mkt, U-Pick.

**1118U Seychelles** 55 days. Long 5-6" slender deep green pods, uniformly straight, stringless and tender-crisp. Vigorous fast growing high yielding deep green vines grow 7-9 ft with support. Multiple pickings over long harvest season. Nationwide trials reported excellent quality and yield. Trim stems above a 5-6 ft trellis to promote continued yield and bushier growth lower on plant. Tolerant BCMV. Fresh Mkt, Gdn.

## Yard Long Bean *(Vigna unguiculata)*

**1053 Orient Wonder** 85 days. Extra-long 15-18" pencil-thin pods of the type sometimes known as Asparagus Bean. Improved for ability to set pods well even in cooler climates. Vines are quite vigorous, thrive through warm humid weather. Seed develops in pod very slowly, permitting extended harvest of pods that stay long, thin, smooth and tender. Sieve size 2. Fresh mkt, Specialty, Restaurant.

## Soybean (Edamame)

**1329U Midori Giant** Early maturing: 65 days in South with long daylength, 90 days in north with short daylength. Branching 2-3' plants spreading to 12". Green pods with succulent buff seeds. About 1300 seeds per lb. Widely adapted across US. Capable of large yields. Large pods, with up to 90% producing 2-3 seeds per pod.



Midori Giant

Cat#	Bean	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)	50 lb (per lb)	100 lb (per lb)	500 lb (per lb)
1081U	Fordhook #242	4.30	6.55	10.20	8.00	7.40	6.65	5.95	5.15	4.75
1086U	Henderson Bush	6.35	9.70	15.15	11.85	10.95	9.85	8.65	7.60	7.00
1091U	King Of The Garden	5.35	8.35	13.00	10.25	9.40	8.45	7.45	6.55	6.15
1053	Orient Wonder	42.45	67.40	107.95	87.35	68.80	51.70			
1062U	Royal Burgundy	4.35	6.75	10.55	7.90	7.30	6.50	5.80	5.15	4.70

Cat#	Bean (M=1000)	250 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)	500 M (per M)
1143	Golden Rod	5.00	7.85	12.00	8.80	8.30	7.80	7.30	6.95
1110	Kentucky Blue	6.95	10.70	16.70	13.15	11.95	10.80	9.65	8.40
1118U	Seychelles	8.15	12.70	19.95	15.85	14.20	12.40	10.65	9.35

Cat#	Soybean	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)	50 lb (per lb)
1329U	Midori Giant	12.00	18.50	30.55	26.30	23.50	21.50	20.15



## Beets *(Beta vulgaris)*

Approx. 1,600 seeds/oz. Pkt plants 25' of row; 1 oz sows 100'. Direct sow 6-10 lbs/acre or 300 Msd. Sow seed 3/4-1" deep, 2-4" apart in rows 12-30" apart. Germ in about 8 days. Thin plants to 3" apart in the row. **Days to maturity are from sowing.**

## Hybrids

**2061U Fresh Start** F1 25-35 days baby leaf harvest. Deep green, smooth round-oval leaves with distinct red veins and dark red stems, this beetless beet has excellent appearance for spring greens and mixes. Upright habit helps keep leaves clean and undamaged until harvest. Reaches baby-leaf size very quickly. Good disease traits. Highly bolt resistant. Resistant DM. Baby Leaf.

**2065 & 2065U Kestrel** F1 53 days. Roots form smooth globe shape and deep color from very early stage. Dark red interior with very little zoning. 12-13" tops, bright glossy mid green leaves, brilliant ruby stems. Small, late bolting crowns, drought hardy. 10-12% sugar content. Tops stay erect and healthy due to high disease tolerance. Top appeal in bunching. Resistant CLS, Tolerant PM, DM, RZ. Fresh Mkt, Baby Beets, Processing.

**2075 Merlin** F1 55 days. Solid dark red interior resists zoning even in adverse hot weather. Bright red stems 15-17" with dark green leaves that stay green all season. Roots have refined crowns, tap roots, smooth skin and high Brix. Small slow bolting crown. High 12-15% sugar content and bright attractive appearance. Tolerant CLS, DM, and Drought. Fresh Mkt, Processing.

**2085 Red Ace** F1 53 days. Detroit Dark Red type, well suited to a wide range of growing areas. Full globe shaped red roots, uniform deep red interior color. Strong, graceful tops 13-15". Fresh Mkt, Processing.

**2090 Red Cloud** F1 60 days. Perfectly round shape. Solid deep red zoneless interior. Non tapering base, smooth refined crown. Attractive red 14" stems, green leaves. Very high sugar content. Pacemaker type, best sub when needed. Fresh Mkt, Processing.

## Open Pollinated

**2035 Avalanche** 50 days. AAS Winner 2015. Creamy white, very sweet, mild roots with bright white interior rings and no tinge of red. Has advantage of not staining. Nationwide trials reported very uniform round roots, avg 3" diam, about 9 oz, with restricted tap root. Excellent eating quality raw or cooked, with no trace of bitter or earthy aftertaste. Plant grows 10"-24" tall, depending on timing of harvests, spreading about 6". Foliage is rich green with light green veins and stems, nice for beet greens. Tolerant CLS. Fresh Mkt, Shipping, Restaurant.

**2040U Burpee Golden** 55 days. Sweet fine textured deep golden roots. Non-staining juice. Good eating tops, light green with pale golden ribs. Colorful salad, roots and tops.

**2043U Chioggia** 60 days. Italian heirloom. Sometimes called candy stripe or bulls eye beet because of its alternating red & white concentric rings. Round, sweet root is 3". It turns a pretty pale pink when cooked. Mild flavored 12" greens may be eaten raw or cooked.

**2045U Cylindra** 55 days. Long shape, more equal slices per root. Dark red quality roots 5" x 1 1/2". Fresh Mkt.

**2050U Detroit Dark Red Medium Top** 60 days. Well known bunching variety. Deep red globe-shaped roots are uniform and very smooth. Bunching, Fresh Mkt, Processing.

**2053U Detroit Golden** 50-60 days. Produces good yields of large, round orange roots. Beets turn golden-yellow when cooked and do not bleed. Roots retain their sweet flavor when cooked. Green leaves with yellow stems are very tender and mild. Also excellent for pickles.

**2055 Detroit Supreme** 59 days. Refined Detroit type. Dark red interior, very light zoning. Smooth globe shape, small smooth crowns. Dark matte green leaf on 14-16" tops. High tolerant to bolting and very high yield potential. Tolerant CLS, DM. Bunching, Fresh Mkt, Garden.

**2060U Green Top Bunching [Early Wonder]** 52 days. Early, sweet roots; high quality tops. Bunching. Fresh Mkt.

**2084 Rainbow Mix** 60 days. Bright ornamental edible blend of colored beet roots. Includes varieties Bull's Blood, Detroit Dark Red, Golden Detroit, Chioggia and White Albino. A lovely range of colors. Delicious sweet roots.

**2099 Touchstone Gold** 60-65 days. Solid vibrant yellow interior with orange-scarlet exterior and light green foliage. Highly bolt resistant. Smooth high quality globe shaped roots. Sweet & neat. Fresh Mkt, Specialty, Bunching, Multi-pak.

### Beet Disease Codes

<b>CLS</b>	Cercospora Leaf Spot
<b>DM</b>	Downy Mildew
<b>PM</b>	Powdery Mildew
<b>RZ</b>	Rhizoctonia



Kestrel F1



Detroit Supreme

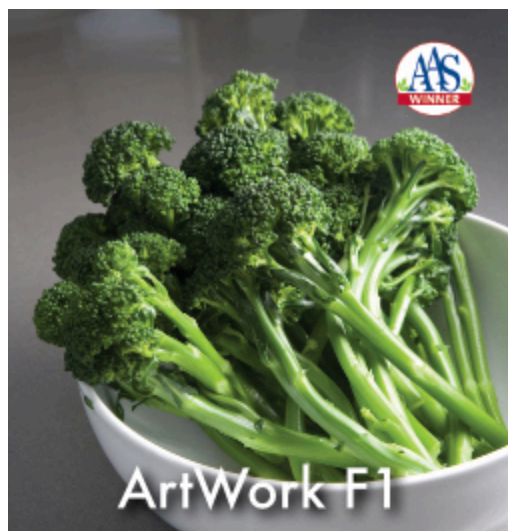


Rainbow Mix

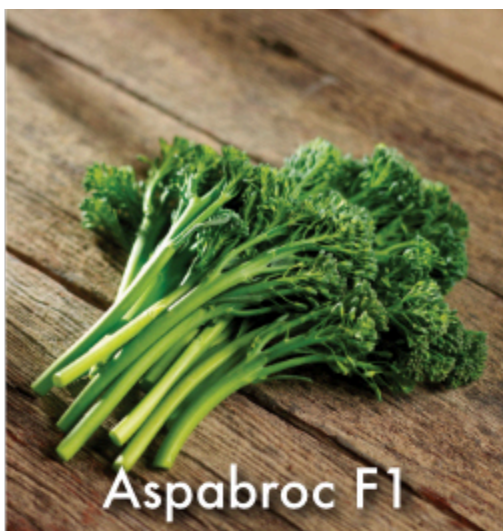
Cat#	Beet	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)
2040U	Burpee Golden	1.70	6.90	23.60	40.70	72.65	66.45	62.15
2043U	Chioggia	1.95	3.40	11.75	20.30	36.25	33.25	30.75
2045U	Cylindra	1.95	3.50	6.00	9.15	15.90	12.95	10.25
2050U	Detroit Dark Red Medium Top	1.70	3.40	4.75	8.15	14.65	13.45	12.60
2053U	Detroit Golden	2.00	7.85	26.90	46.40	82.80	75.80	70.80
2055	Detroit Supreme	1.85	3.35	6.00	10.45	18.90	17.30	16.15
2060U	Green Top Bunching	1.65	2.30	6.25	9.35	16.75	15.30	14.30

Cat#	Beet (M=1000)	200 sd	1000 sd	10M (per M)	50M (per M)	100M (per M)	500M (per M)	1000M (per M)
2035	Avalanche	1.60	6.00	4.90	4.15	3.70	3.40	
2061U	Fresh Start	1.45	1.15	0.95	0.75	0.70	0.60	
2065 & 2065U	Kestrel	1.80	2.50	1.95	1.60	1.50	1.40	1.35
2075	Merlin	1.70	2.35	1.90	1.55	1.45	1.35	1.30
2084	Rainbow Mix	1.90	5.70	2.80	2.00	1.85	1.60	
2085	Red Ace	1.85	2.50	1.95	1.60	1.50	1.40	1.35
2090	Red Cloud	1.75	3.30	2.65	2.25	2.00	1.85	1.75
2099	Touchstone Gold	2.25	8.70	7.15	6.15	5.50	5.00	4.70





ArtWork F1



Aspabroc F1



Castle Dome F1



Destiny F1



Emerald Jewel F1

### Eastern Broccoli Project

In recent years, broccoli has become a major specialty crop in the United States, but the lion's share of it is produced in California and trucked long distances to reach markets.

Broccoli plants resist flowering when faced with more than 8-10 hours of heat per day. Without flowers, there can be no florets, so the farmer ends up with fields of green, leafy plants. No flowers, no broccoli stems.

In 2011, plant scientists at Cornell University set a goal to develop broccoli varieties that will grow in the hot, humid climate and variable weather conditions of the eastern United States. Success would result in a boon to the increasing interest in a ready supply of locally grown food.

The advantages of delicious farm fresh produce and lower shipping costs will offset expected lower yield per acre.

Twilley Seed is pleased to offer varieties tested in the Eastern Broccoli Project

## Broccoli

(*Brassica oleracea*, *Botrytis Group*)



Approx. 9,000 seeds/oz. Seeds germ in about 10 days. Set plants 12-24" apart in rows 18-36" apart. Days to maturity are from transplant.

**2103 ArtWork F1** Dual Purpose. 5" crown heads in 50 days from summer transplant or 60 days spring, about a week earlier than Packman, for which ArtWork is currently the best early replacement. 10-14 days after crown harvest, aggressive side shooting yields high volume of broccoli bouquets which continues over a prolonged period, usually until growing conditions become unfavorable. If only shoots are desired, the crown can be pinched at 1" diam at 40-45 days from transplant, with side shoots coming in 10-14 days and onward. The entire side shoot is delicious as broccoli bouquet from its long stem to the compact clusters of fine beads at the tip.

**2104U Aspabroc F1** 50-60 days. You may have seen this type in the produce section at grocery stores recently. Thin tender, asparagus-like stems bear numerous fronds of small linear florets along the upper section. Vigorous 20-24" branching plants. Pinch the central stem just before it becomes dime-sized to promote growth of side shoots. Wonderful mild sweet flavor, and bright green color that kids of all ages love. Continues to produce after cutting for another 4 weeks. Good for early spring and fall crops. Can be planted at close spacing for high yield. Specialty Mkt, Fresh Mkt, Restaurant.

Note: Orders for more than 10,000 seed require breeders marketing agreement. Please call for information.

**2108 Castle Dome F1** Heads are uniformly large, deep and heavy domed with small tight beads. Early maturity and good holding ability. Noted in trial reports for good cold vigor and heat tolerance. Compact 22" plants with open habit. Resistant HS, BB. Crown cut packs, Bunching, Florets.

**2120 Destiny F1** 60-65 days. Mid early harvest. Compact plants. Good heat tolerance and good fall cropping in breeder trials. Premium quality. Large smooth dome shaped heads are clean green with medium small beads. Produces side shoots after central head has been cut. Fresh Mkt, Regional Grocery, Bedding Plant.

**2130 Emerald Jewel F1** 67-77 days. Classy smooth dome shaped heads, with dense, small beads. Tall clean stems. Excellent for crown cut and versatile for fall, late fall, and spring to early summer harvest. Overwinter production may add 20 days to maturity time. Tolerant DM, CR. Crown Cut, Fresh Mkt.

### Broccoli Disease Codes

BR	Black Rot
BLS	Bacterial Leaf Spot
BB	Brown Bead
CR	Club Root
DM	Downy Mildew
HS	Hollow Stem

Cat#	Broccoli (M=1000)	100 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
2103	ArtWork	4.45	33.95	27.15	19.55	17.65	15.80
2104U	Aspabroc	5.20	45.90	45.70	45.60		
2108	Castle Dome	2.85	22.45	17.95	12.65	11.35	10.20
2120	Destiny	2.15	15.55	12.50	9.35	8.50	7.65
2130	Emerald Jewel	2.40	17.45	14.00	11.30	10.20	9.20



## More Broccoli

**2132U Green Magic F1** 60-65 days. Mid early and widely adapted across production areas. Uniform harvest of large, tight, semi-domed heads with medium to small beads. Sturdy habit stands well in field with good access for harvest. Small leaf nodes leave little scar when stalk leaves are removed at harvest. Fresh Mkt, Processing.

**2135U Gypsy F1** 65 days. Among the earliest Broccolis to tolerate and perform well after the onset of warmish weather. Overall uniformity, excellent smooth domed beads with small tightly refined heads. Tolerant DM. Bunching, Crown Mkt, Fresh Mkt, Shipping.

**2138 Lieutenant F1** 75 days. Early and well adapted to warm season. Part of the Eastern Broccoli Project. Heads up into a smooth deep green crown with medium beads. Long clean stems with minimal side shoots, excellent for bunching. Concentrated harvest window. Minimal hollow in main stem. Uniform beads, minimal cat eye in heads. Vigorous foliage with good head protection. Bunching, Floret, Local/Regional Crown.

**2140 Marathon F1** 75 days. Deep, dome-shaped heads, small beads, and vigorous plants. Tolerant BLS, BR, DM, HS. Fresh Mkt, Processing.

## Broccoli Raab

(*Brassica Rapa*, *Rapa* Group)

Approx. 9,000 seeds/oz. ¼ oz sows 100' of row. Direct-sow 2 lbs/acre. Sow seeds ¼" deep in rows 2½-3' apart. Seeds germ in about 10 days.

**2177U Spring Sprouting** 60 days. OP Popular ethnic vegetable. Early. Many small, tender shoots and leaves with delicious flavor. Fresh Mkt.

## Brussels Sprouts

(*Brassica oleracea*, *Gemmifera* Group)

Seeds germ in about 10 days. Set plants 18-24" apart in rows 24-40" apart. Days to maturity are from sowing.

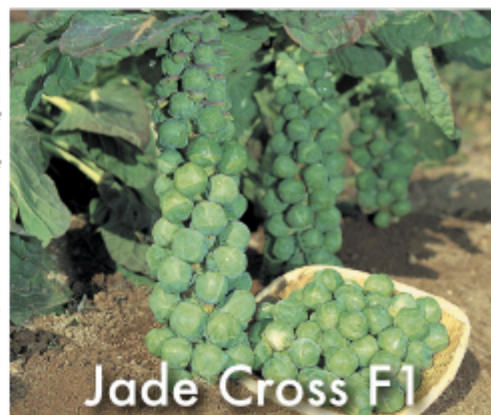
**2192 Confidant F1** 145 days from sowing. Midseason variety with high yield potential due to strong FY resistance and tight packed stem. 1-1¼" sprouts of excellent deep green color and uniform round shape. Stalk averages 25" and is lined with 16-19 rows of sprouts. Resistant FY. Fresh Mkt, Processing.

**2206 Hestia F1** 100 days. 1" diameter sprouts have bright green wrappers and smooth, dense yellow interior. Erect 24" plant, very uniform, with strong frost tolerance and delicious flavor after temps fall into the 30's. Found to tolerate both warm and cool weather with good flavor, in AAS trials. *Southeast, Mountain/Southwest.*

## Brussels Sprouts

**2204 Jade Cross F1** 90 days. Extra early, can be sown later than most varieties and still matures well in early frosts. Shorter stalks than most varieties, less prone to lodging or other wind damage. High yield of medium firm, round, 1" diam, deep green, well wrapped sprouts spaced closely on stalk. Tolerant of heat stress. Widely adapted.

**2203 Igor F1** 180 days. Main season for fall, winter and over wintering schedules. 1"-1.5" sprouts are borne about 6" from ground for less soil splash. Recommended for hand harvest of highly refined fruit.



Jade Cross F1



Lieutenant F1



Confidant F1



Gypsy F1



Marathon

Cat#	Broccoli (M=1000)	100 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
2132U	Green Magic	2.25	16.65	13.30	10.80	9.70	8.65
2135U	Gypsy	1.90	15.60	12.50	10.15	9.20	8.20
2138	Lieutenant	2.90	22.85	18.35	12.65	11.40	10.20
2140	Marathon	2.00	14.25	11.35	9.15	8.25	7.50

Cat#	Broccoli Raab	1/16 oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)
2177U	Spring Sprouting	2.15	3.20	10.75	18.15	31.90	29.15

Cat#	Brussels Sprouts (M=1000)	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)
2192	Confidant	6.60	25.20	40.60	34.15	30.00	27.50
2206	Hestia	7.15	26.65	43.15	33.00	27.50	26.20
2203	Igor	4.00	15.30	24.65	20.50	18.15	16.65
2204	Jade Cross	2.70	9.70	15.65	13.20	11.60	10.50

### Brussels Sprouts Disease Code

FY Fusarium Yellows

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





**Charmant F1**



**Stonehead F1**



**Greenboy F1**



**OS Cross F1**

## Cabbage

(*Brassica oleracea, Capitata Group*)

About 5000-9000sds/oz; Germ about 10 days. Set plants 12-24" apart on 24-36" rows. Shipping/fresh mkt. **Days to maturity** are from transplant.

### Early Green

**2229 Charmant F1** 52-64 days. Stonehead type, with larger heads. Solid, compact, deep blue-green 2½-3 lb heads are uniform, with good wrapper leaves. Upright, vigorous, plants suited to close planting, spring or summer; well-adapted to all growing areas. Excellent baby cabbage. Resistant BR, FY, TB. Fresh Mkt, Processing, Shipping.

**2233 Fast Vantage F1** Extra early heading, just 50 days from transplant in trials. Round, green, medium to medium-small heads with excellent sweet flavor and good heat tolerance. Improved uniformity in cool conditions. Fresh Mkt.

**2241 Gallican F1** 65-70 days. Mid-Early to Main. Tall stem with upright wrappers holds perfectly round heads well off the ground for cleaner harvest. Heads are dense, 3-5 lb, 7.5"-8" diam with no bottom leaves lying on the ground. Sweet salad type with wonderful flavor raw or cooked. Good field durability; deep green wrappers. Fresh mkt, Restaurant, Slaw, Shipping.

**2259 Katarina F1** 45 days. Very sweet, crisp, early, and mild, with much less bitterness than comparisons. Small tight 4" heads for baby cabbage that makes gourmet cole slaw and won't crowd a fridge. Plant 10-24" depending on stage. Grows small side heads after harvest of main head. Gdn Ctr, Restaurant, Roadside.



**2284 Quick Start F1** 55 days. Early, solid head cabbage with a short core. Uniform plants produce 3½ lb heads. Widely adapted. Tolerant FY. Fresh Mkt. Shipping.



**Fast Vantage F1**



**Blue Vantage F1**

**2348 Stonehead F1** 45-50 days. Early. Mid-sized 2-3½ lb heads. Round, smooth, gray green, and very tight. Compact habit allows close spacing. Tolerant TB. Fresh Mkt, Shipping, Bedding plant.

### Main Green

**2219 Blue Vantage F1** 67-80 days. Ball head type. Deep blue-green heads weigh 3½-4 lbs and 6¼" size with short core on medium plants. **PROFESSIONAL SEEDS SERIES** Strong, sturdy plants produce well-developed root systems which help withstand moisture fluctuations. Resistant BSP, FY, TB, Tolerant BR. Fresh Mkt, Shipping.

**2252 Greenboy F1** 67-80 days. Mid Season. Medium frame, 6½", 3-3½ lb heads with solid white interior. Good wrapper protection and solid quality overall. Widely adapted to worldwide mkt. Noted for excellent performance under stress from heat and rain. Resistant FY 1. Fresh Mkt, Shipping.

**2274 OS Cross F1** 80 days. Large frame, resists bursting till very late. Flat-round 5lb. heads which can be grown to 14 lbs under optimum conditions. Adapted worldwide, heat tolerant.

**2360 SuperStar F1** 80 days. High quality fancy pack heads with great flavor. Excellent wrapper leaves and great holding ability in field and after harvest help deliver top quality all the way to mkt. Medium large 3 lb heads are 6-7" across, just right for main mkt. Resistant FY 1, Tolerant BR. Fresh mkt, Shipping, Processing.

### Cabbage Disease Codes

AL	Alternaria Leaf Spot
BR	Black Rot
BSP	Black Speck
FY	Fusarium Yellows & Race #'s
TB	Tip Burn
TT	Thrip Tolerant

Cat#	Cabbage (M=1000)	200 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
2219	Blue Vantage	2.40	9.55	7.65	6.15	5.60	5.15
2229	Charmant	2.95	11.65	9.35	7.60	6.85	6.20
2233	Fast Vantage	2.95	11.80	9.50	7.65	6.95	6.25
2241	Gallican	3.80	15.15	12.15	9.70	8.65	7.55
2252	Greenboy	2.90	11.15	8.85	7.20	6.50	5.90
2274	OS Cross	2.50	9.85	7.85	6.40	5.75	5.20
2284	Quick Start	2.65	10.55	8.50	6.85	6.25	5.60
2348	Stonehead	2.80	11.20	8.95	6.75	6.15	5.55
2360	SuperStar	3.85	15.35	12.30	9.95	9.00	8.20



# More Cabbage

## Midlate Green

**2256 Gunma F1** 80-85 days. Huge, Danish flat round hybrid. Large frame plant spreading 22"-24" has potential for 5-7 lb heads up to 9"-12". Mid-green, mid-main season. Big, sweet, tender with fluffy interior that is superior for shredding, slaw, kraut, mixed salad bags. Very short core. Resistant TB. Kraut, Shipping, Shredding, Roadside.

**2258 Harvest Mist F1** 80 days. Very large, 9.9 lb avg. head weight. Deep blue green wrapper leaves, ivory white interior. Flat round shape held up away from soil, very firm. Uniform, heat tolerant, a very good shipper. Grows a beautiful field of cabbage.

## Red

**2287 Red Dynasty F1** 75-80 days. 7-12 lbs. Extra large round-oval red cabbage. Both wrappers and interior leaves are red. Main season. Large frame, holds well in field and storage. Resistant FY, TB. Tolerant BR. Fresh Mkt, Processing.

**2289 Red Jewel F1** 67-75 days. Midseason producer of deep ruby red heads, well filled and full colored, with short core, 6" across, weighing about 3 lbs. Fine shape, color, solidity and uniform maturity. Semi open frame, good wrapper protection. Erect plant type holds well above soil splash. Uniform maturity. Tolerant TB. Fresh Mkt, Fresh Cut Mkt.

**2309 Ruby King F1** 70 days. Bright purplish-red color. Solid, round 4 lb heads. Excellent wrapper leaves and upright habit well adapted to close spacing. Very high yield potential and good field holding ability. Exceptional heat and cold tolerance. Fresh Mkt, Shipping.

**2358 Super Red 115 F1** 115 days. First true storage red cabbage that is Fusarium Yellow race one resistant. Medium sized round heads are nice red color with fancy wrapper leaves. Strong vigor with very good yields. Resistant FY 1, TT. Fresh Mkt, Storage.

**Beira tronchunda listed on page 30.**

## Savoy

**2322 Deacon F1** 105 days. Attractive red headed savoy cabbage. Large solid 3-5 lbs. heads develop shiny red appearance which intensifies at mature stages and is strongest in cool autumn weather. High beta carotene for extra health kick. Glossy reddish leaves are veined lavender purple. Smooth, sweet taste. Excellent choice for mixed salad. Fresh Mkt, Shipping.

**2325 Melissa F1** 80 days. Productive main season. Solid bright green, crinkle leaved heads, 6-7". average 2½ lb. Rich sweet savoy flavor, excellent for slaw or mixed salad. Vigorous & cold tolerant, can be planted for late fall harvest. Fresh Mkt, Shipping.

**2330 Perfection** 90-95 days. Beautifully crinkled, deep bright green round 12"-15" heads. Very attractive at market.



Red Dynasty F1



Gunma F1



Red Jewel F1



Harvest Mist F1



Melissa F1

Cat#	Cabbage (M=1000)	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
2256	Gunma	5.70	22.60	35.85	28.70	26.65	24.90	23.35

Cat#	Cabbage (M=1000)	200 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
2258	Harvest Mist	2.40	8.85	7.15	5.15	4.60	4.00
2287	Red Dynasty	6.55	25.45	20.30	13.95	12.65	11.35
2289	Red Jewel	4.60	18.00	14.40	11.65	10.60	9.55
2309	Ruby King	4.30	16.95	13.70	11.00	10.15	9.00
2322	Savoy Deacon	13.75	51.60	41.30	28.30	25.50	23.00
2325	Savoy Melissa	8.40	33.50	26.85	21.75	19.70	17.65
2330	Savoy Perfection	2.00	7.50	6.00	5.15	4.55	4.25
2358	Super Red 115	5.85	22.35	17.85	13.60	12.40	11.20

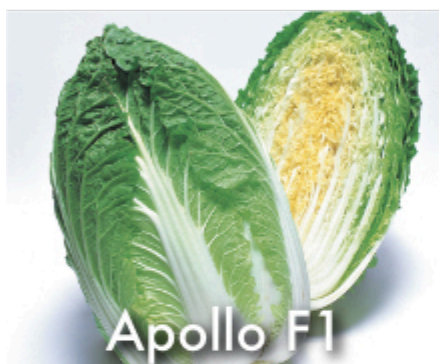




Joi Choi F1



Optiko F1



Apollo F1



Emiko F1

## Chinese Cabbage

(*Brassica rapa*, *Pekinensis* Group)



Approx. 9,000 sd/oz. Packet plants 25' of row; ¼ oz sows 100'. Sow ¼" deep, 12-24" apart in rows 24-36" apart. Seeds germinate in about 10 days. For spring harvest, transplant seedlings with 5-7 true leaves raised at 73° F during the day and 53° F at night. Bolting may result from low temperatures of below 40° F for one week or below 50° F for two weeks. **Days to maturity are from transplant.**

### Michihili Type

#### Narrow Cylindrical Shape

**2713 Monument F1** 80 days. Strong, vigorous 18" plants produce long, uniform, dense, cylindrical heads with deeper green outer color, white interiors. Tolerant BSP

**2707 Green Rocket F1** 70 days. Early variety with bright green crispy leaves; very tall with heads weighing 4-4½ lb. Notably long shelf life. Recommended for fall to winter harvest. Fresh Mkt, Shipping.

### Napa Type Barrel Shape

**2688 Apollo F1** 65 days. Excellent heat tolerance and good cold tolerance. Well suited for spring sowing and early summer harvest in temperate regions. Bright green 5 lb heads, light yellow interior. Excellent field holding ability. Tolerant CR, BSR. Fresh Mkt.

**2693 & 2693U Blues F1** 57 days. Early with broad, squat heads. Multiple disease resistance and very slow to bolt. Recommended for spring to early summer crops. Mature heads average 4.5 lbs, fresh green leaves with wide white midribs. Tolerant AL, BS, DM, YT, BR.

**2695 China King F1** 55 days. Compact frame can be planted at close spacing to produce baby cabbages. Barrel shaped heads, green wrappers, crispy light creamy yellow interior. Early maturity and very slow bolting give good harvest flexibility. Very uniform in all traits. Tolerant TB. Fresh Mkt.

**2703 Emiko F1** 55 days. Highly consistent, productive Napa with tender, mild heads well protected by deep green wrapper leaves. Holds well in the field and resists bolting in summer conditions. Tolerates crowding very well. Can be spaced closely at 10-12" in the row for smaller 2-4 lb heads or at 18-20" for larger 6 lb heads.

**2718 Optiko F1** 60 days. Early, vigorous, barrel shaped Napa type heads 12" x 5". Extremely bolt tolerant. Mid green wrappers, white ribs. High yield potential due to extra disease package. Resistant Y. Tolerant TB.

### Pak Choi

#### Traditional Shape

**2728 Asian Delight** 25-40 days. AAS Winner 2018. Tested nationally and proven superbly resistant to bolting. In trial after trial, Asian Delight did not bolt even after the comparisons had gone to seed. This trait provides potential for very high yields and adaptability to seasons and regions in which Pak-Choi has been difficult. Medium small heads, 5-7" spreading 8-10", or 6-10 oz, with mild flavor, tender white ribs, and dark green semi-savoyed leaves. Fresh local mkt, shipping, gdn ctr plant sales.

**2740 Joi Choi F1** 55 days. Extremely well adapted to fall and winter planting. Highly adaptable for hydroponic. Very tender, shiny, dark green leaves with tender white stalks. Uniform plants are slow to bolt, high yielding and cold tolerant. Fresh Mkt.

**2745 Mei Qing Choi F1** 40 days. First hybrid Pak Choi with green petioles—produces highly marketable plants. Easy to grow; attractive heads are tender, excellent eating quality. Vigorous, early, uniform plants are upright, compact and slow to bolt. Well adapted to spring/fall sowings; tolerant to heat and cold. Fresh Mkt.

**2748U New Nabai F1** 45 days. Heat tolerant and slow bolting. Baby white with attractive 6" heads. Deep green outer leaves form nice protective arch over thick, pure white petioles. Fresh Mkt.

#### Chinese Cabbage Disease Codes

AL	Alternaria Leaf Spot
BR	Black Rot
BSP	Black Speck
BSR	Bacterial Soft Rot
CR	Club Root
DM	Downy Mildew
TB	Tip Burn
Y	Yellow

Cat#	Chinese Cabbage (M=1000)	200 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
2688	Apollo	2.00	5.20	4.15	3.40	3.00	2.80
2693&2693U	Blues	1.90	5.20	4.15	3.40	3.00	2.80
2695	China King	2.65	9.70	7.90	6.20	5.65	5.15
2703	Emiko	2.95	11.80	9.50	7.65	6.75	6.00
2707	Green Rocket	2.15	4.95	3.95	3.15	2.90	2.60
2713	Monument	2.15	5.00	4.00	3.15	2.90	2.70
2718	Optiko	3.35	11.60	9.30	7.30	6.50	5.65
2728	Asian Delight	1.75	6.85	5.45	4.40	3.90	3.45
2740	Joi Choi	2.00	7.25	5.75	4.70	4.30	3.80
2745	Mei Qing Choi	2.00	7.60	6.15	4.95	4.45	4.00
2748U	New Nabai	1.55	2.25	1.80	1.55	1.25	1.25



## Carrots (*Daucus carota sativus*)

Approx. 23,000 sd/oz. Pkt plants 30 ft. of row; 1/4 oz sows 100 ft. Direct-sow 2-4 lbs/acre. Sow seeds 1/4" deep, 1-3" apart in rows 16-30" apart. Seeds germinate in about 8 days. Days to maturity are from sowing.

### Danvers Type

**2533U Danvers #126 Improved** 75 days. Heavier yield than Danvers. Smooth, orange red rods have well colored cores, avg 6-8" (about 1" longer than Danvers). Heat resistant tops. Fresh Mkt, Storage.

### Imperator Types

**2550 Neptune F1** 65 days. Blunt Imperator type with smooth exterior 8-10" x 1.5". Mid orange with refined core. Nice sweet flavor, avg 5% Brix, with high carotene, avg about 140 ppm. Strong 16" dark green tops. Exceptionally high yield potential and excellent field-holding ability. Tolerant ALB. Bunching, Cello pack, Cut/Peel.

**2566 Rainbow F1** 70 days. A truly unique, single variety- not a blend of seed. Each color offers a distinctive flavor and all have high sugar content. Produces long, 7-8" cylindrical roots of yellow, white, light orange, dark orange & coral. Strong 12-14" tops. A beautiful variety that makes great product displays. Popular with chefs and farmers market shoppers. Fresh Mkt, Restaurant, Specialty.

**2535 Deep Purple F1** 80-90 Days. Dark purple color to the core. Sweet flavor, well suited to juicing. 7-8" tapered roots. Tall strong healthy tops. Resistant CS. Fresh Mkt, Juicing, Specialty.

**2588 Yellowstone** 90 days. Bright yellow eye appeal. 10 1/2 x 1 1/2 tapered roots, sweet and crispy. Extra interest for salad. Novelty color carrot market. Restaurant, roadside.

### Baby Nantes Types

**2523 Adelaide F1** 65 days. Perfect for the baby carrot mkt. 3 1/2" x 3/4" cylindrical, short, smooth, blunt roots. Interior is bright orange and coreless. Tops are 6". Fresh "Baby" Mkt and Home Garden.

**25459U Little Finger** 50-68 days. OP Baby nantes type. Roots color quickly, can be pulled early at 3" x 1/2". Blunt cylindrical roots, smooth skin, very small core. Somewhat small tops. Must be harvested early for quality baby carrots. Baby Fresh Carrots, Canning, Pickling.



## Nantes Types

**2538 Envy F1** 66 days. Large, 12" x 1 3/4" cylindrical roots. Sweet, smooth, uniform bright orange roots taper very slowly to blunt ends. Fast vigorous growth, early maturity. Top variety for production of fresh jumbo carrots. Fresh Mkt, Garden.

**2540 Fuente F1** 65-70 days. Mid-Early. High quality Nantes hybrid. Uniform shape and size, strong tops. Cylindrical mid-orange roots 6-9" with blunt tip and some shoulder, diam about 1 1/2" at tip and 2 1/2" at shoulder. Tops are vigorous, strong stemmed, 18-24". Proven capable of high yields in many areas. Fresh Mkt, Bunching, Shipping. Can also be good for juicing.

**2543 & 2543U Ingot F1** 70-75 days. 8" x 1 1/4". Sweet, full sugar flavor, high color, beta carotene, high yield potential, smooth roots. Strong mid green tops, 15-18". Fresh Mkt, Roadside, Bunching, Juicing.

**Limited availability until next year.**

**2568U Scarlet Nantes F1** 68 days. OP Popular variety for early market. Attractive, quazality roots 6-7" long with dependable, delicious flavor, sweet and tender.

## Celery (*Apium graveolens dulce*)

Approximately 72,000 sd/oz. Pkt produces about 500 plants; 1 oz produces about 10,000 plants. Seeds germ in about 21 days. Set plants 6-12" apart in rows 18-40" apart. Days to maturity are from transplant.

**2665 Hadrian TZ 9077 F1** 90 days. Mid-early to main. Smooth, dark-green stalks, excellent eating quality with lots of crunch. Good stress resistance, with abundant foliage rising above stalk. Plant resists bolting, is compact and heavy with high yield potential. Overall height is 2 ft, producing 1 ft stalks at harvest. Resistant FW Pelleted seed.

**2678U Tall Utah Improved** 120 days. OP Well-known and in demand for high quality harvest, superior pack. Thick, smooth long petioles are produced on tall vigorous, sturdy plants, 10-11" to the first joint. Resistant to brown check; Tolerance to certain strains of Western Celery Mosaic.



### Carrot Disease Codes

ALB	Alternaria Leaf Blight
CS	Cavity Spot

### Celery Disease Codes

FW	Fusarium Wilt & race #'s
----	--------------------------

Cat#	Carrot	1/4 oz	oz	1/4 lb	1 lb	5 lb (per lb)	25 lb (per lb)
2533U	Danvers #126 Improved	1.65	2.75	4.75	15.95	14.30	13.00
2549U	Little Finger	1.65	2.80	9.25	31.25	27.75	25.50
2568U	Scarlet Nantes	1.65	2.50	4.80	16.00	14.35	13.00

Cat#	Carrot (M=1000)	500 sds	2500 sds	10 M (per M)	50 M (per M)	100 M (per M)	500 M (per M)
2523	Adelaide	2.50	5.80	1.95	1.55	1.25	1.15
2535	Deep Purple	2.45	9.15	2.80	2.60	2.20	2.00
2538	Envy	2.35	7.00	2.25	1.65	1.55	1.00
2540	Fuente	2.75	10.40	3.40	2.90	2.45	2.30
2543&2543U	Ingot	1.80	2.25	0.75	0.65	0.60	0.55
2550	Neptune	1.80	2.25	0.75	0.65	0.60	0.55
2566	Rainbow	2.50	9.60	2.95	2.55	2.30	2.00
2588	Yellowstone	2.50	6.15	2.00	1.55	1.35	1.00

Cat#	Celery	1/32 oz	1/2 oz	oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
2678U	Tall Utah Improved	1.95	3.35	5.55	9.00	15.65	24.55	23.40
Cat#	Celery (M=1000)	500 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)		
2665	Hadrian TZ 9077	9.70	14.55	11.75	9.75	8.60		

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





## Cauliflower

(*Brassica oleracea*, Botrytis Group)



Approx. 7,000 sd/oz.; Seeds germinate in about 10 days. Set plants 14-24" apart in rows 24-36" apart. Days to maturity are from transplant.

**2608 Amazing** 75 days. OP Truly amazing quality and earliness. Large vigorous plant produces thick leaf jacket. Deep-domed, bright white heads 7" to 8" are heavy and firm. Hearty flavor and crisp texture. Adapted for early and late markets. Fresh Mkt, Shipping.

**2610 Baby F1** 45-55 days. Novelty item for container plant production. Can be sold year round in 4" pot with visible curd for fresh harvest at home in 1 - 2 weeks. Head will be about 3" diam. Needs 12 hour light to induce bud set. Gdn Ctr, Container Sales, Novelty, Patio.



**2623 Cheddar F1** 68 days. Unique orange heads are uniform, smooth and well domed. Weight and firmness is similar to white varieties. Output has about 25 times more beta carotene. Easy to grow when spring planted in areas of moderate temperatures. Leave head untied for maximum orange color. In warmer regions, plant later to assure head development for fall harvest. Excellent flavor cooked or raw (color deepens when cooked). Specialty, Fresh Mkt, Salad Mix.

**2627 Fioretto** 60 days. Heat tolerant. Special type produces long, slender florets in great abundance. Tender bright green stems grow to near uniform 5" lengths, bearing a bouquet of snow white caps at end of stem. Sweet flavor both cooked and raw for salad or dipping. Can be sold in bunches or cello cartons. Extended harvest is possible from successive sowings, due to heat tolerance.

**2630 Fujiyama** 65-75 days. Performed well in trials over several years in East coast locations. Large, flat-round heads with good curd cover. Clean white color that tends to stay white a long time. Very firm texture, holds well in field. Vigorous plants.

**2635 Multi-Head White F1** 50-60 days. Dual use. Produces a central head and 3-7 smaller side heads which can keep bearing for 3-6 weeks. Central head about 6", subtended by 2-3 mid size 3" curds and 3-5 small 2" curds. Compact waxy foliage slows dehydration. Good tolerance of fungal disease. Dual uses; main head and side shoot florets.

**2638 Graffiti F1** 60 days warm, 112 days cool. Deep purple curd well protected by deep bronzy green wrappers. Large frame with dome shaped heads. Color reaches max intensity in full sun at full maturity when heads are about 2 lb. Color is best at table when raw or steamed; if boiling, 1 tsp lemon juice can be added to water to help retain color. Fresh Mkt, salad mixes, restaurant.

**2653 Snow Crown F1** 68 days. Earlier, more uniform Snowball type. The high quality, well-rounded, pure-white heads measure up to 8" across, have good depth and stay tight several days after harvest. Vigorous plants with potential for big yields. Fine raw or cooked.

**2654 Steady F1** 65 days. Widely adapted across trials in a broad range of climate areas. Large high quality 7" domed heads with clean billowing white fine textured curd. Vigorous plant provides ample wrapper leaves for curd protection. Maturity is uniformly early. Fresh Mkt, Shipping, Gdn Ctr Plant Sales.

Cat#	Cauliflower (M=1000)	100 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
2608	Amazing	3.55	26.40	21.60	15.55	14.75	14.25
2630	Fujiyama	2.00	13.80	11.15	9.45	8.35	7.65
2653	Snow Crown	2.85	22.80	18.25	14.80	14.00	13.40
2654	Steady	10.15	77.15	61.85	28.35	25.50	22.95

Cat#	Cauliflower (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)
2610	Baby Cauliflower	4.00	11.85	47.40	75.20	67.85	61.15
2623	Cheddar	6.00	18.75	74.85	116.65	105.20	94.85
2638	Graffiti	8.30	21.90	87.70	141.90	128.00	115.35
2627	Fioretto	2.85	8.75	35.55	60.25	53.45	48.95
2635	Multi-Head White	4.00	11.85	47.40	75.20	67.85	61.15



# Collards

(*Brassica oleracea*, *Accephala* Group)

Approx. 9,000 seeds/oz. Pkt plants 25 ft. of row; ¼ oz sows 100 ft. Direct-sow 2-4 lbs/acre. Sow seeds thinly, ¼" deep 12-24" apart in rows 24-36" apart. Seeds germinate in about 10 days. **Days to maturity are from sowing.**

**2777 Flash F1** 75 days. Smooth, flat, broad, deep green, early Vates type. Upright 18" plants are slow to bolt. Fast re-growth and good uniformity. Fresh Mkt, Processing.

**2789 Hi-Crop F1** Uniform, deep green, semi-savoyed tender leaves. Versatile and vigorous hybrid, tolerates both heat and cold. Excellent producer of medium size plants in both long, hot and short, cool season areas. Plants can be harvested at one time. Fresh Mkt, Processing.

**2792 Morris Heading** 65 days. Popular in traditional southern markets. Leaves grow straight up in young stages and are picked for early greens. After leaf harvest, plant can be left in field to form a head which can be harvested and used like cabbage. *Treated seed.*

**2798 Top Bunch 2.0 F1** 70 days. High quality hybrid produces attractive, uniform, blue-green leaves, slightly wavy, with close internode spacing. Early bearing and quick regrow after harvest. Vigorous plants have high yield potential. Upright habit for clean harvest. Improved successor to original Top-Bunch. Fresh mkt, Bunching, Machine Harvest, Processing.

**2799 Top Chop F1** 74 days. Upright leaves are very large and broad, deep green and flat, with strong potential for bountiful harvest. Very high bolt tolerance; the slowest to bolt so works well in over-winter production as well as summer-fall. Very uniform growth promotes consistency in timing and yield.

**2802 Vates** 75 days. The standard, most well known variety. Compact plants with thick, broad leaves grow 1½'-2'. Fresh Mkt, Processing.

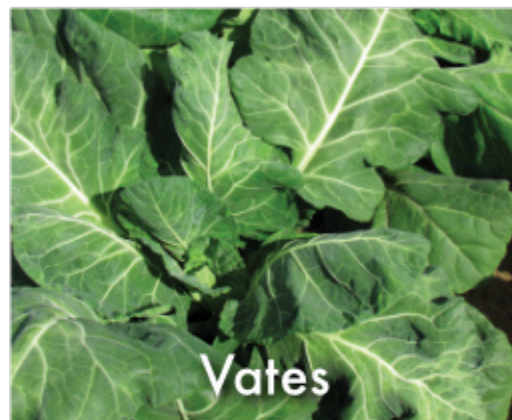
**2770 Cash Crop F1** 35 days from sowing to transplant. 75-100 days from transplant to full maturity. Excellent fast regrowth rate. Can be stripped as early as 50 after transplant for first harvest and will then regrow for subsequent harvests over a long season. Flat, deep green leaves. Upright habit with long petioles for clean leaves, easy harvest and easy bunching. Tops for summer-fall & mid-spring harvests.



Top Bunch 2.0



Flash F1



Vates



Hi-Crop F1



Top Chop F1

Cat#	Collard	1/16 oz	1 oz	¼ lb	½ lb	1 lb	5 lb (per lb)	25 lb (per lb)	50 lb (per lb)
2802	Vates	9.95	11.85	12.50	21.80	39.50	36.55	34.70	33.20

Cat#	Collard	1/32 oz	¼ oz	oz	¼ lb	½ lb	1 lb
2798	Top Bunch 2.0	1.85	10.90	29.00	97.70	174.30	312.65
2799	Top Chop	2.45	14.50	35.20	118.30	211.30	378.90

Cat#	Collard	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	25 lb (per lb)
2792	Morris Heading	2.00	3.00	4.70	7.50	6.75	6.15

Cat#	Collards (M=1000)	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)
2770	Cash Crop	1.75	3.65	5.90	5.00	4.45	4.00
2777	Flash	1.95	4.50	7.25	6.15	5.45	5.00
2789	Hi-Crop	2.80	4.40	6.90	5.25	4.80	4.25

**To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)**



# Sweet Corn... A Taste of Summer Sunshine

## Selecting Sweet Corn Varieties

Sweet Corn breeders have been working with many new genetic combinations affecting the sugars in sweet corn varieties, which in turn affects classification of varieties. So far, there has not been complete agreement about classifying various types. Twilley's research department continually looks at different varieties and how they perform. The following information will help clarify types listed by Twilley, so you can choose which variety is best for your sweet corn production. None of our sweet corn varieties are GMO.

**Sh2 corn avg 3,500 sd/lb**

**Other sweet corn avg 2,500-3,000 sd/lb**

**Soil temperature** – If sown too early in the season, corn will not grow well. Wait until soil is over 55°F. Only treated seeds of cold-germinating varieties should be planted before that time.

**Isolation** – Many types of sweet corn must be isolated from other corn to limit pollen crossover. This can be achieved by using varieties with different maturity timing, sowing at different times, or separating by physical location.

**Planting** – Full sun is necessary. Sow seeds 1" deep and space 6-7" apart. Rows should be approximately 32" apart. Untreated seed should be planted more densely. To ensure proper pollination, think "four": plant in blocks of at least four rows, each at least four feet long.

**Pests/Diseases** – Conditions vary depending on location. For the best information regarding each region, we advise you to consult your local extension service.

**Harvest** – Corn is ready to eat when the silk turns dry and dark brown and kernels are milky.

Genotype	General Information
Normal Sugary Gene Type (su)	The standard sweet corn for many years. This type has creamy corn flavor and mild sugars. They are best used very soon after picking, as conversion of sugar to starch is rapid.
Homozygous Sugary Enhancer Gene Type (se)	100% of kernels are sugary enhanced. Each kernel has higher sugar content than Normal Sugary Gene types but also has comparable levels of starch. This makes the corn both sweet and creamy with a tender pericarp. The higher sugar levels result in hybrids that maintain their quality over a longer period of time. Homozygous denotes that both parents are se. <b>Isolation required.</b>
Homozygous Shrunken 2 Gene Type (sh2)	Also known as Supersweets, 100% of these kernels contain 2 to 3 times the sugars of Normal Sugary Gene types. The high sugar content gives sh2 seed a shriveled appearance; the seed is lighter and has a higher count per pound. Sh2 has a slower conversion of sugar to starch, allowing longer storage and/or long distance shipping. Supersweets are sensitive to soil temperature. Soil should be consistently warmer than 55° at sowing. Examples of this group include SummerSweet®, X-tra Sweet® and X-tra Tender®. <b>Isolation required.</b>
Synergistic Types	Also known as Heterozygous Shrunken 2 Gene Type (sh2 + se), this class contains 75% se kernels and 25% sh2 kernels on each ear. These are not recommended for long distance shipping or processing. These can be found under the Synergistic headings by color. <b>Isolation required.</b>
Augmented Shrunken	These are a new generation of shrunken types. Like regular shrunkens, they contain the sh2 gene but have extra juiciness and sugar from incorporating se and su genes as well. Soil temperatures must be at least 60°. <b>Isolation required.</b>



## Ornamental Corn & Sorghum

Sow in mid to late May for a mid September harvest. Grow at the same soil temperature and sowing depths/density as sweet corn. Ornamental corn should be harvested by hand when the husks dry, often after one or two frosts. Leave the ears in the husk and complete the drying process in a sheltered environment.

Ornamental corn will freely cross-pollinate with other corn, so keep it separate from sweet corn crops.

Farm markets make ideal outlets for cheerful, festive bundles.

**1184U Bloody Butcher** 100 days. Large deep red ears 8-12" x 2" for fall decoration. Giant 9-12' stalks bear 1-2 ears each well above ground. Prized heirloom variety. Dried Ornamental for Cornucopia, Roadside.

**1224U Broom Corn/Sorghum Colors Medley** Highly ornamental types for autumn cornucopias, can sell with pumpkins, gourds, Indian corns. Contains ornamental Broom Corns and Colored Upright Sorghums.

**1189 Carousel F1** 100 days. Miniature type produces tiny, colorful ears excellent for local florists and dried flower wholesalers. Festive multicolored kernels fill 4-5" ears; average 2 or 3 ears per plant. Cross market with pumpkins, gourds.

**1194U Earth Tones Dent** 85 days. Delectable reselection from an heirloom, dent flour corn. 8-10" ears display muted glowing tones of soft browns, pinks, mauves, greens, blues and golds. Great colors for fall sales. Great for decoration or feed for birds. Roadside, Cornucopia.

**1199 Fiesta F1** 102 days. Colorful husks and ears. Long, 7-10" ears contain kernels in a wide range of colors, including red, purple, yellow and white. Extremely decorative husks are 50-70% purple. Plants to 7'.

**1209U Mini Blue** 100 days. Kernels are medium to deep blue. Small, narrow cobs average 2-4" with two ears per stalk. Can be used for dried arrangements, fall decorations or popped for eating.

**1239 Wilda's Pride** 110 days. Extremely wide and bright color range. Sturdy plants. Large ears 8-11" long in sparkling array including maroons, deep purplish and blackish reds, pinks, creams, whites, yellows and many multicolors.

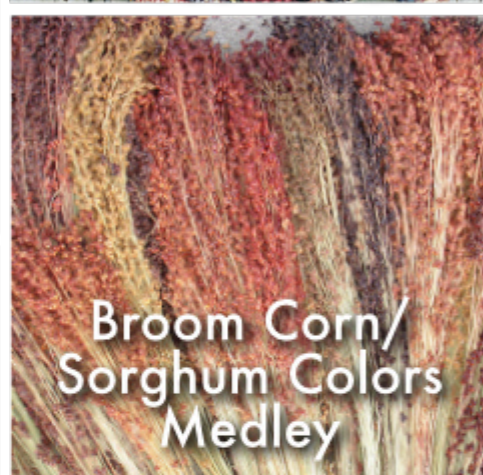
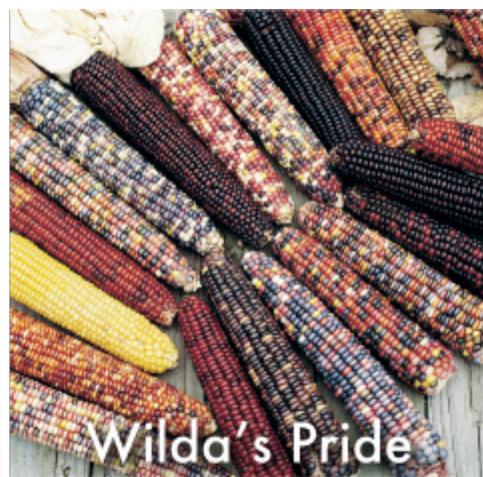
**Very limited supply.**

**1229 Strawberry Corn** 110 days. Small ears with tiny, dark strawberry-red kernels are dual purpose, for popping and ornamental. 2-3" x 1.5" ears, lovely with husks attached and bunched for fall decoration. Plants avg 6'.

## Popcorn

**1255U Dream Pop Red F1** 120 days. Bright reddish purple kernels with high popping percentage. Delicious nutty flavor and smooth, crunchy texture. Red and yellow are sister lines. Kernels can be layered in jars for attractive sales presentation. 6" x 1-1.5" ears produce about 700 kernels. Ears slightly tapered. Good tip fill. 7' stalks. Ornamental Edible, Farm Mkt, Cornucopia.

**1256U Dream Pop Yellow F1** 120 days. Bright kernels ranging from soft yellow to light orange.



Cat#	Ornamental Corn	¼ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)	50 lb (per lb)
1184U	Bloody Butcher	10.15	30.90	24.90	17.20	15.45	14.85
1224U	Broom Corn & Sorghum Colors Medley	18.20	55.15	44.35	37.65	33.35	30.60
1189	Carousel	9.90	29.90	24.00	20.20	17.45	15.65
1194U	Earth Tones Dent Corn	7.50	26.20	22.00	17.30	15.30	14.70
1199	Fiesta	9.25	27.70	22.20	18.85	16.75	15.35
1209U	Mini Blue	16.25	45.30	39.50	33.60	27.85	26.15
1229	Strawberry Popcorn	16.50	46.30	34.70	28.95	25.45	23.15
1239	Wilda's Pride	7.45	22.55	17.95	14.40	12.55	11.35

Cat#	Popcorn	¼ lb	1 lb	5 lb (per lb)	10 lb (per lb)
1255U	Dream Pop Red	13.55	41.80	27.00	24.45
1256U	Dream Pop Yellow	10.85	32.40	25.20	24.15





Solstice F1



Catalyst F1



Anthem F1

## Sweet Corn

Bicolor	Days	Ear Size	Kernel Rows	Height	Disease	Description
<b>Sh<sup>2</sup></b>						
1378 American Dream F1 	77	7"-7.5"	16-18	6'	Tolerant NCLB	AAS Gold Medal 2018. IFSI Reserve™ eating quality. Tender sweet kernels, excellent tip fill. Good husk protection and flags.
1360 Anthem XR F1	73	8" x 1.8"	16-18	5'	Tolerant CR, NCLB	Early supersweet; avg. ear height 20". Deep green husk and multiple flag leaves with medium short shank. Fresh Mkt, Shipping.
1377 Catalyst XR F1	66	8" x 1.75" diameter		6'	Tolerant CR	66 days! Earliest SuperSweet on the mkt. Sweet, tender ears borne 27" above ground. Mid green husk and flag provide good protection. Excellent ear size and tip fill. A must have for early mkt window.
1695 Summer Sweet Multisweet SSW 2742 F1	75	7-7.5"-8"	16-18	6.5'	Resistant CR, Rp 1, G 1; Tolerant NCLB	Plenty of extras. The brilliance of HiGlow makes the color contrast really pop. Rich flavor of se+sh2. Strong stalks. Uniform vigor. Strong disease package.
1401 Enchanted F1	78	8" x 2" diameter	18-20		Tolerant CR, NCLB, SW	Augmented SuperSweet. Combines sh2, se & su genes for exceptional combo of sweet flavor, tender kernels, strong seed vigor and emergence. High yield potential. 3" ear ht. Easy to pack with great holding power from field to consumer. Fresh mkt, Shipping.
1474 Packout F1	78	8.25" x 1.75" diameter	16-18		Tolerant CR, NCLB, SCLB	Main season bicolor in the SSW group. 16-18 kernel rows. Ears 8.5" long x 1.75" diameter. Carried 32-34" above ground. 1 ear per plant at close spacing, 2 ears at wide spacing.

Cat#	Sweet Corn Bicolor (M = 1000)	500 sd	2500 sd	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
1358	Alto	13.15	51.40	16.35	10.30	9.70	9.20	8.65
1378	American Dream	20.65	81.00	25.75	20.65	19.80	18.85	18.15
1360	Anthem XR	22.30	87.55	27.80	19.60	18.85	17.90	17.20
1377	Catalyst	19.60	77.00	24.40	19.60	18.85	17.95	17.15
1401	Enchanted	14.45	56.80	18.00	14.45	13.90	13.20	12.75
1402	Espresso	14.75	58.00	18.45	14.75	14.20	13.50	12.85
1419	Honey 'N Pearl	12.70	49.95	15.85	12.70	12.15	11.55	11.00
1448	Kickoff XR	19.80	78.15	24.75	19.80	19.15	18.15	17.40
1480	Obsession	16.50	64.85	20.55	15.00	14.00	13.25	12.65
1474	Packout	11.50	44.85	14.25	10.00	9.45	8.95	8.40
1489	Primus	22.00	86.45	27.45	17.70	16.65	15.70	14.85
1504	Serendipity	9.45	35.00	12.95	12.15	11.45	10.75	10.20
1506	Signature XR IFSI Reserve	35.40	138.90	44.15	35.40	33.90	32.25	31.00
1539	Solstice	16.60	65.20	20.70	16.60	15.90	15.20	14.50
1695	Summer SWeet® Multisweet® 2742	13.65	53.75	17.00	13.65	12.85	12.15	11.50





Honey 'N Pearl F1



Obsession F1



Alto F1



Primus F1



Serendipity F1



Espresso F1

Bicolor	Days	Ear Size	Kernel Rows	Height	Disease	Description
1419 Honey 'N Pearl F1 	78	9"	16-18			An industry standard. Super sweet type with excellent holding ability. Great tip-fill. Nice, straight rows of flavorful shiny yellow & white kernels. Fresh Mkt, Shipping, Processing.
1448 Kickoff XR F1	69	8" x 2" diameter	16-18	6'	Resistant CR, NCLB	Xtra-Tender gene combo for super eating quality and seedling vigor. Excellent ear size for a first-early. Deep green husk and robust flags. 28" ear ht. Quick emergence & large ears provide potential for very high yields. Fresh mkt, Shipping.
1480 Obsession F1 	81	8.5" x 1.7"	18-20		Resistant CR; Tolerant NCLB, SW	Proven main-season mkt leader in many areas. Sh2+se genetics result in sweet, creamy tender kernels. Ears held 2' above ground.
1506 Signature XR F1	72	8" x 1.9" diameter	16-18	6.5'	Resistant CR	New-generation breeding from Illinois Foundation, selected for the very best of tender and sweet eating. Excellent husk protection and holding ability in field. Ears 27" above ground. Shaft is compact for easy pack and ship.
1539 Solstice F1	70	7.5" x 1.8"	16-18			Early maturity. Augmented sh21 genes for strong emergence and plump kernels with extra fine flavor. Exceptional tip fill. Easy harvest with a quick snap at picking and a short shank for easy packing.
<b>Synergistic</b> (75% se + 25% sh <sup>2</sup> unless noted)						
1358 Alto F1	72	8.5" x 2"	14-16	5.5'		EaryTripleSweet synergistic bicolor. Strong emergence in cool soils gives potential for early mkt windows. Works well in northern areas. High quality eating. Tender, creamy and sweet. Fresh Mkt, Shipping.
1402 Espresso F1	70	8.5" x 2"	14-16		Tolerant CR, SW	Large kernels & strong husk cover make a good combo for mkt appeal. Stalk very tall for an early variety. Near main-season quality in a 70-day corn. Breeder recommends planting as as first-early. Fresh Mkt, Shipping.
1489 Primus F1 (60% se + 40% sh <sup>2</sup> )	81	8-8.5" x 2.2"	14-16		Resistant SCLB; Tolerant SW	Sweeter than other triple sweets. Wonderful flavor. Avg. ear height 24". Disease package gives potential for high yield. Medium green plant. Mid-sized husks. Fresh Mkt, Roadside, Local Shipping, Cello.
1504 Serendipity F1	82	8.5" x 2"	16-18	8'	Tolerant SCLB	An industry leader. TripleSweet. Superb eating ears with extra shelf life.





Ambrosia F1




Delectable F1



Peaches and Cream F1

## More Sweet Corn

Bicolor, cont.	Days	Ear Size	Kernel Rows	Height	Disease	Description
<b>SE</b>						
1359 Ambrosia F1 	75	8-8.5" x 2.2"	16	7.5'	Tolerant SW	Exceptionally tender and delicious. Plants may have some resistance to smut. Fresh Mkt, Regional Shipping.
1384 Delectable RM F1	84	8.5" x 2"	18		Tolerant CR, NCLB, SW	Homozygous SE. Widely adapted to all areas. Strong, dark-green husks. Fresh Mkt, U-Pick, Shipping.
1451 Luscious F1	75	8.5" x 2"	16-18	6'	Tolerant NCLB, SCLB, SW	The name says it all. Large, blunt ears have sweet, tender eating quality with Galinat's TABLESWEET® homozygous SE genetics. Produces well even under stressful conditions. The husk offers good tip coverage and classy flags. Fresh Mkt, Roadside, Garden.
<b>SU</b>						
1481 & <b>1481U</b> Peaches 'N Cream Early EH F1	70	8.5" x 2"	14			First early roadside variety that delivers great sweet creamy flavor for locally grown market. Long medium green flags. Fresh Mkt, Roadside, Garden.

Cat#	Sweet Corn	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)	50 lb (per lb)	100 lb (per lb)	500 lb (per lb)
1359	Ambrosia	12.65	19.45	30.30	23.80	22.90	22.00	21.15	20.20	19.70
1364	Argent	10.55	16.25	25.35	19.90	19.15	18.40	17.65	16.90	16.50
1384	Delectable	12.50	19.35	30.15	23.70	22.75	21.90	21.00	20.15	19.70





Avalon F1



Illusion F1



Summer Sweet®  
Multisweet® glACial F1



Silver King F1



Argent F1

#### Corn Disease Codes

<b>CR</b>	Common Rust
<b>GW</b>	Goss' Wilt
<b>MDMV</b>	Maize Dwarf Mosaic Virus
<b>NCLB</b>	Northern Leaf Blight (& races)
<b>SCLB</b>	Southern Leaf Blight
<b>SW</b>	Stewart's Wilt

### White

#### Sh<sup>2</sup>

1399 Eden RMN F1	70	8" x 2"	16-18	26"	Resistant CR, MDMV	Augmented Sh2i supersweet. Combines sh2, se and su genes for exceptional sweet flavor, tender kernels and strong seed vigor and emergence. Easy to pack with great holding power from field to consumer. Wonderful flavor and crispy bite for strong mkt appeal.
1621 Summer Sweet® HiGlowMS® White 7401 F1	75	9"	16-18	5.5'	Resistant MDMV	Kernels have an extra shiny glow. Large cylindrical ears. Excellent husk protection and striking flags. Stalk is medium short. Fresh Mkt, Shipping.
1412 Summer Sweet® Multisweet® glACial F1	76	8.5" x 1.9"	16-18	6'		High quality. Stays bright white past harvest. Fat cylindrical ears with excellent tip fill. Mid sized plant. Fresh Mkt.
1715 SV 1580SC F1	76-80	8.5" x 1.7"	18-20	6.5'	Resistant CR, NCLB	Easy harvest either by hand or mechanical means. Avg. ear height 24". Multiple disease package promotes high yield potential. Fresh Mkt, Roadside, Shipping, Cello.

#### Synergistic (75% se + 25% sh<sup>2</sup>)

1369 Avalon F1	82	8.5" x 2"	16		Tolerant NCLB, SCLB, SW	Superior eating quality compared to white se types. Medium green husks with compact flags. Fresh Mkt, Regional Shipping.
----------------	----	-----------	----	--	-------------------------	--

#### SE

1364 Argent F1	86	8.5" x 2"	16-18	7'	Tolerant CR, NCLB, SW	Heterozygous SE. Extra luxurious. Avg. ear height 23". High yield potential.
1509 Silver King F1	82	8-8.5" x 2.2"	16	6.5'	Tolerant CR, NCLB, SW	Heterozygous SE. Popular variety with wide adaptability. Very good tip fill. Extra broad disease package.

#### SU

1529 & 1529U Silver Queen F1	88	8.5" x 2"	14-16	7'	Resistant NCLB, SW; Tolerant SCLB	A well-known favorite. Uniform large ears. Dark green husks and flags. Vigorous plants. Fresh Mkt, Regional Shipping.
------------------------------	----	-----------	-------	----	-----------------------------------	---

Cat#	Sweet Corn (M=1000)	500 sd	2500 sd	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
1369	Avalon	11.55	52.00	16.60	13.30	12.45	11.70	11.15
1399	Eden RMN	16.90	66.50	21.15	16.90	16.25	15.60	14.80
1451	Luscious	9.95	38.75	12.30	8.70	8.30	7.95	7.60
1621	Summer Sweet® HiGlowMS® White 7401	17.15	67.25	21.35	17.15	16.00	15.15	14.35
1412	Summer Sweet® Multisweet® glACial	17.80	69.95	22.20	17.80	16.70	15.65	14.80
1481 & 1481U	Peaches 'N Cream Early EH	21.55	84.60	26.85	9.75	9.15	8.55	8.15
1509	Silver King	25.35	99.60	31.60	9.65	9.00	8.55	8.00
1529 & 1529U	Silver Queen	9.65	37.95	12.00	8.30	7.80	7.35	7.00
1715	SV 1580SC	19.15	75.15	23.75	16.50	15.50	14.55	13.85

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





## More Sweet Corn

Yellow	Days	Ear Size	Kernel Rows	Height	Disease	Description
<b>Sh<sup>2</sup></b>						
1680 Summer SWeet® HiGlowMS® SS3778R F1	78	8.5" x 1.85"	18-20	6.5'	Tolerant CR	Main season variety with high vigor emergence. Extra large, thick cylindrical ears. Good flags and dark green husks. Medium tall stalks. Fresh Mkt, Shipping.
1705 Supersweet Jubilee F1	83	8.5" x 1.9"	16-18	7'		Jubilee type but with super sweet flavor and outstanding holding ability. Consistent high yield and excellent recovery. Best results in warmer soil.
1795 Xtra-Sweet® Northern Yellow F1	67	8" x 1.9"		5.5'	Tolerant NCLB, SCLB	Xtra Early Super-sweet with excellent cold soil emergence. Very large for first early. Avg ear ht 15". Fresh Mkt, Roadside, Shipping.
<b>Synergistic</b>						
1424 & 1424U Honey Select F1	79	8.5" x 2"	14-16		Resistant SW	Our top selling yellow. High quality product with enhanced flavor and nice fat ears. Good holding ability. Fresh green husks with good flags. Fresh Mkt, U-Pick.
<b>SE</b>						
1370 Bodacious RM F1	75	8-8.5" x 2.2"	16	7'	Resistant CR, MDMV; Tolerant SW	Super dependable. Improvement on the original Bodacious, with highly resistant traits in its 3-way disease package.
1432 Incredible RM F1	85	8-8.5 x 2.2"	18	8'	Tolerant CR, NLCB, SW	Homozygous SE. Mainseason. Widely adapted market leader.
1442 Kandy Korn F1	81	8.5 x 2"	16		Tolerant CR, SCLB	Sweeter than normal sugary types. Very attractive purple stalks, purple and green husks. Long lasting sweetness allows longer harvest period.
<b>SU</b>						
1434 Jubilee F1	81	8-8.5" x 2.2"	16-20		Tolerant CR, SCLB	81 days. Popular all-purpose variety bears 8.5 x 1 ¾ ears with 16-20 rows of sugary yellow kernels; sometimes two ears per stalk. Flavorful, tender and sweet. Adapted to New England, Great Lakes, west of the Mississippi. High yield potential.

Cat#	Sweet Corn	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)	50 lb (per lb)	100 lb (per lb)	500 lb (per lb)
1370	Bodacious RM	12.20	18.80	29.30	23.00	22.15	21.25	20.45	19.55	19.00
1432	Incredible RM	12.20	18.85	29.45	23.15	22.35	21.35	20.55	19.65	19.15

Cat#	Sweet Corn (M = 1000)	500 sds	2500 sds	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
1424 & 1424U	Honey Select	6.15	27.00	10.25	10.00	9.50	9.15	8.70
1434	Jubilee	12.00	38.00	11.75	10.15	9.55	9.00	8.55
1442	Kandy Korn E.H.	12.55	35.60	11.30	9.00	8.55	8.00	7.60
1680	Summer SWeet® HiGlowMS® SS3778R	15.30	59.70	18.95	15.30	14.35	13.40	12.70
1705	Supersweet Jubilee	15.00	59.15	18.80	15.00	14.15	13.30	12.65
1795	Xtra-Sweet® Northern XtraSweet Yellow	14.15	55.45	17.60	14.15	13.55	12.85	12.30



# Cucumber (Cucumis sativus)

Approx. 1,100 seeds/oz. ¼ oz sows 100' of row. Direct-sow 2-3 lbs/acre. Sow seeds 1-2" deep, 8-12" apart in rows 36-72" apart. Seeds germ in about 7 days. **Days to maturity are from sowing.**

**2826 Bristol F1** 54 days. Top quality new slicer with high yield potential and great disease package. Showed strong multi-virus resistance and intermediate fungal resistance in trials. Mid-vigorous vines. Cylindrical 8.25" x 1.25" fruits with quality flesh and rich green skin. High packout of fancy grade fruit in trials. Excellent combination of marketability and production traits. Gynoecious normal type flowering. Resistant A 1, ALS, CMV S, ZYMV Tolerant PRSV DM, PM.

**2832 Dasher II F1** 58 days. Premium gyn with high yield potential. Vigorous plants, straight, uniform, dark-green 8.5" x 2.5" fruit. Strong disease package. Tolerant A, ALS, CMV PM, S. Fresh Mkt, Garden, Commercial.

**2862 General Lee F1** 66 days. Market leader. A white-spined slicer. 8" fruits are straight and attractive uniform dark green. Vines are large and vigorous with dark green foliage. Widely adapted for spring and fall seasons. Resistant S, DM, PM. Tolerant CMV Fresh Mkt, Garden.

**2871 Green Light F1** 40 days from sowing. 2020 AAS Gold Medal Winner. Beautiful and highly productive minislicer. Flavorful, mild, sweet, crisp & seedless. Smooth, spineless, tender skin that needed no peeling. Harvest at 4". Wonderful eaten whole as a snack or sliced. Trial notes indicate yield of 3-4 fruit daily over long season. Season yields were reported as 40 or more fruit per plant. No bitterness found in our trial. Trellised nicely. Plant about 20" apart on trellis. Vigorous vines can reach to 80" on ground. Fresh Mkt.

**2872U Iznik F1** 45 days as ghs cuke. 50-60 days in field. A real workhorse among parthenocarpic "seedless" fancy-pack cukes. In 2018 trials, Iznik fruited earliest and out yielded others in its class by a wide margin, and was still yielding long after others in trial succumbed to wet weather diseases. Great flavor was noted throughout season - crisp, cool, with no hint of bitterness or aftertaste. Fresh green cukes, shiny and smooth, reach about 4" length and stay slender and tender, with only teeny ovules and a very nice baby slicer shape. Yields avg 5 fruit per leaf axil, allowing potential for high exception yield by fruit count. Multi-use, adaptable to field, greenhouse and container culture.

**2887U Marketmore 76** 66 days. OP well-known variety for planting both in North and South. Tolerant CMV, DM, PM, S. Commercial production

**2890 Salad Bush F1** 57 days. Early slicer with compact bushy habit. Glossy dark green fruit are uniform, cylindrical, with slight taper, 8" x 2 ¼". Adaptable to compact spacing. Resistant CMV S. Container, Fresh Mkt.

**2893U Saladmore Bush F1** 55 days. Semi-bush habit spreading about 2' across. Deep green slicers 7-8" x 2", slightly tapered cylindrical, with crisp, sweet lean. Strong disease package, high potential yield with good durability and capable of extended harvest if kept picked. Can also be used in basket for garden center sales. Tolerant A, CMV, PM, S. Fresh Mkt, Bedding Plant Sales, Southeast.



**Bristol F1**



**Dasher II F1**



**Green Light F1**



**Saladmore Bush F1**



**Marketmore 76**

## Cucumber Disease Codes

<b>A</b>	Anthraxnose & Race #'s
<b>ALS</b>	Angular Leaf Spot
<b>CGMMV</b>	Cucumber Mottled Mosaic Virus
<b>CMV</b>	Cucumber Mosaic Virus
<b>CVYV</b>	Cucurbit vein yellowing virus
<b>DM</b>	Downy Mildew
<b>PRSV</b>	Papaya Ringspot Virus
<b>PM</b>	Powdery Mildew
<b>S</b>	Scab
<b>TLS</b>	Target Leaf Spot
<b>WMV</b>	Watermelon Mosaic Virus & Race #'s
<b>ZYMV</b>	Zucchini Mosaic Virus

Cat#	Cucumber	¼ oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	25 lb (per lb)
<b>2887U</b>	Marketmore 76	1.70	2.75	7.00	11.20	18.35	16.55	15.30
<b>2893U</b>	Saladmore Bush	2.00	11.65	39.95	68.95	122.40	112.80	105.45

Cat#	Cucumber	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)
2826	Bristol	1.75	4.65	15.00	22.00	20.50	19.00
2832	Dasher II	1.85	2.60	9.90	16.00	14.85	13.85
2862	General Lee	2.80	4.40	10.60	16.65	14.70	13.00
2871	Green Light	1.95	5.65	22.95	38.80	34.45	31.50
<b>2872U</b>	Iznik	12.90	34.40	139.50	213.45	173.60	
2890	Salad Bush	7.15	22.00	88.30	124.45	112.35	101.25

**To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)**





Summer Dance F1



Tasty Green F1



Calypso F1



Sweet Success F1

## More Slicing Cucumbers

**2895U Slice More F1** 62 days. Mid-early. Smooth, deep green, 8.5", with desirable L/D ratio. Has demonstrated excellent yield potential in commercial plantings. Predominantly female flowering; contains a pollinator. A proven, consistent performer. Resistant S, Tolerant A 1,3, CMV, DM, PM. Fresh Mkt, Regional Shipping, Garden.

**2905 & 2905U SV 4719 CS F1** 56 days. High % super selects. Top commercial productivity. Large refined, blocky slicer with superb disease package. Vigorous vine with potential for high yields of 8"x 2.25" fruit. Dark green, smooth, glossy spineless exterior and great eye appeal. Very small seed cavity. Gynoecious flowering. Can be grown open field or trellised. Resistant A, ALS, DM, PM, S, ZYMV Fresh Mkt, Shipping.

**2912 Sweet Success F1** 55 days. Greenhouse-type parthenocarpic cucumber also performs well in the garden (sets fruit without pollination). Medium green, smooth, high-quality fruits grow 12-14". Grow on stakes or trellis. Sweet, crisp flesh, tender skin. Tolerant CMV, S. Fresh Mkt, Greenhouse, Garden.

**2918U Swing F1** 62 days. American Slicer in fruit shape & color, but parthenocarpic -- able to produce "seedless" fruits when isolated from pollen. Robust plants. Deep green, slightly glossy skin, smooth cylindrical shape, 8-9" x 2-2.5" diam. Bitter free fruit with small core of soft ovules and broad zone of crispy light flesh. Resistant PM, S. Fresh Mkt, Field or Greenhouse Crop.

**2925 Taurus F1** 55-60 days. Japanese burpless-type that produces very uniform, glossy deep green fruit. 8-8.5" x 1". Monoecious flowering habit, with a medium number of female flowers. Suitable for both greenhouse and open field production, best sown March - July. Great bitter-free taste. Tolerant DM, PM. Fresh Mkt, Shipping.

## Burpless

Handsome slicing types with reduced bitterness in their genetic makeup, these fruits have more tender skins which are believed easier to digest than regular cucumbers. Very popular with Fresh Mkt.

**2837 Diva F1** 58 days. Seedless parthenocarpic cucumber. Sets abundantly without pollination and stays seedless if not interplanted with other cukes. Fruit is smooth and spineless, glossy bright green, slender and cylindrical with slightly tapered ends. Non-bitter trait is unattractive to cucumber beetles so this pest is less likely to carry CMV onto the crop. Can also be sold as mini cukes if picked at 4". Resistant S, Tolerant DM, PM. Fresh Mkt, Shipping, Roadside, Gdn.

**2902 Summer Dance F1** Extra fine quality, uniform fruit with glossy deep green exterior. Interior is classic Japanese Burpless type with very small seeds and small narrow core. Vigorous vines with multiple lateral breaks, combined with strong mildew resistance and tolerance for heat, provide potential for high yield. Resistant DM, PM. Tolerant TLS. Fresh Mkt, Fancy Pack, Wrapped.

**2922 & 2922U Tasty Green F1** 52 days. Burpless type produces long, slender, smooth-skinned fruits. Early, heavy yields; long harvest. Best at 9" x 1" but holds at larger sizes. Tolerates high temperature and humidity. Resistant PM, Tolerant DM. Fresh Mkt, Garden.

**2827U Calypso F1** 56 days. Uniform, dark-green, blocky fruits have a length-to-depth ratio of 3:1; white spined. Introduced by NC Agricultural Experiment Station. Tolerant A, ALS, CMV, DM, PM. Fresh Mkt, Processing.

**2828U Carolina F1** 55 days. Deep green refined 3" pickler for commercial pickles or fancy baby slicers. Mid long vines are easy for hand picking. White spines. Excellent 6-way disease package for high potential yield. Resistant PM, DM, ALS, CMV, A. Tolerant S.

### Parthenocarpic, or "Seedless" Varieties:

These varieties are able to produce fruit without pollination. When grown in isolation from other varieties, the ovules do not develop into seed, but remain soft and light colored, enabling the production of fruit with "seedless" flesh. Since seed are not set, fruit quality can last longer on plant and in storage, and the flesh can resist developing bitterness associated with mature seed.

Cat#	Cucumber	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
2827U	Calypso	3.85	5.40	18.40	31.65	56.65	46.00	41.70
2828U	Carolina	2.85	4.30	14.50	25.00	42.75	34.55	33.00

Cat#	Cucumber (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)
2837	Diva	3.65	4.00	16.00	23.50	20.80	18.25
2895U	Slice More	1.90	2.70	9.70	15.60	14.15	12.90
2902	Summer Dance	4.00	12.15	48.60	83.00	63.45	53.35
2912	Sweet Success	12.25	32.30	129.40	209.35	189.00	170.20
2918U	Swing	3.00	8.00	32.15	51.95	46.90	42.30
2905 & 2905U	SV 4719	3.00	8.00	32.15	51.95	46.90	42.30
2922 & 2922U	Tasty Green	4.15	6.75	23.80	34.95	31.75	28.85
2925	Taurus	2.95	9.00	36.70	62.00	55.00	50.45



## More Pickling

**2830 Citadel F1** 52 days. Classic mid size gynoecious pickler, bears loads of blunt deep green fruit. Mid size vines with semi-distributed fruit setting pattern that lends itself well to hand picking. Fruit at maturity are 3.6" X 1.2", a classic 3-1 L/D ratio. Strong disease package allows for high yield potential with less frequent spraying. Pollinator included. Resistant DM, PM, Resistant A 1, ALS, CMV S. Fresh mkt, Processing.

**2835 Diamant F1** 45 days. Seedless (Parthenocarpic) bitterfree pickler. Sets abundantly without pollination and stays seedless when not interplanted with other cukes. Fruit develops with 3.1:1 ratio of length to diameter, straight, cylindrical, dark green, with rounded ends. Crispy sweet and tender. Nonbitter trait is unattractive to Cucumber Beetles so this pest is less likely to carry CMV onto the crop. Compact vine with strong, lateral shoots. Can also be sold as gourmet mini cukes if picked at 3-4". Resistant DM, PM. Pickling, Fancy Pack, Fresh Mkt.

**2863 Gherking F1** 50-55 days. European gherkin type pickler. Very high quality eating both fresh or pickled. Parthenocarpic, bitterfree, 3-5", 1-1.25". Tender-skinned crispy fruit can be grown "seedless" for extra fine table quality. Strong disease package and vigorous vines covering 4-6 ft enable high yield potential. Well adapted to tunnel, trellis or open ground. Nationally promoted through consumer channels. Resistant CMV S. Tolerant DM, PM. Fresh Mkt, Garden Ctr Sales, Pickling, Restaurant. Southeast, Mountain/Southwest.

**2891U Pick A Bushel F1** 50 days. Semi-bush plant spreading about 2 ft across, bears high yields of crisp sweet medium green picklers. Excellent durability through hot weather. Can be picked at gherkin stage for baby cukes or at spear stage for processing. Can be planted with close spacing for high yield per acre or grown in basket for garden sales. Tolerant CGMMV CMV S. Fresh Mkt, Processing, Bedding Plant Sales. Heartland, Great Lakes.

**2935 Vlasstar F1** 52 days. Vigorous plant with blocky medium dark green fruit and white spine. Perfect for hand picking as plants continuously set new fruit. Excellent processing quality. Fruit length/diameter (L/D) ratio 3:1. Plant type indeterminate, medium. Adaptable for sustained multiple harvest production programs. Potentially high yields. Tolerant A, ALS, CMV PM, S. Fresh Mkt, Processing.

## Specialty

**2881U Lemon** 60-70 days. OP Heirloom variety with a unique lemon color and shape. Great flavor and crunchy texture with non-bitter skin. High yield potential of 2-3" fruit, a perfect size for a single serving. Great for pickling and slicing. Rust and drought resistant. Novelty sure to sell at fresh markets.

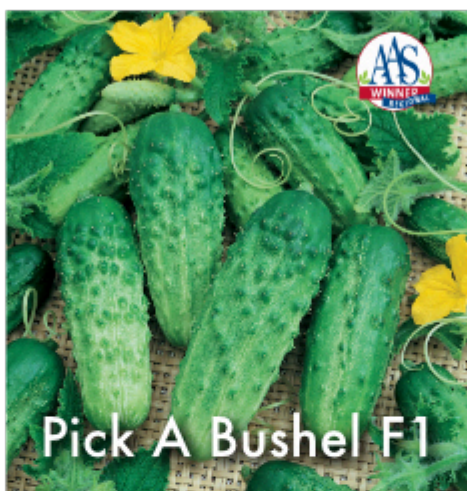
**2888 Martini F1** 55-60 days. Bright white interior is bitterfree, non-yellowing small seeded, very sweet and crunchy. Extra tender, no-peel skin is a pale chiffon green color, providing unique table quality. Fruit are straight cylindrical. Harvest fruit at 5-6" long with 1.5-2" diam for gourmet quality. Vigorous vines with 4-6 ft spread keep bearing throughout growing season and provide good sun protection for unblemished fruit. Nationally promoted through consumer channels. Resistant PM. Fresh Mkt, Garden Ctr Sales, Restaurant.



**Diamant F1**



**Citadel F1**



**Pick A Bushel F1**



**Gherking F1**



**Vlasstar F1**



**Martini F1**

Cat#	Cucumber	% oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	25 lb (per lb)
2881U	Lemon	1.85	2.85	9.80	16.80	30.20	27.55	25.65
2891U	Pick A Bushel	1.90	11.20	38.40	66.30	117.70	108.45	101.40

Cat#	Cucumber (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)
2830	Citadel	1.70	2.35	7.25	11.75	10.95	10.15
2835	Diamant	3.65	10.95	44.00	60.20	54.35	48.95
2863	Gherking	3.00	9.15	36.60	55.15	49.80	44.85
2888	Martini	3.95	10.45	42.00	67.95	61.35	55.30
2935	Vlasstar	1.80	2.80	6.70	9.30	8.55	8.00

**To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)**





**Rhapsody F1**



**Night Shadow F1**



**Millionaire F1**

## Eggplant

(*Solanum melongena esculentum*)

About 6,500 sd/oz. Hybrid pkts 100 seeds; OP packets produce about 75 plants; 4 oz produces about 10,000 plants. Seeds germ in about 10 days. Set plants 18-30" apart in rows 24-48" apart. **Days to maturity are from transplant.**

**2949 Black Beauty** 72-85 days. OP Heirloom. Popular standard. Large, black oval fruit, 6.5" x 5", can be picked at sizes from 1-3 lb. Bushy 2' plant spreading to 30". Good yield in northern areas provided long frost-free season. Fresh Mkt.

**2955U Black Shine F1** 70-75 days. Beautiful obovate bell shape, 7-8" x 4" at base, narrowing slightly to about 3" at stem end.

**2975 Fond May** 77 days. Rich glossy purple fruit and calyx with tender white flesh. Ten-inch cylindrical fruit averages 6 oz. This is the popular long, thin oriental type. Tolerance to bacterial wilt makes it suitable for southern production. Fresh Mkt, Gdn, Roadside.

**2977 Gaudi F1** 75 days. Shiny deep black fruit keeps beautiful color until the end of harvest season. Bright green calyx is usually spineless, with a few spines under stress conditions. Firm fleshed, 7-8" long obovate fruit are bell shaped, slightly broader at 4" base, narrowing smoothly to about 3" at stem end. Trials indicate great potential for high yield of top grade fruits. Excellent hot set capability. Widely adaptable, works well in greenhouse production or in open field. Fresh Mkt, Shipping, Garden Ctr Sales.



**Black Beauty F1**

**3002 Money Maker No. 2 F1** 60 days. Very early, high yielding Japanese type fruits averaging 8 oz. Semi-upright plants produce glossy black, long oval fruits with purple calyx. Excellent fruit taste, very tender and juicy. Ideal for ghs and outdoor production. Fresh Mkt, Home Gdn.

**2997U Millionaire F1** 63 days. Very early, high quality Oriental type produces very attractive, long narrow fruits with purple calyx. Fruit color glossy black. Upright plant 25-30". Fresh Mkt.

**3003 Night Shadow F1** 68 days. Classic oval bell shape 7" x 4". Vigorous strong 3' plants with potential for high yield. Firm glossy black fruits maintain rich color through harvest season. Best replacement for Black Bell and Black Bell II. Fresh Mkt, Shipping.

**3012U Purple Comet F1** 55 days from transplant. Long-fruited Asian type with bitter-free white flesh and very slow seed development. Deep purple fruit is long & slender. 1.5"-2" in diameter, reaches up to 18" and can be harvested from 8" up. Strong upright plants produce big yields, reach 33" tall, holding the long fruit well above soil. Best sub for Fond May.

**3004 Rhapsody F1** 80 days. Parthenocarpic eggplant, the first we've seen in commerce. Able to produce fruit without pollination, and when grown in isolation from other eggplant varieties, the ovules do not develop into seed, but remain soft and light colored, enabling the production of eggplant with "seedless" flesh. This variety should be tested for introduction of extra-high quality fruit. Since seed are not set, fruit quality should tend to last longer on plant and in storage, and the flesh would resist developing the bitterness associated with maturing seed. Fruit are oblong, avg. 8" x 4", with deep black-purple skin and green calyx. Flesh is firm, sweet and capable of very high quality. Fresh Mkt, Restaurant, Shipping.

### Specialty Eggplant

**2957 Casper** 72 days. Shiny ivory fruits with mild snow white flesh and bright green calyx. Cylindrical fruits average 6 x 2.5" at picking stage. Plant has very few spines so fruit is easily picked without marring.

**3005U Rosa Bianca** 75-85 days. Gorgeous Italian heirloom. Produces medium-sized 5-8", roundish-shaped fruits. Unique, striped coloring of stunning, light pinkish-violet with occasional creamy white shading. Prized by gourmet chefs for its incredible delicate, non-bitter flavors. Plants are 30" tall.

**3015U White Star F1** 55 days. Classic, tapered teardrop shape. Creamy white, 5-7" fruits are smooth when mature with 2" at top and 3.5-4" at bottom. Plant provides good coverage at 30-36". High yield potential.

**Gourds listed on page 28**

Cat#	Eggplant (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)
3004	Rhapsody	8.00	24.15	97.15	164.80	146.00	133.95

Cat#	Eggplant (M=1000)	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)
2949	Black Beauty	1.65	2.15	3.00	2.65	2.20	
2955U	Black Shine	2.75	10.00	15.90	13.20	11.65	
2957	Casper	1.65	2.55	4.15	3.40	3.00	
2975	Fond May	2.20	3.15	4.85	3.75	3.20	2.55
2977	Gaudi	14.90	55.90	89.50	75.00	65.80	
2997U	Millionaire	3.00	11.25	17.95	15.25	13.50	12.50
3002	Money Maker NO. 2	2.55	9.70	15.50	12.70	11.00	
3003	Night Shadow	4.20	16.45	26.00	20.70	18.00	
3012U	Purple Comet	1.75	3.50	5.15	4.45	3.90	
3005U	Rosa Bianca	1.65	2.50	4.00	3.35	2.95	
3015U	White Star	1.95	4.00	6.15	5.15	4.65	



## Greens Mixed Greens

**3017U Gourmet Salad Blend** A mixture of 5 fine-flavored leaf lettuces custom blended, tested and recommended by market growers and chefs in the California production region. Contains 20% each of Red Romaine Silvia, Lolla Rossa Darkness, Red Oakleaf, Buttercrunch, Green Salad Bowl. Fresh Mkt, Restaurant Specialty, Bedding Plant, Bowl Planters for Gdn Ctr Sales.

**3019U Mesclun Mix** A mix of classic salad herbs and lettuces, custom blended to achieve the classic flavor of the French original, and for ease of growing together from seed. Contains 17% each of; Lettuces Buttercrunch, Lolla Rosa Darkness, Romaine Vivian, Arugula, Basil Spicy Globe, Cress Wrinkled Crinkled. Fresh Mkt, Restaurant Specialty, Bedding Plant, Bowl Planters for Gdn Ctr Sales.

**3020U Mustard Braising Greens Mix** Specialty mix of Mustards and Arugula. Custom blended to provide a range of colors, textures and flavors in this trendy category. Good material for multiple "cut & come again" harvest. Contains 17% each of Mustards; Green Wave, Red Giant, Mizuna, Mizuna Red Streak, Mibuna, plus Arugula. Fresh Mkt, Mixed Salad Cello, Restaurant Specialty, Edible Color Bowl Sales.

**3023 SimplySalad® Alfresco Mix** [Multi Species Multi Seed Pellet] 12"; Convenient & easy to grow. Each 'Simply Salad'® pellet contains mixed greens. Includes various lettuces, arugula, endive, & radicchio. Sow one plug or direct to 8" container.

**3024 SimplySalad® Summer Picnic** (formerly *Endless Summer*) [Multi Species Multi Seed Pellet] 12" spreading 12"; Each pellet contains seed of both red and green lettuce, all heat tolerant varieties for extended harvest in container garden. Each pellet should produce 3 or more seedlings, enough to fill an 8" planter by sowing just one pellet. For ornamental edible container gardens.

## Specialty Greens

**5213 Arugula Astro** (*Eruca vesicaria astiva*) Approx. 13,000 seed sds/oz. 31 days clipping, 52 days bunching. Mid green leaves only slightly lobed lend a fresher, younger leaf look. Vigorous. Zesty, nutty flavor. Clip at 6", bunch 12".

**5214U Arugula [Rocket] Slow Bolt** Approx. 17,000 sds/oz. Holds in field 10 extra days; outyields other Rockets.

**2812U Corn Salad [Mache]** (*Valerianella locusta*) Approx. 11,000 seeds/oz. European favorite. Harvest leaves up to 3" for spring salads. Sow every 2 weeks; tolerates warm conditions. Ht. 1-1.5'.

**1277U Pea Parsley** 24 days to side shoot clipping. 60 days to pea pod harvest. Produces bunches of small delicious leaves with sweet pea flavor on tender branching tendrils which are clipped and used in the specialty greens markets. Sweetest when clipped young. Both clipping and pea harvest can be had by waiting for mature pods and harvesting both. The leafy tendrils will continue to be produced. Vines stand 24-32". Also featured on pg 41.

**4344 Tatsoi Oriental Green** (*Brassica rapa narinosa*) 45 days full size. Rosette 1" spreading to 12". Deep emerald green. Glossy spoon shaped leaves, tender flavor for salad mixtures. Grows like Chinese Cabbage.



SimplySalad®  
Alfresco Mix



Arugula Astro



Rocket



Gourmet Salad  
Blend

Cat#	Arugula	1/64 oz	oz	¼ lb	½ lb	1 lb (per lb)
5213	Astro	1.70	3.00	10.40	17.50	30.60
5214U	(Rocket) Slow Bolt	1.90	3.20	4.35	8.15	13.85

Cat#	Corn Salad	1/16 oz	oz	¼ lb	½ lb	1 lb (per lb)
2812U	Large Seeded (Mache)	1.65	2.45	8.25	13.85	24.25

Cat#	Greens	1/64 oz	½ oz	oz	¼ lb	½ lb	1 lb (per lb)	5 lb (per lb)
3017U	Gourmet Salad Blend	1.80	2.95	4.85	17.35	31.15	57.15	53.00
3019U	Mesclun Mix	1.80	2.95	4.85	17.35	31.00	56.75	53.00
3020U	Mustard Braising Mix	1.80	2.95	4.85	17.35	31.00	56.75	53.00

Cat#	Greens (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)
3023	SimplySalad Alfresco Mix	4.20	10.30	47.00	85.45	72.35
3024	SimplySalad Summer Picnic Mix	4.20	10.30	47.00	85.45	72.35

Cat#	Pea	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)	50 lb (per lb)	100 lb (per lb)
1277U	Parsley	11.00	16.90	26.25	21.00	16.65	13.75	11.25	8.75

Cat#	Tatsoi (M=1000)	200 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
4344	Oriental Green	2.00	2.80	1.75	1.00	0.60	0.25

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





Harvest Wings F1



Lunch Lady



Bird House Bottle



Small Assorted Mix



Speckled Swan

## Gourds (Cucurbita Pepo ovifera)

Annual cucurbits grown much like winter squash. Large: 100-300 seeds/oz.; Small: 300-900 seeds/oz. Direct sow seeds after danger of frost where they are to remain. Seeds germ in 5-7 days at 75-80°F. Best on a trellis in full sun. Do not thin seedlings as brightest colors may sprout slowest. Harvest when fruits are fully mature but before frost, and dry several weeks; can be varnished. 10-12' vines. **Days to maturity are from**

### Large Seeded Gourds

**5004U Bird House Bottle** 95-110 days. Mostly 10-12". Smooth shells can be dried for used as bird house or water jug.

**5011U Caveman Maranka** 130 days. Club shape with large swollen end and curious random ridges.

**5025 Large Assorted** Various sizes, shapes and colors. For birdhouses, dippers, ornaments.

**5032 Luffa** Grown for its fibrous flesh. Harvest at 2" for baby vegetables. Harvest after 90 days for sponges.

**5034U Lunch Lady** 110 days. Unique LARGE WARTED gourd mix. Broad range of shapes, colors and patterns, all with sizable fruit in the 3-10 lb. range, all with hard shells and warts. Strong, heavy vines.

**5036U Martin Bird House** The genuine Martin Hard, smooth tan rind with fat oval base and tapered top creating a double balloon shape. Most are 14-16" x 10-12". Dries and hollows out well and holds up well outdoors if cured properly. Birdhouse, Decorative, Cornucopia.

**5088 Speckled Swan** Long elegant swan, oval base bearing a goose neck with a head at end.

### Small Seeded Gourds

**5021U Harvest Wings F1** 95 days. Approx. 350 seeds/oz. Multi-color mix, many types with very prominent wings and other strange shapes.

**5060U Small Assorted** Beautiful patterns, colors and shapes; smooth and warted skins. For table decorations, fresh or dried.

Cat#	Gourd	¼ oz	½ oz	oz	¼ lb	½ lb	1 lb
5011U	Caveman Maranka	2.15	4.25	6.75	20.15	30.25	55.45
5021U	Harvest Wings	2.85	6.75	10.95	38.70	68.55	125.80
5025	Large Assorted	2.80	4.60	7.45	19.65	31.30	54.80
5032	Luffa	3.90	5.45	9.30	29.15	48.35	82.40
5034U	Lunch Lady	3.25	8.95	14.35	46.95	83.55	159.25
5036U	Martin Bird House	2.65	4.15	5.45	18.00	28.50	52.50
5060U	Small Assorted	2.90	6.50	7.30	17.60	27.90	49.70
5088	Speckled Swan	2.25	3.30	6.55	18.40	28.80	54.90



# Kale

(*Brassica oleracea*, *Acephala* Group)

Approx. 9,000 seeds/oz. Pkt plants 30' of row; ¼ oz sows 100'. Direct sow 2-4 lbs/acre. Sow seeds ½" deep, 18-24" apart in rows 24-36" apart. Seeds germ in about 10 days. An attractive, durable fresh/raw garnish and highly nutritious greens. Days to maturity are from sowing.

**3028U Black Magic** 25 days baby leaf, 60 days mature leaf. Upright rosette habit for easy, clean harvest. Improved winter hardiness. Long narrow dark blue-green leaves with white spine on lower surface. Leaf is intensely blistered and crinkled for a wonderful eating texture. Cold resistant and bolt tolerant. This is improved breeding of the heirloom "Cavolo Nero" type. Fresh Mkt, Specialty Restaurant.

**3029U Blackjack F1** 25 days to baby leaf, 60-90 days to mature leaf. First F1 Hybrid among Tuscan Kales. More uniform for narrow, darker, well textured leaves. Sturdy stalks perfect for bunching also resist wind damage better. Compact upright rosette habit for easy, clean harvest. Can stand tougher weather than o.p. varieties, with improved resistance to cold weather and bolting, providing opportunity for higher yield and suitability for machine harvest. Leaf is intensely blistered and crinkled for a wonderful eating texture. Fresh mkt, Restaurant, Specialty Cut Mixed Greens.

**3032 Blue Armor (Winterbor) F1** 47-57 days. Outstanding hybrid Vates type. Attractive, very deep blue-green leaves are extremely curled and fringed; wide petiole spacing makes harvest easier. High yield potential on strong growing, uniform plants. May be suitable for over-wintering.

**Very limited supply.**

**3037 Blue Knight (Darkibor) F1** 45-55 days. Outstanding hybrid Vates type replaces plantings of standard Vates. Earlier, stronger, more uniform and higher yields. Deep blue, firm, curly leaves have less tendency to yellow and hold up well when cut. Uniform, strong grower. Yields 7-8" stalks in just 45 days; larger plants in 55 days. Will out yield OP types by 50% Spring or Fall planting.

**3070U Casper** 30-35 days baby leaf, 50-55 days full leaf. Sweetest tasting Kale in British trials. Deep green with frilly edges and broadly colored white ribs. Ornamental and edible. 18"x 12-14" at full leaf stage. Cold resistant and slow bolting under normal weather conditions. Fresh Mkt, Bunching, Baby Leaf, Bedding Plant.

**3045U Lacinato** 50-60 days. Unique heirloom type. Strap-like blue-green leaves 10" x 3". Deeply savoyed and crinkled. Edible ornamental; flavor is enhanced by frost. Extremely winter hardy. Sometimes called "dinosaur kale". Fresh Mkt, Specialty.

**3051 Prizm F1** 50-60 days. Densely branching plants sufficiently compact for container cultivation but also adapted to open ground. Short, tightly ruffled foliage is clean green, tightly ruffled and tender. Flavor unusually mild with nutty overtones. Aggressive re-leaving after cut, for early and prolonged harvest. Keeps mild flavor throughout growing season. Less likely to lodge because of low profile. Fresh Mkt, Garden Ctr Sales, Restaurant.

**3052 Red Bor F1** 47-57 days. Unique dark red. Similar to Blue Armor except for color. Tall standing habit, overwinters well, bolt tolerant, deeply fringed and curled. 2'. Extremely productive. Fresh, Ornamental, Salad, Shipping.

**3057 Red Russian** 25 days baby leaf, 50 days mature leaf. Red leaves, crisp and curly, cold hardy, for winter harvest.

**3060 Blue Ridge F1** 28 days baby leaf. 60 days mature leaf. Best sub for Blue Armor when needed. Heavy yields of deep blue-green leaves with full curl all over. Mid-season maturity, extended harvest. Very slow to bolt or stretch. Widely adapted to all cool-season crop growing areas. Plants can be sold as ornamental edible containers.

**3065 Roulette** 30-35 days baby leaf, 50-55 days full leaf. Frilly edged blue green leaves with broadly colored red ribs. Grows to 20-24" x 14-18" inches at full leaf stage. Cold resistant and slow bolting under normal weather conditions. Ornamental and edible. Cut leaf, Bunching, Bedding Plant, Specialty Restaurant.

**3067 Scarlet** 35-40 days baby leaf, 55-60 days full leaf. Vigorous plant, grows 2-3 ft tall x spreading 2 ft. Deeply frilled fronds start out deep purplish green with dark purplish red veins and stems. Matures to deep purple red all over as cooler weather begins. A longstanding, hardy plant that may last into winter in mild areas. The leaves spread broadly like a parasol atop the deep purple stems. Ornamental and edible.



Prizm F1



Blue Knight F1



Black Magic F1

Cat#	Kale	¼ oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)
3045U	Lacinato	2.00	3.65	12.50	21.55	38.50	35.20	32.90
3057	Red Russian	1.65	2.20	7.55	13.00	23.25	21.25	19.90

Cat#	Kale (M=1000)	100 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
3028U	Black Magic	2.00	4.15	3.30	2.80	2.50	2.25
3029U	Blackjack	2.25	17.15	13.80	11.55	10.35	9.45
3032	Blue Armor (Winterbor)	5.15	38.00	30.85	25.90	23.00	21.20
3060	Blue Ridge	2.25	17.00	13.70	11.60	10.30	9.45
3037	Blue Knight	3.30	25.40	20.60	17.45	15.35	14.15
3070U	Casper	2.00	9.55	7.70	6.55	5.75	5.30
3051	Prizm	3.65	27.75	22.30	19.00	16.85	15.40
3052	Red Bor	13.00	98.00	79.00	67.15	54.65	50.00
3065	Roulette	1.70	9.80	7.90	6.75	5.95	5.45
3067	Scarlet	2.00	7.90	5.95	5.00	4.45	4.15

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)

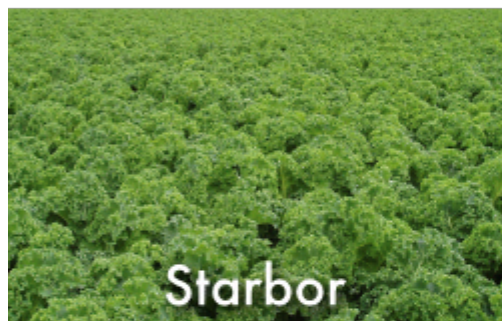




Konan F1



Quickstar



Starbor



Vates

## More Kale

**3068 Starbor F1** 55 days. High leaf volume in small space, the most densely branched Kale available. At just 12-18", due to short internodes, yields like much taller varieties in the same area, with better durability against wind and cold damage. Finely curled leaves about 10-12" inches, extra dark blue green vs all others of this type. Fast, vigorous regrowth after harvest or stripping, continued harvest up to heavy freeze. Fresh Mkt, Bunching, Processing.

**3062U Vates** 55 days. Well-known variety with attractive, curled leaves which resist yellowing. Upright hardy plants. (Blue curled scotch).

## Kalette®

**2211U Autumn Star F1** 180 days. Kalette® is a cross between Kale and Brussel Sprouts, created using traditional breeding methods (non-GMO). A 4ft tall stalk develops but instead of sprouts, a miniature kale head about 2" across buds out at each node. These are harvested from Sept/Oct onward until hard freeze. High vigor, high yield potential. Delicious sweet and nutty flavor. Highly nutritious. Red-Green bicolor. Plants are quite ornamental as well. Fresh mkt, Restaurant, Novelty.

## Kohlrabi

(*Brassica oleracea*, *Gongylodes* Group)

Approx. 9,000 seeds/oz. Pkt plants 30' of row. Direct-sow 2-4 lbs/acre. Sow seeds 1/2" deep, 18-24" apart in rows 24-36" apart. Seeds germ in about 12 days. **Days to maturity are from sowing.**

**3081 Konan F1** 50 days. Smooth globe shaped "bulb" has pure white interior with sweet flavor and excellent crispy texture. Maintains good non-pithy quality up to 6'. Upright uniform leaf stalks, 10" at small-bulb harvest, 24" at full maturity, hold foliage well held away from ground, reducing likelihood of insect damage. Plant spreads only 10", adaptable to container culture or plant sales. Fresh Mkt, Garden Ctr. Restaurant.

**3080 & 3080U Quickstar F1** 50 days. Early maturing, slow bolting. Beautiful, smooth bulbs are pale green with mild sweet flavor, flat round shape, very uniform in size & maturity.

## Kohlrabi

**3082 & 3082U Winner Improved F1** 55 days. Mid-early. Large green knob, upright, resists pithiness. Best substitute for Grand Duke when needed.

## Tronchuda Leaf Cabbage

**2215 Beira Tronchuda** 85 days. Special type of loose-leaf cabbage. Interest in this traditional type has grown recently. Wide spreading leaves are deep green with thick, white, fleshy ribs, sweet and tender, a welcome component to the greens market. Good for juicing. Fresh Mkt, Greens, Grocers, Mixed Salad, Novelty.

## Leek

(*Allium ampeloprasum*, *Porrum* Group)

Approx. 11,000 seeds/oz. Pkt plants 30' of row; 1/2 oz sows 100'. Direct sow 3-4 lbs/acre. Sow seeds 1/2" deep, 1-4" apart in rows 16-24" apart. Seeds germ in about 10 days. **Days to maturity are from sowing.**

**3098 Exeter F1** 95-105 days. Productive hybrid, with attractive dark foliage. Early and bolt tolerant. Strong basal 1" diam shaft grows to 6" or longer depending on depth of trench or hill. Abundant 12" flag leaves above develop a deep bluish green color. The base of shaft tends not to bulb at maturity, an added benefit of this variety. Resistant Rust. Fresh mkt, Home Gdn, Specialty.

**3095 Giant** 98 days. Fast growing for early harvest with stalks reaching up to 15" tall at maturity. Bright white shafts with lovely mild flavor. Vivid mid-green flag leaves. Can be planted in both fall and spring for year-round harvest.

**3099U Zermatt** 85 days. Very early among OP Leeks, which has created great demand in baby leek mkt. Attractive. Long shaft with erect light green leaves. Extended white zone at base of shank.

## Leek Disease Codes

R Rust

Cat#	Kale (M=1000)	100 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)	
3068	Starbor	3.45	25.55	20.55	17.45	15.35	14.15	
Cat#	Kale	¼ oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)
3062U	Vates	2.30	2.75	9.90	16.85	30.30	27.80	25.85
Cat#	Kalette® (M=1000)	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)	
2211U	Autumn Star	24.70	93.45	150.55	127.70	113.15	103.85	
Cat#	Cabbage (M=1000)	200 sds	1000 sds	5 M	10 M (per M)	50 M (per M)	100 M (per M)	
2215	Beira Tronchuda	6.80	25.55	20.50	15.35	14.35	13.90	
Cat#	Kohlabri (M=1000)	100 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)	50 M (per M)	
3081	Konan	7.50	28.00	45.00	38.15	33.80	31.00	
3080&3080U	Quickstar	2.45	8.60	13.90	11.80	10.35	9.60	
3082&3082U	Winner Improved	2.45	5.25	8.40	7.25	6.25	5.80	
Cat#	Leek (M=1000)	100 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)	50 M (per M)	
3098	Exeter	5.35	20.20	32.55	27.55	24.50	22.45	
3095	Giant	1.55	3.30	4.95	3.00	2.15	1.15	
3099U	Zermatt	2.70	4.40	7.15	6.15	5.45	5.00	



# Lettuce (Lactuca sativa)

Approx. 25,000 seeds/oz. Pkt plants 30" of row; ¼ oz sows 100'; 1 oz. produces approx. 10,000 plants. Direct-sow 1-3 lbs/acre; sow seeds thinly ¼" deep. Seeds germ in about 7 days. Set head types 10-15" apart in rows 16-24" apart (leaf types 8-12" apart in rows 12-24" apart). **Days to maturity are from sowing.**

Some lettuce varieties listed are Mosaic Indexed Seed (M.I.). A sample of 30,000 seeds or seedlings was tested and found free of lettuce mosaic virus infection. However, no seed lots are guaranteed disease-free.

## Butterhead Type

**3108U Buttercrunch** 20-75 days. Butterhead Bibb type. Slow bolting, long lasting, heat tolerant, with compact cream-yellow heart. 12". Rosette 4-5". Sturdy rosette of thick deep green red-tinged blistered leaves. White seeded. Mosaic free. Fresh Mkt.

**3144U Speckles** 45-55 days. Amish heirloom. Lime-green leaves flecked with red-brown speckles on leaf form a dense bibb-like head with a blanched yellow-green heart and sweet flavor.

## Cos/Romaine Type

**3134U Osterley** 20 days baby leaf. 45 days mature leaf. Broad mildew resistance. Thick, crunchy dark green cos leaf with teardrop shape, good weight, slightly blistered and cupped, providing good leaf volume for bag fill. Very good material for baby leaf production. Vigorous upright habit for easy harvest. Good bolt resistance. Tolerant DM 1-13, 15, 17-19, 22, 24, 25, 27-31. Fresh mkt, Baby leaf, Romaine bunching head.

**3137 Parris Island Cos PVP** 71 days. Selection of the popular mkt-type Romaine. Tall, narrow heads with crisp, sweet leaves produce creamy yellow centers. Adapted to North, South, East and West. Vigorous, uniform.

**3152U Vivian** 28 days baby leaf, 50 days mature leaf. Non-heading Romaine with crisp leaves up to 12" x 4" at maturity. Bolt resistant. If harvested as leaves, provides a continual supply of greens over an extended period. Excellent for baby leaf production. Fresh Mkt, Restaurant.

**3148 Taboo** 65 days. Very attractive, intense deep burgundy chocolate leaf color and nicely rounded smooth broad oval leaves at top, slightly serrated at the base, with deep green ribs. Great item for spring salad mixes. Very uniform habit and color. Height at first mature 6-10", reaching 12-15" at full maturity.

## Iceberg Type

**3133 Meridian** 69 days. The first Iceberg ever available with field tolerance to Fusarium Race 1. Large uniform heads and good bolt tolerance.

**3154U Webb's Wonderful** 65-88 days. Crisphead type. Produces large, solid crunchy white hearts with good flavor. Crisp and tender, with rumpled leaves and glossy deep green wrappers. Slow bolting even in warm weather. Holds well at market harvest stage. For cool seasons in South or all summer North.

## Leaf Types

**3132 New Red Fire M.I.** 48 days. Medium/large dark red heads having excellent uniformity in size and color. Leaf-type is red-tinged, ruffled with waxy margins. Slow bolting. Fresh Mkt, Specialty Mkt.

**3138U Red Sails** 40-65 days. Full rosette of intense red foliage, bronzed at tips, extra ruffly and deeply lobed. Flavor is mild, tends to be free of bitter tones. Reaches cutting quality early but holds well up to cutting. Good shelf life. High content of Vitamins A, C.

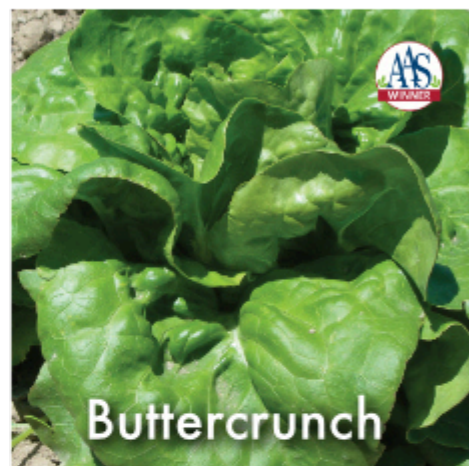
**3142 Simpson Elite** 40-65 days. Slow bolting. Very early and adaptable. Attractive, broad and crumpled leaves with curled outer leaf margins. Large leaves are light green. Inner leaves blanch to almost white. Large upright plants stand warm and dry weather as well as some frost. Fresh Mkt, Shipping.

**3150U Tango** 28 days baby leaf, 40 days mature leaf. Dense rosettes of ruffly, pointed deep green leaves. Tight erect habit. Very uniform in habit & timing. Tender tangy flavor. Best sub for Green Wave when needed.

**3153U Vulcan** Mid-early. Slightly frilly leafage has brilliant red color over a soft green background. Vigorous and uniform, holds well in field and remains weight well after harvest. Packs out well from field and shows a more attractive color than other red-leaf types, with good color retention. Ornamental and edible. Tolerant TB. Fresh Mkt, Bunching Baby Leaf, Bedding Sales.

### Lettuce Disease Codes

BR	Brown Rib
DM	Downy Mildew
F	Fusarium
TB	Tipburn

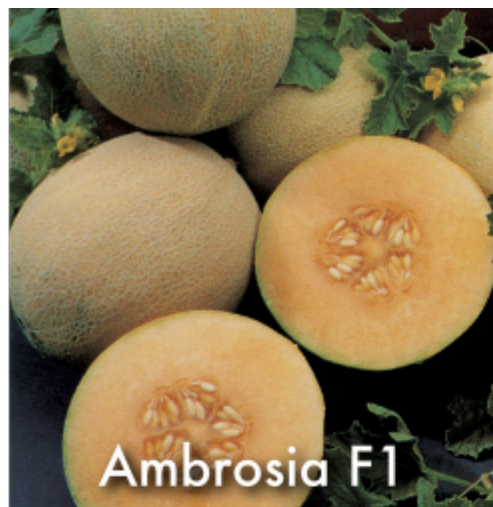


Cat#	Lettuce	1/64 oz	¼ oz	oz	¼ lb	½ lb	1 lb (per lb)	5 lb (per lb)
3108U	Buttercrunch	1.85	2.55	3.55	5.15	9.15	16.55	15.60
3137	Parris Island COS	2.15	2.80	3.95	5.65	10.15	18.40	17.25
3138U	Red Sails	1.80	4.15	6.65	23.00	40.55	65.55	56.65
3144U	Speckles	1.80	2.85	4.75	16.75	29.75	54.80	51.25
3148	Taboo	1.95	7.00	13.00	39.90	78.00	150.00	145.00
3150U	Tango	1.70	2.35	3.90	14.00	25.00	45.75	42.75
3152U	Vivian	1.80	2.85	4.75	16.75	29.75	54.80	51.25
3154U	Webb's Wonderful	1.90	2.85	4.70	16.75	29.85	54.60	51.00

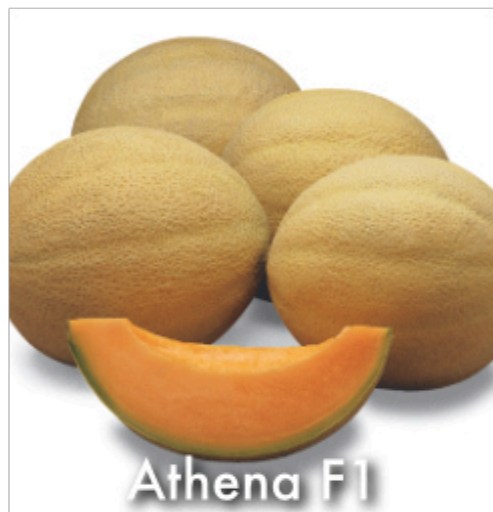
Cat#	Lettuce (M=1000)	1000 sds	5000 sds	10 M (per M)	25 M (per M)	100 M (per M)
3133	Meridian	5.75	21.70	3.45	2.90	2.55
3132	New Red Fire	2.45	6.95	1.25	1.10	1.00
3134U	Osterley	5.65	21.25	3.40	2.85	2.50
3142	Simpson Elite	1.60	3.85	0.61	0.51	0.45
3153U	Vulcan	2.15	8.15	1.30	1.15	0.95

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





**Ambrosia F1**



**Athena F1**



**Duchess F1**



**Avatar F1**



**Carousel F1**



**Aphrodite F1**

**Melon Growers, Note:** We suggest you grow the correct type of melon for your market. Shipping types are especially resilient with lasting quality for long-distance market. They do, however, taste fine if grown for fresh market. The varieties we recommend for local or home garden are best used near where they are grown because they have a softer rind/skin and may not hold as well.

## Melons

(*Cucumis melo*) (Muskmelon)

Approx. 1,200 sd/oz. Hybrid pkts contain 25 seeds; ¼ lb. produces approx. 2,500 plants. Seeds germinate in about 7 days. Transplant 6,000 plants/acre. Set plants 12" apart in rows 60-84" apart. **Days to maturity are from sowing.**



**2369 Ambrosia F1** 88 days. Higher than average sugar content, extra-sweet flavor your customers will come back for again and again. Nearly round fruits average 4-4.5 lbs, 6.5" x 6", with heavy netting and no sutures. Thick, sweet salmon flesh; small seed cavity and very tight seed mass. Tolerant DM, PM. Fresh Mkt, Short distance shipping, Garden.

**2371 Aphrodite F1** 72 days. Athena type with slightly larger fruit, 6-7 lb and 6.5" x 7". Habit is more compact with smaller footprint. Very sweet flesh is smooth, creamy and aromatic with a hint of honey. Thick flesh, strong texture, good shelf life on farm stand or in regional shipping. Rind is well netted, slightly sutured. Got high marks for yield and quality in Eastern and Midwest trials. Resistant FW 0-2, PM 1. Fresh Mkt, Regional Shipping, Garden Plant Sales.

**2374 & 2374U Athena F1** 75 days. Early maturing eastern muskmelon particularly suited to SE, Midwest and Mid-Atlantic mkts. Course netting, small cavity, very firm flesh (5-6 lbs.) Resistant FW 1-2, PM. Tolerant Sul. Fresh Mkt, Shipping.

**2375 Avatar F1** 70-80 days. Uniform extra large 7-9 lb melons with full netting & shallow rind. Classy Eastern type; blocky oval fruit with large, dry, open cavity. Deep orange, very sweet full-flavored flesh is medium firm. Brix ratings at trials have been mostly 11-12, occasionally 13. Especially notable for such early maturity. Resistant FW 0-2, PM 1. Tolerant PM 2. Fresh Mkt, Short Distance Shipping.

**2381 Carousel F1** 80-85 days. 6-9 lbs; Oval Super Star type melons, measure 9.5" x 7" with strong sutures like classical muskmelons. Tight cavity, firm flesh and good sugar for excellent eating quality. Strong vigorous vines and double disease package provide high yield potential. Firm melons and firm internal flesh. Good shipper with lasting quality. Well adapted to outdoor production. Resistant FW 0-2, PM. Fresh Mkt, Roadside, Shipping.

**2386 Duchess F1** 75 days. 5-6 lbs. 14% Brix rating. Big round-oval melon, good shelf life rating, great taste. Heavily netted, lightly sutured, refined Eastern type interior with small, tight cavity and thick flesh, deep orange to rind at maturity. High disease rating can enable consistent high yield potential. Worth testing as Athena type. Resistant FW 0-2, PM 1-2. Fresh Mkt, Roadside, Regional Shipping.

Cat#	Cantaloupe (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	15 M (per M)	30 M (per M)
2369	Ambrosia	7.00	18.40	72.25	105.85	102.65	100.25	97.75	96.15
2371	Aphrodite	7.80	20.65	80.85	128.55	124.55	121.55	118.50	116.55
2374	Athena	7.45	21.00	82.85	131.40	127.45	124.40	121.35	119.30
2375	Avatar	4.85	13.95	54.55	86.60	82.45	78.40	74.25	71.40
2381	Carousel	3.30	9.90	39.00	61.95	58.75	54.80	50.90	48.15
2386	Duchess	3.95	11.15	43.80	69.55	66.00	61.55	57.15	54.00





**Goddess F1**



**Rockstar F1**



**Verona F1**

## More Eastern Types

**2408 El Gordo F1** 75 days. Extra large 10-15 lb fruit are sweet and quite early for such jumbo size. Extra large oval melon with heavy netting, distinct green sutures, and interior cavity that is small in proportion to fruit diameter. Flesh is very sweet at avg 16% Brix, with the excellent, slightly musky flavor of classic Eastern type. Yield avg 3-4 fruit per plant. Can produce giant 20-30 lb show melons if all but the first few fruits are removed at young stage and if given extra deep soil with rich nutrition. Tolerant PM 2, WMV. Fresh Mkt.

**2411 Goddess F1** 68 days. A Wow! Early eastern melon with excellent performance and quality for the extra early market. 6.5" fruit. Average weight 5-6 lbs. Good sugar at 11% Brix. Oval, heavy net, unsutured. Tolerant PM 1-2, FW 0-2.

**2421 Halona F1** 68-72 days. 4-5 lb. 6" globe shape. An improved Earliqueen type, matures a week earlier. Thick, sweet orange fleshed muskmelons. Rinds with heavy netting and distinct sutures. Uniform and productive, with better taste and stronger disease package. Resistant PM. Tolerant FW. Fresh Mkt, Roadside, Garden.

**2485 Infinite Gold F1** 75 day, mid-season maturity. Average weight 4 lb. Bred especially for long shelf life (LSL) great flavor and fruit quality. Strong vines, high yield potential, uniform size and shape. Was rated in 2012 by a third-party sensory analysis panel as higher in flavor and quality attributes than the leading competition. Round oval melons, very light suture, fully netted, with firm deep orange flesh. High % size 9 fruit. Resistant PM 2, FW 0-2. Fresh Mkt, Shipping.

**2428 Milan F1** 72 days. Early Eastern type with distinct sutures and netting. Very sweet and aromatic, avg 13-15% brix. High yield potential of 4-6 lb melons. Breeder's trials found great holdability which can help get the fruit to mkt in great shape; Tight seed cavity and better resistance to cracking than most Eastern melons enhance chance for high production of marketable fruit. Milan performed well even in areas where splitting is a problem. Resistant PM 1-2; FW 0-2. Fresh Mkt, Shipping.

**2440 Orange Sherbet F1** 82 days. Highly aromatic melon flavor & high brix. Tuscan type Eastern shipper produces premium fancy 7-8 lb oval melons with distinct green sutures and netting. Thick bright orange flesh with small cavity of classic triangular shape. These traits plus high fiber content gives a great eating experience and good shippability. An all-around top notch eating melon. Tolerant FW 1-2, PM 2, WMV. Fresh Mkt, Shipping.

**2451 Rockstar F1** 74 days. 5-7 lb. Performed well in trials across NE & SE. Eastern shipper type with outstanding eating quality, consistently firm orange flesh and lightly sutured rind with medium netting. Slightly earlier and somewhat larger melon than Athena, with good shipping and holding ability. Resistant PM 1-2, FW 0-2.

**2479 Verona F1** 75 days. Average weight 6-8 lb, reaching 15 lb under intensive cultivation. A very large Eastern Shipper (Athena) type, excellent for roadside and mid-range shipping applications, with good holding ability. 12% Brix, lightly sutured, medium netted. Great eating quality, very sweet and firm. Resistant FW 0-2, PM 1-2. Fresh Mkt, Regional Shipping.



**El Gordo F1**



**Infinite Gold F1**

### Melon Disease Codes

<b>ALB</b>	Alternaria Leaf Blight
<b>DM</b>	Downy Mildew
<b>FW</b>	Fusarium Wilt & Race #'s
<b>PMV</b>	Potato Mosaic Virus
<b>PM</b>	Powdery Mildew & Race #'s
<b>PRSV</b>	Papaya Ringspot Virus
<b>Sul</b>	Sulphur Damage
<b>WMV</b>	Watermelon Mosaic Virus
<b>ZYMV</b>	Zucchini Yellow Mosaic Virus

Cat#	Cantaloupe (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	15 M (per M)	30 M (per M)
2408	El Gordo	6.20	16.15	63.30	100.50	95.30	88.95	82.60	78.00
2411	Goddess	5.15	14.15	55.60	88.35	83.85	78.20	72.55	68.55
2421	Halona	2.95	8.30	32.60	51.80	49.15	45.85	42.55	40.20
2485	Infinite Gold	11.35	29.25	115.15	171.55	162.95	154.15	145.50	139.50
2428	Milan	4.85	12.90	50.15	79.55	75.50	70.40	65.45	61.80
2440	Orange Sherbet	3.15	8.50	33.55	53.20	50.50	47.15	43.85	41.40
2451	Rockstar	5.15	13.40	52.75	83.65	79.40	74.00	68.75	64.95
2479	Verona	4.95	12.95	50.70	80.45	76.35	71.25	66.00	62.50

**To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)**





Dove F1



Tweety F1



Citrino F1



Earli-Dew F1

## Western Types

**2444 Primo F1** 79 days. Early, large, dark orange flesh. Almost sutureless fruit are heavily netted, with a small dry seed cavity. The colorful flesh is very thick, sweet and flavorful. Fruits average 5-7 lbs. each, 7"x 7.5". Tolerant PM 1-2, Sulphur. Fresh Mkt, Shipping.

## Sensation Series



High quality specialty melons with improved professional production, shipping & shelf-life. These melons are bred for earliness, disease tolerance and high yield.

**2385 Dove F1** 70 days. Early & sweet. Avg Brix reported at 15.5%, near the top for melons. Soft, creamy flesh is white but may show some green near rind at early picking, or rose tinted at center at later picking. Netting is a delicate tracery over green to orange rind. Specialty markets will ask for more.

## Orange Flesh Honeydew

**2480 Citrino F1** Mid Season orange fleshed Honeydew. Large round fruit with smooth creamy white rind. Flesh is dense and firm with moderately closed cavity, high brix and delicious flavor undertones. Excellent holding ability under long shipping. Resistant PRSV Tolerant PM. Fresh Mkt, Shipping. Cut Melon Sales.

## Honeydew

**2484 Dulce Nectar F1** 90 days. 4-6 lbs. Grows well through cool periods and transitions smoothly to warm seasons, providing potential for high yield, low stress, and cropping versatility. Large smooth round-oval melons with creamy white rind, light green flesh, medium closed cavity for high weight. Maturity is early-main season. Mostly 5 fruit per box with a few 4's.

**2486 Earli-Dew F1** 75 days. Early honeydew type especially suited to most northern areas. Fruits average 5.5", weigh 1.5-3 lbs. with smooth skin turning green-gold at maturity. Thick, pale green, sweet flesh. Vigorous vines. Resistant FW 2. Fresh Mkt, Shipping short distance.

**2493 Honeycomb F1** 78 days. Best disease package to date in an early Honeydew. High quality and uniform. Large 5.5 lb melons with thick, medium firm, very sweet flesh. Creamy white skin, small neat seed cavity & high 11-13% Brix rating. Excellent potential for high yield due to quick maturity and disease package. Several growers we've spoken to have praised its performance. Resistance FW 0-2. Resistant PM, strong against sulphur. Fresh Mkt, Roadside, UPick.

## Specialty Melons

### Ananas

Ananas melons produce light netting over an orange colored rind. Most have firm, yellowish ivory flesh but some are orange-fleshed. Its name means pineapple because of its unique pineapple-like scent. These melons usually have short shelf life. They are not suitable for long distance shipping but perfect and highly sought after in fresh markets.

**2462 San Juan F1** 75 days. Ultra-early. 5 lb, Ivory colored flesh is sweet, aromatic with spicy tones. Reaches fully sweet stage while still firm and slightly crispy. Rind is very attractive, golden yellow and finely netted, strong vigorous vines. Tolerant FW 0-2, PM 1-2. Fresh Mkt, Shipping.

### Canary

Canary melons are oblong with bright yellow rinds, slightly larger than cantaloupes or honeydews. They have a strong, pleasant aroma and sweet, off-white flesh that is very good mixed into a fruit salad.

**2477 Tweety F1** 60-70 days. Bright yellow rind, pale ivory-green flesh. Early maturity. Tropical taste preferred by many; mild, sweet and aromatic with no musky aftertaste. Tolerant FW 1-2. GSB, ALB.

### Christmas/Del Sapo

Christmas melons have a longer than average shelf life and are characterized by an elongated shape and splotchy yellow and green rind.

**2418 Grand Prix** 87-90 days from sowing. "Christmas Melon." Special traditional type that harvests well late season. Smooth oval 2-4 lb melons, average size 7 x 5". Thin rind mottled green on yellow. Flesh is ivory-white, sweet, aromatic, juicy, avg 14-16% brix. Stores well, maybe til Xmas if you get the timing right.

**2422 Lambkin F1** 90 days from sowing, 70 days from transplant. "Christmas Melon". Special traditional type that harvests well late season. Smooth oval 5-6 lb melons, average 7" x 11". Thin rind mottled deep green on yellow. Small cavity. Flesh is ivory-white, crisp, very sweet, aromatic, juicy. Stores well, maybe til Xmas if you get the timing right.



Grand Prix

Cat#	Cantaloupe (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	15 M (per M)	30 M (per M)
2385	Dove	5.55	17.15	67.35	106.95	101.40	94.65	87.90	83.05
2418	Grand Prix	6.35	16.45	64.60	102.50	97.65	92.80	87.95	84.55
2422	Lambkin	6.55	20.20	84.95	146.50	132.75	110.80	102.70	94.45
2480	Citrino	3.50	9.20	36.30	57.65	54.90	52.15	49.40	47.55
2484	Dulce Nectar	3.70	10.00	39.30	62.40	59.45	56.50	53.60	51.45
2486	Earli Dew	5.70	16.65	65.80	98.65	95.70	93.35	91.00	89.60
2493	Honeycomb	5.45	14.00	55.35	87.70	83.65	79.50	75.30	72.40
2444	Primo	3.00	7.85	31.00	48.00	46.55	45.40	44.25	43.40
2462	San Juan	2.50	6.65	26.15	41.55	39.40	36.70	34.15	32.20
2477	Tweety	4.50	11.85	46.65	74.00	70.15	65.45	60.80	57.45





**Sugar Cube F1**



**Lilly F1**



**Passport F1**

### Charentais

Charentais melons are French cousins to American muskmelons. They are very sweet, typically grow only to the size of a softball and are suitable for vertical growing on a

**2438 Oui F1** 77-82 days. Round to slightly oblate, dark orange flesh, 3-4 lbs with butterscotch flavor & high Brix. Lightly sutured & netted, this unusual Eastern shipper has a strong, sweet taste. Fruit are firm with good shelf life. Strong disease tolerance makes this melon ideal for east coast production. Tolerant FW 0-2, PM 2.

### Crenshaw

Crenshaw melons are elongated, rich yellow sometimes streaked with light green, appearing slightly wrinkled at the stem ends. The flesh inside is aromatic salmon orange with a delicious lightly spicy sweetness.

**2426 Lilly F1** 80-85 days. Great Crenshaw taste, with super high 15-16% Brix rating. Large long oval 8-10 lb melons with light orange flesh and light smooth, light pale yellow rind. This one should sell well when folks see this hard-to-find favorite back on your shelf again. Avg yield 3-4 fruits per plant in trials. Tolerant PM 1-2, WMV, PMV. Roadside, Fresh Mkt, Regional Grocer.

**2430 Marvelous F1** 100 days. Specialty melon with thick, salmon flesh and dark green rind. Vigorous vines protect from sunburn. High yield potential.

### Galia

Galia melons are similar to cantaloupes in outward appearance but slightly larger. Inside, the flesh is yellow-green and is reported as exceptionally juicy.

**2501 Passport F1** 75 Days. Very early Galia type. Large, round fruit avg 6 lb, 7"x7" diam. Thick flesh is very sweet, avg 12-13% at first harvest. Flavorful, aromatic, light green flesh is very attractive. Rinds have almost no suture and a fine, full net. Fruits slip when ripe for easy harvest. Vigorous vines can be very productive. Shipping, Fresh mkt,

### Personal Size Melons ★

**2425 Lilliput F1** 80 days. Early. A personal hand sized cantaloupe with round, 3.5-5" diam. fruit. Stem slips at full maturity. Eastern shipper type, sutureless, with light netting and tan color at maturity. Flesh is deep orange, very highly flavored, sweet & aromatic, and very firm with tight closed cavity. Resistant FW 0-2, PM 1,2. Fresh Mkt, Regional Grocery, Specialty, Restaurant.

**2473U Sugar Cube F1** 81 days. Superb unique disease package promotes development of super-high sweetness. Small 2 lb. melons pack a big taste, with full flavored 14% Brix rating. Round & fully netted. Deep orange flesh, long shelf life, a must-have for the personal hand melon market. Resistant P 1-2, FW 0-2, PRSV, WMV, ZYMV. Fresh Mkt, Restaurant, Local shipping.

**2475 Tasty Bites F1** 75-80 days. Perhaps the ultimate gourmet personal sized melon with deep orange flesh offset with green outer ring. Flavor is delicious, unique and sweet, resulting from its charantais and ananas parentage. Easy to grow, very vigorous and productive ripening over an extended harvest period. Above average shelf life. Offer customers halves at your market stand as a snack with a scoop of sherbert. Tolerant ALB, FW 1-2, PM 1. Personal Hand Melon.



**Tasty Bites F1**



**Liliput F1**



**Oui F1**

Cat#	Cantaloupe (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	15 M (per M)	30 M (per M)
2501	Passport	3.55	9.20	36.20	57.45	54.50	50.85	47.20	44.60
2425	Lilliput	3.55	11.30	45.75	70.60	58.25			
2426	Lilly	4.40	11.85	46.60	74.00	70.15	65.45	60.75	57.45
2430	Marvelous	3.20	8.35	32.80	52.00	49.30	46.00	42.75	40.40
2438	Oui	3.00	8.15	32.15	50.90	48.30	45.15	41.85	39.50
2473U	Sugar Cube	5.70	14.85	58.50	92.85	88.00	82.15	76.30	72.00
2475	Tasty Bites	5.70	15.00	59.00	93.75	88.95	83.00	77.15	72.80

**To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)**





Savanna F1



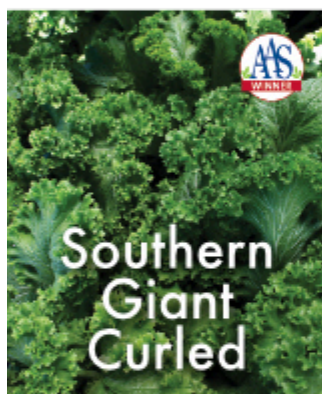
Clemson Spineless #80



Florida Broad Leaf



Jambalaya F1



Southern Giant Curled



Candle Fire

## Mustard (*Brassica juncea*)

Approx. 15,000 seeds/oz. Pkt plants 50' of row; ¼ oz sows 100'. Direct-sow 3-5 lbs/acre. Sow seeds ¼" deep, 5-10" apart in rows 12-36" apart. Seeds germ in about 9 days. Days to maturity are from sowing.

**3157U Florida Broad Leaf [Large Smooth Leaf]** 50 days. Large, broad, oval, green leaves have toothed margins, distinct white midribs. Large, vigorous plants.

**3159U Green Wave** 40-60 days. 16-18" tall. Large upright frame. Southern Curled type but more deeply frilled. Spineless leaves and stems. Very deep green for a curly variety, with spicy hot flavor, slow bolting, and long holding in field, 2-4 weeks longer than others of the type.

**3161 Mizuna Miz America F1** 20-25 days. Deep, dark red leaves. Very uniform for color, growth rate, shape and size. Both upper and lower leaf surfaces stay deep red through maturity. Retains milder flavor through all the growth stages. Upright habit makes harvest easy. Fresh Mkt, Bedding.

**3162U Red Giant** 40 days. Dark purplish red with large leaves and nice mustard pungency. Suitable for use as an ornamental edible or as an element of color in salads. Leaf type mustard and slow bolter. Fresh Mkt., Restaurant.

**3167 Savanna F1** 35 days. Very early, productive plants. The round, smooth, thick leaves are dark green. Nutritious, tangy-flavored greens are excellent for boiling, steaming, and stir frying. Large, upright, vigorous plants are widely adapted. Bunching, Fresh Mkt.

**3172U Southern Giant Curled** 45 days. Popular variety for bunching. Bright green, frilled and curled leaves; upright, long standing plants.

**3177 Tendergreen** 40 days. Dark green, very smooth oblong leaves keep deep color even in the hot, dry spells. Large, erect, early bearing plants, good yield potential. Early maturity for quick harvest. Distinct mild spinach/mustard flavor. Fresh Mkt, Gdn.

**Not available until January, 2024.**

## Okra (*Abelmoschus esculentus*)

Approx. 500 seeds/oz. (Formerly of genus *Hibiscus*.) Pkt plants 20' of row; 2 oz sows 100'. Direct-sow 6-8 lbs/acre. Plant in warm soil. Sow seeds 1" deep, 18-24" apart in rows 42-60" apart. Seeds germ in about 10 days. Plants have ornamental flowers and attractive leaves; pods are about 3" long. Days to maturity are from sowing.

**3191 Candle Fire** 60 days. Bright red pods are smooth, slender and ribless, borne on bright red stems of same intense hue. Very productive and long bearing. Got high marks in nationwide AAS trials for taste, tender texture, value as edible, ornamental and yield, which was reported at 30 pods avg per plant. Plant sets fruit at 2' and continues growing and yielding til frost. Eventual spread about 2'. Harvest pods when 4-5" x 5.75". Turns green when cooked. Fresh Mkt, Ornamental Fresh or Dried Stalks.

**3197 Clemson Spineless #80** 60 days. High quality. Spineless, rich green pods. Highly productive 6' plants. Developed by SC Ag Experiment Station. Fresh Mkt.

**3199U Green Fingers F1** 55 days. 15" T x 17" W at first harvest, reaching 36" late season. Spineless plant with thick-walled pods, star-shaped in cross section. Extra tender picked at 2-3". Mature harvest at 3-4". Compact & early. Good for easy, early U-Pick.

**3200 Jambalaya F1** 50 days. Extra early harvest, compact plant, small leaves for easy picking. Shiny dark green pods with gentle ridges and appealing pointed-cylindrical shape.

**3202 Red Burgundy** 60 days. Tender, 5-7" pods of deep burgundy color. 4 ft stalk, green leaves, burgundy stems and leaf ribs. Yellow flowers followed by shocking burgundy pods. Excellent for eating, landscape, and for arrangements in cornucopia or with dried or fresh cutflowers.

Cat#	Mustard	1/32 oz	oz	¼ lb	½ lb	1 lb (per lb)	5 lb (per lb)	10 lb (per lb)
3167	Savanna	2.50	16.65	56.55	95.90	174.45	147.80	142.40
3177	Tendergreen	1.95	4.15	6.20	10.70	19.15	17.50	16.35

Cat#	Mustard	1/16 oz	oz	¼ lb	1 lb (per lb)	5 lb (per lb)	10 lb (per lb)
3157U	Florida Broad Leaf	1.65	2.60	3.90	8.30	6.45	4.65
3159U	Green Wave	2.00	4.50	6.60	21.95	19.40	17.85
3162U	Red Giant	1.80	4.50	6.75	22.85	20.25	18.55
3172U	Southern Giant Curled	1.75	2.75	4.15	8.75	6.80	4.90

Cat#	Mustard (M=1000)	250 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)
3161	Mizuna Miz America	1.80	2.55	0.55	0.40	0.30

Cat#	Okra	¼ oz	½ oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)
3191	Candle Fire	7.30	21.75	35.75	128.35	229.35	419.50	392.20
3199U	Green Fingers	6.45	18.90	30.60	108.00	191.30	351.00	
3200	Jambalaya	3.65	10.60	17.65	63.00	103.00	197.45	189.20

Cat#	Okra	¼ oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)	50 lb (per lb)
3197	Clemson Spineless #80	1.75	2.00	2.80	4.25	6.25	5.80	5.50	5.25
3202U	Red Burgundy	1.60	1.80	2.50	4.25	7.50	6.90		



# Onion (Allium Cepa)

Approx. 8,500 seeds/oz. Pkt plants 25-30" of row; 1 oz sows 100'. Direct-sow 3-4 lbs/acre. Sow seeds 1/2" deep, 1-4" apart in rows 16-24" apart. Seeds germinate in about 10 days. Days to maturity are from sowing.

## Intermediate Day

**3221 Candy F1** 100 days. A favorite throughout the US for its versatility and mildness. Golden straw color scales with white flesh. Yields 4" jumbos with a globe shape. Short, sturdy tops and small, tight necks. Matures early in Northern growing areas. Excellent potential for transplants. Sweet and mild flavor. Fresh mkt.

**3240 Great White F1** 103 days. Sweet Spanish type but with beautiful luminous white skin and interior. High % single centers. This is one of Crookham's Celebrate onions. Vigorous tall tops create a canopy to protect bulbs from sunburn, provide a larger leaf area to feed the root system and fewer hiding places for thrips; easier spray applications. The result is high yield potential of clean, jumbo grade onions with great flavor and fewer problems for the grower. Good storage for 3-4 months. Tolerant FW, PR.

**3257 Saffron F1** 100 days North, 110 days mid states. Needs 12-14 hr daylength at end of growth cycle to bulb up. Large 3.5-4" yellow Grano with excellent storage capabilities, but also quite sweet, unusual for a long storage onion. Beautiful dark yellow bronze skin, refined neck and highly single centered. Tried well from North Carolina to Northern US. Maturity will be earlier in north, later in mid states. Not recommended for deep south. Fresh Mkt, Storage.

## Long Day

**3219 Blush F1** 107 days. Unique long day onion. Beautiful delicately colored pink flesh, strong rose-tinted skin. Long storage. Well adapted and easy to grow. Resistant PR. Fresh Mkt, Restaurant.

**3223 Cartier F1** 98 days. Yellow. Early maturing. Good yield potential. Very long storage. Strong skin with refined neck. Recommended for testing in all areas. Resistant PR.

**3249 Red Carpet F1** Late season maturity with good long term storage ability. Large, hard, bulbs with excellent red color throughout. Refined rounded shape. Resistant PR.



## Short Day

**3226 Century F1** 160 days. Midseason. Bred for Vidalia market growers. Granex type with light gold scales, flat globe Granex shape, capable of high packout of Colossal to Jumbo grade bulbs with good sugar readings and low pungency. Bulbs very uniform. Stores well compared to other Granex types. Resistant FB, PR.

**3225 Chianti F1** Late season SD, 170 days from sowing, 85 days from transplant. Short-day red with Granex type shape. Large 3-3.5" bulbs with deep, long lasting red skin color. Rings are wide and crisp, with broad red bands that develop through maturity and intensify during curing. Sweet, mildly pungent flavor. Good for short to mid range storage, 2-4 months. High percentage single centers. Capable of high yields under good standard conditions. Tolerant PR. Fresh SD "Vidalia" Type Mkt. Ships and stores well.

**3256 Red Sensation F1** 125 days. Large red Grano with early maturity. 4" round bulbs, very firm inside with deep red exterior and well colored interior. High % of single centers. Widely adapted across a broad range of short-day regions.

**3258 Sapelo Sweet F1** Short day, jumbo, sweet Granex type. Mid early maturity in Vidalia® production areas. Tops are dark green with 7-8 leaves with 2 skins. Also features a light bronze, tight skin and firm, wide interior rings. Produces bulbs or 2:1 ratio with high percentage of jumbo size. High yield potential. Tolerant PR.

**3276 White Phantom F1** 110-115 days. Early, short day white with large to jumbo 3" bulbs. High percentage of single centers. Excellent foliage. Has been found in some trials to withstand high heat conditions. Resistant PR. Fresh mkt, Storage.



## Bunching Types (Scallions)

**3232U Evergreen White Bunching** 120 days. High quality. Very long; slender, white shanks with white skin attractive for bunching, delicate flavor. Plants are slow to bolt. Hardy plants winter over for spring crops. Resistant PR, Smut.

**3239 Feast** 65-70 days. Clean white upright single stalks with white stem 16-20" long topped by 7-8 thick deep green leaves. White neck is tight and uniform for easy packing of classy-looking bunches. High yield potential due to good heat tolerance and good disease package. Recommended for summer production. Resistant DM, ALS. Fresh Mkt, Roadside, Shipping.

**3246U Ramrod** (*Allium cepa*) 60 days. Winter hardy type with good capability for both fall and spring harvest. Leafier and milder than many bunching varieties and may produce a small attractive bulb if grown past the usual harvest stage. Can develop into a larger, bolder salad onion, especially if allowed to overwinter into spring growth season.



Cat#	Onion	1/16 oz	1/4 oz	oz	1/4 lb (per lb)	1/2 lb (per lb)	1 lb (per lb)
3232U	Evergreen White Bunch	2.35	3.45	4.50	12.75	22.50	41.00
3239	Feast	3.20	5.65	13.70	46.70	82.00	148.50

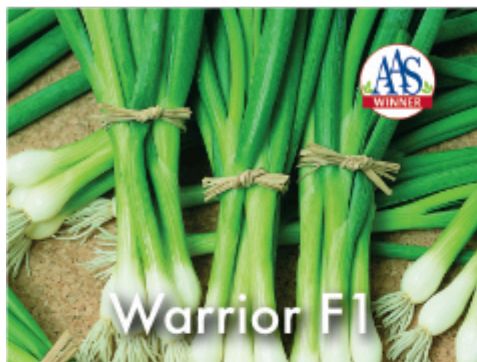
Cat#	Onion (M=1000)	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
3219	Blush	1.85	7.20	11.35	9.15	8.50	7.70	7.00
3221	Candy	1.00	3.90	6.20	5.00	4.65	4.15	3.90
3223	Cartier	1.85	5.20	8.25	6.65	6.15	5.55	5.15
3226	Century	1.85	4.15	6.65	5.30	4.95	4.55	4.15
3225	Chianti	1.70	3.55	5.65	4.00	3.75	3.40	3.15
3240	Great White	1.45	3.50	5.55	4.45	4.15	3.75	3.45
3246U	Ramrod	1.45	2.15	3.15	2.80	2.50	2.35	2.15
3249	Red Carpet	1.85	6.15	9.70	7.80	7.25	6.55	6.00
3256	Red Sensation	2.35	6.55	10.35	8.40	7.70	7.15	6.50
3257	Saffron	1.65	2.75	4.40	3.50	3.15	2.95	2.70
3258	Sapelo Sweet (1039)	1.65	2.85	4.60	3.50	3.15	2.95	2.70
3276	White Phantom	1.60	2.90	4.65	3.65	3.40	3.15	2.85

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





Walla Walla



Warrior F1



Red Baron Bunching

#### Onion Disease Codes

ALS	Alternaria Leaf Spot
DM	Downy Mildew
FB	Fusarium Basal Rot
PR	Pink Root
Th	Thrips

## More Bunching Types

(Scallions)

**3247 Red Baron Bunching** 75 days. The first red buncher to stay colored through all stages of growth and under wide range of temps.



**3274 Warrior** 60 days. Early maturing. Refined appearance with bright green stalk color sharply delineated from pure white base. Can harvest from 10-24". Stalks are uniform, slender, .5" at base. Nationwide AAS trials reported good durability, holding longer in field than comparisons. Quite pungent and tasty. Tolerant PR. Fresh Mkt, Shipping, Garden Ctr Sales. Southeast, Mountain/Southwest.

## Pearl Onion

**3227 Crystal White Wax** 60 days. Produces lots of small, white, pearl onions very uniform in size and shape. Perfect for pickling, hors d'oeuvres or cocktails. Sow thickly and harvest early. Mild flavor. Resistant PR.

## Sweet Spanish Types

**3218 Almagro F1** 149 days. ID. Replaces Expression in breeder's program. Consistent producer of sweet jumbos for northern production. Adaptable to a wide range of soil types. Thick sweet rings, great sandwich fare. Can reach premium sweet jumbo market in late season when the southern crop is no longer available.

**3241 Lasso F1** 112-114 days. LD. Improved yellow Spanish onion. 2.5"-3" bulbs with high pct single centers and firm flesh even after storage. Attractive, clean rosy-brown skin. Vigorous plant growth. Grower friendly, adapted to all areas where long day Spanish onions are grown. Strong pink root tolerance. Tolerant PR. Fresh mkt, storage, shipping.

**3272U Walla-Walla** 105 days. LD. Extra sweet, extra large and earlier than other Spanish types. Light brown skin, white flesh, very mild and sweet. Summer ripening for fresh use, very cold hardy; short shelf life. Does well in the northeast.

**3277U Yellow Sweet Spanish** 115 days LD. Leading variety for the production of large yellow bulbs. Jumbo strain of deep globe-shaped bulbs with heavy golden-brown skin; small necks. Very mild, sweet, white flesh. Very few bottlenecks.

## Shallots

Plant shallots at a rate of 14 seeds per foot.



**3983 (Echallion) Creme Brulee F1** 115 days. Special type of shallot, commonly called banana shallot, with oblong single-centered bulbs, bright coppery pink outer skin and attractive rosey-purple interior with thick rings. Bulbs are sweet and tender, milder flavored, mature earlier than standard shallots, and the single bulb is easier to peel. Plant reaches 2-3 ft tall. Tolerant PR. Fresh Mkt, Shipping. Great Lakes, Southeast, West/Northwest.

**3989 Innovator F1** 112 days. First ever Downy-resistant Shallot requiring less chemical application and easier culture than other shallots. Good vigor, making a strong stand and promoting good yield potential. Suitable for long storage. Skin is reddish brown. Interior flesh is pink. Elongated bulbs are 3-4" long & 2-3" wide. Green tops are 12-18" long. Resistant DM. Fresh Mkt, Processing.



Crystal White Wax



Innovator F1

Cat#	Onion	1/16 oz	¼ oz	1 oz	¼ lb	½ lb	1 lb
3227	Crystal White Wax	1.65	1.95	4.00	14.15	25.00	45.90
3272U	Walla Walla	2.70	4.90	11.75	41.35	67.40	129.60
3274	Warrior	1.90	2.75	6.65	23.55	41.75	76.55
3277U	Yellow Sweet Spanish	2.50	3.65	6.00	19.55	30.95	47.15

Cat#	Onion (M=1000)	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
3218	Almagro	1.25	4.95	7.90	6.25	5.80	5.35	4.90
3241	Lasso	1.55	3.15	5.15	3.85	3.60	3.35	3.00
3247	Red Baron Bunching	2.50	4.35	7.15	5.95	5.40	4.55	4.15

Cat#	Shallots (M=1000)	100 sd	1000 sd	5 M (per M)	10 M (per M)	100 M (per M)
3983	Creme Brulee	2.70	20.70	16.50	13.80	12.00
3989	Innovator	2.90	21.75	17.45	14.75	12.85





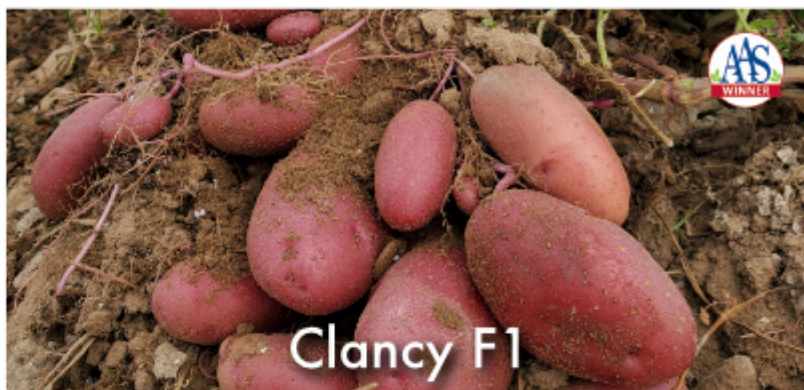
Triple Curled



Javelin F1



Dark Green Italian



Clancy F1

## Parsley (*Petroselinum crispum*)

Approx. 18,500 sd/oz. Pkt plants 30' of row; ¼ oz sows 100'. Sow 3-4 lbs/acre, ¼" deep, 4-12" apart in rows 12-36" apart. Germ in about 21 days. **Days to maturity are from sowing.**

**3287U Dark Green Italian** 78 days. We believe this is the best strain of plain parsley available. Produces large quantities of broad, dark green leaves; may be cut repeatedly. Leaves with strong flavor used fresh or dried as herb. Flavoring. Fresh Mkt.

**3312 Triple Curled** 88 days. Tightly curled leaves attractive for garnish or salad.

## Parsnip (*Pastinaca sativa*)

Approx. 12,000 seeds/oz. Pkt plants 30' of row; ½ oz sows 100'. Direct-sow 3-5 lbs/acre. Sow seeds ¼-½" deep, 2-4" apart in rows 18-36" apart. Seeds germ in about 18 days. **Days to maturity are from sowing.**

**3327U Harris Model** 120 days. Very attractive; well known for the smoothest roots. Long, white roots 10-12" keep their whiteness after harvest without discoloring. High quality for packing/bushel sales.

**3335U Javelin F1** 110 days. Reliable vigor due to F1 hybrid breeding. Leading variety worldwide. Triangular wedge shaped root with thick crown provides high yield of sweet flesh. Tops are shallow, often level with the ground for easy cleaning at harvest. Skin is white to lightest cream with excellent canker resistance. Can be cropped through all seasons suitable for Parsnip production and has exceptional holding ability in the field and after harvest. Fresh Mkt, Bunching, Wrapped Trays.

## Potato

Pelleted seed only. Start indoors at temps between 65 degrees and 80 degrees in soil with pH from 5-6. It is not advised to have nutrients in the sowing medium. Once seed emerges, add plant food. Cut nutrients 1 week prior to transplant. Plant outdoors with 2-4" of top above soil level. When seedlings reach 4-5" tall, begin hilling with soil or straw. Continue throughout the season as necessary.

**3701 Clancy F1** 110 days from transplant. Received high marks in nationwide trials. True seed stores more easily than spuds with less risk of disease transmission. Tubers average 3" x 4", round oval, smooth skin ranging from red to rose blush and creamy white or yellow flesh. Germinate indoors or in seedbed like tomato, transplant at approximately 25 days with 4 true leaves. Delicious flavor midway between russet and yellow varieties. Fresh local, Farm Mkt, Roadside.

Cat#	Parsley	1/16 oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
3287U	Dark Green Italian	1.85	2.45	4.30	7.00	11.00	10.35	9.70	9.35

Cat#	Parsley	½ oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)
3312	Triple Curled	1.75	2.20	4.00	5.15	9.15	8.30	7.80

Cat#	Parsnip	¼ oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)
3327U	Harris Model	1.80	2.30	3.35	5.90	10.50	9.60	9.00

Cat#	Parsnip (M=1000)	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)
3335U	Javelin	1.75	2.00	3.30	2.80	2.50	2.30

Cat#	Potato (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)
3701	Clancy	2.50	7.55	30.45	51.70	45.80	42.00





Top Pick Pinkeye



Mississippi Pink Eye II Purple Hull



Top Pick Brown Crowder



Mississippi Purple Brown Crowder PVP

## Cowpeas (*Vigna unguiculata*)


Approx. 1,440-2,800 sd/lb. 1 lb sows 150' of row. Sow 90-220 lbs/acre, 1-2" deep, 1-3" apart, in rows 24-48" apart. Germ in about 8 days. **Days to maturity are from sowing.**

[Southern Peas] Culture same as for bush beans. Use fresh/dried.

**1164U Mississippi Pink Eye II Purple Hull** 60-70 days. Young pods change from green to purple as they mature and dark purple when dry. Mississippi Pinkeye II was developed from Mississippi Pinkeye for much greater cold tolerance, stronger emergence and better seedling survival. Tolerant FW, N.

**1166U Mississippi Purple Brown Crowder PVP** 70 Days. Large seeded, brown crowder with reddish-purple pods at green shell stage. Plants have much less vine and a higher concentration of pods with the pods maturing over a short time span. Pods shell very easily. High yield. Tolerant FW, N.

**1168 Pink Eye Purple Hull** 80-85 days. Well known standard variety with excellent flavor. Productive, bunch-type plants have possibility of a second crop maturing seven weeks after first harvest if favorable weather persists.

**1162 Coronet** 62 days. Improved Pink Eye Purple Hull type.  Very high nutrition value. Deep purple pods. Capable of high yields of peas on 24" plants. Healthy-looking green foliage.

**1175 QuickPick Pinkeye** Non-vining erect bush type habit. Uniform early high yield with pod set well synchronized in clusters of 2 to 3 pods per node, carried high on the plant, above the foliage. Easy harvest by machine or by hand. Straight 8" pods avg 11 peas per pod. Pod matures to dark purple. Fresh peas are green with pink eye, drying to cream with maroon eye. Resistant BLCMV **Not available until 2025.**

**1177U Top Pick Brown Crowder** 50-55 days to fresh pea harvest; longer to dry pea stage. Upright bush habit provides cleaner pods and easier picking than old-style vine types. Pale silvery-green pods develop pale pink tinge when ready for harvest. Concentrated top-set pods. Early, good shell-out. Fresh Mkt. Shelled or in pod, Freezing, Drying.

**1180U Top Pick Pinkeye** 50 days. Improved pinkeye, upright bush type. Loads up with blooms. Pod placement is concentrated cluster on top of plant. For fresh "green" peas, pick when pods are pale or light purple, NOT deep purple. Plant height 18-26" depending on soil type. Easy shelling. High yields, good virus and disease tolerance. Tolerant FW, N.



Coronet

### Cowpea/Pea Diseases

BLCMV	Blackeye Cowpea Mosaic Virus
BLRV	Bean Leaf Roll Virus
BYMV	Bean Yellow Mosaic Virus
DM	Downy Mildew
FW	Fusarium Wilt & race #'s
N	Nematode
PEMV	Pea Enation Mosaic Virus
PM	Powdery Mildew
PSV	Pea Streak Virus

Cat#	Cowpea	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)	50 lb (per lb)	100 lb (per lb)
1162	Coronet	3.55	5.50	8.65	6.85	5.50	4.60	3.70	2.95
1164U	Mississippi Pinkeye 2 Purple Hull	4.85	7.55	11.90	9.45	7.55	6.40	5.15	4.15
1166U	Mississippi Purple Brown Crowder	5.20	8.00	12.65	10.15	8.00	6.80	5.40	4.30
1168	Pinkeye Purple Hull	2.95	4.60	7.20	5.70	4.60	3.85	3.15	2.45
1175	QuickPick Pinkeye	5.60	8.70	13.65	10.75	8.70	7.25	5.75	4.60
1177U	Top Pick Brown Crowder	5.00	7.85	12.40	9.85	7.85	6.65	5.30	4.20
1180U	Top Pick Pinkeye	4.85	7.55	11.90	9.45	7.55	6.40	5.15	4.15



## Peas (*Pisum sativum*)

**1271U Green Arrow** 68 Days. Large yields. Bright green pods 4.5" are packed with 9-11 sweet peas in pairs on the upper parts of the vines. Plants 24-28". Tolerant DM, FW. Freezing, Fresh Mkt.

**1276 Mr. Big** 58 days. Giant podded, 4" x .5", easy to pick and shell. Pod zips out 9 to 10 extra plump peas. Stays sweet longer than most. Productivity excellent due to early set of 2 pods per node and disease resistance. Resistant FW 1, PM.

**1282U Patio Pride** 40 days. Compact, densely branching plants start flowering at 10" tall and grow to 24". AAS trials reported avg of 30+ pods per plant. Produces 2-3" pods very quickly with 5-6 sweet tender peas per pod. First-early harvest in spring and multiple succession plantings. Direct sown containers can be sold in early spring gdn mkts. Fresh Mkt, Gdn Center Sales. Southeast.

**1277U Pea Parsley** 24 days to side shoot clipping. 60 days to pea pod harvest. Produces bunches of small delicious leaves with sweet pea flavor on tender branching tendrils which are clipped and used in the specialty greens markets. Sweetest when clipped young. Both clipping and pea harvest can be had by waiting for mature pods and harvesting both. The leafy tendrils will continue to be produced. Vines stand 24-32". Also featured on pg 27.

**1278U PLS 595** 72 days. Exceptionally large pods averages 2 pods per node. Great yield potential. Extra easy for hand picking and shucking, since fewer pods have to be handled per pound of shucked peas. Up right Afilia vine type, 28-32", requires no trellising. Resistant FW 1, Tolerant PM. Fresh Mkt, Roadside, UPick.

**1280U Strike** 56 days. First early English Pea with strong disease package including tolerance to Pythium Root Rot. First bloom at 9 nodes. Vine is 22-24". Bears 1-2 pods per node. Resistant FW1, Tolerant Pythium root rot. Fresh Market, Processing, Freezing.

**1281 Wando** 67 days. Heat resistant; dependable crop. Dark green pods 3" are well-filled with 7-8 peas of excellent flavor. Late plantings do well in warm weather. Vines of 2.5'. Freezing, Fresh Mkt.

## Snap Peas (Edible-Podded Peas)

**1295 Sugar Sprint PVP** 62 Days. Supercedes Sugar Ann and Sugar Bon. Early, sweet and stringless. Improved disease traits and short 26" vines. High yield potential, avg. 12 nodes at 2 pods per node. Resistant PM. Tolerant PEMV. Fresh Mkt, Freezing, Shipping.

**1300 Super Sugar Snap PVP** 66 days. A sweet, crisp snap pea. Produces plumper 3" pods maturing six days earlier than Sugar Snap. Vigorous productive vines grow 55-65" requiring support. Resistant PM. Tolerant BLRV. Freezing, Fresh Mkt.

## Snow Pea (*Pisum sativum* var. *saccharatum*)

**1312U Little Purple F1** 50-54 days. Early. Dwarf but productive, with branching habit. 20" tall in container, 24" tall in ground. Soft purple flowers. Flat pods are glossy bright green. Needs no trellis. A low maintenance space saver for close spaced row crop or container sales. Ornamental and edible. Fresh mkt, Plant sales.

**1324U Oregon Sugar Pod II** 68 days. Oriental type flat podded variety with tender, bright green pods. Pods are high quality, smooth, about 4". Sweet mild flavor and crunchy texture. Raw, stir-fried or steamed. Vines 26" need no support. Tolerant PEMV, PM, CW, PSV. Fresh Mkt, Garden.



Oregon Sugar Pod II



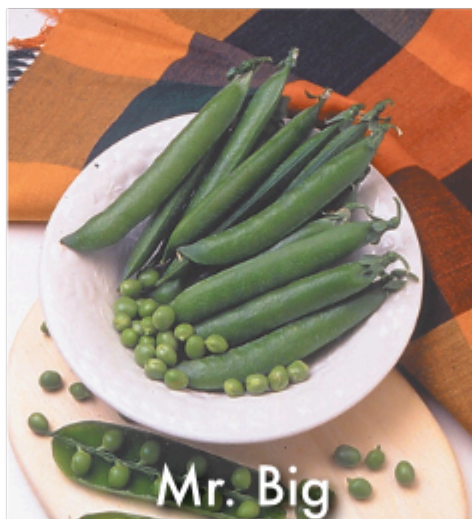
Sugar Sprint PVP



PLS 595



Strike



Mr. Big

Cat#	Pea	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)	50 lb (per lb)	100 lb (per lb)	500 lb (per lb)
1271U	Green Arrow	3.95	6.00	9.45	7.40	5.90	5.15	4.45	3.65	3.15
1276	Mr. Big	8.30	12.75	19.85	15.60	12.40	10.85	9.35	7.80	6.60
1277U	Parsley	11.00	16.90	26.25	21.00	16.65	13.75	11.25	8.75	
1282U	Patio Pride	15.90	24.55	38.20	30.00	23.85	20.95	17.90	14.90	12.80
1278U	PLS 595	2.55	3.85	6.20	4.90	3.85	3.25	2.55	2.15	
1312U	Little Purple	18.85	29.00	45.35	35.65	28.25	24.80	21.25	17.65	15.15
1324U	Oregon Sugar Pod II	2.45	3.75	5.85	4.60	3.65	3.20	2.75	2.25	1.95
1280U	Strike	2.75	3.85	6.20	4.90	3.85	3.25	2.55	2.15	
1281	Wando	5.20	8.20	13.15	10.70	8.75	4.65			

Cat#	Pea (M=1000)	250 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)	500 M (per M)
1295	Sugar Sprint	4.25	6.60	10.35	8.15	6.45	5.65	4.85	4.00
1300	Super Sugar Snap	3.00	4.70	7.30	5.75	4.55	4.00	3.45	2.90



# Sweet Bell Peppers

Approx. 4,500 seed/oz. Hybrid packets contain 25 seeds; OP packets produce about 75 plants; 7 oz. produces approx. 10,000 plants. Seeds germ in about 10 days. Set plants 12-24" apart in rows 18-36" apart. **Days to maturity are from transplant.**



King Arthur F1



Antebellum F1

Variety	Days	Shape and Color	Disease	Description
3345 Antebellum X10R® F1	74		Resistant TMV; Tolerant BLS 1-10, TSWV	Southeast trials marked this as a must-have for the region. Mostly 4-lobed. Capable of jumbo sizes up to 4.5"-5". No anthocyanin purpling. Dense foliage provides good protection. 22-30" plants. Fresh Mkt, Shipping.
3373 Bayonet F1	70-80		Resistant BLS 1-5,7,8,9, TMV Tolerant TSWV 0	Continuous set of blocky 3.5 x 3.5" fruit on strong stemmed 2 ft. plants. Broad disease package confers wide regional adaptability.
<b>3403</b> Dragonfly F1	75		Tolerant TMV	Received high marks in nationwide trials for beautiful shiny purple color, thick walls and robust pepper flavor. Interior color is striking bright green. Delicious at both green and mature purple stages. Superior appearance will grab consumer attention at mkt.
<b>3377U</b> California Wonder #300 TMR	74		Resistant TMV	OP. Selected mosaic resistant strain. Avg size 4" x 4". Mostly 4-lobed. Compact 24-28" plants. Fresh Mkt, Commercial.
<b>3394U</b> Chablis F1	60		Resistant BLS, TMV	4" x 3" mostly 4-lobed fruit matures from cream to orange to red, growing ever sweeter. Can be harvested at any of these stages for color pepper. Thick walled. Compact 12" plants. For bedding or pot sales.
<b>3410U</b> Encore F1	50-60		Resistant PMV, PVY 0-2	High % extra-large grade, blocky peppers 5.75" X 5.75" in size. Fruit are firm and smooth. Plant is medium ht, 24" tall and provides very strong foliage cover to protect fruit from sun-scald. Fresh mkt, shipping, fancy extra-large stuffing.
<b>3425U</b> Golden California Wonder	70			Yellow version of the famous California Wonder 300. Large 5" x 4" thick walled fruit matures light green to golden yellow. Long harvest season.
<b>3467U</b> Jupiter PVP	72			OP. Very large, extremely blocky fruit. 4" x 4". Widely adapted. Fresh Mkt, Shipping, Garden.
<b>3468U</b> Keystone Resistant Giant #3	72-80		Tolerant TMV	Large fruited Florida Giant type, capable of producing mostly 4-lobed 4.5 x 3 3/4" fruits. Deep green, thick walled. 30" tall plants with pendant habit and thick stems. Capable of continuous harvest.
3472 King Arthur F1	72		Tolerant BLS 2, PVY, TEV, TMV	Large blocky 4.5" x 4.5", 3-4 lobed fruit. Upright habit. Widely adapted. Fresh Mkt, Commercial.

Cat#	Pepper (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3345	Antebellum (X10R®)	9.80	25.75	101.50	161.00	156.95	150.35	143.70	138.85
3373	Bayonet	6.35	16.50	64.90	102.95	100.30	97.65	95.00	93.15
<b>3394U</b>	Chablis	5.15	15.80	66.50	116.00	104.00	97.00	92.00	87.50
<b>3403U</b>	Dragonfly	9.15	23.45	92.35	146.65	139.15	129.80	120.55	113.90
<b>3410U</b>	Encore	5.70	15.15	59.15	93.85	91.25	88.90	86.40	84.65
3472	King Arthur	7.00	18.00	57.90	81.50	79.45	76.00	72.75	70.20

Cat#	Pepper	1/32 oz	1/8 oz	oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
<b>3377U</b>	California Wonder #300	3.15	3.55	5.60	20.90	37.40	69.95	66.20	63.00
<b>3425U</b>	Golden California Wonder	1.55	10.00	16.85	61.00	110.15	205.35	194.25	185.00
<b>3467U</b>	Jupiter	2.80	10.95	18.25	65.55	111.50	205.80	191.15	185.90
<b>3468U</b>	Keystone Resistant Giant #3	2.40	6.55	10.50	36.90	66.60	115.85	108.65	104.30





PS 09941819 F1



Majestic Red F1



Muscato F1

## More Sweet Bell Peppers

Variety	Days	Shape and Color	Disease	Description
3475 Majestic Red F1	75 green, 85 red		Resistant BLS 0-3, 5,7-8; TMV; Tolerant Pc	Fruit can reach 5.5" x 3.5" and avg 4-6 oz, thick walled and meaty. Intense candy apple red at maturity. 2-3 ft. plants provide dense leaf cover for good protection. Widely adapted.
3489U Muscato F1	75		Tolerant TMV	5 x 4", 4-lobed, dark green to orange. Heavy yields of blocky, very thick wall, pendant fruits are produced on vigorous 24" plants with thick stems. Continual bearing, widely adapted.
3492 Ninja S10 F1	75 green, 89 red		Resistant TMV, Tolerant BLS 0-10	Well suited to production where BLS is a concern. High yield potential with mostly 4.5" x 4" diam fruit reported in trial. Thick walls have been measured at .25". Strong plants, good setting ability, full leaf canopy. Very good for Eastern US.
3497U Orange Sun	70 green, 80 orange			Excellent flavor, thick flesh, 3-4 lobed. Avg size is 4-5".
3499 Playmaker X10R® F1	56 green, 70 red		Resistant TMV, Tolerant BLS 0-10, Pc	Northeast trials gave especially high marks for high yield potential, also a standout in NC Mountain areas. Compact 20-24" plants bear concentrated set of heavy, smooth, blocky 8.5-oz fruit, 4" wide x 4.5". Anthocyaninless, so fruit keeps nice, clear color to market. Can be a game-changer for all growers where BLS is present. Worth trying throughout Eastern US. <b>Very limited supply.</b>
3500 PS 09941819 X5R® F1	74		Resistant BLS 1-5,7,9; TMV 0, Tolerant Phytophthora	3-4 lobed blocky 5" x 4.5" jumbo bell with super disease pkg. Fruit sets continuously on 22-28" plants. Anthocyaninless gene, so fruit keeps clean color. No dark streaks even under stress.
3502U Purple Beauty	65 green, 70 purple, 80 red			Thick walled, meaty 3-4 lobed fruit with crispy, tender texture. Heavy leaf coverage protects from sun scald.
3524 Samurai S10	70 green, 84 red		Resistant TMV, Tolerant BLS 0-10	Well suited to production where BLS is a concern. High yield potential with mostly 4" x 3.5" fruit in trial. Thick walls measured at .25". Strong plants, good setting ability, good leaf canopy. Very good for Eastern US. Fresh Mkt, Shipping
3599 Sun Haven F1			Resistant TMV. Tolerant TSWV.	70 days green. 80 days yellow. Large blocky 4" x 4.3" fruit ripen to deep pure yellow at full maturity. 20-24" plant height. Excellent for fresh mkt growers and adapts well to containers. Sun Haven is best replacement for SummerSweet 8610, which it supersedes.

Pepper Disease Codes	
BLS	Bacterial Leaf Spot & race #'s
N	Nematode
Pc	Phytophthora Blight
PMV	Pepper Mottle Virus
PMMV	Pepper Mild Mottle Virus
PVY	Potato Virus Y & race #'s
Stp	Stip
TEV	Tobacco Etch Virus
TMV	Tobacco Mosaic Virus & pathogen types
ToMV	Tomato Mosaic Virus
TSWV	Tomato Spotted Wilt Virus

Cat#	Pepper (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3475	Majestic Red	5.20	15.45	60.55	95.95	93.00	90.90	88.55	87.15
3489U	Muscato	2.00	6.15	24.70	42.25	36.40	31.20	27.30	24.70
3492	Ninja S10	7.00	19.45	76.70	121.45	117.90	115.00	112.20	110.25
3497U	Orange Sun	1.80	2.35	3.60	5.40	4.85	4.55	4.30	4.15
3499	Playmaker X10R®	8.40	23.90	94.15	149.45	145.50	139.40	133.15	128.65
3500	PS 09941819 (X5R®)	10.85	28.35	103.65	141.35	137.70	131.90	126.00	121.85
3502U	Purple Beauty	1.80	2.15	3.15	4.65	4.20	3.90	3.650	3.50
3524	Samurai S10	6.45	19.45	75.70	121.45	117.90	115.00	112.20	110.25
3599	Sun Haven	5.20	13.55	53.25	84.50	82.30	80.10	77.90	76.35

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





Turnpike F1



Sweet Banana



Touchdown F1

## More Sweet Peppers

Variety	Days	Shape and Color	Disease	Description
3603 SVPB8415 X10R® F1	85 days green, 95 days yellow		Resistant TMV; Tolerant BLS 1-10	Large, blocky, 4.5" diam thick-walled fruit borne on vigorous 36" plant. Very sweet especially at yellow-ripe stage. High yield potential enabled by broad disease pkg. Color shifts from green to yellow quickly & uniformly and holds well after turning color.
<b>3612U</b> Sweet Chocolate	58 green, 86 chocolate			Early medium 3-4 lobed pepper with thick walls and unusual, intense chocolate color at full maturity.
3631 Touchdown F1	70 green, 76 red		Resistant TMV 0, BLS 0-5, 7-9	Trials avg. 4.5-6" x 4-4.5" extra large blocky bells. Fruit is thick walled and uniform. Med. sized plants are 24-30", vigorously branched. Tight protective foliage canopy. Continuous setting ability.
3633 Turnpike X5R® F1	55 green, 65 red		Resistant BLS 0-5, 7-9, Pc	Large 8-9 oz, 5.5" x 4" fruit. Vigorous 22-26" plants. Strong multi-disease resistance. Excellent hot/humid performance.
<b>Sweet Banana</b>				
<b>3607U</b> Sweet Banana	68			Hungarian wax type. 6"x1.5" with sweet flesh. Bright yellow fruits turn red at maturity. Fresh Mkt, Commercial.
3615 Sweet Sunset X3R® F1	85		Tolerant BLS 0-3, 7-8	Compact, upright habit with vigorous branching, with high yield potential and concentrated fruit set. Compact plant needs no staking. Grows well in container for greenhouse harvest or bedding plant sales. Early for its class; capable of extended harvest. Fresh Mkt, Processing, Bedding Plant Sales. Southeast, Heartland, West/Northwest.

Cat#	Pepper	1/32 oz	1/2 oz	oz	1/4 lb	1/2 lb	1 lb
<b>3607U</b>	Sweet Banana	2.50	4.45	7.15	25.25	44.85	82.90

Cat#	Pepper (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3603	SVPB8415	8.65	24.00	94.75	150.35	146.55	140.25	134.00	129.70
<b>3612U</b>	Sweet Chocolate	1.95	3.00	8.15	12.25	10.15	8.55	6.70	5.45
3615	Sweet Sunset (X3R®)	6.40	19.55	67.50	101.50	98.85	94.60	90.45	87.40
3631	Touchdown	4.65	12.00	47.20	65.40	63.40	61.85	60.30	59.30
3633	Turnpike ®	10.20	26.65	97.75	147.20	143.35	137.40	131.15	126.80





## Sweet Specialty Peppers

Variety	Days	Shape and Color	Disease	Description
<b>3387U</b> Carmen F1	60 green, 80 red			Classic Italian bull horn shape. 5 oz fruit is 6" x 2.5". Very sweet from first show of red pigment. Upright plant 28" tall x 16" wide. Good protective leaf canopy. Fresh Mkt, Roadside, Garden.
3395 Cherry Pick F1	68 green, 82 red		Resistant TMV	Early. Uniform 1.5". Cherry shaped fruits mature glossy green to bright red. 20" plants with strong stalks, strength and good cover. Concentrated set, easy harvest. Fresh Mkt, Restaurant.
<b>3396U</b> Cornito Giallo F1	75			Italian frying type with sweet fruity flavor. Cone shaped 6" x 2" peppers avg 5 oz. Nationwide AAS trials reported 25-35 fruits per plant. Plant is 24" tall x 18" wide. Specialty, Restaurant, Garden Center.
<b>3411U</b> Escamillo F1	77			Italian roasting pepper, also good raw or fried. Fruit are 8" x 2.5" and avg 6 oz. Plant is 24" tall x 18" wide. Fresh Mkt, Specialty, Garden Center.
<b>3426U</b> Grenada F1	75 green, 82 red		Resistant BLS 0-3, 7-8	Long, blocky cubanelle with shallow shoulders and smooth exterior. Plant 2-3 ft apart. Dense protective canopy. Widely adapted. Fresh Mkt, Shipping, Garden Center, Bedding Plants.
<b>3476U</b> Mama Mia Giallo F1	85		Tolerant TMV	Early, sweet Marconi type. Horn shaped 7-9" long fruit. Avg. weight 2-4 oz. Bushy 24" tall x 20" wide plants can bear 25-30 fruit. Fresh Mkt, Cello, Chef Specialty, Bedding Plant.
3479 Marconi Red	70-91			Fruit up to 12" long x 3" diam at shoulder. Ripens red early. Plant is 24"-30" tall x 24"-30" wide. A choice Italian heirloom. Fresh mkt, Restaurant, Specialty.
<b>3498U</b> Pimiento	65 green, 90 red			Robust plant to 30". High yields of smooth, thick walled heart shaped fruit, 3 x 2.5". Extra sweet when red ripe. Fresh Mkt, Canning.
<b>3509U</b> Right On Red F1	58 green, 65 red			Eye catching. Numerous deep red flat-round 2.5"-3" fruit atop compact 18-24" tall plant. Good in container. Fresh Mkt, Bedding Plants, Containers.

Cat#	Pepper	1/32 oz	1/8 oz	oz	1/4 lb	1/2 lb	1 lb
3479	Marconi Red	2.30	6.25	10.00	35.80	63.20	116.00
<b>3498U</b>	Pimiento	2.00	5.75	9.30	33.20	59.30	108.15

Cat#	Pepper (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
<b>3387U</b>	Carmen	7.30	20.65	81.35	128.95	122.30	114.20	106.00	100.15
3395	Cherry Pick	7.15	18.55	68.75	88.55	86.25	82.45	78.80	76.15
<b>3396U</b>	Cornito Giallo	9.95	25.95	101.85	114.85	108.90	101.65	94.40	89.15
<b>3411U</b>	Escamillo	9.00	23.60	92.85	147.40	139.80	130.45	121.15	114.5
<b>3476U</b>	Mama Mia Giallo	2.40	7.25	30.40	52.75	47.60	44.40	42.00	40.00
<b>3509U</b>	Right On Red	4.45	12.00	47.40	74.50	71.70	69.40	67.60	

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





Anaheim Chili



Flaming Flare F1



Garden Salsa F1



Sahuaro F1

## Hot Peppers

Variety	Days	Shape and Color	Disease	Description
<b>Ancho/Poblano</b>				
3487U Mulato Isleno	85-95			Thick, tasty flesh. Full ripe "ancho" stage used for drying. 6" x 3" heart shaped with mild heat. 1000-3000 Scovilles. Fresh Mkt, Relenos, Drying, Salsa, Processing.
3389 Carranza F1			Tolerant N.	Large fruit ripens red for dual use as an ancho dried pepper. Carranza is more widely adapted than traditional Poblano/Ancho types because it sets well in hot growing areas as well as the cooler conditions needed by the traditional varieties. Large, mostly bilobed fruit with broad shoulders are deepest green ripening to vivid red. Avg fruit size 6.3 x 3". Compact plants & concentrated fruit set for easier cropping and harvest.
3506U Poblano	73			Distinctive large heart shaped fruit are peeled and stuffed for chiles rellenos in green stage, and as chief ingredient of Poblano chili powder at reddish brown dried stage. 18-24" plants spread about 16". Fresh mkt, stuffing, Drying, Specialty.
<b>Cayenne</b>				
3397 Arapaho F1	60-65			Large 7-8", long fruit, approx 2" at shoulder. Fruit colors quickly to vibrant red with medium pungency. Compact but robust plant habit. Fresh Mkt, Processing, Shipping.
3393U Cayennetta F1	69			Prolific 3-4" mildly spicy fruit. Compact, bushy plant 24" tall x 20" wide. Good in container. Requires no staking. Hot and cool weather tolerant. Fresh Mkt, Bedding, Container, Ornamental edible.
3392 Cayenne Large Red	74			6-7" x 1.25" fruits with medium, thick hot flesh. Plants avg 24". Fresh mkt. Drying, Processing, Salsa.
<b>Chili</b>				
3342U Anaheim Chili	77			Pungent 7-8" x 1.5" fruit with medium thick flesh. Plants 28-34". Fresh Mkt. Drying, Processing.
3415 Flaming Flare F1	55 green, 65 red		Resistant Tobamovirus P 0	Fresno chili type. Brilliant red triangular fruit, 4" x 1", broad at base, tapering to a pointed tip. 500-1000 Scovilles. Vigorous plant, 2 ft tall x 2 ft wide.
3419 & 3419U Garden Salsa F1	73-75		Resistant PMMV, PVY 0-1	8.5 x 1" mildly pungent fruit, 2500-3500 Scovilles. 28" tall, holds fruit well above ground. Trials noted excellent yield potential. Fresh Mkt, Rings, Salsa.
3424U Giant Ristra F1	80		Tolerant TMV	Very large chili, 6-7" avg length, 4 oz avg weight. Size & long horn shape like Marconi, but very hot at 30,000 Scovilles. Bushy deep green plants, 24" tall x 16" wide. Can produce 15-18 fruit per plant. Fresh Mkt, Processing, Bedding. <i>Mountain/Southwest.</i>
3508 Sahuaro F1	68		Resistant PMV	Large chili, up to 9" long with thick walls. Mildly pungent at 500 Scovilles. Strong plants with dense canopy. Good fruit protection. Trials noted high yield potential. Fresh Mkt.

Cat#	Pepper (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3397	Cheyenne (Arapaho)	5.15	14.30	56.15	80.60	78.15	76.35	74.45	73.20
3389	Carranza	5.00	12.95	50.75	75.20	73.25	70.15	67.00	64.80
3393U	Cayennetta	8.25	21.65	85.25	135.25	131.25	126.30	120.70	116.65
3415	Flaming Flare	6.90	18.00	68.55	96.55	94.15	90.00	86.15	83.20
3419	Garden Salsa	7.15	18.35	61.70	85.00	82.95	79.25	75.80	73.20
3424U	Giant Ristra	1.55	4.70	19.75	34.30	30.95	28.85	27.30	26.00
3508	Sahuaro	7.40	19.30	68.60	95.40	92.95	89.00	85.15	82.20

Cat#	Pepper	1/32 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb
3342U	Anaheim Chili	2.00	4.00	6.45	22.70	36.55	61.80
3392	Cayenne Large Red	2.40	4.85	7.85	27.80	49.25	90.20
3487U	Mulato Isleno	2.15	6.25	10.00	35.80	63.20	116.00
3506U	Poblano	1.75	6.20	10.15	35.60	63.00	115.70





## More Hot Peppers

Variety	Days	Shape and Color	Disease	Description
<b>Habanero</b>				
3398 Chicken Itza F1	115-120		Resistant Tobamovirus	Classic crinkled fruit 2.5" x 1.25", firm walled and medium large. Hybrid habanero with more robust plant than OP. 15,000-18,000 Scoville units.
3427U Habanero	90			Wrinkled, thin walled 1" x 2" fruit, tapering to a point. Extremely pungent at up to 200,000 Scoville units. Fresh Mkt, Processing.
3512 Roulette F1	85			HEATLESS Habanero. All the flavor with no heat. Tests nationwide noted no off-types. Handsome erect 3.5 ft plant bears 100 or more 1 oz (3" x 1.5") fruit over long harvest season.
<b>Hot Banana</b>				
3440U Inferno F1	60-70 yellow 70-80 red			Hungarian Wax type, with color shifting from yellow thru orange to red thru the season. A mixed color package can be harvested for great mkt appeal.
<b>Jalapeño</b>				
3480 Megatron F1	65 green, 74 red		Resistant BLS 0-3, 78i TMV0	Extra large 4.5" fruit. Avg weight 3 oz. Strong, compact plants have multiple disease resistant.
3412 Felicity F1				Heatless Jalapeño. Lots of flavor, no heat. Continuous fruit set for potentially high yields of thick walled large fruits. 18-24" plant is semi upright & medium strong.
3450U Jalafuego F1	70		Resistant BLS 1-3, PMV, PVY 1-2	High percentage of long jumbos. Gives good length even under stress. Large, smooth, thick-walled fruit avg 3" x 1". Quite hot (4000-6000 Scovilles). Vigorous plant with broad disease pkg enhances potential for high yield. Fresh Mkt. Shipping, Poppers, Processing.
3462U Jalapeño M	72			Bright red fruits 3.5" x 1.5" with thick, pungent flesh. Upright plants 26"-36". Fresh Mkt. Processing.
3496U Paquime F1	50-70		Resistant PMV 0, Tolerant N	Very large thick-walled. Fruit 4.75" L x 1.5" W at shoulder. Vigorous 24" plants set fruit high in plant, provide strong sun cover. Fresh mkt, Shipping, Poppers.

Cat#	Pepper (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3398	Chicken Itza	10.20	26.50	101.00	99.35	96.75	92.80	88.70	85.70
3412	Felicity	3.65	9.35	36.55	58.00	56.15	54.85	53.50	52.55
3440	Inferno	5.85	15.30	60.40	95.75	93.35	89.30	85.50	82.50
3450U	Jalafuego	4.65	12.00	47.40	64.80	62.70	61.25	59.80	58.70
3480	Megatron	3.30	8.50	33.55	53.20	51.55	50.30	49.00	48.20
3496U	Paquime	5.90	17.70	69.65	110.65	107.75	104.90	101.95	99.95
3512	Roulette	7.15	19.30	75.35	120.55	114.75	108.85	103.85	

Cat#	Pepper	1/32 oz	1/2 oz	oz	1/4 lb	1/2 lb	1 lb
3427U	Habanero	5.15	22.90	36.90	118.15	155.95	283.55
3462U	Jalapeno M	2.35	4.60	7.15	25.70	45.60	83.35

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





Spicy Slice F1








Thai Hot Culinary



Pathfinder

## More Hot Peppers

Variety	Days	Shape and Color	Disease	Description
<b>More Jalapeño</b>				
3534 Spicy Slice F1	75-80 green, 85-90 red		Resistant BLS 1-3, 7-8 Tolerant TEV	Extra long pepper, 4.5" x .8". Excellent slicer with high L/D ratio, blunt cylindrical shape and firm texture. Stays smooth and clean well into maturity. Slow to check. Medium pungency, good flavor. Widely adapted. Vigorous prolific plants provide good cover.
3622U Tam Jalapeño #1	85			For those who enjoy the flavor of jalapeños with less heat. Fruit is 3" x 1" and plant is 24" tall. Perfect for pickling or salsa.
<b>Oriental Chili</b>				
3625U Thai Hot Culinary	65-90			Pointy red-hot 2-3" peppers in upright clusters. Great for cooking. Branching plant is 16". Sold as plants, bunches or dried fruit. Fresh Mkt, Bunches, Bedding.
<b>Serrano</b>				
3404 Cocula F1	75 green, 80 red		Resistant PVY 0, Tolerant Pc	Concentrated set of cylindrical fruit, slightly tapered at tip. Medium thick walls. Mildly pungent at 800-1000 Scovilles. Fresh Mkt, Processing.
3495 Pathfinder F1	60-75		Resistant BLS 0-3,7,8	Abundant, shiny deep green serranos, 4.5" to 5" long x 0.25" diam, borne on strong, compact 18-24" plants. Well adapted to both hot and cool weather. Capable of big crops in less space. Dense foliar canopy offers excellent protection against sun scald and helps the fruit stay smooth and shiny green over long season. Fresh mkt, shipping, processing.

Cat#	Pepper (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3404	Cocula	6.25	16.30	65.00	73.20	69.50	65.95	62.95	
3495	Pathfinder	3.65	10.40	41.00	65.00	63.20	61.60	60.15	59.00
3534	Spicy Slice	5.55	14.50	56.85	78.40	76.15	74.20	72.40	71.20
3625U	Thai Hot Culinary	1.65	2.60	10.75	18.70	16.80	15.70	14.85	14.15

Cat#	Pepper	1/32 oz	1/2 oz	oz	1/4 lb	1/2 lb	1 lb
3622U	Tam Jalapeno #1	2.40	4.60	7.45	26.40	46.95	85.95





Cajun Belle



Mariachi F1














Mad Hatter F1



Ghost

## Specialty Hot Peppers

Variety	Days	Shape and Color	Disease	Description
3380U Buffy F1	70			Capsicum frutescens. Deep green to red. Beautiful, fiery pepper with delicious aromatic undertones scored high in nationwide trials. Fruit are hot with great flavor, very thick walls. Robust plants 18-25" tall x 25" wide bore 250-280 fruit per plant over the season. Plant is compact, sturdy, provides good cover and tolerates hot and humid weather. Fruit are 1.5" long and 0.6" across. Fresh mkt, shipping, processing.
3371U Cajun Belle	61			Sweet bell shape, 3" x 2" with 3-4 lobes. Great flavor combo of sweet and heat loaded with Vitamin C. Compact plants are 2 ft tall x 2 ft wide. Scoville rating 200-300. Good in patio container. No disease problems noted during AAS trials.
3401U Cowhorn	75			Distinctive curved pods 6-10" long, resemble cows' horns. Vigorous dark green 3 ft plants bear pendant fruit in abundance. Fresh Mkt, Sauces.
3420 Ghost (Naga Jolokia)	100-120			Capsicum frutescens. Said to be the world's hottest pepper. Originates in Assam region of India, where the sources were kept secret for many years. 2" teardrop fruits start lime green and ripen to scarlet orange. Grow in warm conditions for maximum pungency. It would be a good idea to wear disposable gloves when handling seed or fruits, and to avoid contact with eyes, as for any hot pepper. Note: Also sold as Bhut Jolokia.
3434 Holy Mole F1	85 green, 99 chocolate		Resistant TMV	Pasilla type. Tapered fruits 7-9" x 1.5" mature from green to dark chocolate. Plant grows up to 3 ft tall x 30" wide. Distinct flavor, only mid-hot at 700 Scovilles but very full of other sweet and meaty aromas. Pasilla is preferred type for Mole recipes. Fresh mkt, Dried, Sauces.
3437 Hungarian Yellow Wax Hot	65			6" long x 2" wide fruits are tapered with very thick, hot flesh. Fresh Mkt, Processing.
3474 Mad Hatter F1	68 green, 88 red			Exotic shape, edible and ornamental. Trials reported excellent vigor, earliness, high yields, large 2" x 3" size and lovely sweet, citrusy taste with tinge of heat near seeds. Showy & novel three-sided shape. Robust plants 24" container, 36" garden. Ethnic cuisine.
3477 Mariachi F1	66		Resistant Tobamovirus	Caloro chili type. Conical 4" x 2" bluntly tapered fruit. Abundant set over long season. 500-600 Scovilles. Plants 18-24". Fresh Mkt, Shipping, Roadside.
3507U Red Cherry Large Hot	77			Hot cherry type. 1.5-2" fruits. Strong upright plants to 20". Fresh Mkt, Pickling, Processing.
3617U Tabasco	80			OP. Capsicum frutescens. Very hot, light yellow, green to red. Tall plant, fruit grows almost erect from the branches. Special type of famous sauce, strong pungency laid over classy flavor.
3638 Witch Stick				Extremely early. Unique tricolor pepper, bands of green, gold, and red all on the same pencil-thin 6" twisted-spiral fruit. Medium mildly hot.

Cat#	Pepper (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3380U	Buffy	4.40	13.65	57.30	99.55	89.75	83.70	79.15	75.40
3371U	Cajun Belle	4.80	14.65	59.00	100.00	88.60	81.20		
3434	Holy Mole	6.00	18.50	62.20	79.45	77.40	74.20	70.85	68.60
3474	Mad Hatter	5.15	12.15	56.60	104.95	87.40	79.00		
3477	Mariachi	8.80	22.75	68.35	108.40	105.65	101.15	96.70	93.35
3638	Witch Stick	3.15	9.60	38.85	66.15	58.45	53.45		
3420	Ghost (Naga Jolokia)	3.25	11.00	51.00	85.50	75.00			

Cat#	Pepper	1/32 oz	1/8 oz	1/4 oz	1/2 lb	1 lb	1 lb	1 lb
3401U	Cowhorn	1.90	6.15	9.90	34.90	61.85		113.40
3437	Hungarian Yellow Wax Hot	2.00	7.35	11.85	36.85	63.00		105.75
3507U	Red Cherry Large Hot	1.65	6.15	9.90	34.90	61.85		113.40
3617U	Tabasco	1.80	20.40	32.90	116.25	206.00		378.00

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





Early King F1



Early Giant F1



## PUMPKINS (Cucurbita Pepo)

About 100-200 sd/oz. large seeded; approx. 200-300 sd/ oz. small seeded. Hybrid packets contain 15 seeds; OP packets produce 10 hills; ½ oz sows 100' of row. Sow 1lb/acre. Sow 1" deep, about 3 ft. apart in rows 7.5 ft. apart. Germ in about 7 days. **Days to maturity** are from sowing. For Pumpkins designed to reach 30 lbs or more: to maximize fruit weight, provide wider spacing. Up to 75 sq. ft. per plant for show size pumpkins.




Howden Biggie PVP

GIANTS - Display or Competition	Days	Weight	Shape	Color	Disease	Description
<b>3735U</b> Big Max	120	100	Round	Pink Orange		OP. Prize winning up to 100 lb. fruit. Distinctive pinkish-orange rind. Bright yellow-orange flesh. Good cooking quality. Fresh Mkt, Harvest Fairs, U-Pick.
<b>3738</b> Big Moose	120	50-125	Round	Red Orange		OP. Giant Jack-O'-Lantern with yield almost like a hybrid. Fruit size ranges 50-125 lbs. Uniform size & shape. Jack-O'-Lantern, Cornucopia, Harvest Fairs.
<b>3766U</b> Dill's Atlantic Giant	120	100-600	Round	Classic Orange		OP. Capable of producing giant show pumpkins in the range of 100-600 lbs. Slightly rough, nicely ribbed rind. Large vine.

LARGE - Jack-O'-Lanterns						
3751 Captain Jack F1	100-110	30+	Howden	Deep Orange	Tolerant 	Thick flesh & flat bottom enable fruit to stand on its own & not collapse under its own weight. Medium deep ribbing. Thick embedded handle. Vigorous vines support several fruits.
3763 Early Giant F1	95	25-30	Howden	Deep Orange	Tolerant 	Early, mostly tall face shaped fruit. Imposing brow and wide flat base make it a premium carving variety. Deeply ribbed. Earliness means more chances to make the sowing window for Halloween mkts. Full, strong vine supports growth of sizeable fruit.
3767 Early King F1	90	25-30	Tall Round	Deep Orange	Tolerant 	Very early with PM trait. Round to slightly tall fruit are great for carving. Earliness provides more chances to make the sowing window for Halloween markets. Full heavy vine supports large fruit development. Smooth ribbed orange globes with broad stable base and thick dark carrying handle.
3794 Howden Biggie PVP	115	40	Howden	Deep Orange		OP. Capable of extra large classic shaped fruit. Raised from elite stock seed. Durable scratch resistant skin. Firm thick flesh. Sturdy handles.
3813 Large Marge F1	105	30-40	Round	Deep Orange		Very large round pumpkin. Capable of multiple fruit set per plant while maintaining large size. Avg size is 30-40 lb and 13"x 13" diam. Exterior is deep orange, ribbed and wrinkled. Very strong & large dark green embedded handle, about 5" long, supports fruit size well. Vigorous indeterminate vines.
3837 New Moon F1	80-90	25-35	Round	White		White flesh & rind is a breakthrough in appearance in the novelty pumpkin. Uniform 16" diameter. Firm flesh holds for weeks but fades to ivory over time.

Cat#	Pumpkin	¼ oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
<b>3735U</b>	Big Max	5.60	13.20	27.40	42.95	65.65	53.50	39.15	34.70
<b>3766U</b>	Dill's Atlantic Giant	6.40	18.75	65.55	113.85	205.25	191.50	181.15	172.50

Cat#	Pumpkin (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3738	Big Moose	17.45	53.55	224.25	390.15	352.15	328.00	310.35	295.15
3751	Captain Jack	6.65	19.00	74.65	118.55	115.90	111.70	107.50	104.40
3763	Early Giant	6.90	20.55	80.75	128.15	118.75	110.20	101.55	95.60
3767	Early King	6.50	20.15	79.00	125.55	116.35	107.90	99.45	93.60
3794	Howden Biggie	10.15	31.45	132.75	228.15	185.60	178.80	173.75	165.20
3813	Large Marge	6.70	19.00	74.65	118.55	115.90	111.70	107.50	104.40
3837	New Moon	17.25	47.45	186.45	295.95	281.00	266.15	251.25	240.70

Pumpkin Disease Codes	
<b>CMV</b>	Cucumber Mosaic Virus
<b>SRR</b>	Southern Root Rot
<b>BR</b>	Black Rot
<b>WMV</b>	Watermelon Mosaic Virus
	Powdery Mildew





Howden



Mustang PMR F1



Super Moon F1

LARGE - Jack-O'-Lanterns	Days	Weight	Shape	Color	Disease	Description
3749 Camaro PMR F1	110	20-23	Round	Classic Orange	Resistant 	Trials from CO, IN, CA & NY report higher level of PM resistance than found in previous genetics. Fruit have long firmly attached handles, thick flesh, slight to medium ribbing, and classic orange rind. Restricted vines show high yield potential of tonnage per acre.
3755U Connecticut Field	115	15-20	Round	Classic Round		OP. Selected strain produces large, orange fruits with attractive appearance.
3770 Early Prince F1	90	15	Round	Deep Orange		A workhorse which allows for flexibility in sow-dates up to mid-July when targeting October market window. Excellent growing reported in Mid-Atlantic, Northern, West Coast and Canadian markets.
3795U Howden	115	20-25	Howden	Deep Orange	Tolerant BR	OP. Classic Halloween pumpkin shape, deeply ribbed orange globes with tall, imposing brow, broad stable base and substantial green carrying handle. Good keeper. Fresh Mkt, Roadside, Halloween, Shipping.
3798 Hulk F1	100	30	Howden	Deep Orange		Extra large 30 lb barrel or Howden shaped fruit, 16-18" tall x 12-14" wide. Deep burnt orange color with pronounced ribs and husky, 5" deep green embedded handle. Vigorous vines with broad leaves set multiple fruits per plant and tend to grow them all to reach large size. Good potential for high yield of extra-large fruit. Jack-O'-Lantern.
3811 Jason F1	100	20-24	Howden	Deep Orange	Tolerant 	Premium quality Jack-O'-Lantern. Slightly elongated, Howden style face shape. 20-24 lb average weight. Vine is medium sized and quite healthy. Dark orange rind, orange flesh. Superb long strongly attached handle. Potential for high yield, 1-2 fruits per plant, sometimes 3 under favorable conditions. This fits the slot of the old ProGold 510.
3832 Mr. Wrinkles F1	110	20-30	Tall Round	Deep Orange		Large barrel shaped fruit. Extremely deep orange, deeply wrinkled and ribbed. Rugged 5" deep green embedded handle. Thick flesh, very strong vine, exceptional yield potential.
3834 Mustang PMR F1	100	22	Round	Classic Orange	Resistant 	Rich orange rind with thick flesh. Sutures are distinct, but smooth and refined. Long dark green sturdy handles for easy pickup. Very uniform. Superior disease rating and healthy reduced vine plant type give excellent chance for high yield.
3896 Super Moon F1	90	25-30	Tall Round	White	Tolerant SRR, 	Great white pumpkin. Can weigh up to 50 lbs with rich culture. Vine spreads 4-5'. Trials noted average 2-4 fruit per plant. Strong disease package results in hardy vine and high yield potential. Pale yellow flesh good for eating. AAS Regional, Great Lakes & SE. Decorating, Jack-O'-Lantern, Culinary.
3899 Ugly Mugly F1	100	15-20	Flat Round	Light Orange		So ugly you have to love it. Skin is dimpled, light orange, flecked with pale splotches. Ribs are wide spaced & deeply creased. Large vigorous, trailing vines capable of high yield and high % of large heavy fruit. Globe shape with slightly flattened ends sits well. Very long light green handle with white stripes.

Cat#	Pumpkin	¼ oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
3755U	Connecticut Field	2.00	3.00	5.45	9.35	16.90	15.80	14.95	14.20
3795U	Howden	2.25	3.45	8.50	14.90	26.75	24.30	20.00	17.20
3896	Super Moon	7.00	20.40	66.90	106.15	132.30	123.50	115.50	108.85

Cat#	Pumpkin (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3749	Camaro PMR	6.35	16.45	64.80	90.20	86.85	82.80	78.80	75.85
3770	Early Prince	7.15	21.15	83.15	132.00	122.35	113.45	104.60	98.45
3798	Hulk	6.90	19.00	74.65	118.55	115.90	111.70	107.50	104.40
3811	Jason	9.50	24.55	96.40	153.00	141.90	131.55	121.30	114.15
3832	Mr. Wrinkles	5.50	15.75	61.85	98.25	96.00	92.55	89.15	86.55
3834	Mustang PMR	5.00	15.35	64.45	111.90	100.90	94.00	89.00	84.75
3899	UglyMugly	6.55	16.90	66.70	104.50	97.50	90.40	83.35	78.45



Camaro F1





Lumina



Corvette PMR F1



Cougar PMR F1






Hobbit PMR F1



Casper PMR PVP F1



Hijinks F1

LARGE - Jack-O'-Lanterns	Days	Weight	Shape	Color	Disease	Description
<b>3750U Casper</b>	90	10-15	Round	White		OP. Improved to minimize bluing under stress, which affects some white pumpkins. Thick orange interior. Distinct tan, corky handles. Good for eating. Fresh Mkt.
<b>3758 Corvette PMR F1</b>	110	11-14	Round	Classic Orange	Resistant 	Slightly ribbed with very strong handle attachment. Semi-bush habit and strong disease package improve chances for plenty of pumpkins.
<b>3759 Cougar PMR PVP F1</b>	80	10-12	Round	Classic Orange	Resistant 	Earliest of the PMR series. Nice ribbing and strong, dark green handles. Vigorous large vines. Earliness allows for later sowing toward the Halloween mkt window and/or better insurance against bad weather at the end of season.
<b>3790 Hobbit PMR F1</b>	93	10-12	Round	Deep Orange	Tolerant CMV 	Early maturity enhances flexibility at planting and super harvest window. Smooth skin. Semi-vine habit. First multiple disease package in medium size pumpkin.
<b>3815 Lumina</b>	110	10-15	Variable	White		OP. Size & shape vary from globe to flat globe. Harvest slightly immature for better white color. Flesh is bright orange. Ideal for painting, carving, decorating. Stress will cause blue tinge to the skin. Fresh Mkt.

Cat#	Pumpkin	¼ oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
<b>3750U</b>	Casper	3.20	9.45	32.85	57.25	103.20	96.50	92.00	87.50
3790	Hobbit PMR	19.15	55.55	182.15	288.90	151.20	141.15	132.00	124.40
3815	Lumina	5.55	16.50	57.60	100.55	142.40	133.85	130.80	127.95

Cat#	Pumpkin (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3758	Corvette PMR	5.90	15.25	60.00	83.50	80.40	76.65	72.95	70.25
3759	Cougar PMR	6.85	17.70	69.60	96.85	93.25	88.90	84.60	81.50








**Early Abundance  
F1**




**Cinderella's  
Carriage F1**



**Darling F1**

LARGE - Jack-O'-Lanterns	Days	Weight	Shape	Color	Disease	Description
<b>3761 Darling F1</b>	90	6-8	Tall Round	Deep Orange	Resistant 	Tall face for its size makes it unique in its class. Uniform size & color. Restricted vine length allows for closer spacing. Jack-O'-Lantern, Cornucopia, Pie.
<b>3762 Early Abundance F1</b>	90	4-6	Round	Deep Orange	Resistant 	Small, early pumpkin with uniform size & color. Nice handle in proportion to fruit size. Large, vigorous vine. Jack-O'-Lantern, Cornucopia, Pie.
<b>3788 &amp; 3788U Hijinks F1</b>	100	7-9	Round	Classic Or- ange	Tolerant 	Consistent, square shouldered shape great for carving. Medium ribbing. Dark green durable handles are good for carrying. Vigorous vines up to 15'.
<b>3835 Neon F1</b>	65	7-8	Round	Classic Or- ange		Earliest Jack-O'-Lantern. Handle is emerald black. Semi-bush plant, can achieve high density and average two grade A's per plant. Fruit maturity can occur well before disease damage, tending to avoid BLS, fruit rot or weak stem.

CINDERELLAS	Days	Weight	Shape	Color	Disease	Description
<b>3754 Cinderella's Carriage F1</b>	100	23-33	Flat Round	Red Orange	Tolerant 	First hybrid Cinderella pumpkin. Magical, luminous reddish-orange with higher yield than OP varieties, up to 5-7 per plant. Tested well across many areas of the US. Sweet, nutty, yellow flesh. Cornucopia, Jack-O'-Lantern, Culinary, Southeast, Great Lakes, Mountain/Southwest.
<b>3780U Halloween in Paris</b>	110	15-20	Flat Round	Yellow		OP. Bright peach yellow tinted version of Vif d'Etampes type. Huge flattened fruits with sweet, light yellow flesh, a popular ingredient in Parisian soups. Very bright & showy for novelty sales.
<b>3880U Rouge Vif d'Etampes</b>		15-20	Flat Round	Red Orange		OP. Improved early strain of French heirloom type. Extremely deep ribs. Golden interior. Long keeper.

Cat#	Pumpkin	¼ oz	1 oz	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
3754	Cinderella's Carriage	7.55	18.45	60.50	96.00	132.30	123.50	115.50	108.85
<b>3780U</b>	Halloween in Paris	3.70	10.90	38.20	66.45	119.95	111.40	105.65	99.95
<b>3880U</b>	Rouge Vif d'Etampes	2.15	6.35	22.85	39.45	71.60	53.40	45.90	42.30

Cat#	Pumpkin (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3761	Darling	5.70	17.55	73.50	127.60	115.00	107.30	101.50	96.70
3762	Early Abundance	6.90	20.45	80.40	127.60	118.30	109.75	101.15	95.15
<b>3788&amp;3788U</b>	Hijinks	6.15	17.15	67.25	106.75	104.40	100.60	96.90	94.00
3835	Neon	4.90	12.90	50.60	80.25	77.25	73.65	70.15	67.50





Goosebumps F1



Snowball F1



Sunlight F1





Grey Ghost F1



Sanchez



Baby Bear PVP

DECORATIVE & CORNUCOPIA	Days	Weight	Shape	Color	Disease	Description
3725 Baby Bear PVP	105	1.5-2	Round	Classic Orange		Irresistible baby pumpkins, sized for children's hands. Shallow ribs. Vining plants produce 8-10 fruits. Good for pack sales. Fresh Mkt, Carving, Painting, Pie.
3778 Goosebumps F1	95	8-12	Round, Warty	Classic Orange		Eerie appearance, heavily encrusted with warts. Attracts a lot of attention. Hard, durable warts resist damage in handling. Warts start green and mature to orange or tan. In some conditions, warts may stay green longer than the rest of the pumpkin. 1-3 fruit per plant, sometimes 4 under favorable conditions.
3779 Grey Ghost F1	95-100	11-17	Round	Grey	Tolerant 	Grey rind & deep orange flesh. Early maturity. Very good flavor. Fruit shape slightly flattened & smoothly ribbed. Outstanding storage potential.
3892 Sanchez	95	4-6	Flat Round, Warty	Classic Orange		OP. Totally warty, squatty fruit. Very cool novelty pumpkin. Vigorous full vine. May contain 3% longer off-types.
3893 Snowball F1	85-90	2-4	Round	White		Smooth pure white fruit with contrasting deep green handles. Vigorous vines with potential for 10 or more fruits under favorable conditions.
3894 Sunlight F1	90	8-10	Round	Yellow	Tolerant 	Matures to intense bright yellow. Children have been seen making a beeline to this pumpkin, attracted by the cheerful color and deep green handle. Semi-bush habit. Fresh Mkt, Cornucopia, Roadside, Shipping, Home Garden.

Cat#	Pumpkin (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3725	Baby Bear	2.00	4.85	19.70	34.20	30.90	28.85	27.30	26.00
3778	Goosebumps	9.55	29.30	114.75	182.15	168.85	156.55	144.40	135.75
3779	Grey Ghost	5.15	15.80	62.15	98.60	91.35	84.75	78.15	73.55
3892	Sanchez	3.95	12.00	50.30	87.55	78.45	73.95	69.30	65.95
3893	Snowball	9.00	26.65	104.20	165.25	156.90	148.50	140.30	134.40
3894	Sunlight	10.25	28.85	113.50	180.25	167.15	154.95	142.90	134.40





Casperita F1



Batwing



Jack Be Little

DECORATIVE & CORNUCOPIA	Days	Weight	Shape	Color	Disease	Description
<b>3727U Batwing</b>	90	1.5-2.5	Round	Black on Orange		OP. Unique pattern. Multicolored orange, black and bicolored. The black sectors recede with maturity, creating a scalloped black-on-orange pattern like bat wings on the moon. Turns solid orange at full maturity. For strongest color show, plant late & harvest young.
<b>3747 Bumpkin F1</b>	85	4-8oz.	Flat Round	Classic Orange	Tolerant 	Mini pumpkin with PM tolerance. Deeply ribbed. Cute & very productive. Small seeded, about 300-400 per oz. Semi-bush habit. Cornucopia, Decoration.
<b>3753 Casperita F1</b>	77	8oz.-1lb.	Round	White	Tolerant WMV, 	Beautiful for cornucopia as mini white pumpkin. Deeply ribbed. Edible sweet golden flesh comparable to acorn squash. Semi bush habit. Mini-White, Face Painting, Cornucopia, Table Squash, Fresh Produce, Shipping.
<b>3777U Gooligan F1</b>	95	4oz.	Flat Round	White		Hybrid Baby Boo type. High percentage of white, deeply ribbed fruit with great eating quality. Vine covers well against sunburn. Grow with Hooligan & Jack Be Little for fall ornamental mixture. Cornucopia, Ornamental.
<b>3782 Harvest Prince F1</b>	85	1 lb.	Round	Deep Orange	Tolerant 	Small round sugar pie pumpkin. Excellent for cooking, crafts or carving.
<b>3797U Hooligan F1</b>	95	4oz.	Flat Round	Bicolored Orange	Tolerant 	Unique bicolored orange and white mottled. Vigorous vine covers well against sunburn. Novelty for fall ornamental mixture.
<b>3800U Jack Be Little</b>	95	3-4oz.	Flat Round	Classic Orange		OP. Popular mini pumpkin much in demand. Excellent keeper after curing. Prolific plants, 8-10 fruit per large vine. Fresh Mkt, Ornamental, U-Pick.
<b>3897 Toad F1</b>	85	1.5-2.5	Round, Warty	Classic Orange		Aptly named, hand-sized pumpkin covered in warts and bumps. Semi-hard shell. Embedded handle for easy carrying. Bush habit allows close spacing and works well in gardens. Warts may disappear in stressed growing condition. Fresh Mkt, Cornucopia, Roadside, Shipping, Home Garden.
<b>3850 Pepitas F1</b>	90	9-12	Round	Yellow	Tolerant 	Dual use: hullless seed for roasting and decorative rind for cornucopia and Jack-o-Lantern. Average 12"14" diameter. Rind is golden with green streaks. Edible flesh is pale yellow, good for eating like winter squash. Trials reported yield average of 5-6 fruits per plant on vines spreading 4-5' long. Vine vigor and yield benefit from disease package.
<b>3900U Wee-B-Little</b>	85	8oz.	Flat Round	Deep Orange		OP. A true pumpkin but scaled down to miniature size. Matures from yellow to deep orange. Slightly ribbed. Small seeded. Fresh mkt, U-Pick.

Cat#	Pumpkin	¼ oz	oz	½ lb	¾ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
<b>3727U</b>	Batwing Mixture	4.25	14.35	50.75	88.35	157.60	148.00	137.30	132.55
<b>3747</b>	Bumpkin	9.50	23.15	75.80	120.25	151.20	141.15	132.00	124.40
<b>3777U</b>	Gooligan	8.65	21.00	68.95	109.45	151.20	141.15	132.00	124.40
<b>3782</b>	Harvest Prince	7.45	18.15	59.45	94.35	151.20	141.15	132.00	124.40
<b>3797U</b>	Hooligan	8.65	21.00	68.95	109.45	151.20	141.15	132.00	124.40
<b>3800U</b>	Jack Be Little	1.80	5.25	18.40	31.90	55.90	38.75	35.35	33.25
<b>3850</b>	Pepitas	8.50	20.65	67.50	94.35	151.20	141.15	132.0	124.40
<b>3900U</b>	Wee-B-Little	5.90	17.85	60.85	103.80	176.95	135.60	117.20	106.40

Cat#	Pumpkin (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
<b>3753</b>	Casperita	7.75	20.15	79.15	125.70	116.60	107.95	99.60	93.70
<b>3897</b>	Toad	6.95	17.85	70.00	107.55	105.20	101.35	97.55	94.75

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





Summer Cross F1



Cherry Belle F1



Crunchy Royale F1

## Radish (*Raphanus sativus*)

About 2,500 sd/oz. Pkt plants 30' of row; 1 oz sows 100'. Direct sow 10-20 lbs/acre. Sow sd 1/4-1/2" deep, 1/2-1" apart in rows 8-18" apart. Germ in about 6 days. **Days to maturity are from sowing.**

### Salad Types

**3930 & 3930U Cherry Belle** 26 Days. Well known variety produces small, bright cherry red roots for salad use. Short tops even in warm weather; fine for muck soil. Packing, Bunching, Forcing, Fresh Mkt.

**3925 Cherriette F1** 23 Days. Cherry Belle type. Bright cherry-red, crisp flesh, pith free, globe shaped. Bred for increased uniformity and marketable yields.

**3934U Crayon Colors Mix** 25-28 Days. Vivid colored mix of yellow, pink, red and purple. Tops are 4-6" tall. Bright white interior flesh. When growing blended color radish, avoid thinning, as this will tend to remove some colors disproportionately.

**3937 Crunchy Delight F1** Large round scarlet red summer radish with clean, bright white interior. Roots and plants very uniform. Upright medium size plant. Roots maintain crispy texture well into large size range. Fresh Mkt., Bunch, Cello, Slicing.

**3935 Crunchy Royale F1** 24 Days. Deep red, round, extremely uniform root formation with high pack-out rate, high quality interior with excellent crispness and bright white color. Quality stands up well to 4" size. Pith tolerant. Bunching, Cello, Fresh Mkt.

**3950 Hailstone** 25 Days. Pure white skin and pure white flesh. Good holding ability, remaining crisp and firm a long time. Medium size tops are larger than most early globe types and dark green. Good for either spring/fall sowings. Bunching, Forcing, Fresh Mkt.

**3969U Watermelon** 29 Days. An unusual oriental heirloom with daikon-like flesh but round shape. Large 3-4" diam round roots with white skin and green shoulders and red to pink interior. Crisp, mild and sweet. Robust top foliage makes harvest easy. Best color and mildest flavor comes from early harvest of smaller roots. Fresh Mkt, Restaurant.

**3970U White Icicle** 27 Days. White, elongated roots to 5". Does well on muck/upland soils. Short tops, even on fertile soils. Bunching, Forcing.

### Daikon Types

**3955 & 3955U Minowase Summer Cross #3 F1** 50 Days. For late spring/summer planting. Large, uniform pure white roots that are up to 16" x 2.5". Very mild, sweet and juicy. Excellent raw, in salads or Asian dishes. Heat tolerant. Resistant FW.

**3962 New White Spring F1** 60 Days. Korean daikon type. Vigorous upright tops with slow bolting characteristic. Suitable for spring and fall harvests. Heavy blunt pure white roots, 10-12", up to 1.5 lb. Tolerant CR. **Note: Needs 50°F soil temp. for good spring germ.**

**3961 Relish Cross F1** 60 days. Spring or fall sowing. Smooth white root with distinct green neck. Crisp texture and mild flavor. May be harvested at 3-4" from dense sowings or roots up to 2 lbs each at wider spacing. Resists bolting and pithiness. Fresh Mkt. Shipping. Pickling.

**3965 Tae Baek F1** 70 Days. Best suited to late summer planting. Short, blunt white roots tinged green weigh about 2 lbs each; very firm and uniform. Highly tolerant CMV, DM, and bacterial soft rot. Stores well, to 4-5 months. Kimchee, Fresh Mkt.

#### Radish Disease Codes

CMV	Cucumber Mosaic Virus
CR	Club Root
DM	Downy Mildew
FW	Fusarium Wilt
FY	Fusarium Yellows
RZ	Rhizoctonia solani

Cat#	Radish	1/16 oz	1/8 oz	oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
3955&3955U	Minowase Summer Cross #3	2.25	13.20	21.60	77.90	138.15	238.65	222.35
3962	New White Spring	2.90	12.65	20.90	74.85	134.25	246.25	229.00
3961	Relish Cross	3.15	15.00	24.55	84.15	151.40	276.25	256.45

Cat#	Radish	1/4 oz	oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
3930&3930U	Cherry Belle	2.00	3.35	3.95	5.45	9.80	9.00	8.15
3934U	Crayon Colors Mix	1.65	1.75	6.00	10.35	18.45	16.80	15.75
3950	Hailstone	2.65	4.70	5.60	10.15	16.90	15.45	14.40
3969U	Watermelon	1.65	2.40	8.00	13.55	24.00	22.00	
3970U	White Icicle	1.95	3.25	4.15	5.25	8.75	8.00	7.50

Cat#	Radish (M=1000)	500 sds	1000 sds	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
3925	Cherriette	1.90	2.70	2.20	1.65	1.60	1.50
3937	Crunchy Delight	1.75	2.75	2.20	1.75	1.65	1.60
3935	Crunchy Royale	1.80	2.80	2.25	1.85	1.75	1.65
3965	Tae Baek	7.95	12.60	10.15	8.20	7.75	7.30



# Spinach (Spinacia oleracea)

Approx. 2,800 seeds/oz. Pkt plants 25-30' of row; 1 oz sows 100'. Direct sow 10-15 lbs/acre. Sow seeds 1/2-1" deep, 2-6" apart in rows 12-36" apart. Germs in about 8 days. Days to maturity are from sowing.

**3999U Bloomsdale** 30-60 Days. Leaves are heavily savoyed, thick, dark glossy green, crumpled, and twisted. Fast growing with very good yields for OP. Slow bolting, high yielding, resistant to heat and cold. Good for fall or spring markets. Fresh Mkt, Long Distance Shipping, Processing.

**4000 Countryside F1** 23-27 days baby leaf, 43-47 days mature leaf. Very uniform with thick, smooth, dark green oval leaves. Good bolting tolerance for mature-leaf crop. Also good holding ability with moderate growth habit for baby-leaf production. Very broad resistance to DM races. Resistant DM 1-12, 14-16. Fresh mkt.

**4005 Imperial Star F1** 30-37 days. Fast growing Asian type with smooth, spade shaped foliage. Very dark green leaf & upright habit and extra sturdy petioles, an excellent combination for bunching. Quite cold tolerant. Recommended planting window is late fall or early winter. More resistant to bolting than other Asian types. Broad resistance to DM races. Resistant DM 1-7, 9, 11, 13-16. Fresh mkt, Bunching.

**4006 Plymouth F1** 40-45 days. Uniform, upright, full leaf foliage is spade-shaped, thick and slightly savoyed, medium dark green with erect stems. Quick growing with extra broad disease package to promote high yield potential. Resistant DM 1-11, 13, 15, 16. Fresh mkt, Processing.

**4011 Seaside F1** 25-30 Days Baby Leaf, 35-40 Days full leaf. Quick cropping, with great uniformity. Smooth, thick, very dark green spade-shaped leaves with good retention of small to moderate leaf size and slow bolting; great traits for baby-leaf production. Broad DM package and upright habit provide for wide adaptability to both full-leaf and baby-leaf mkts, fresh-local growers as well as shippers. Resistant DM 1-11, 15-16. Tolerant DM 12, 14, Baby leaf. Bunch, clip, shipping, local mkt.

**4015 Space F1** 40 Days. Very upright leaves are dark green, smooth and round. Slow bolting monoeccious type good for long season of sowings from spring through fall. Resistant DM 1,2,3. Freezing, Fresh Mkt.

## Strawberry

(Fragaria x ananassa)

Crop time 3-5 months from sowing. Sow in winter for setting out after last freeze in spring. Germ at 72° F, approx. 10-14 days. Give plenty of light after germ. Detailed culture schedule available on request.

**4324 Delizz F1** 120 days from sowing, 60 days from transplant. 4" at first fruit, 10" mature in garden. Daylength neutral. The name says it all. AAS trials reported an average yield of 45 fruits per plant over the season.

**4325 Elan F1** 120-150 days from sowing. 8-12" trailing. Shiny bright red berries with classic biconical shape. White flowers. Test 30%+ more Vitamin C than others.

## Swiss Chard

(Beta vulgaris, Cichla Group)

Approx. 1,600 sd/oz. Also called Leaf Beet. Pkt plants 25' of row; 1/2 oz sows 100'. Direct sow 5 lbs/acre. Sow sd 1/2" deep, 12-15" apart in rows 24-36" apart. Open Pollinated. Germs in about 8 days.

**4329U Bright Lights** 65 Days. This 20" plant has moderate, savoyed leaves. Veins are light green. Petiole colors range from yellow & gold to pink and crimson.

**4334U Fordhook Giant** 60 Days. Vigorous variety provides heavy yields. Thick, fleshy, savoyed leaves with wide, pearly white stalks up to 2.5" across.

**4335U Peppermint** 58-63 Days. Striking appearance. Stalks and ribs are bright with vibrant deep cherry-rose stripes. Glossy intense green leaves are deeply savoyed and borne well above ground. Highly resistant to bolting, adapted to multiple crop seasons. Fresh Mkt, Bunching, Specialty & Restaurant, Ornamental-edible Containers.

**4339 Rhubarb** 60 Days. Edible ornamental variety. Thick, savoyed leaves are reddish green; stalks are brilliant crimson, lending a likeness to rhubarb. Good flavor. Attractive in vegetable or flower plantings.



### Spinach Disease Codes

DM Downy Mildew

Cat#	Spinach (M=1000)	250 sd	2500 sd	10 M (per M)	50 M (per M)	200 M (per M)	500 M (per M)	1000 M (per M)
3999U	Bloomsdale	2.20	4.00	0.80	0.70	0.60	0.55	0.50
4000	Countryside	2.50	3.20	0.95	0.65	0.60	0.55	0.50
4005	Imperial Star	2.50	3.80	1.15	0.95	0.60	0.55	0.50
4006	Plymouth	1.55	4.40	1.45	1.24	1.11	1.02	0.95
4011	Seaside	1.75	2.30	0.75	0.65	0.60	0.55	0.50
4015	Space	2.80	4.00	1.20	1.00	0.75	0.70	0.65

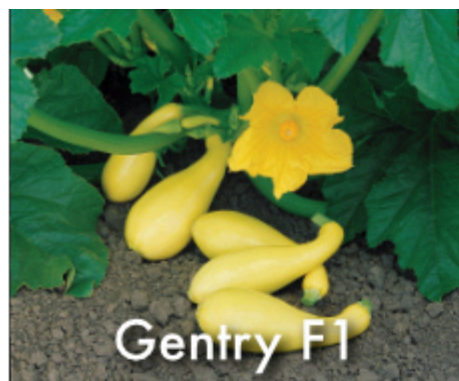
Cat#	Strawberry (M=1000)	10 sd	50 sd	100 sd	1000 sd	5 M (per M)
4324	Delizz	6.00	23.25	33.20	286.00	240.15
4325	Elan	5.60	21.80	31.15	267.90	224.95

Cat#	Swiss Chard	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
4334U	Fordhook Giant	1.95	2.65	3.70	5.00	8.30	7.60
4339	Rhubarb	2.15	4.00	6.90	11.90	19.80	18.50

Cat#	Swiss Chard (M=1000)	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)
4329U	Bright Lights	2.00	4.65	7.45	6.30	5.60	5.15
4335U	Peppermint	1.75	3.85	6.40	5.35	4.70	4.30

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





Gentry F1



Summer Superpik F1

## Summer Squash

(Cucurbita Pepo)

Approx. 120-400 sd/oz. Packet contains 25 sd; 1/2 oz sows 100' of row. Direct-sow 2-6 lbs/acre. Sow sd 1-2" deep, 24-48" apart in rows 36-60" apart. Germs in about 7 days. Days to maturity are from sowing.

### Crooknecks

**4058 Delta F1** 42 Days. Classy crookneck, butter yellow skin, deep green stem, well proportioned base with thick graceful neck. High quality, very uniform. Trials report good potential for high yields due to disease package and dense bush habit. Resistant PM. Fresh Mkt.

**4079 & 4079U Gentry F1** 43 Days. 6 x 1.5". Well known high quality semi-crookneck, butter yellow with medium bulb and small blossom scar. Comparison trial data report top yields in several trials especially across hot Southeastern states. Open vigorous bush with fewer spines which can help limit damage at harvest. Growers are asking for this variety. Fresh Mkt, Shipping.

**4100 Mabel F1** 40-45 days. Bright yellow crookneck with green stem. Showed high yield in Breeder's trials. Very early & uniform. Open bush habit with low canopy, very few spines and low scratch rate. Rated unusually high in Vitamin A & carotenoids. Tolerant PM.

### Straightnecks

**4070 Enterprise F1** 41 days. Attractive bright yellow straightneck with long tapered fruits. Heavy continuous production over a long season. Vigorous bush with high quality fruits. Tolerant PM. Fresh Mkt, Processing.

**4077 Fortune F1** 39 days. Early productive straight neck type with precocious yellow gene which masks or delays virus symptoms. Attractive, smooth, uniform, bright yellow cylindrical fruit, 6" x 1.25", with sturdy neck which resists breakage. Good ability for continuous setting and high yield have been demonstrated in trials. Strong candidate for early crop of baby squash.



Grandprize F1



Enterprise F1



Delta F1



Lioness F1

**4095 Grandprize F1** 42 days. Strong enhanced disease pkg for high yield potential and clean fruit. Smooth, bumpy, glossy deep yellow fruit with strong outer walls and great mkt appearance. Fruit size averages 2" diam x 7" L. Erect habit with semi-open branching and reduced spines allows for easy hand harvest and reduced fruit damage. Tolerant PM, PRSV, WMV, ZYMV. Fresh mkt, Shipping.

**4098 & 4098U Lioness F1** 50 days. Main season. Yellow straightneck, 7" x 2" with medium bulb. High quality fruit. Extremely high yield potential due to very strong disease package. Mid-size bush with good vigor and potential for long harvest window. Tolerant PRSV, WMV, ZYMV. Fresh Mkt, Shipping.

**4173 & 4173U Superpik F1** 50 days. Precocious yellow gene masks green streaking caused by certain viruses, delaying its appearance until later in the season than otherwise. (Masking for CMV & WMV 2 have been noted in trial.) Attractive, marketable, bright yellow stem end. Open habit, midsize vigorous bush. High potential for prolific early yield. Fresh Mkt, Shipping. Resistant CMV, WMV 2.

### Squash Disease Codes

CMV	Cucumber Mosaic Virus
DM	Downy Mildew
PM	Powdery Mildew
PRSV	Papaya Ring Spot Virus
SLC	Squash Leaf Curl
WMV	Watermelon Mosaic Virus
ZYMV	Zucchini Yellow Mosaic Virus

Cat#	Squash (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)	50 M (per M)
4058	Delta	2.00	4.90	19.50	30.45	28.90	27.00	25.65
4070	Enterprise	3.75	9.90	39.30	63.00	59.50	56.00	53.15
4077	Fortune	3.15	8.20	32.55	52.20	49.30	46.40	44.00
4079&4079U	Gentry	3.35	8.65	34.30	54.95	51.90	48.90	46.35
4095	Grandprize	6.65	17.30	68.85	110.35	104.25	98.15	93.00
4098&4098U	Lioness	7.80	20.70	81.70	115.60	107.35	99.20	92.45
4100	Mabel	2.55	6.90	27.30	43.85	40.70	37.60	35.00
4173&4173U	Superpik	4.15	10.25	40.60	57.00	52.95	49.00	45.65



## Green Zucchini

**4035 & 4035U Ambassador F1** 51 Days. Especially good for the South. Uniform, cylindrical fruits are medium dark green. Open plant habit; extremely productive. Fresh Mkt.

**4068U Emperor's Jade F1** 45 days. Glossy deep green fruit are cylindrical, 7-8" x 2". Flesh tender, firm, creamy white with fine clean flavor. Early quality variety with good yield potential, worth testing for your farm because of PM tolerance trait. Tolerant PM.

**4096 Grinch F1** 45-50 Days. Glossy medium dark green with a dusting of small attractive light green freckles and strong walls. Excellent shipper. Size is 6-7"L x 1.5" diam. Open bush habit with very reduced spines and an extended peduncle allow for easy picking and reduced damage. Vigorous plant and strong disease package allows for long picking season high yield potential. Tolerant CMV, PM, ZYMV. Fresh mkt, Shipping.

**4103 Noche F1** 45 days. Large, cylindrical deeply dark green and glossy fruit with long shelf life. Size 7-8"L x 2.0-2.5" diam. Nearly spineless, with open erect habit for easy harvest & reduced damage. Tolerant WMV, ZYMV. Fresh mkt, Shipping.

**4105 Obsidian F1** 45 days. Elongated solid deep green fruit. Open bush habit for easy pick and good air movement. Extensive disease tolerance package encourages high yield. Tolerant PM 2, SLC, ZYMV.



Noche F1



Emperor's Jade F1



Obsidian F1

Cat#	Squash	¼ oz	1 oz	¼ lb	½ lb	1 lb	5 lb (per lb)	25 lb (per lb)
4068U	Emperor's Jade F1	2.00	9.20	30.60	45.75	89.95	86.95	84.65

Cat#	Squash (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)	50 M (per M)
4035	Ambassador	5.65	14.65	58.00	87.00	81.95	76.90	72.75
4096	Grinch	4.45	11.80	47.00	75.25	69.95	64.65	60.20
4103	Noche	6.35	16.75	66.35	106.30	100.45	94.50	89.65
4105	Obsidian	3.45	9.35	37.15	59.55	55.35	51.15	47.60



## Green Zucchini

**4038 Black Ball F1** 45-50 days. Very early. Round Zucchini type with dark green exterior and fine flavored interior. Highly productive. Excellent plant vigor and uniform fruit weighing 1-1.5 lbs. Strong plant with open bush habit.

**4120 & 4120U Payroll F1** 47 days. Early. High yield potential due to stronger disease package. Cylindrical medium green fruit with refined flecks. Reaches peak quality harvested at 7" x 1.75". Large, vigorous plants, open habit and reduced spines result in easier harvest and less fruit damage. High yields observed in Eastern green zucchini trials. Tolerant PM, WMV, ZYMV. Fresh Local Mkt, Garden Plant Sale, Shipping.

**4119 Paycheck F1** 42 days. 7" x 2" fruit. Widely adapted and highly recommended for Eastern and Midwest regions. Glossy mid-green fruit are smooth, straight, cylindrical, finely speckled. Upright open habit with reduced spines makes for easy, low-damage harvest. Dark green slightly mottled leaves. 4-way disease resistance provides potential for very high yields of top quality fruit through cool or chilly weather. Earlier than Payroll and stronger disease package. Tolerant PM, CMV, WMV, ZYMV. Local Mkt, Regional Shipping, Gdn Plant Sales.

**4156 Senator F1** 41 days. 7-8". Well known and much requested by growers. Cylindrical and slightly tapered with classic medium green flecked exterior. Vigorous bush with open habit for easy harvest and high yield potential. Fresh Mkt, Shipping.

**4160 Spineless Beauty F1** 43 days. Few or no spines on leaves and stems allow easier harvest. Ambassador type produces medium green, waxy, cylindrical, uniform fruits averaging 7.5-8.5" long. The medium-size, open plants set well. Fresh Mkt.

**4161 & 4161U Spineless Perfection F1** 42 Days. Early. Better yield potential due to stronger disease package. Rich medium green high-gloss cylindrical fruit with refined flecking reach peak quality at 7-8" x 1.5-2". Spineless petioles and large, open plant habit promote easy harvest with less fruit abrasion. Tolerant PM, WMV, ZYMV. Fresh Local Mkt, Regional Shipping, Garden Plant Sales.



Cat#	Squash (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)	50 M (per M)
4038	Black Ball	3.25	8.40	33.55	53.75	49.95	46.15	43.00
4120&4120U	Payroll	7.50	19.70	78.25	125.40	118.45	111.55	105.70
4119	Paycheck	9.40	24.70	98.00	138.40	130.75	123.00	116.70
4156	Senator	4.80	14.85	52.70	71.60	67.45	63.40	59.85
4160	Spineless Beauty	5.30	14.15	57.35	93.70	79.00		
4161&4161U	Spineless Perfection	7.85	20.60	81.80	131.00	123.80	116.50	110.50





**Scallop Benning's  
Green Tint**



**Sunburst F1**



**Golden Glory F1**

## Summer Novelties

**4138U Scallop Benning's Green Tint** 47-56 days. Pale green pie-shaped Patty Pan type, 2.5" deep x 3.5" diam, with deeply scalloped edges. Semi open plant habit, good yield. Best OP sub for Peter Pan when light-green skin is needed. Fresh Mkt.

**4140U Scallop Yellow Bush** 49-54 days. Vigorous bush plants produce nice yields of large, bright yellow 7" fruits. Scalloped shaped fruits have a creamy texture and tasty, distinctive flavor. 'Patty Pan' type.

**4165 Sunburst F1** 50 days. Yellow-skinned 'Patty Pan' type. Attractive, tender, buttery yellow skin, fine flavor and texture. Fresh Mkt.

**4179U Total Eclipse F1** 49 days. 2" deep x 3" diam, prolific dark green 'Patty Pan' type. Pie shaped scalloped fruit. Fine grained, mild sweet white flesh, Compact bush. Attractive deep green shows well with gold and white in baby squash medley. Fresh Mkt, Ornamental.

## Squash Disease Codes

<b>CMV</b>	Cucumber Mosaic Virus
<b>DM</b>	Downy Mildew
<b>PM</b>	Powdery Mildew
<b>PRSV</b>	Papaya Ring Spot Virus
<b>SLC</b>	Squash Leaf Curl
<b>WMV</b>	Watermelon Mosaic Virus
<b>ZYMV</b>	Zucchini Yellow Mosaic Virus

## Golden Zucchini

**4080 Gold Rush F1** 45 days. Compact, very vigorous plants produce brilliant golden-yellow, smooth zucchini squash. Gourmet quality with sweet, white flesh is best picked at 8-10".

**4087 & 4087U Golden Delight F1** 47 days. Intense golden yellow zucchini, dark green stem. Uniform cylindrical 7" x 1.75" fruit. Trials showed little or no greening under virus pressure due to disease traits, with potentials for high yield and high % grade A. Vigorous upright open bush habit, semi-spineless, for easy harvest with minimal damage. Tolerant ZYMV, WMV. Fresh Mkt, Shipping.

**4090 Golden Girl F1** 50-55 days. True golden yellow zucchini. Long cylindrical smooth fruit with consistently high quality. Strong open bush allows easy picking with little scar damage. Good disease rating provides high yield potential. Tolerant PM 2.

**4091 & 4091U Golden Glory F1** 50 days. Intense golden yellow zucchini, dark green stem. Smooth, uniform cylindrical fruit are at top quality when 7-8" x 1.75". Trials showed little or no greening under virus pressure due to disease traits. Enhanced disease package improves potential for high yield, long harvest period and high % grade A. A Vigorous upright open bush habit, semi-spineless, for easy harvest with minimal damage. Tolerant PM, WMV, ZYMV. Fresh Local Mkt, Regional Shipping, Garden Plant Sales.

**4145 & 4145U Sebring F1** 40 days. Semi-spineless, straight, golden 8" fruit. Strong highly productive plant and uniform crop. Bush habit with open plant structure make it easier to see the fruit for a more complete harvest. Commercial shipping, Fresh Mkt. Tolerant PM.



**Gold Rush F1**



**Golden Girl F1**

Cat#	Squash	1/8 oz	oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
<b>4138U</b>	Scallop Benning's Green Tint	1.65	2.50	8.60	14.85	26.50	24.30	22.65
<b>4140U</b>	Scallop Yellow Bush	1.65	2.60	8.95	15.30	27.45	25.15	23.45
<b>4179U</b>	Total Eclipse	2.40	14.00	46.80	45.75	88.30	84.65	

Cat#	Squash (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)	50 M (per M)
4080	Gold Rush	5.00	12.90	50.75	79.15	74.45	69.90	66.15
<b>4087&amp;4087U</b>	Golden Delight	4.40	14.00	56.75	92.75	78.20		
4090	Golden Girl	5.00	13.30	53.20	84.95	78.95	73.00	67.95
<b>4091&amp;4091U</b>	Golden Glory	6.65	17.40	69.00	110.60	104.45	98.35	93.25
<b>4145&amp;4145U</b>	Sebring	2.95	7.80	30.90	48.20	45.70	42.90	40.55
4165	Sunburst	5.35	13.90	55.30	88.60	83.70	78.80	74.70

**To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)**





**Carnival F1**



**Autumn Delight F1**

## Winter Squash

Approx. 120-400 seeds/oz. Hybrid packets contain 25 seeds; OP packets produce 10 hills; 1 oz sows 100' of row. Direct sow 2-6 lbs/acre. Sow seeds 1-2" deep, 36-96" apart in rows 72-96" apart. Seeds germ in about 7 days.

### Acorn Types

**4199 Autumn Delight F1** 71 days. Semi-bush vine is compact and bears early maturing crop of large, 6-7", deep green, deeply ribbed fruit with sweet buttery golden interior. High yield potential due to fast maturity combined with the likelihood that a high % of fruit set will achieve full maturity. Resistant PM.

**4200 Black Bellota F1** 75 days. 2 lb. Deepest dark green with classic acorn shape, including pointed tip. Semi-bush habit. High quality interior, fine grained and sweet with extra long shelf life at 6 to 9 months. Compact vine and good disease ratings enhance the chance for high yield. Tolerant PM 12, Poty Virus Group.

**4220 Carnival F1** 85 days. Acorn squash with a nutty twist. The fruits are flecked and streaked with color, shades of yellow, green gold, each one different. Otherwise performance is uniform and commercially dependable. Midsize fruit are borne near the crown of the semi-bush plant for easy cultivation and harvest. Good for long storage with fine interior quality.

**4232 Cream of the Crop** 75 days. Pale creamy white-skinned squash is a novelty for fresh mkts, easy to see and harvest. Golden-creamy flesh with nutty flavor; the 2-3 lb fruits store well. Bush-type plants.



**Table King**



**Black Bellota F1**

**4257 Table Ace F1** 70 days. Fruit with excellent shape, 4.5" x 5.5", attractive black-green skin. Delicious, sweet flesh is free of stringy fiber. Plants spread 3-4ft, 2-2.5ft tall. Commercial, Fresh Mkt.

**4267U Table King** 75 days. Dark green fruits 5-6.5" x 4.375-5.25", avg 1.25-1.5 lbs. Thick yellow-orange flesh with excellent flavor; improves in storage. Plants 2-2.5', set 4-7 fruits each. Fresh Mkt, shipping.

**4272U Table Queen Mammoth** 80 days. Selection of Royal Mammoth chosen for its large fruits. Deep green skin and attractive, dark orange flesh avg 5.5"x7". Well adapted for East and South. Fresh Mkt.

**4282 Taybelle PM F1** 90 days. Unusual strength against disease. Good yields of large 6" x 7" fruits. Color is deepest ebony green. Semi-bush habit.



**Taybelle PM F1**



**Table Ace F1**

Cat#	Squash	¼ oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	25 lb (per lb)
4232	Cream of the Crop	2.50	8.00	28.00	51.00	87.95	77.70	71.60
4272U	Table Queen Mammoth	1.80	2.50	8.35	14.45	25.80	23.60	22.00
4267U	Table King	2.40	5.70	8.65	14.95	26.65	24.40	22.75

Cat#	Squash (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)	50 M (per M)
4199	Autumn Delight	2.80	8.55	33.80	54.15	50.35	46.50	43.35
4200	Black Bellota	3.60	9.80	38.80	62.15	57.75	53.35	49.70
4220	Carnival	5.35	13.95	55.15	78.95	73.35	67.75	63.15
4257	Table Ace	2.70	7.80	30.65	49.15	45.75	42.30	39.35
4282	Taybelle PM	3.00	8.70	35.35	57.80	48.20		



## Butternut Types

(*Cucurbita moschata*)

**4191U Autumn Crown F1** 95 days. New type of hybrid whose shape lends itself to easier harvest, storage and shipping plus convenience in kitchen. Butternut-like sweet flavor, thick deep orange sweetly aromatic flesh, small seed cavity, buff exterior color and 4-5 lb fruit. Flattened globe shape with ribs and a prominent green handle, somewhat resembling Parisian type pumpkins. Medium vines spread about 10 feet. Storage up to 4 months. Capable of yielding up to 4 fruits per plant in good conditions. Dual use - can be displayed in cornucopia, then eaten after the holiday.

**4197 Autumn Frost F1** 100-105 Days. Combines a unique and useful pumpkin-like shape and handle with the rich, sweetness & smooth texture of a true Butternut Squash. This shape will allow packing, shipping and display in more compact spacing with less likelihood of damage. Fruit size 5-7" tall x 5-6" wide and attractively ribbed. Stores well up to 4 months. Tolerant PM. Fresh mkt, Shipping, Storage.

**4198 Avalon F1** 88 days. Large thick-necked fruit, 3 1/2 - 4lb, average 8" long. 5" neck. 1/2 lb heavier than Waltham. Attractive smooth tan exterior. Deep orange flesh with firm, fine grained texture and sweet flavor.

**4227 & 4227U Chieftain PMR F1** 85 days. Unusually strong against PM. Uniform 2.5 lb butternuts are attractive mkt size. Compact plant. Good keeper with fine grained flesh. Tolerant PM. Fresh Mkt, Storage, Roadside, Shipping.

**4238 & 4238U Frisco F1** 90 days. Large size and very refined quality. Fruit is uniform, avg. 6 lb weight, measures 8" x 3.5" neck, attractive tan rind and bright orange flesh. Long thick neck provides high proportion of edible quality flesh. Very sweet, non-stringy, with smooth, firm texture.

**4239 Honeybaby F1** 90 days. Compact semi-bush Butternut producing large numbers of hand-sized 6-7" fruits suitable for single servings. Nationwide AAS trials reported avg yields at 8-9 per plant 1-2 lbs per fruit. Plant was reported 10' tall spreading 2-3 ft. Tan fruits with orange interior, slightly bulb shaped, with sweet nutty flavor. Resists cracking. Tolerant PM. Fresh Mkt, Restaurant, Garden Ctr Sales, Container Sales. Heartland.



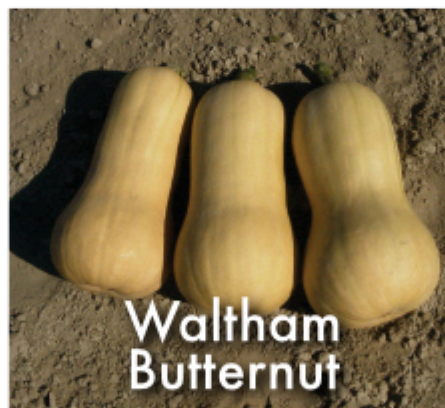
**4244U Indian Brave F1** 85 days. 3" x 9"; 4 to 5 pounds. Large fruit produced in abundance. Quality comparable to Butternut Supreme. Vigorous vine with disease tolerance, extra yield potential. Tolerant PM, resists cracking. Commercial, Fresh Mkt, Garden.

**4254U Sweet Max F1** 90 days. Capable of producing 2-3 large 6.5lb per vine. Vigorous vine produces good leaf cover. Great internal color and flavor. Traditional shape.

**4302U Waltham Butternut** 110 days. Very uniform production of fruits free of crooked necks. Large fruits have excellent flavor and color with uniform, straight necks; store well. Fresh Mkt.



Autumn Crown F1



Waltham Butternut



Indian Brave F1



Chieftain PMR F1



Honeybaby F1

Cat#	Squash	1/4 oz	oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
4227&4227U	Chieftain	2.60	9.20	34.55	62.20	121.60	118.00	114.90
4239U	Honeybaby	3.00	7.95	30.95	61.15	119.45	115.90	112.90
4244U	Indian Brave	2.20	7.70	28.00	53.45	104.50	101.40	98.85
4302U	Waltham Butternut	1.90	3.40	5.30	8.95	16.15	14.80	13.80

Cat#	Squash (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)	50 M (per M)
4191U	Autumn Crown	3.15	9.00	36.00	57.75	53.65	49.65	46.20
4197	Autumn Frost	5.30	14.45	57.20	91.70	85.25	78.65	73.35
4198	Avalon	3.80	11.20	44.40	71.15	67.50	63.35	59.85
4238	Frisco	3.35	9.65	38.35	61.40	58.25	54.65	51.70
4254U	Sweet Max	3.55	9.35	37.30	57.75	53.65	49.65	46.20

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





Sunshine F1



Sweet Mama F1



Bonbon F1



Red October F1



Chicago Warty

### Hubbard Types (*Cucurbita maxima*)

**4222U Chicago Warty Hubbard** 105 days. Green skinned processing type produces large, warty fruits averaging 10" x 15". Quality deep orange yellow flesh, standard for pies, canning. Long storage. Commercial, Processing, Fresh Mkt.

**4242U Hubbard Golden** 105 days. Large, red orange, warty fruits about 10 lbs, average 11" x 9. Very tasty flesh is deep orange, dry; excellent for pies, cooking. Long storage. Commercial, Fresh Mkt, Processing.

**4243 Heavenly Hubbard F1** 105 days. Large 15 lb fruit. Vigorous vines with high yield potential and more uniform fruit than traditional strains, because of hybrid traits. Fine sweet flavor and excellent smooth texture. Uniform size and shape.

**4250 Red October F1** 95-100 days. Striking, brilliant red deep Hubbard. Sells itself, a great color to take to mkt. 6.5-11 lb fruit, with excellent uniformity of size, shape and color. Edible and ornamental. Fresh Mkt, Shipping, Cornucopia, Restaurant Specialty, Gdn Plant Sales.

### Kabocha/Buttercup Types (*Cucurbita maxima*)

**4202 Bonbon F1** 95 days. Buttercup type winter squash average 4-5 lbs. Deep green, blocky shape, smooth skin and thick, sweet orange flesh on vigorous, medium vines. High sugar content, dry weight. Commercial, Fresh mkt, Shipping.

**4212U Buttercup [Burgess Strain]** 100 days. Favorite winter squash variety. Round fruits with button have dull green rind striped with gray. Flesh of excellent quality and taste; deep golden yellow fine-grained, sweet, flavorful and free of fiber. Cooks, freezes and stores well. Commercial, Fresh Mkt.

**4247 Sunshine F1** 95 days. Highly desirable combination of traits. Bright deep orange skin for sales appeal. High sugar (avg Brix 15%), light, sweet nutty-starchy flavor, completely smooth and stringless when baked. 3-4 lb fruits slightly flat-round, with bright orange interior and high dry matter content (avg 17%). Vigorous short internode 8' vine.

**4252 Sweet Mama F1** 85 days. Big yields of fruits with very dark, green skin, 2-3 lbs each. Moderately thick, sweet, yellow flesh; excellent storage ability, 4 months or longer. Semi-short plants produce 2-3 fruits each, can be pruned back to 4'. Commercial, Fresh Mkt.

Cat#	Squash	¼ oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	25 lb (per lb)
4212U	Buttercup (Burgess Strain)	1.55	2.20	7.60	13.15	23.40	21.40	20.00
4222U	Chicago Warty Hubbard	2.15	3.15	10.50	18.00	32.40	29.65	27.65
4242U	Hubbard Golden	2.50	5.90	8.90	15.80	28.00	25.60	23.90
4252	Sweet Mama	5.25	20.00	78.00	142.75	279.00	270.65	263.55

Cat#	Squash (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)	50 M (per M)
4202	Bonbon	10.30	26.95	85.65	137.15	127.45	117.80	109.75
4243	Heavenly Hubbard	10.40	29.70	117.60	188.55	178.85	167.85	158.60
4250	Red October	6.20	16.20	64.45	103.25	95.95	88.65	82.60
4247	Sunshine	7.25	19.00	63.45	82.30	76.45	70.65	65.85





**Bush Delicata**

### Mixed Types

**4207 Bush Delicata** 80 days. OP 8" x 4". Bush habit, high yields. 3' spread and crown set dense planting. Has the sweet, smooth bright golden flesh characteristic of Delicata types, for which they're sometimes called sweet potato squashes. Ornamental deep green striping over white background, oblong oval shape. Long keeping. Strong tolerance PM. Fresh Mkt, Shipping, Storage. Roadside.

**4115U Cushaw Orange Striped** 110 days. (*Cucurbita mixta*) Also called Cushaw Pumpkin. Pear shaped with crookneck, 25-30 lb fruit. Hard thin smooth rind, marked with golden orange stripes over creamy white background. Fine grained sweet golden flesh is excellent for baking or pies, good keeper. Roadside, Cornucopia, Ornamental Gourd, Pie.

**4246U Pinata F1** 85 days. 9" x 3"; 2-3 lb. Long blimp shaped fruit, striped cream with narrow dark green stripes in razor sharp contrast. Fine grained, very sweet flesh with rich nutty flavor like old-fashioned sweet potato pie. Excellent eating quality and long keeper. Productive semi-bush vines. Tolerant PM. Cornucopia, Roadside, Shipping.

**4292 Turk's Turban** 100 days. Also called Mexican Hat. Very popular at fresh market. Colorful ornamental fruits are edible, too. Bright orange fruits with button have red, white and dark green markings, average 8-10". Fine for baking, stuffing. High yields of uniform fruits. Fresh Mkt.



**Pinata F1**

### Vegetable Spaghetti

(*Cucurbita Pepo*)

**4249 Pinnacle F1** 85 days. Early semi-bush habit allows for higher plant density and potentially higher yields per acre. 3 lb fruits measure 7"x 5". Color of ripe fruit is appealing bright yellow and interior strands offer delicious nutty flavor. Commercial, Fresh Mkt.

**4287 Tivoli F1** 100 days. New bush-vine habit; fine for smaller home garden. Plants bear 3-5 uniform, oblong fruits each; average 3-4 lbs. with light yellow rind. Plants require 16 sq. ft of growing space each. Fresh Mkt.

**4297U Vegetable Spaghetti** 110 days. Large fruits 3-4 lbs. each, 8-10". Crunchy texture. High-yielding, vining plants. Long storage ability. Commercial, Fresh Mkt.



**Vegetable Spaghetti**



**Tivoli F1**



**Cushaw Orange Striped**



**Turk's Turban**

Cat#	Squash	¼ oz	oz	¼ lb	½ lb	1 lb	5 lb (per lb)	25 lb (per lb)
4115U	Orange Cushaw Striped	2.40	7.20	29.30	50.50	45.15	41.85	41.25
4246U	Pinata	2.15	7.70	28.00	53.45	104.50	101.40	98.80
4287	Tivoli	3.95	15.00	52.00	100.15	195.70	189.80	184.80
4292	Turk's Turban	2.00	5.25	17.65	30.40	54.50	49.85	46.45
4297U	Vegetable Spaghetti	2.00	3.50	5.50	9.40	17.00	15.30	14.50

Cat#	Squash (M=1000)	25 sds	100 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)	50 M (per M)
4207	Bush Delicata	1.80	4.00	16.30	28.30	25.30	23.15	21.60
4249	Pinnacle	5.65	14.75	58.80	94.20	89.40	83.90	79.30

**To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)**



## Plus Series

Welcome to a new generation of old favorites. Each **Plus** variety offers all the great characteristics of an original top-selling variety "plus" improvements in flavor, modern disease resistance and adaptability.

**Plus** varieties have potential for longer harvest, higher yield and even more market appeal than their class namesakes.

**Better Boy Plus** (see page 70) has added disease resistance, higher brix, firm fruit and lower possibility of radial cracking.

**Big Beef Plus** (see page 70) offers improved color for market appeal, a wider range of disease resistance and larger fruit.

**Celebrity Plus** (see page 67) offers improved wide-spectrum disease resistance, better crack resistance, larger fruit and higher brix.

Note: The **Plus** tomatoes were created using traditional breeding methods and are not genetically engineered. Nearly all the genetics of the original hybrids are still present in the **Plus** hybrids.



Celebrity Plus F1



Big Beef Plus F1



Better Boy Plus F1

### Selecting Tomato Varieties

With so many varieties, it may be difficult to choose which tomato to grow for your crop. Twilley continually looks for new varieties with better performance traits. The following information will help you select the best varieties for your production. We especially suggest any of the tomatoes in Twilley's tried and true "Professional Seeds Series".

#### Maturity

Consider the number of frost free days in your growing area. Early crops are often useful to make early market windows, even though some trade-off in fruit size may be necessary.

#### Determinate vs Indeterminate

Determinate plants grow shorter, with more concentrated fruit set, and need less pruning or support. Indeterminate plants usually have a more extended harvest season, and can yield larger, more perfect fruit if supported and pruned.

#### Fruit Type and Use

Various sizes, shapes and colors are available to meet market demand in different regions and applications.

#### Jointless vs Jointed

Jointless fruits, when picked, leave the stem (pedicel) on the plant resulting in a smooth fruit surface. Smoother fruit can show less damage in shipping with less need for special packing materials. Jointed fruits have an enhanced appearance in fresh market settings because stem remains attached to fruit.

#### Shipping/Fresh Market

Descriptions indicate suggested best uses for many varieties. Shipping types usually are very firm, produce a concentrated fruit set and can ripen to a red color in storage after green harvest.

#### Adaptability

Many varieties perform well in certain regions; we include this information when possible.

#### Disease Tolerance or Resistance

Many new varieties have been improved for a broader range of disease traits, as new research results become available for commercial use. As part of your disease management, you may choose varieties that are strong against the diseases that make the most problems in your area. It is recommended that you contact an extension service agent in your area to identify the cause of growing problems. They can help identify the problem so you can better deal with it. We have found that land grant universities offer excellent information on their websites. See Page 113 or ask your Twilley salesperson for universities in your region.

Indicates varieties resistant to Tomato Spotted Wilt Virus, which is now a growing problem in many states. TSWV can wipe out entire tomato crops. Symptoms are hard to detect in early stages and no treatment is known to be effective at saving an infected crop. TSWV is hard to control because the tiny thrips that feed on infected plants spread quickly through a field and carry the virus to healthy plants. Disease resistance is the only known method to control this problem.



Indicates varieties resistant to Tomato Yellow Leaf Curl. Transmitted by white fly, TYLC has recently come on as a disease problem.





# Tomato

(*Lycopersicon esculentum*)

About 11,500 seeds/oz. Germs in about 8 days. Set plants 18-48" apart in rows 36-60" apart (if staked, 12-24" apart in rows 36-48" apart). Days to maturity are from transplant.

## Large Round Determinates

**4359 & 4359U Amelia F1** 75 days. Aggressive disease package including Tomato Spotted Wilt resistance. Vigorous plant with good leaf canopy has yielded large to extra large fruit under moderate to heavy pruning regimes and is a good subject for stake culture. 7-8 oz fruit are very firm, uniform red ripening, suitable for green or ripe harvest, and crack tolerant. Bred primarily for Southeastern U.S. shipping markets but could be tested for other areas and applications. Resistant FW 1,2,3; N, St, TSWV, V.

**4371 Bella Rosa F1** MidEarly. Large fruited with superb disease package including TSWV and heat tolerance. Vigorous vines. Bright red fruit is uniformly large, round, firm fleshed and highly flavored with good balance of acid to sugars. Superb trial results in Southeastern U.S., especially Florida, and worth testing in any area with strong disease pressure. Resistant ASC, FW 1-2, TSWV, V Fresh Mkt, Roadside, Shipping.

**4376 Better Bush F1** Mid-season. Home, gdn center sales. Round Beefsteak type, 5-8 oz fruit with great flavor. Determinate with short internodes and strong, thick upright stems for container sales or gdns with little or no staking. Deep green savoyed leaf, attractive and healthy looking.

**4380 BHN1021 F1** 75 days. Good flavor & texture Disease package well suited to southeastern US crops for fresh & local market. Resistant V, FW, N, TSWV, Fresh Mkt, Shipping.

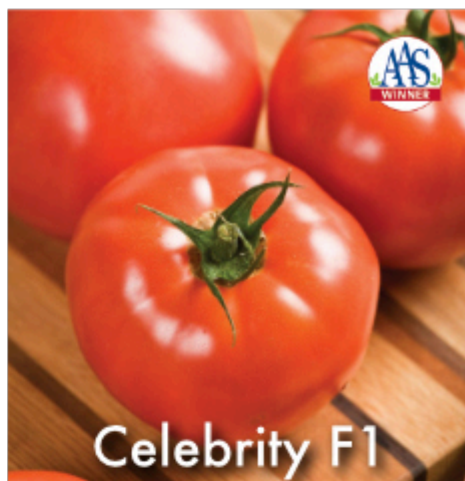
**4386 Biltmore F1** 65-70 days from TP, 80-85 days from sowing. Widely accepted as a fresh mkt workhorse in SE & mid-Atlantic states. Continuous set, with exceptional cropping of larger fruit high on plant - a good proportion ranging 10-14 oz. Uniform-ripening fruit with excellent eating quality. Deep globe shape, very smooth with small blossom scar. Vigorous plant sets fruit to top. High potential yield of firm, round grade A fruit. Rugged plants well adapted to open field production, with minimal to no pruning or pampering. Resistant ASC, FW 1-2, St, V Fresh Mkt, Local Shipping.

**4409 Carolina Gold F1** 75 days. 8-10 oz. Vigorous with large yield of clean, uniform ripening, round beef fruit. Golden tangerine color very attractive for specialty sales. Resistant V, FW 1-2, Highly Tolerant Graywall. Tolerant cracking, Weather checking. Fresh Mkt, Roadside.

**4419 Celebrity F1** 72 days. Mid-early variety for main crop; widely adapted, with wide-spectrum disease resistance. Large, red, deep oblate fruits are firm, flavorful, average 8 oz; show crack resistance. Medium size, strong plants. Grow on ground, caged or staked. Pruning not recommended. Resistant ASC, FW 1-2, N, ToMV 0-2, V Fresh Mkt, Commercial, Gdn.

**4410 Celebrity Plus F1** 72 days. Mid-early variety for main crop. Widely adapted, with wide-spectrum disease resistance. Large, red, deep oblate fruits with bright red flesh are firm, flavorful, average 8 oz. & show crack resistance. Medium size, strong determinate plants. Grow on ground, caged or staked. Pruning not recommended. Vigorous plants with good fruit protection. Highly productive. All the original Celebrity genetics but with modernized disease resistance, higher brix and improved uniformity of shape & size. Resistant ASC, FW1,2, N, TMV TSWV V Fresh mkt, UPick, Gdn.

**4450 Florida 91 F1** 72 days. Smooth, round 10 oz fruit ripens in groups of uniform, deep red. Plant produces high yields of solid old-fashioned tomato flavor fruit. Strong vines with good heat-set capability. Pruning not recommended. Resistant ASC, FW 1-2, St, V 1. Fresh Mkt, Roadside, UPick.



**Celebrity F1**



**Bella Rosa F1**



**Amelia F1**



**Biltmore F1**

Cat#	Tomato (M=1000)	25 sds	250 sds	500 sds	1000 sds	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
4359&4359U	Amelia	13.45	87.60	137.70	157.55	156.00	152.25	148.50	145.65
4371	Bella Rosa	4.95	38.20	46.90	74.45	73.95	72.15	70.55	69.15
4376	Better Bush	2.50	12.90	20.35	32.25	31.35	30.55	29.75	29.15
4380	BHN1021	13.00	84.85	133.40	151.45	150.15	146.35	142.80	140.00
4386	Biltmore	9.90	63.85	93.55	123.40	122.30	119.15	115.85	113.35
4409	Carolina Gold	5.50	38.15	59.95	95.15	92.60	90.15	87.70	85.95
4419	Celebrity	3.90	29.15	38.00	56.40	55.70	54.25	52.75	51.70
4410	Celebrity Plus	4.40	30.00	46.90	74.65	73.95	72.00	70.00	68.65
4450	Florida 91	8.65	67.30	100.55	123.40	122.20	119.00	115.75	113.20





**Mountain Merit F1**



**Mountain Spring F1**



**Mountain Man F1**



**Red Pride F1**

**4486 Jolene F1** 73-79 days. Large to extra large 12-14 oz with firm meaty flesh and deep red interior. Early bearing with clean blossom end and uniform smooth shoulders. Was noted best in class for heat set in trials throughout Eastern US and was especially strong in SE. Resistant FW 1-2, St, TYLC, V Fresh mkt, UPick, Gdn.

**4534 & 4534U Mountain Fresh Plus F1** 79 days. Large, deep oblate fruits 3.5" across and weighing 8-12 oz. Excellent resistance to cracking, blossom end rot, puffiness and angularity. Resistant N. Tolerant FW 1-2, V 1-2. Commercial.

**4536 Mountain Gem F1** 75 days. New addition to Randy Gardner's Mountain series featuring Late Blight resistance within its broad disease package. Nearly unique flavor quality, important for growers aiming at fresh markets. In trial locations, mid-size determinate plants to 3 ft tall retained clean green foliage and continued fruit set well after other comparisons were blighted out. Large flattened globe fruit reached 3.5"-4" diam in trial and retained a high pct free of blossom end rot even after long weeks under pressure from rainy weather. This variety contains the "crimson gene." Meaty, thick flesh is deep red for strong eye appeal at mkt. High yields were observed in 2017 trial. A visiting grandson who helped with taste testing in the trial exclaimed "Now this one has zing!" Resistant F 1-2, LB, TMV, TSWV, V Fresh mkt, Shippers.

**4537U Mountain Gold** 72 days. OE Deep tangerine-yellow fruits are 3-4" with mild low acid flavor. Superb in both appearance and holding quality. Fresh Mkt, Home Garden.

**4541 Mountain Man F1** 73 days. Best replacement for Mountain Spring, which it supercedes, with same great sugar to acid flavor balance. Early maturity & strong resistance to TSWV make it a good choice for summer crops in Eastern US. High yield potential. Large 8.5 oz fruit are deep red inside and out. Strong plants can hold up through multiple harvests. Resistant TSWV. Fresh Mkt.

**4542 Mountain Merit F1** 75 days. Superb disease package. A unique combination of Late Blight, Early Blight, TSWV, VFNT, plus top commercial & table traits. Round Beefsteak fruit reach 10-14 oz. Deep Red exterior and firm deep red fruit with delicious full-bodied flavor. Vigorous habit, with vines reaching 5' at full growth. High yield potential. A must try variety. Resistant FW 1,2,3, TMV, TSWV, V Tolerant EB, N. Fresh Mkt. Heartland.

**4544 Mountain Spring F1** 69 days. Jointed. Firm, uniform, bright red color inside and out. High market yields all over the East. Low susceptibility to cracking, blossom end rot, puffiness, angularity. Average 10-12 oz. Tolerant FW 1-2, V 1, Fresh Mkt, U-Pick.

**4568 Red Pride F1** 78 days. Main Season. Round oblate fruit with refined blossom end and good color, well proven in Eastern stake tomato production, where it has been found to produce a high percentage of large to extra large grade A fruit. Vigorous plant with good possibility of high yield. Abundant large flat leaves provide good sun cover which helps to avoid blemishes. Resistant ASC, FW 1-2; V 1. Tolerant St. Fresh Local Mkt, Roadside, Garden Plant Sales.

#### Tomato Disease Codes

<b>A</b>	Anthraco nose
<b>ASC</b>	Alternaria Stem Canker
<b>BSp</b>	Bacterial Speck
<b>EB</b>	Early Blight ( <i>Alternaria Solani</i> )
<b>FR</b>	Fusarium Crown & Root Rot
<b>FW</b>	Fusarium Wilt & race #'s
<b>LB</b>	Late Blight ( <i>Phytophthora Infestans</i> )
<b>LM</b>	Leaf Mold
<b>N</b>	Root Knot Nematode
<b>SLS</b>	Septoria Leaf Spot
<b>St</b>	Stemphylium (Gray Leaf Spot)
<b>TMV</b>	Tobacco Mosaic Virus
<b>ToMV</b>	Tomato Mosaic Virus
<b>TSWV</b>	Tomato Spotted Wilt Virus
<b>TYLC</b>	Tomato Yellow Leaf Curl
<b>V</b>	Verticillium Wilt & race #'s

Cat#	Tomato (M=1000)	25 sd	250 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
4486	Jolene	7.00	45.50	71.40	113.40	110.45	108.40	106.25	104.85
4534	Mountain Fresh Plus	7.80	52.90	83.20	93.25	89.75	86.50	83.00	80.65
4536	Mountain Gem	9.15	59.55	93.60	133.00	129.45	127.00	124.60	123.00
4537U	Mountain Gold	1.70	2.65	4.35	3.70	3.30	3.00	2.85	
4541	Mountain Man	5.15	30.00	47.15	74.80	72.90	70.95	69.00	67.65
4542	Mountain Merit	10.15	75.15	92.00	136.15	132.55	130.15	127.65	125.95
4544	Mountain Spring	5.50	35.40	55.65	76.75	74.80	72.80	70.80	69.35
4568	Red Pride	1.70	13.50	21.25	33.70	33.45	32.60	31.90	31.35





**Tasti-Lee® F1**

## More Large Round Determinates

**4571 Sanibel F1** 75 days. Large 8 to 12 oz fruit borne in concentrated set on 3 1/2' vines. Great flavor from high acid/sugar balance. Main crop comes on in a 14 day window. Excellent disease package. Pruning not recommended. *Pelleted seed only.* Resistant V, FW 1, FW 2, N, ASC, St.

**4574 Saybrook F1** 80-85 days. A standout in precommercial eastern US & Canadian trials, Saybrook was noted for large sets of extra large, smooth 8-10 oz fruit with little cracking, all the way from bottom to top of vine. Some growers reported lots of 12-oz fruit. Vigorous determinate plant provides good protective canopy against sunscald. Showed potential to yield well even in later harvest due to robust disease pkg. Do NOT prune Saybrook. Resistant ASC, FW 0-2, St, TSWV, V 0. Tolerant N. Fresh mkt, Shipping, Vine Ripe, Green Harvest.

**4576 Stellar F1** 70-75 days. Super disease package includes Septoria Leaf Spot and both Blights, enabling high yield potential and long lasting harvest from clean plants. Round 5-7oz fruit load up on 30-36" vigorous plants. Excellent slicing quality. Best for trellis culture in open ground. Resistant FW 2, LB, V. Tolerant EB, SLS. Fresh Mkt.

**4580U Sunny Boy F1** 70 days. Bright golden yellow, very sweet. Nice interior is firm enough to ship well and contains few seeds. 6-oz globe shaped fruit. Sets well across a wide range of growing areas. Fresh Mkt, Shipping.



**Sunny Boy F1**



**Top Gun TSWV F1**

**4612 Tasti-Lee® F1** 75 days. 8-10 oz, 3" x 3.25". A breakthrough in vine-ripe shelf quality. Brilliant deep red inside and out (crimson gene). High lycopene trait (50% above avg). Tremendous flavor and very firm texture. All of this with unique shelf-life traits. Repeated shelf-life tests indicate strong potential for retention of top flavor and firm texture up to 2 weeks from vine-ripe harvest. Worth testing out for any roadside, fresh mkt or shipping situation where fresh local quality is demanded at table. Good dense foliar protection. Widely adapted from FL to ME. Sets well in heat up to 90°F days. Resistant to FW 1,2,3, V 1. Premium quality for Fresh Mkt & Shipping.

*Tasti-Lee® Orders over 5000 sd require breeder's marketing agreement. Please call for information.*

**Note - Sales to supermarket chains require participation in a brand-name marketing program. Please ask if your plans include supermarket distribution.**

**4604 Top Gun TSWV F1** 75 days. Great yield potential of 7-8 oz fruits, deep-oblato to round on vigorous plants. Uniform color gene ripens all at once, without green shoulders. Also bred with a hot-set gene, it is able to set fruit in hot weather when other varieties drop their blossoms. Resistant TSWV, ASC, St, V 1, FW 1,2. Fresh Mkt, Roadside, UPick, Local Shipping.



**Stellar F1**



**Sanibel F1**



**Saybrook F1**

Cat#	Tomato (M=1000)	10 sd	50 sd	250 sd	500 sd	1000 sd	5 M (per M)
4612	Tasti-Lee	5.85	14.30	50.15	61.75	119.00	114.15

Cat#	Tomato (M=1000)	25 sd	250 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
4571	Sanibel	6.00	47.55	74.80	93.00	85.45			
4574	Saybrook	7.40	50.30	79.00	125.40	124.35	120.90	117.55	115.25
4576	Stellar	6.60	49.30	77.50	121.55	117.00	112.60	108.20	105.00
4580U	Sunny Boy	2.60	7.55	12.65	21.75	19.60	15.40	13.75	12.40
4604	Top Gun TSWV	7.80	50.70	79.70	81.85	81.00	78.80	76.65	75.00

**To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)**





**Big Beef Plus F1**

## Large Round Indeterminates

**4369 Beefmaster F1** 80 days. Big, smooth, meaty beefsteak-type fruits averaging 10 oz each. Deep red, solid, juicy flesh. Vigorous, high yielding plants. Ground or stake culture.

**4374 & 4374U Better Boy F1** 75 days. Large, globe-shaped fruits up to 1 lb or more, with bright red flesh. Vigorous plants with good fruit protection. Highly productive. Grow on ground or stakes. Tolerant ASC, FW 1; N, St, V. Fresh Mkt, U-Pick, Gdn.

**4375 Better Boy Plus F1** 75 days. Large, globe-shaped fruits averaging 1 lb. or more, with bright red flesh. Vigorous plants provide good fruit protection. Highly productive. Grow on ground or stakes. All the original Better Boy genetics but with modernized disease resistance, higher brix and less radial cracking. Tolerant ASC, FR, FW1, N, St, TMV, TSWV, V Fresh mkt, U-Pick, Gdn.

**4384 & 4384U Big Beef F1** 73 days. Early red beefsteak-type with round smooth shoulders, fruits weighing 8-12 oz. Best grown on stakes. Rave reviews nationwide. Tolerant ASC, FW 1-2, N St, TMV 0-2, V Fresh Mkt, Gdn.

**4387 Big Beef Plus F1** 73 days. Early red beefsteak-type with round smooth shoulders, fruits weighing 8 to 12 oz. Best grown on stakes. All the original original Big Beef genetics but with modernized disease resistance, even larger fruit, and crimson gene for deeper red color. Tolerant ASC, FR, FW 1-3, N, St, TMV, TSWV, V Fresh mkt, U-Pick, Gdn.

**4404 Burpee's Big Boy® F1** 78 days. Popular variety asked for by name as plants or produce. Smooth, red, deep globe-shaped fruits have fine flavor, thick walls and bright red, meaty flesh. Many fruits weigh 1 lb/more. Large, extremely vigorous plants are heavy producers. Fresh Mkt, Gdn.

**4407 Carmello F1** 73 days. Premium quality for fresh market. Produces large trusses of medium large round 5-7 oz fruit. Luxurious flavor, rich and balanced, sweet and juicy. Thin non-cracking skin. Vigorous vine grows 4-6' staked, Comprehensive traditional disease package, capable of large yields of deluxe fruit. Resistant FW 0, St, V, ToMV 0-2. Tolerant N. Fresh Mkt, Roadside, Bedding Sales.



**Better Boy Plus F1**



**Burpee's Big Boy® F1**



**Carmello F1**



**Big Beef F1**

Cat#	Tomato (M=1000)	25 sd	250 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
4369	Beefmaster	3.35	22.60	33.40	41.30	41.00	39.75	38.75	37.90
4374&4374U	Better Boy	4.00	26.95	40.75	60.20	59.55	58.00	56.45	55.25
4375	Better Boy Plus	3.60	24.00	37.90	60.15	59.55	58.15	56.50	55.35
4384&4384U	Big Beef	5.25	37.65	57.25	77.00	76.20	74.20	72.15	70.70
4387	Big Beef Plus	4.45	30.90	48.55	77.00	76.20	74.25	72.15	70.70
4404	Burpee's Big Boy	4.00	25.00	31.20	41.00	40.70	39.45	38.40	37.70
4407	Carmello	3.70	24.95	30.55	44.15	42.95	41.85	40.65	39.85



## More Large Round Indeterminates

**4417 Chef's Choice Black F1** 75 days. Indeterminate. Produces large hands of medium sized, 5.5oz intense red fruit, 5-6 to a cluster. Excellent disease package. Resistant FW, TMV, V Tolerant TYLC, N. Greenhouse or open field, cluster tomato, Fresh mkt, shipping. *Mountain/Southwest.*

**4421 Chef's Choice Green F1** 90 days. Green ripe type. 9-10 oz fruit. Exterior is beautiful deep green and crack resistant. Subtle golden stripes develop with maturity. Flesh stays green even when ripe, just right for fried green tomatoes. Firm meaty interior with outstanding flavor, sweet with tangy citrus tones. Vine grows 2' and up. Multiple disease package promotes a beautiful deep green plant and high yield potential. Tolerant ASC, TMV, F, V, Scab. Fresh Mkt, Specialty, Restaurant, Roadside.

**4423 Chef's Choice Orange F1** 75 days. AAS Winner 2014. Bright neon-orange flesh and skin which retains color in cookery. Very fine fresh sweet flavor. Good acid balance. Meaty flesh has small locules and nice firm texture. Heirloom hybrid derived in trials, up to 20 per plant, with 16 oz fruit at peak season when kept picked. Fruit is flat round with heirloom boat shape. Large determinate habit to 5ft spreading 2ft. Benefits from some trellising. Tolerant A, TMV, Cracking. Fresh mkt, Chefs, Bedding.

**4424 Chef's Choice Yellow F1** 90 days. Golden yellow beefsteak type fruit. AAS trials reported up to 30 meaty 10 oz, 5" x 6" fruit per plant. Very tasty with good citrusy acid to sugar balance and smooth firm texture. Deep green foliage, 4-5 ft plant frame, Strong disease package promotes high potential yield of quality fruit. Harvest deep yellow while still firm. Resistant FW, TMV, V, Cracking, Scab. Fresh Mkt, Specialty, Restaurant, Roadside. *Southeast.*

**4459 Grandeur F1** 75 days. Long yielding with strong disease package and short internodes. Crop starts early with large 8-9 oz fruit. Large leaved vigorous plants protect fruit from sun scald entire season. Produces 5-7 fruits per cluster, with green-shouldered trait to mark vine-ripe readiness. Deep oblate, smooth, red fruit with great taste, firm meat and crack-resistance. High Resistance FW 1, N, St, ToMV, V. Fresh Mkt, Roadside, Staking, All-summer Picking.

**4543 Mountain Rouge F1** 73 days. Truly wow! taste. Full of robust flavors, lots of acid, sugar and rich undertones. Nationwide trial sites reported consistent, large harvests of big, 12-14oz pink beefsteak tomatoes. Fleishy fruit with few seed, small locules, restricted core. Vigorous indeterminate plants reach 4-6' on trellis and are capable of long extended harvest, enabled by tolerance to late blight. Sets well even in cool weather. Tolerant FW, LB, N, V. Fresh mkt. *Northeast, Southeast, Heartland.*

**4550 Pamella F1** 85 days. Large (7-7.5 oz) globe-shaped red fruit. 6-way disease protection, more than any other large-fruited tomato of our knowledge. Suitable for greenhouse or field culture. Vigorous vine develops strong leaf canopy for protection against sun scald and provides opportunities for large potential yields. Tolerant FW 2, N, TMV, TSWV, TYLC, V.

**4572 Rubee Dawn F1** 57 days. Large, firm 8-12 oz fruit with great Zing flavor balance of sweet & tart. VERY EARLY! 3-4 ft plants with amazing disease package yield over a long season and offer potential for high yield. Deep red globe shaped exterior. Resistant ASC, FR, FW 1,2, LM A-E, ToMV 0,1, V Tolerant N, St. Fresh mkt, Shipping.

**4573 Rubee Goddess F1** 65 days. Large firm 8-10 oz fruit with mild balanced flavor, thick walled flesh, deep red inside and out, with green shoulders and smooth flattened globe shape. Compact-to-midsize plants with VERY Broad disease package including Late Blight, show potential for high yields over a very long harvest season. Resistant ASC, FR, FW 1,2, LB, LM A-E, ToMV 0,1, V. Tolerant N, St. Fresh mkt, Shipping.



Rubee Dawn F1



Chef's Choice Yellow F1



Rubee Goddess F1



Pamella F1

Cat#	Tomato (M=1000)	25 sd	250 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
4417	Chef's Choice Black	3.00	11.00	17.75	30.15	26.65	24.50		
4421	Chef's Choice Green	3.00	11.00	17.75	30.15	26.65	24.50		
4423	Chef's Choice Orange	3.00	11.00	17.75	30.15	26.65	24.50		
4424	Chef's Choice Yellow	3.00	11.00	17.75	30.15	26.65	24.50		
4459	Grandeur	2.95	10.70	16.60	23.00	22.70	22.20	21.80	21.30
4543	Mountain Rouge	16.00	103.85	163.20	259.15	256.75	250.50	244.15	239.45
4550	Pamella	9.35	60.75	95.65	143.20	137.95	132.70	127.50	123.90
4572	Rubee Dawn	7.55	49.15	77.15	75.00	74.40	72.70	70.95	69.70
4573	Rubee Goddess	7.55	49.15	77.15	75.00	74.40	72.70	70.95	69.70





Plum Regal F1



Red Torch F1



Mountain Magic F1

## Campari Type

**4540 Mountain Magic F1** 72-75 days from transplant. Flavor, uniformity and disease resistance in a high-sugar Campari-type. Produces round to deep round 2 oz fruit on somewhat compact plants. Fruits are flavorful, highly crack resistant and uniformly red inside and out, with a long shelf life. Flavor stands up in taste comparisons with heirloom varieties. Tolerant EB, LB, FW 1-2, V 1-2.

## Cluster Types

**4474 Carina F1** 76 days. Intense red 5-6 oz fruit borne in clusters of 5-6 fruits per hand on vigorous indeterminate plants. Best replacement for Red Eclipse. Resistant FW, ToMV, V Tolerant N, TYLC. Greenhouse or field production. Fresh mkt or shipping.

**4494 Juliet F1** 60 days. Indeterminate. Early, producing glossy deep red ripe 1 Oz. 125" x .75" fruits in about 60 days from transplant. Oblong grape-like shape. Clusters like grapes on a vine. Holds on the vine with less cracking than most. Vine is 5-6 ft.

*Not available until January 2024.*

## Plum/Roma/Saladette Types

**4439 Early Resilience F1** Up to 25 fruit per plant 3.5 oz blocky, rounded Roma fruit. Excellent flavor and deep red color. Surpassed the comparisons in nationwide trials. Blossom end resistance enables high harvest of usable fruit from bushy 2ft vines. Flesh good quality for canning and cooking. Tolerant V 1, FW 2, ASC, Clavibacter, Xanthomonas, LB. Fresh mkt.

**4479 Hybrid 46 F1** High quality Roma type. Determinate. Large, elongated, cylindrical fruit, very uniform size and shape. Jointless and uniform green ripening. Sets fruit up the plant, well protected by heavy leaf canopy. Widely adaptable across eastern U.S. and Mexico. Resistant ASC, FW 1-2, FR, N, St, ToMV 0-2, V 1. Tolerant BSp. Fresh Mkt, Shipping, Garden.

## Plum/Roma/Saladette Types

**4507 Marinara F1** 80 days. Large Roma type; 4-5 oz fruit that fits in your palm. Wonderful flavor, vigorous determinate habit and superb broad disease package, capable of high yields in many areas. Much needed addition to the large-Roma category. Tolerant FW 1,2, N, ToMV, TSWV, TYLC, V.

**4521 Mochomo F1** 80-85 days. Roma type. 6 oz fruit. Suitable for greenhouse and field production. Dark red fruit with dense flesh. Strong foliar development provides excellent protection from sunburn. Strong, compact, indeterminate vine with superb disease rating capable of high yields. Tolerant FW 3, TMV, TSWV, TYLC, V.

**4558 Plum Regal F1** 80 days. Determinate Roma type with superb disease package & high potential yield of large fruit 3-3.5" x 2-2.25" and 9-10 oz. Strong determinate providing dense foliage cover for fruit. Deep red interior and very small blossom scar. Resistant V, FW 1-2, TSWV, LB. Tolerant EB. High Resistant Graywall, Cracking, Fresh Mkt, Vine-ripe or Shipping at Mature Green Harvest.

**4565U Red Torch F1** 60-70 days. Nationwide trials noted excellent taste and yield across a wide range of conditions. Striped oblong 1.5 oz fruit 1.5" long has beautiful flavor, excellent balance of sugar and acidity, smooth interior with good meatiness. Color of skin and flesh is red striped with yellow. Early maturity and high yields of over 100 fruits per plant were reported. Vigorous vine bears over a very long season. Needs staking. Fresh mkt, UPick, Gdn.

**4578 Shelby F1** 75 days. Extra large 3.5-5.0 oz Roma with extensive disease package that enables potential for high yield in a broad range of weather conditions, including humid heat. Fruit are firm, bright red, very sweet with good acid balance. Classic elongated barrel shape. Firm fruit with low gel content hold well on the plant and store well after picking. Vigorous determinate vines provide good cover. Benefits from pruning. Resistant ASC; BSp 0; FR, FW 1,2; V 1. Tolerant TSWV, TYLC. Fresh mkt, Vine Ripe & Mature Green Mkts.

Cat#	Tomato (M=1000)	10 sd	50 sd	250 sd	500 sd	1000 sd	5 M (per M)
4494	Juliet	3.00	12.25	48.55	75.70	145.30	139.75
4540	Mountain Magic	3.00	12.25	48.55	75.70	145.30	139.75

Cat#	Tomato (M=1000)	25 sd	250 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
4474	Carina	15.70	102.15	160.60	240.85	238.60	232.80	226.95	222.55
4439	Early Resilience	3.90	25.55	40.20	62.40	60.20	57.90	55.65	54.00
4479	Hybrid 46	4.25	27.85	43.75	45.15	44.75	43.50	42.30	41.35
4507	Marinara	4.00	26.15	40.85	64.90	62.55	60.20	57.80	56.15
4521	Mochomo	12.40	80.80	127.15	158.15	152.35	146.60	140.80	136.75
4558	Plum Regal	9.55	72.40	101.15	136.15	132.40	129.90	127.45	125.85
4565U	Red Torch	6.70	43.40	68.15	108.15	104.25	100.25	96.40	93.60
4578	Shelby	4.90	35.35	56.30	90.00	87.35	85.30	83.60	



## Cherry Types

**4372 Bellini F1** 65 days. Indeterminate. Orange cocktail tomato with premium great flavor, firm texture and crack resistance. Smooth round fruit avg 1.5-1.75 oz, about 1.75". Medium vigor vines with multiple disease package and high yield potential. Resistant LM A-E, FW 1-2, V Tolerant N, St.

**Very limited supply.**

**4406 Candyland Red F1** 55 days. Current type. Very



small 0.5" fruit is dark red, very sweet and rich flavored. Prolonged harvest. 2-3' vine with tidy habit bearing numerous fruit near perimeter of plant for easy picking. Fresh Mkt, Specialty, Restaurant, Garden Ctr Sales.

**4470U Honeybee F1** 60 days. Large determinate semi-vining yellow cherry. Extra sweet, 1" round, golden yellow fruit set in multiple branching clusters. Large 4-6 ft determinate vines. Fruit counts of dozens at a time were noted in trials. Best replacement for Sun Sugar. Fresh Mkt, Regional Shipping, Cello, Salad Bar, Restaurant.

**4481U Jasper F1** 60 days. Rich sweet flavor & good firm flesh. Holds well on vine and tends to retain fruit quality well post-harvest. Extended crop season and durability through weather problems. Potential for high yield is supported by nice disease package, including both Early and Late Blight tolerances. AAS trials showed wide adaptability. Indeterminate vines grow over 2', excellent for staking; produces hundreds of 0.3 oz fruits averaging 0.75". Tolerant EB, FW 1-2, LB. Fresh Mkt, Restaurant Special, Salad Packs.

**4512 Midnight Snack F1** 68 days. Indeterminate indigo tomato ripens from red to glossy black-purple at maturity when grown in strong light. Color is due to high levels of anthocyanin pigment, a healthy antioxidant. 5-6 ft vines produce large trusses. Fruits avg 0.5 oz and 1.5" diam. Up to 100+ fruit per plant were counted in nationwide trials. Ripens all season long with sweetly balanced, juicy flavor. Fresh Mkt, Restaurant, Gourmet Salad.

**4552 Patio Choice Yellow F1** 45 days. Compact determinate plant bears masses of bright yellow 0.5 oz, 1" diam fruit in trusses that cover the deep green leaf canopy. Sweet and mildly acidic. Judges reported 100+ fruits per plant in national trials. V, F, TMV. Gdn Plant Sales, Container.



**Super Sweet 100 F1**

**4569 Red Robin F1** 55 days. Compact branching plant for container sales. 8". Profuse tight clusters of glossy bright red 1" round-oval fruit with nice sweet-acid flavor. Dense foliage covers well to protect fruit.

**4584 Super Sweet 100 VF F1** 65 days. Indeterminate. Improved Sweet 100 with disease tolerance. Small, round, red fruits have very sweet flavor, high Vitamin C content; borne in long, hanging clusters of up to 100 fruits each, productive. Tolerant FW, V. Fresh Mkt.

**4606 Sweet Treats F1** 66 days. Uniquely delicious pink cherry tomato. Very sweet and richly flavored with excellent firm texture. Capable of prolific extended yield due to resistance to a broad range of 5 diseases. Round 1-oz cherry fruit are deep pink inside. Smooth exterior. Resistant LM; FW 1,2; ToMV 0,1. Tolerant FR. Fresh Local Mkt, Restaurant, Garden Plant Sales.

## Grape Types

**4441U Fantastico F1** 60 days South, 75 days North. Patio tomato with miniature plum fruit. Produces large numbers of small blocky oval fruit weighing from 0.5 to 0.6 oz, about 1.25" x 1". Quite sweet at 9-10% Brix, but firm and showing excellent shelf life in the AAS trials. Stem length is about 30" staked. Plants trail to about 20" in basket and stand about 10" unsupported. Some of the AAS trial sites recorded picking sweet ripe fruit as late as Dec. in areas with late frost dates. Tolerant LB. Fresh Local Specialty, Restaurant, Garden and Container Plant Sales.

**4454U Gabrielle F1** 60 days.  $\frac{1}{2} \times \frac{3}{4}$  oz. Classic round-oval grape shape, just the right size for one-bite eating. Exceptional high-brix flavor. Loads of small fruit in big clusters.



**Midnight Snack F1**



**Gabrielle F1**



**Fantastico F1**



**Jasper F1**

Cat#	Tomato (M=1000)	10 sd	50 sd	250 sd	500 sd	1000 sd	5 M (per M)
4372	Bellini	6.25	23.80	95.30	138.65	266.40	256.35
4481U	Jasper	2.75	9.55	44.00	79.20	152.15	146.40

Cat#	Tomato (M=1000)	25 sd	250 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
4406	Candyland Red	4.15	31.90	51.50	75.40	68.60	66.15		
4441U	Fantastico	8.30	63.40	99.70	112.30	108.30	104.15	100.00	97.20
4454U	Gabrielle	2.65	12.00	20.30	35.30	31.80	29.65	27.95	26.75
4470U	Honeybee	1.75	11.65	18.80	31.85	28.25	25.90		
4512	Midnight Snack	6.00	39.35	61.75	91.15	87.85	84.45	81.15	78.80
4552	Patio Choice Yellow	1.75	15.30	25.90	47.50	41.00	34.55	29.15	25.90
4569	Red Robin	3.00	19.95	31.35	48.15	47.75	46.70	45.45	44.65
4584	Super Sweet 100 VF	3.15	20.40	32.15	50.90	49.55	48.25	46.95	46.00
4606	Sweet Treats	22.80	149.45	237.20	380.20	368.15	358.85	351.40	

**To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)**





**Sweet Hearts F1**



**Gold Spark F1**



**Pink Delicious F1**

## More Grape Types

**4462 Gold Spark F1** 65-70 days. Beautiful ½ oz canary yellow fruit borne in generous hands on vigorous medium-size indeterminate plants. Fruit is firm with great flavor and excellent shelf life. Breeder's trials indicate high yield potential. Works well in both open field or hoop house production, or low-tech hydroponics. Breeder's advice is to prune ground suckers 2" from ground. Resistant ToMV 0-2.

**4579 Sun Bliss F1** 65 days. Semi-determinate. Golden grape tomato with vigorous plant and prolific harvest of very sweet .7-.9 oz fruit. Color is pure golden. Tolerant TMV, V. Fresh mkt, Cello pack.

**4602 Sweet Hearts F1** 73 days. Large indeterminate, productive vine bears large hands of firm extra sweet 0.25 oz fruit. Brilliant red, uniform grape shape and size. High yield potential with continuous set of full clusters to top of plant. High Brix & above-average shelf life. Resistant LM, ToMV 0-2. Cracking, Fresh Mkt, Roadside, Shipping.

## Heirloom Trait Hybrid

**4555 Pink Delicious F1** 74 days. Pink tomato with superb flavor, firm flesh and broad disease package that confers very good potential for productive yields. Vigorous plant capable of extended harvest. Large Beefsteak size 8-12 oz fruit are rosy raspberry pink inside and out. A Wow! rich flavor, with great balance of sugar and acid won taste tests in regional trials hands down. Crack resistant. Ribbed.

**4458 Grandma's Pick F1** 70-80 days. Indeterminate. Strong growing Heirloom-trait hybrid gives the best of tradition productivity. Large 10-14 oz fruit are intensely flavored, gnarley, lobed, contorted and deep crimson. Highly flavored and high in lycopen. Can be cropped like regular hybrids for fresh market produce. Tolerant V, FW 1, N 1, St. Fresh Mkt, Home Gdn.

**4563 Purple Boy F1** 65-70 days. Heirloom taste in a modern disease tolerant hybrid branching indeterminate habit. Skin is red with purple tones. Interior is red fleshed with purplish locules. Good disease package gives good chances for plenty of yield. Prune aggressively. Resistant FR 0, FW 0, ToMV 0-2, V 0. Tolerant N. Fresh Mkt, Roadside.

## OP Heirlooms

**4394U Brandywine Red** 75 days. Large, deep globe shape 1 lb fruits. Deep skin color. Soft with excellent flavor and smooth red flesh. Indeterminate. Fruit with green shoulders, fairly large stem scar, may be potato leaf or regular leaf, depending on availability. A very popular 1800's heirloom best known for high flavor.

**4399U Brandywine Yellow** 80-100 days. Heirloom. Indeterminate fuzzy potato leaf vines. Large fruit up to 2 lb, fine flavor for a yellow, creamy texture, exceptional quality heirloom.

**4456U German Johnson** 76-80 days. Big, rough fruit, averages a meaty 9-24 oz. Skin deep with pink with yellow shoulders, mild low acid flavor with few seeds. Fresh Mkt, Home Gdn, Bedding.

**4523U Mortgage Lifter** 83-90 days. Old-time indeterminate variety with large smooth 1 lb fruit and deep pink skin. Meaty interior, very tasty with few seeds. Several growers have asked for this in recent years, so we've brought it back to our catalog. Fresh Mkt.

**4545 Mr. Stripey** 80 days. Bicolor red and yellow skin and flesh. Big, meaty 9 oz fruit, sometimes reach 2 lb, with low acid flavor. Bedding, Farm Mkt, Gdn.

## Tomatillo

**4349U Toma Verde** 100 days. Indeterminate. Used in a variety of Mexican and American dishes and salsas. To enjoy the tart flavor harvest while still green (before they turn yellow). Globe-shaped 2-3 oz fruit is enclosed in a thin husk which should be removed before the fruit is used or consumed. Large fruited variety; widely adapted. Approx 15,000 sd./oz. Similar culture to tomatoes.

Cat#	Tomato (M=1000)	10 sd	50 sd	250 sd	500 sd	1000 sd	5 M (per M)
4462	Gold Spark	7.15	28.40	113.85	183.95	353.60	340.15
4602	Sweet Hearts	20.15	80.00	154.00	165.15	317.15	305.15

Cat#	Tomato (M=1000)	25 sd	250 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
4458	Grandma's Pick	6.90	44.50	69.95	86.55	83.45	80.25	77.15	74.85
4555	Pink Delicious	5.45	35.00	55.00	87.30	86.50	84.15	81.90	80.15
4563	Purple Boy	7.45	50.90	80.00	127.00	125.80	122.40	119.15	116.65
4579	Sun Bliss	8.00	54.00	84.90	134.85	129.95	125.00	120.00	116.65

Cat#	Tomato (M=1000)	250 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
4394U	Brandywine Red	1.70	2.65	4.35	3.70	3.30	3.00	2.85
4399U	Brandywine Yellow	1.70	2.65	4.35	3.70	3.30	3.00	2.85
4456U	German Johnson	1.70	2.65	4.35	3.70	3.30	3.00	2.85
4523U	Mortgage Lifter	1.70	2.65	4.35	3.70	3.30	3.00	2.85
4545	Mr. Stripey	1.70	2.65	4.35	3.70	3.30	3.00	2.85

Cat#	Tomatillo	1/256 oz	¼ oz	½ oz	1 oz	¼ lb	½ lb	1 lb
4349U	Toma Verde	3.25	15.90	26.15	44.90	161.15	295.80	550.80



# Rutabaga

(*Brassica napus*, *Napobrassica* Group)

Approx. 12,000 sd/oz. Pkt plants 25-30' of row; ¼ oz sows 100' Direct sow 1-2 lbs/acre. Sow sd ¼-½" deep, 2-6" apart in rows 12-26" apart. Germs in about 9 days. **Days to maturity are from sowing.**

**3980U American Purple Top** 90 days. High quality, selected strain. Large round roots are deep purplish red above, yellow below; small tap root. Fine grained flesh is firm, crisp, mild and sweet. Small tops, short necks.

# Turnip

(*Brassica rapa*, *Rapifera* Group)

Approx. 15,000 sd/oz. Pkt plants 40' of row; ½ oz sows 100'. Direct sow 1-2 lbs/acre. Sow sd ¼-½" deep, 2-6" apart in rows 12-36" apart. Germs in about 7 days. **Days to maturity are from sowing.**

**4619 Alamo F1** 33 days. Excellent taste, yields and regrowth ability. Short petiole with the greens having broad leaves and the roots are small, narrowed and tapered.

**4624 All Top F1** 35 days. Greens only; does not form roots. Uniform plants produce large, broad, smooth green leaves with sturdy green stems; excellent for greens, forage.

**4629 Just Right F1** 28 days for greens; 60 days for roots. Dual purpose type best for fall planting. Produces glossy, tender leaves for greens; or grow on for roots. Snow white roots are smooth, up to 6", high quality.

**4644 Royal Crown F1** 40 days. Improved hybrid of Purple Top White Globe type. Tops are taller, more erect and deeper green, with more intense deep purple color on flat, globe shaped root crowns. High yield potential of uniform roots and quality dark greens. Regrows rapidly after cutting and hold well in field. Roots harvested at 3-6" average 14 oz., are sweet, smooth textured, resist pithiness until late in the season. Thick strong stems to 24". Fresh Mkt, Roadside, Shipping.



Alamo F1



Royal Crown F1



Tokyo Cross F1



Topper F1

**4659 & 4659U Tokyo Cross F1** 35 days. Early harvest of high quality. Perfectly globe-shaped roots are pure white, smooth; 2" roots ready in only 35 days. Plant closely and reduce nitrogen fertilizer. Plants can be harvested over longer period; roots grow up to 6" without pithiness.

**4664 Topper F1** 36 days for greens. 80 days for roots. Very heavy-yielding. Seven Top type. Vigorous tops up to 28"; thick, smooth, lobed leaves are broad and dark green.

**4669 White Lady F1** 28-35 days. Sweet, tender and delicious. Medium-size, pure white roots are flattened-round, slow to get pithy. Bright green tops to 20". Harvest roots at any stage. Plants resist bolting.

## Open Pollinated

**4634U Purple Top White Globe** 55 days. Improves strain. Uniform, smooth, attractive roots with purple and white skin. Fine-grained, tender white flesh.

**4649U Seven Top** 45 days. For greens only. Produces large quantities of tender, flavorful leaves for greens, forage.



All Top F1

Cat#	Rutabaga	¼ oz	1 oz	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
3980U	American Purple Top	2.60	3.95	5.90	8.85	13.20	9.25	6.25	5.45

Cat#	Turnip	1/16 oz	1 oz	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
4619	Alamo	2.15	17.30	60.60	104.85	189.15	176.25	166.85	158.95
4624	All Top	2.20	12.15	42.25	73.80	132.20	122.70	116.65	110.65
4629	Just Right	2.40	22.40	78.00	135.75	244.85	228.35	215.95	205.55
4644	Royal Crown	2.00	15.95	55.80	96.85	174.60	162.80	154.15	146.75
4659&4659U	Tokyo Cross	2.25	26.50	92.95	161.45	291.15	271.50	256.90	244.60
4664	Topper	1.90	15.20	53.00	92.00	166.00	154.85	146.45	139.55
4669	White Lady	2.25	26.15	91.15	158.30	285.45	266.20	251.95	239.95

Cat#	Turnip	¼ oz	1 oz	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
4634U	Purple Top White Globe	1.80	2.25	2.70	3.95	5.25	4.95	4.65	4.45
4649U	Seven Top	1.60	2.05	2.45	3.55	4.75	4.45	4.20	4.00

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)



### Important Notice To Watermelon Seed Buyers

Please read the important information on the back of the order blank. We must have your signature on the order form if you are going to order more than 1,000 seeds or 1 lb of a variety.

**Waiver concerning all watermelon seed purchased from Otis S. Twilley, Inc.**  
(Growers, Brokers, Packers/Shippers)

In addition to the Twilley waiver agreement, a Nunhems waiver agreement must be signed for any Nunhems watermelon variety marked with the following symbol:



A Nunhems waiver form is in the centerfold of this catalog, and these forms can be downloaded from our website: [www.twilleyseed.com](http://www.twilleyseed.com).

We want to advise you that the bacterial fruit blotch disease of watermelons has again appeared in watermelon fields in many watermelon producing areas. This disease has been periodically reported since its initial detection in 1989. Losses from this bacterial disease have ranged from minor to as high as 100% of the marketable fruits.

The causal agent of the fruit blotch disease appears to be closely related to *Acidovorax avenae* subsp. *citrulli* (synonym: *Pseudomonas pseudoalcaligenes* subsp. *citrulli*). The pathogen could be seed-borne from the original seed lot, or result from other host infection. The disease has attacked many varieties of watermelon from different seed producers.

Although new testing procedures are currently under development, it is impossible to conduct any test procedures that will give 100% reliable results with regard to the identification of any seed-borne watermelon fruit blotch infections. Work is being done by public and private researchers, seed companies and growers, to determine improved identification and control measures and to develop statistically reliable testing procedures.

Work is also being done to determine if different varieties of watermelon, both diploid and triploid, have any level of resistance or tolerance to this disease. No varieties to date have been identified as having any significant level of resistance.

The symptoms on young seedlings appear as dark water-soaked lesions on the lower surfaces of the cotyledons or the true leaves. These initial water-soaked lesions later turn necrotic and may also have chlorotic halos surrounding the dead tissues. The lesions will also often appear on the hypocotyls of young seedlings, resulting in the wilting and death of these young plants. The most dramatic and destructive phases of this disease are the fruit infections that occur much later in the growing cycle. The lesions on the top surface of the fruits appear as small, water-soaked areas, which under the right conditions of high temperature and humidity, enlarge rapidly to cover most of the surface of the fruits. Fruit decay often follows. This later condition of the disease cycle could lead to significant economical losses to the grower.

In cases where the pathogen is carried in the seed, the typical lesions described above will appear on the young seedlings within 7 days after seedling emergence. If no symptoms are observed on the young seedlings within three weeks after emergence, it is unlikely that the bacterium is carried on the seed and that any subsequent infection is most likely from other sources. It is imperative that each grower inspect the young plants during this early stage, in order to determine the presence or absence of these symptoms and to mitigate any potential economical losses.

**Caution:** Symptoms that appear on plants in the early stages of growth, and especially those symptoms caused by secondary infections, may not be evident on new foliar parts as the plants develop. The pathogen, however, may still be alive in infected tissues, and may infect the fruits if favorable conditions of temperature and humidity prevail. Do not retain any plants that show any symptoms at any time.

### Growing Triploids

If you grow for fresh market, triploid F1 watermelons are a crop you can count on to attract plenty of attention. They are waxier than diploid varieties, and bring high prices wherever they're marketed. The flesh is absolutely tops in eating quality, market preference and consumer demand. No seeding necessary! And cut fruit displayed in shrink wrap is a sure seller.

Sometimes incorrectly referred to as "seedless", triploids are sterile hybrids which, because of their genetic makeup, characteristically produce fruit with few or no true seeds. Sometimes cultural practices or weather conditions may result in fruit with some vestigial seeds or empty white seed coats. Because of this, triploid F1 watermelons are not guaranteed to produce seedless fruit.

A special note to growers of triploid F1 watermelons: Please follow careful practices to grow triploid F1 watermelons successfully. We supply detailed growing instructions with your seed. For best results, we suggest starting seed in the greenhouse in peat pellets (on page 113) 3 weeks before outdoor planting time. Because of their genetic makeup, triploid F1 watermelons must be planted with a diploid (regular hybrid or open-pollinated) variety as a pollinizer in order to assure fruit set. Approximately 600 pollinizer per acre.

**Days to maturity are from transplant.**


### Special Limitation of Warranty

#### TRIPLOID HYBRID WATERMELONS

**A. NOTICE:** Hybrid triploid watermelons are sterile, or true, hybrids which characteristically produce fruits with few or no true seeds. Because the absence, or relative absence, of "hard" or true seeds in the fruit of the melon is its chief distinguishing characteristic, the hybrid triploid watermelon is often referred to as a "seedless" watermelon. Despite the popular perception, hybrid triploid watermelons are not true "seedless" watermelons. The first melons to ripen in a field of hybrid triploid watermelons often contain small, vestigial seeds. In addition, certain genetic, cultural and climatic factors are known to cause the formation of empty seed coats, small, white, immature seeds and/or hard seeds in the flesh of the melons. Due to the wide variety of possible causes of hard seed or ovule formation, Hybrid triploid watermelons are not guaranteed to produce seedless fruit.

Hybrid triploid watermelon production requires a high level of grower sophistication. Hybrid triploid watermelons require a pollen source and bees to serve as pollen vectors. The general rule is one pollinizer plant for every 3-4 seedless plants. Hybrid triploids also require special care for satisfactory germination. Growers are encouraged to contact university extension personnel for government publications and information concerning recommended cultural practices. Otis S. Twilley Seed Co., Inc. can also supply certain information on request. Growers are encouraged to develop expertise in growing hybrid triploid watermelons prior to instituting large-scale commercial production.

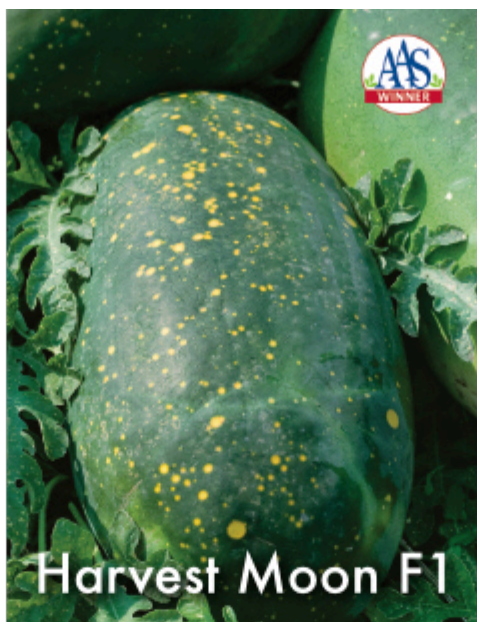
**B. SPECIAL LIMITATION OF WARRANTY:** All hybrid triploid watermelon seeds are sold pursuant to Otis S. Twilley Seed Co., Inc.'s standard terms and conditions of sale. Descriptions and illustrations of hybrid triploid watermelons appearing (in the seed catalog and elsewhere) represent hybrid triploid watermelons as grown under favorable growing conditions in favorable growing areas. Appearance and performance may vary in other geographic locations and under different growing conditions. Otis S. Twilley Seed Co., Inc. expressly excludes any warranty of conformity to description, illustration or sample and extends no warranty that the hybrid triploid watermelon seed sold will produce "seedless" fruit. All implied warranties, including but not limited to any implied warranties of merchantability and fitness for a particular purpose, are expressly excluded.

**C. For Nunhems triploid watermelons marked with the following symbol:**  There is a Nunhems triploid waiver agreement in the centerfold of this catalog and also available for download from our website: [www.twilleyseed.com](http://www.twilleyseed.com). You can also contact us for a copy.





Kingman F1



Harvest Moon F1



Fascination F1










#### Watermelon Disease Codes

<b>A</b>	Anthrachnose & race #'s
<b>F</b>	Fusarium Wilt
<b>GSB</b>	Gummy Stem Blight
<b>PM</b>	Powdery Mildew & race #'s

## Watermelon Triploid (Citrullus lanatus)

Approx. 400-500 seeds/oz = approx 7,200 / lb

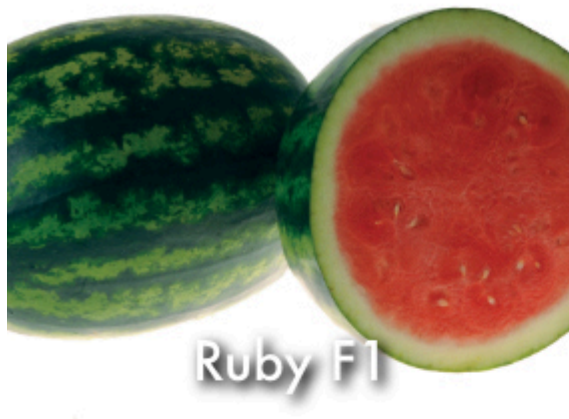
Please reference page 76 for complete information on growing triploid watermelons.

Variety	Days (from transplant)	Size	Shape and Color	Disease	Description
<b>Red Fleshed</b>					
4874 Belmont F1	90	6-10 lbs			Miniature size range. Round-oval fruit weighs 6-10 lb. Vivid deep red flesh is extra firm & crispy, with very small pips. Highly contrasting rind is clean bright white. Crimson Sweet type rind appearance, mid green with broad deep stripes. Vine is vigorous growing and strong with high yield potential of multiple fruit per plant. Use an early pollinator variety. Fresh local mkt, Garden Plant Sales, Sale wrapped.
4883 Charismatic F1	83	16-20 lbs			New generation breeding from Sakata. Early, consistent yields with good cold-setting ability. Flesh very crisp, dense, sweet and bright red with inconspicuous pips. Rind has dark green stripes on mid-green background, with bright white shell providing sharp demarcation around flesh. Widely adapted. Major market appeal. Use an early pollinizer for best results. Strong vigorous vines provide excellent yield potential. Best sub for Affirmed when needed.
4876 Fascination F1	83	16-20 lbs		Tolerant A, F1	Crimson Sweet type rind. Interior is dark red and firm with small pips. Performed well in yield trials across major watermelon areas of U.S. Good uniformity of size and shape. Fresh Mkt, Fresh Cut, Cello Pack, Shipping.
4877 Harvest Moon F1 	80-100	18-20 lbs			This is a seedless hybrid with the mottled rind pattern of the old "Moon & Stars" heirloom. Crisp flesh can hold well on vine and after harvest. Compact 3-5' vines. Averages 3-4 fruit per plant.
4875 Joy Ride F1	80-85	19 lbs		Tolerant F1	Widely adapted. 2015 Southeast & Midwest trials resulted in superior avg scores for sweetness, firmness, recorded yield and low percent Hollow Heart. Uniform fruit set. Vigorous vine makes dense canopy for sun protection. Fresh Mkt, Shipping, Cut Fruit Cello Pack.
4879 Kingman F1 	85	18-22 lbs			Top performer in university trials, including highest total and highest 36-count yields at UGA. Crimson gene type with extremely bright red flesh. Firm and crisp with small pips.
4880 Lamar F1	83	12 lbs		Resistant FW	Sugar Baby type. Flesh is bright red, sweet, clean flavored. Sharp boundary between flesh and hard white inner rind creates appealing look. Vigorous vines give potential for heavy crops. Excellent For Cut Fruit Sales. Fresh Mkt, Roadside, Shipping.

Cat#	Watermelon (M=1000)	10 sd	50 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)
4874	Belmont	7.75	30.70	49.15	198.65	324.65	314.65	
4876	Fascination	17.75	70.35	112.75	456.15	558.90	517.50	
4877	Harvest Moon	6.95	27.60	44.25	179.00	292.45	283.55	
4875	Joy Ride	10.20	41.15	65.80	266.20	434.90	386.60	
4879	Kingman	7.60	29.90	47.50	190.15	307.70	302.80	298.25
4880	Lamar	7.15	28.25	45.20	182.90	298.90	284.60	
4883	Charismatic	5.90	23.45	37.60	152.10	248.55	240.90	--

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





Ruby F1



Revolution F1



Sweet Eat'n F1













SuperSeedless®  
Variety 7167 F1

## More Watermelon Triploid

Approx. 400-500 seeds/oz = approx 7,200 / lb

(*Citrullus lanatus*)

Variety	Days (from transplant)	Size	Shape and Color	Disease	Description
<b>Red Fleshed</b>					
4892 Revolution F1 	84	18-24 lbs		Tolerant A 0-1, FW 0-1	Classic Allsweet rind pattern. Interior is intense dark red with texture. High brix levels. Vigorous vines with broad dense foliage provide strong fruit protection. Melons handle well in local mkt and in shipping. Fresh Mkt, Shipping Cut Fruit Cello Pack.
4893 Ruby F1	85	15 lbs		Tolerant A0- 1, FW13	Superior triploid hybrid. Strong waxy rind improves retention of color and flesh quality. Attractive rind has dark double stripe pattern over mid-light green background. Crisp, sweet red flesh. Small pips and sharp internal contrast at flesh-rind boundary.
4894 Secretariat F1	80	16-20 lbs			Crimson Sweet type rind. Early maturing with good cold setting ability and high yield potential. Crimson gene type with deep red flesh.
4895 Summer Breeze F1	80-85	16 lbs		Resistant A, Tolerant FW	Tests from 2015 Se trial locations recorded high readings for sugar and firmness as well as high yield potential. Has the desirable combo of rind traits: thin but very strong for shipping.
4921 SuperSeedless® Brand Variety 7167 	90	14-18 lbs		Tolerant A1	Rind is medium green with broad dark stripes. Flesh is bright red, crisp and very sweet. Good protection provided by vigorous large leaved vine. High yield potential.
4915 SV0241WA F1	80	12-13 lbs		Resistant A1, Tolerant F1	Excellent yield among triploids at 2012 NC State trial. Vibrant, deep shiny red flesh. Firm, sweet & crisp. Very small pips. Vigorous vines are strong against disease & provide late-season cover to protect fruit. Fresh Mkt, Fresh Cut, Shipping.
4918 Sweet Eat'n F1	85	18-24 lbs		Tolerant A, F	Very large for a seedless variety. High indexes for sugar and fiber content result in firm extra sweet eating. Thin but tough rind makes it an excellent shipper.
4945U Triple Baby F1	75	5-7 lbs			Sugar Baby type in size and color but with triploid advantages of high sugar and long shelf life. To achieve small personal sized fruit, transplant small plants 20-24" apart with a pollinator every 5th or 6th plant. Any oval diploid variety is recommended as the pollinator.

Cat#	Watermelon (M=1000)	10 sd	50 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)
4892	Revolution	9.20	36.65	58.70	237.50	413.80	394.90	
4893	Ruby	7.20	28.65	46.00	186.00	303.85	289.35	
4894	Secretariat	13.20	51.90	82.35	329.85	307.70	302.80	298.25
4895	Summer Breeze	10.20	40.60	65.15	263.30	430.00	382.20	
4921	SuperSeedless® Brand 7167	8.30	32.95	52.80	213.45	369.00	352.50	
4915	SV0241WA	9.20	36.60	58.35	236.25	370.85	329.60	
4918	Sweet Eat'n	5.55	22.25	35.60	144.40	175.50	170.15	
4945U	Triple Baby	6.95	27.60	44.25	179.00	292.45	283.55	





Yellow Buttercup F1



Lemon Ice F1



Secretariat F1



Summer Breeze F1





Triple Baby F1

## More Watermelon Triploid

Approx. 400-500 seeds/oz = approx 7,200 / lb

(*Citrullus lanatus*)

Variety	Days	Size	Shape and Color	Disease	Description
<b>Yellow Fleshed</b>					
4881 Lemon Ice F1	85	10-12 lbs		Tolerant F 1-2, PM 1	Ice Box size. Firm crispy sweet yellow flesh. Attractive tiger stripe rind pattern. Good Disease tolerance gives chance of high yield. Fresh Mkt, Shipping, Garden Ctr Sales, Restaurant.
4954 Yellow Buttercup F1	90	14-16 lbs			Bright yellow flesh, Jubilee rind type with sharply defined dark green tiger stripe.

Cat#	Watermelon (M=1000)	10 sd	50 sd	100 sd	500 sd	1000 sd	5 M (per M)
4881	Lemon Ice	8.15	32.40	51.90	209.75	327.60	317.50
4954	Yellow Buttercup	11.75	46.70	74.60	301.95	493.40	478.25

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





## Watermelon Diploid

Approx. 200-300 sd/oz for large-seeded types (500 sd/oz for small-seeded types). F1 packets contain 25 sd; o.p. packets produce 6-10 hills; 3 1/4 lb produces approx. 10,000 plants (1 1/2-2 lbs if small-seeded). Germs in about 8 days. Set plants 24-36" apart in rows 72-96" apart (closer for bush types). Days to maturity are from transplant.

Variety	Days	Size	Shape and Color	Disease	Description
<b>Allsweet Types - Red Fleshed</b>					
4679U Allsweet	90	25-30 lbs		Tolerant A 1-3, FW	A classic, Bright red flesh, high sugar content, exceptional firmness. Shipping.
4737 Estrella F1	80	20-24 lbs		Tolerant A, FW	Vigorous vines, large leaves for great protective canopy. Has performed well in all watermelon areas needing early maturity. Can be use in frost-free winter production. Fresh mkt, shipping, cut & wrapped.
4749 Jamboree F1	88	23-27 lbs		Tolerant A, F	Allsweet type with advantages for cool season production or when growing conditions limit size. Bright red flesh, firm texture. Rind has a waxy exterior and skin is somewhat grey, making it more tolerant to sunburn. Fresh Mkt, Roadside, Shipping, Garden.
4794 & 4794U Sangria F1	85	20-26 lbs		Tolerant A 1, Resistant FW	Sweet and refreshing. Dark red flesh with unsurpassed eating quality. Fresh Mkt, Garden, Shipping.
4835 Summer Flavor® Brand Variety 720 F1	85	28-30 lbs		Tolerant A 1	Excellent shape and size. Medium to large vines with high yield potential. Sweet, bright red flesh.
4839 Summer Flavor® Brand Variety 790 HQ	85	24-28 lbs		Tolerant A 1	Sweet deep red flesh. Vigorous large vine. Good yield potential. Very shippable.
4843 Summer Flavor® Brand Variety 800 F1	87	24-28 lbs		Tolerant A1, F1	Strong male flowering with plenty of pollen for fruit set- a good pollinator for Tribrids. Broad leaves protect fruit well. Strong rind (a good shipper) is dark green with light stripes. Deep red flesh. Strong, vigorous vines.
4841 Summer Flavor® Brand Variety 840 F1	93	22-26 lbs		Tolerant A 1, F 1	Deep red flesh. Large vigorous vine. Potential for high yield. <b>Very limited supply</b>
<b>Charleston Grey - Red Fleshed</b>					
4708U Charleston Grey	83	26-33 lbs		Tolerant A, FW	Rind characterized by distinctive, marbled light green color. Bright red flesh is very sweet. Good shipper.

Cat#	Watermelon	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)
4679U	Allsweet	2.60	6.90	14.65	25.45	45.30	41.45	38.65
4708U	Charleston Grey	2.25	5.20	7.55	13.20	23.55	21.45	20.00

Cat#	Watermelon (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	30 M (per M)
4737	Estrella	10.20	27.15	108.60	175.70	155.65	135.90	
4749	Jamboree	12.45	32.80	131.35	164.75	145.90	127.55	
4794	Sangria	10.70	27.90	111.80	180.85	160.30	140.00	
4835	Summer Flavor® Brand 720	11.00	30.25	120.15	192.55	187.90	182.50	178.20
4839	Summer Flavor® Brand 790 HQ	7.20	19.35	76.70	122.85	119.90	117.70	114.50
4843	Summer Flavor® Brand 800	7.70	20.20	80.00	128.25	124.40	120.65	117.45
4841	Summer Flavor® Brand 840	6.65	17.90	71.00	113.75	111.00	109.00	106.00





## More Watermelon Diploid

Variety	Days	Size	Shape and Color	Disease	Description
<b>Crimson Types - Red Fleshed</b>					
4730 Compadre F1	84	20-25 lbs		Tolerant A, FW, GSB	Firm red flesh. Strong vines have shown ability in trial to produce heavy set of quality fruit.
4719U Crimson Sweet	85	25 lbs		Tolerant A, FW	Very popular shipping type. Delicious deep red firm flesh has high sugar content. Small seeded. Shipping.
4769 PS11018330 F1	75-85	30 lbs			Shiny red flesh. Small seeded. Compact vigorous vine has tight sun cover over fruit. CA and Southeast trials very positive. Capable of jumbos as wide spacing. <b>Not available until May 2024.</b>
4796 Shiny Boy F1	90	20 lbs			Beat out comparisons in AAS taste tests. Sweet, tropical flavor with shiny rind. Vigorous vines can grow up to 12". AAS judges noted plants produce high yields tolerant of severe weather.
<b>Ice Box Types - Red Fleshed</b>					
4701U Bush Sugar Baby	65	7 lbs			Very early with compact, determinate vines. Worth testing as pollinator of seedless types because of "bush" habit. Firm sweet red/orange flesh.
4744 Jade Star (Pata Negra) F1	75	15 lbs		Resistant F	Dark green rind contrasts beautifully with delicious bright red flesh. Small seeded. Note: Sold for export as Pata Negra. Fresh Mkt, Commercial, Shipping, Roadside, Garden.
4764U Mini Love F1	70	6-9 lbs		Tolerant A	AAS trials reported good yield for 4-6 melons per vine, shiny exterior with Crimson Sweet pattern. Thin but strong rind reported as not prone to cracking. Compact vines spread 3-4". Fresh Mkt, Shipping, Garden Ctr Sales. <b>No sales to South Carolina.</b>
4799 Smile F1	80	6-8 lbs		Tolerant Fruit Cracking	High sugar and outstandingly tough rind. Excellent for long distance shipping. Withstands rough handling and wet ground prior to harvest. Stores up to 12 days after harvest. Long Distance Shipping, Garden, Roadside.
4809U Sugar Baby	84	6-7 lbs			Very popular type with good keeping quality. Distinctive dark rind is thin but fairly tough. Small seeded. This is the pollinizer we supply with most triploids.

Cat#	Watermelon (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)
4730	Compadre	4.15	12.70	50.85	72.70	65.70	59.15	
4744	Jade Star	8.15	25.15	100.55	145.50	136.70	128.65	
4764U	Mini Love	12.15	38.15	152.90	247.45	223.35	201.15	
4769	PS 11018330	5.65	17.20	68.85	105.60	99.20	93.35	
4796	Shiny Boy	2.40	7.00	28.00	47.70	42.15	38.55	35.45
4799	Smile	2.65	8.20	32.75	48.15	46.00	44.15	

Cat#	Watermelon	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	50 lb (per lb)
4719U	Crimson Sweet	1.65	2.85	8.00	14.00	25.30	23.55	22.35	21.25
4809U	Sugar Baby	1.65	2.75	9.20	6.15	29.00	26.50	24.75	

Cat#	Watermelon	1/32 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
4701U	Bush Sugar Baby	1.80	7.80	12.75	44.30	65.90	84.25	76.70

**To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)**





Georgia Rattlesnake



Starbrite F1










Madhubala F1

## More Watermelon Diploid

### Watermelon Disease Codes

A	Anthracnose & race #'s
F	Fusarium Wilt
GSB	Gummy Stem Blight
PM	Powdery Mildew & race #'s

Variety	Days	Size	Shape and Color	Disease	Description
<b>Jubilee</b>					
4739U Georgia Rattlesnake	90	38-50 lbs			A southern heirloom customers have requested. Highly prized for size & eating quality. Firm, sweet, bright rose flesh. Vigorous vines.
4762 Jubilee Improved	90-100	26-38 lbs		Tolerant A, F	The original Jubilee has been a favorite for many years. The rind is medium thick, light green with dark green stripes. The bright red flesh is sweet and fine textured. Large black seeds. Good shipper.
4768 Madhubala F1 	80	22-26 lbs		Tolerant A 1	Very early for this size class. Similar in shape and rind to SummerFlavor 710. Although growers have reported that fruit size is often smaller. Flesh is bright red. Strong, vigorous vines.
4766 Madhuri F1 	85-90	22-26 lbs		Tolerant A 1	Good combo of fruit size, color, shape. Flesh is bright red, very fine flavor. Strong plant vigor. Fresh Mkt, Shipping.
4804 Starbrite F1	85	22-31 lbs		Tolerant A 1, F 1	Capable of producing high percent Jumbos for roadside markets. Vigorous vines. Uniformly sweet deep red flesh. Good shipper. Fresh Mkt, Garden, Roadside, Shipping.

Cat#	Watermelon	¼ oz	1 oz	¼ lb	½ lb	1 lb	5 lb (per lb)	10 lb (per lb)
4739U	Georgia Rattlesnake	2.15	4.20	14.65	25.15	44.80	41.00	38.40
4762	Jubilee Improved	1.95	2.20	7.15	12.40	22.00	20.15	18.80

Cat#	Watermelon (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	30 M (per M)
4768	Madhubala	9.70	25.40	100.80	144.00	134.45	124.90	117.00
4766	Madhuri	9.35	24.45	96.90	144.00	134.45	124.90	117.00
4804	Starbrite	5.45	16.85	67.00	101.15	95.00	89.35	





Yellow Baby F1



Lemon Krush F1

## More Watermelon Diploid

Approx. 200-300 sd/oz for large-seeded types (500 sd/oz for small-seeded types). F1 packets contain 25 sd; o.p. packets produce 6-10 hills; 3 1/4 lb produces approx. 10,000 plants (1 1/2-2 lbs if small-seeded). Germs in about 8 days. Set plants 24-36" apart in rows 72-96" apart (closer for bush types). Days to maturity are from transplant.



Gold in Gold F1



Yellow Doll F1

Variety	Days	Size	Shape and Color	Disease	Description
<b>Non-Traditional Flesh</b>					
4694U Baby Doll F1	70	6-8 lbs			Bright yellow crisp, sweet flesh. Best sub for Yellow Doll if needed.
4742 Gold in Gold F1	70	11-16 lbs			Eye-catching and fun. Unique yellow rind with golden stripes encases golden orangy flesh. AAS judges reported good performance in national trials. 6-7" diam. Fruit can be used in icebox category while the long shape adds weight and value.
4765 Lemon Krush F1	85	16-18 lbs		Tolerant A, FW, PM 1, 2	Large fruit much requested by customers. Firm, sweet yellow flesh. Popular Crimson Sweet Rind pattern.
4767 Orange Krush F1	75-78	17-20 lbs		Tolerant F	75-78 Days. Flesh is golden orange, sweet and crispy with overall good clean flavor. Round-oval fruit avg 17-20 lb. External rind pattern is Crimson Sweet type with distinctly delineated bands of deep green and light green.
4868 Yellow Baby F1	65	8-9 lbs			Pure yellow, sweet flesh. Rind is thin but tough with sharp dark green stripes. Fewer seed than most diploids of this size.
4869 Yellow Doll F1	68	5-8 lbs			Earliest yellow-fleshed fruits in our selection. Semi compact vines.

Cat#	Watermelon	1/32 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
4694U	Baby Doll	2.00	17.20	28.25	101.55	181.45	331.70	310.15
4868	Yellow Baby	5.20	61.65	101.35	363.95	650.15	1189.20	1111.35

Cat#	Watermelon (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)
4742	Gold in Gold	4.30	11.30	45.25	73.20	66.15	59.50	--
4765	Lemon Krush	9.00	23.50	93.30	140.20	126.50	113.90	--
4767	Orange Krush	8.50	22.00	87.50	140.20	126.50	113.90	--
4869	Yellow Doll	8.65	26.00	104.35	153.70	144.50	135.95	--

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





Basil  
Sweet Large Leaf  
Italian



Basil  
Genovese



Basil  
Cinnamon



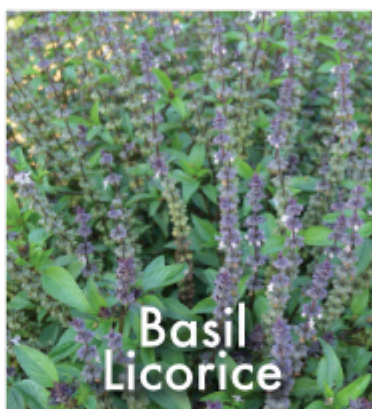
Basil  
Spicy Globe



Basil  
Dolce Fresca



Basil British



Basil  
Licorice



Basil  
Red Rubin

## Annual Herbs

Arugula listed on page 31

\*All Herbs are untreated unless otherwise stated.

**5205 Anise** (*Pimpinella anisum*) About 11,000 sd/oz. Leaves and seeds have flavor of licorice. Flavor cakes, cordials and sausage. Ht. 2'.

1/32 oz	oz 2.50	1/4 lb	1/2 lb	1 lb
2.15		8.15	13.50	23.70

**5238 Basil British** 60-90 days. A Basil with tolerance to cool, damp growing conditions. Selected for field production in a British climate, this variety is worth testing for fall and spring performance in the U.S., to extend the season for both fresh cut and container basil. Will not stand freezing conditions.

100 sds	500 sds	1000	5 MSd	10 MSd
1.55	3.60	sds 5.15	4.40/M	3.00/M

**5241 Basil Cinnamon** About 23,000 sd/oz. Scented Basil. Popular as an aromatic addition to cutflower arrangements.

1/32 oz	1/4 oz	1/2 oz	oz 12.00
1.60	2.35	3.55	

**5245 Basil Crimson King** 80 days. 12" pot, up to 20" in gdn; 100% purple foliage. Attractive Genovese-shaped leaves. Ornamental edible with spicy clove aroma.

100 sds	500 sds	1000	5 MSd	10 MSd
1.55	3.65	sds 5.20	4.60/M	3.15/M

**5246 Basil Dolce Fresca** 60 days from sowing to harvest. 12" tall in pot, 14" tall in gdn. Short internodes keep plants bushy and manageable. Regrows neatly after cutting. Traditional sweet basil flavor.

100 sds	500 sds	1000 sds	5 MSd	10 MSd
1.55	2.20	3.15	2.15/M	1.70/M

**5250 Basil Genovese** About 16,000 sd/oz. Bright green, savoyed leaves. Uniform, tall, 24" plants are slow to bolt. Heavy, spicy taste and smell. Use in pesto sauce.

1/32 oz	1/4 oz	oz 16.25	1/4 lb	1 lb
10.20	12.65		46.15	161.30

**5277 Basil Lemon** About 16,000 sd/oz. Scented Basil.

1/32 oz	1/4 oz	1/2 oz	oz 12.00
1.60	2.35	3.55	

**5286 Basil Lemon Sweet Dani** About 14,000 sd/oz. Leaves burst with lemon fragrance when lightly touched. Bushy 26" plant. Useful as a bedding plant in 8-10 weeks from seed. Excellent culinary variety.

100 sds	500 sds	1000 sds	5 MSd
1.55	4.35	7.50	5.25/M

**5295 Basil Licorice** About 23,149 sd/oz. Scented Basil.

1/32 oz	1/4 oz	1/2 oz	oz 38.60
12.25	16.65	21.25	

**5300 Basil Newton** 21" pot spreading 10", 30" gdn spreading 16"; Bright green crinkled leaves. Fast growing, just 7-10 weeks to 1st harvest. High resistance to fusarium. Clean Genovese flavor, no licorice aftertaste. For Fresh Mkt, Container, Field.

100 sds	500 sds	1000	5 MSd	10 MSd
1.55	2.75	sds 3.95	3.40/M	2.40/M

**5313 Basil Purple Ruffles** About 20,000 sd/oz. Shiny, dark purple, ruffled leaves. Purple flowers. Provides fine flavoring for culinary use. Ht. 18-24".

100 sds	500 sds	1000	5 MSd	10 MSd
1.55	4.60	sds 7.95	5.55/M	4.20/M

**5316 Basil Red Rubin** About 19,000 sd/oz. 12", Strong purple bronze foliage, intense fragrance and fine flavor. Suitable for professional production.

1/32 oz	1/4 oz	1/2 oz	oz 14.40	1/4 lb
1.65	2.50	4.50		48.00

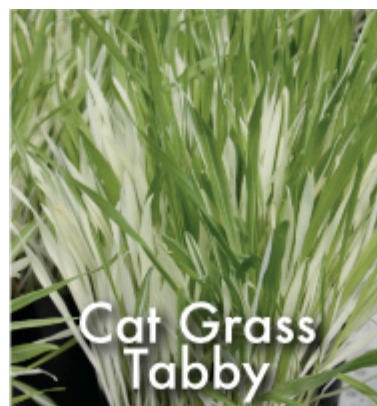




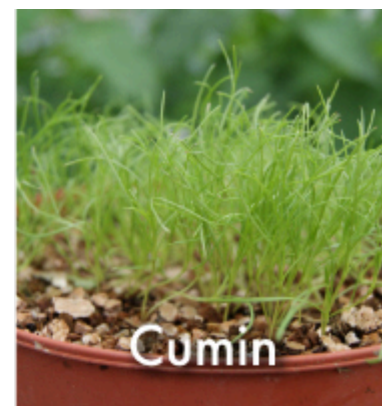
**Basil  
Siam Queen**



**Coriander  
Cilantro Santo**



**Cat Grass  
Tabby**



**Cumin**



**Basil  
Rutger's  
Passion  
DMR**



**Basil  
Lemon Sweet  
Dani**



**Basil  
Rutger's  
Obsession  
DMR**



**Basil  
Crimson King**

**5318 Basil Rutger's Obsession DMR** Vigorous growth, high leaf-to-stem ratio, deep green, excellent disease resistance to both Downy Mildew and Fusarium Wilt, for long, prolific, clean harvest. Performs well in field and potted plant production. Fresh mkt/drying. Resistant DM, FW. Fresh Mkt, Drying.

1/32 oz 2.15	1/4 oz 3.25	1/2 oz 4.90	oz 16.50
-----------------	-------------	-------------	----------

**5320 Basil Rutger's Passion DMR** Vigorous growth, high leaf-to-stem ratio, deep green, the strongest resistance Downy Mildew in Rutger's program, for long, prolific, clean harvest. Long 3" fancy leaves. Has shown excellent regrowth allowing many harvests. Performs well in field and potted plant production. Fresh mkt/drying. Resistant DM. Fresh Mkt, Drying.

1/32 oz 2.25	1/4 oz 3.80	1/2 oz 5.85	oz 19.15
-----------------	-------------	-------------	----------

**5322 Basil Siam Queen** About 20,000 sd/oz. Outstanding anise flavor and fragrance. Beautiful, lush, bright green leaves 3-4" long and 1.5-2" wide. Can be picked 4 or more months. Ht. 30".

1/32 oz 2.00	1/4 oz 5.00	1/2 oz 7.65	oz 25.75
-----------------	-------------	-------------	----------

**5331 Basil Spicy Globe** About 21,000 sd/oz. A fine leafed basil with very little bitterness. Compact green 12-15" plants are attractive as an ornamental. Also very popular for cooking.

1/32 oz 3.15	1/4 oz 5.00	oz 11.90	1/2 lb 41.65
--------------	-------------	----------	--------------

**5340 Basil Sweet Large Leaf Italian** About 16,000 sd/oz. Sweet, pungent herb with broad 2-3" leaves; used to flavor tomato sauces, meat, fish, vegetables, popular for pesto sauce. Ht. 2'.

1/32 oz 1.80	1/4 oz 3.65	oz 6.15	1/2 lb 12.25	1 lb 43.00
-----------------	----------------	---------	-----------------	---------------

**5358 Borage** (*Borago officinalis*) About 1,000 sd/oz. Produces tiny blue and pink flowers from late spring to frost. Used in salads, soups or cool drinks. Commercially grown for its seed oil. Attracts bees. Ht. 1.5-2'.

1/16 oz 1.70	1/4 oz 2.30	oz 3.25	1/2 lb 12.80	1 lb 37.30
-----------------	----------------	---------	-----------------	---------------

**5380 Cat Grass Tabby** About 857 sd/oz. Bright white, green and some variegated foliage. Attractive to cats and famous in health-food recipes. Reaches about 6" high 2 weeks after sowing. Final height 24" for green leaves and 4-6" for variegated. Softly textured, provides vitamins and fiber for cats.

1/4 oz 1.75	oz 4.40	1/2 lb 14.65	1 lb 49.25	5 lb 43.40/lb
----------------	---------	-----------------	---------------	------------------

**5412 Chamomile German** (*Matricaria recutita*) About 395,000 sd/oz. Apple-scented plants that like sun. Plants flower profusely. Used in teas. Ht. 1.5'.

1/256 oz 2.15	1/4 oz 4.15	1/2 oz 4.90	oz 8.20	1/2 lb 30.00
------------------	----------------	----------------	---------	-----------------

**5448 Cilantro Santo** (*Coriandrum sativum*) About 2,000 sd/oz. (Chinese Parsley) Used in Asian and Mexican cuisine. Broad, deep green, parsley-like, pungent foliage. Slow to bolt. Ht. 2'.

1/32 oz 2.80	oz 4.30	1/2 lb 5.45	1/2 lb 8.85	1 lb 16.65
-----------------	---------	----------------	----------------	---------------

**5457 Coriander Slo-Bolt** (*Coriandrum sativum*) About 2,000 sd/oz. 45 days. Well known and reliable variety. Fresh cut leaf, dry leaf or ground seed for spice.

1/32 oz 1.80	oz 2.65	1/2 lb 4.00	1/2 lb 6.95	1 lb 12.00
-----------------	---------	----------------	----------------	---------------

**5502 Cumin** (*Cuminum cyminum*) About 8,000 sd/oz. Seed is powdered and used in curries, pickles, sausages and Mexican food. Hot, pungent flavor. Reaches a height of 9".

1/64 oz 1.65	oz 3.00	1/2 lb 10.20	1/2 lb 17.15	1 lb 30.00
-----------------	---------	-----------------	-----------------	---------------





**Dill Fernleaf**



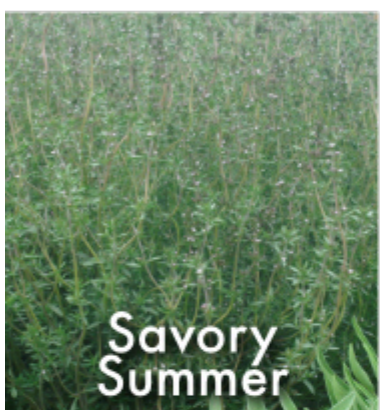
**Dill Bouquet**



**Dill Mammoth**



**Dill Dukat**



**Savory Summer**



**Marjoram Sweet**



**Fennel Dragon**



**Fennel Antares**

**5554 Fennel Antares F1** 68 days from sowing. Nationwide trials reported uniform, 4-5" pure white bulbs, ferny fragrant. Bolt resistant in the summer. Sow away from dill.



100 sds	500 sds	1000 sds	5 MSd	10 MSd
1.95	8.35	13.95	11.85/M	10.55/M

**5555 Fennel Dragon F1** 65-70 days from sowing to harvest. Thick, flesh, bright white bulbs and healthy deep green tops. Highly bolt tolerant and holds well in field conditions into late season, providing possibility for continuous harvest. Successful in trials across all North American regions from Georgia to California to Quebec.



100 sds	500 sds	1000 sds	5 MSd	10 MSd
1.95	9.00	16.00	15.00/M	14.00/M

**5556 Fennel Florence** (*Foeniculum dulce*) About 7,000 sd/oz. Enlarged leaf bases, somewhat like celery with distinctive anise-like flavor. Will form a bulb if harvested before seed sets. Sow away from dill. Leaves/seeds used in soups, eggs, sauces. Ht. 2.5' tall.

1/16 oz	1/2 oz	1 oz	1 lb
2.15	3.95	6.50	9.90

**5511 Dill Bouquet** About 16,000 sd/oz. Delicate, soft green, feathery foliage used fresh on fish and salads; seed heads are a favorite pickling spice. Ht. 28-30".

1/32 oz	1 oz	1/4 lb	1 lb	5 lb
1.80	5.15	8.25	18.55	15.75/lb

**5520 Dill Dukat** About 19,000 sd/oz. Produces very strong-flavored, pungent foliage with high oil content. European strain used for warm weather. Ht. 48".

1/32 oz	1 oz	1/4 lb	1 lb	5 lb
1.80	2.30	3.80	12.60	11.15/lb

**5529 Dill Fernleaf** About 13,000 sd/oz. Extremely compact, basal-branching; deep green, finely-cut foliage with the flavor of larger types but also quite ornamental. Ht. 18".



100 sds	500 sds	1000 sds	5 MSd	10 MSd
1.75	3.55	5.70	4.80/M	4.20/M

**5538 Dill Mammoth** About 15,000 sd/oz. Larger yellow flower heads than Bouquet. Leaves for soup or stews. Stalks and seeds for pickles. Ht. 2'.

1/32 oz	1 oz	1/4 lb	1 lb	5 lb
1.75	2.75	4.40	14.75	12.95/lb

**5646 Marjoram Sweet** (*Origanum majorana*) About 126,000 sd/oz. Sweet flowers in purple spikes used for flavoring meats, poultry, soups, dressing and salads. Ht. 2'.

1/32 oz	1/4 oz	1/2 oz	1 oz	1 lb
3.00	5.30	6.50	10.75	28.30

**5727 Savory Summer** (*Satureja hortensis*) About 44,000 sd/oz. Leaves and young stem-tips used fresh or dried for flavoring meats, stuffings and teas. Ht. 1'.

1/32 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb
1.75	2.30	3.45	10.40	18.50	33.85

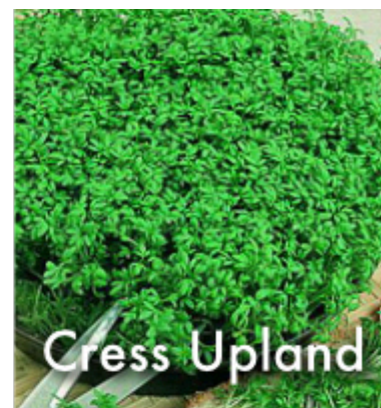
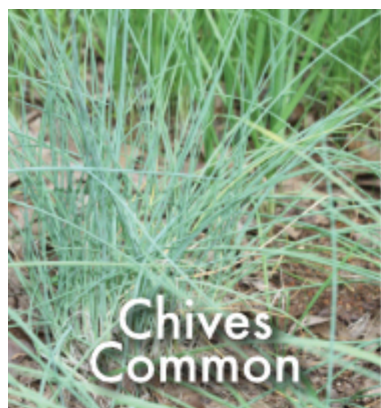
**5768 Stevia rebaudiana** About 77,000 sd/oz. 12"; Sub-tropical herb produces white flowers with a sweet scent. Leaves can be used fresh or dried as an alternative to sugar.

25 sds	100 sds	500 sds	1000 sds	5 MSd
4.95	11.70	54.40	99.80	77.65/M



**Stevia Rebaudiana**





## Perennial Herbs

*\*All Herbs are untreated unless otherwise stated.*

**5394 Catmint** (*Nepeta mussini*) About 37,000 sd/oz. Blue flowers thrive in hot weather. Ht. 1'.

1/256 oz 2.00	1/8 oz 3.75	1/4 oz 5.65	oz 19.15
------------------	-------------	-------------	----------

**5403 Catnip** (*Nepeta catarica*) About 47,000 sd/oz. Vigorous mint; attractive to cats. Use the heart-shaped leaves fresh or dried in teas. Ht. 24".

1/256 oz 1.95	1/8 oz 3.30	oz 6.00	1/4 lb 21.45
------------------	-------------	---------	--------------

**5430 Chives Common** (*Allium schoenoprasum*) About 23,000 sd/oz. Onion flavored grass-like leaves. Chop greens for flavoring meats, vegetables and salads. Ht. 1'.

1/16 oz 2.30	oz 5.15	1/4 lb 17.00	1 lb 57.25
--------------	---------	--------------	------------

**5439 Chives Garlic Oriental** (*Allium tuberosum*) About 6,000 sd/oz. Use chopped leaves to add mild garlic flavor to salads, soups or stir-fry recipes. Flowers are white. Ht. 12".

1/16 oz 2.55	oz 4.95	1/4 lb 14.35	1 lb 43.20
-----------------	---------	--------------	------------

**5493 Cress Upland** (*Barbarea verna*) About 24,000 sd/oz. Dark green, glossy, rounded leaves similar to water cress; peppery flavor. Ht. 6-8".

1/8 oz 1.60	oz 2.20	1/4 lb 5.15	1/2 lb 8.55	1 lb 15.00
----------------	---------	-------------	-------------	------------

**5583 Hyssop** (*Hyssopus officinalis*) About 28,000 sd/oz. Similar to a mint flavor. Plants yield aromatic oils used in perfumes and soaps. Leaves are used in tea. Ht. 1.5'.

1/32 oz 1.70	1/8 oz 2.30	1/4 oz 3.55	1/2 oz 6.00	oz 10.50
-----------------	-------------	-------------	-------------	----------

**5592 Lavender Hidcote Blue** (*Lavandula angustifolia*) About 32,000 sds/oz. Leaves and deep purple flowers are fragrant, ornamental. Ht. 18".

100 sds 1.55	500 sds 4.25	1000 sds 7.35	5 MSd 6.00/M	10 MSd 5.45/M
-----------------	-----------------	------------------	-----------------	------------------

**5610 Lavender Munstead Strain** (*Lavandula angustifolia*) About 25,000 sds/oz. Compact, bushy habit with fragrant lavender-blue flowers. Attractive in borders or landscape with gray-green foliage. Ht. 1'.

100 sds 1.55	500 sds 4.85	1000 sds 8.40	5 MSd 6.85/M	10 MSd 5.95/M
-----------------	-----------------	------------------	-----------------	------------------

**5619 Lavender Vera** (*Lavandula angustifolia vera*) About 28,000 sds/oz. Pungent leaves and flowers used in potpourri, wreaths, scenting linens, perfumes. Hardy plants with aromatic lavender-blue flowers. Ht. 2'.

1/32 oz 2.50	1/8 oz 8.70	1/4 oz 10.40	oz 17.35	1/4 lb 63.70
-----------------	-------------	--------------	----------	--------------

**5621 Lavender Vicenza** About 30,000 sds/oz. Benary's Apex conditioned to overcome dormancy. First year flowering and needs no vernalization. Thick spikes of deep blue flowers over silvered foliage.

100 sds 3.25	500 sds 13.55	1000 sds 21.75	5 MSd 18.10/M	10 MSd 16.35/M
-----------------	------------------	-------------------	------------------	-------------------

**5232 Lemon Balm** (*Melissa officinalis*) About 48,000 sd/oz. Heart-shaped leaves with a lemon fragrance. Attracts bees. Used in teas and salads. Ht. 18-36".

1/256 oz 1.75	1/64 oz 2.75	1/16 oz 5.00	1/8 oz 7.00
---------------	--------------	--------------	-------------

**5628 Lemon Mint** (*Monarda citriodora*) About 59,000 sd/oz. Lemon-scented foliage and blooms. Attracts bees. Ht. 24-36".

1/256 oz 1.65	1/64 oz 3.50	1/32 oz 4.20	1/16 oz 7.00	1/8 oz 13.45
------------------	-----------------	-----------------	-----------------	--------------

**5637 Lovage** (*Levisticum officinale*) About 9,000 sd/oz. All plant parts are edible and have a celery-like flavor. Used in soups, salads and cakes. Ht. 6'.

1/16 oz 1.85	1/8 oz 3.15	1/4 oz 3.85	oz 5.60	1/4 lb 20.15
-----------------	-------------	-------------	---------	--------------



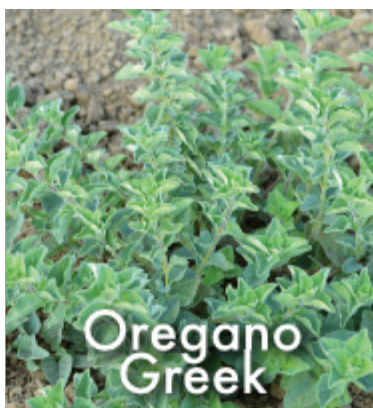




**Mint  
Peppermint**



**Rue**



**Oregano  
Greek**



**Oregano  
Italian**



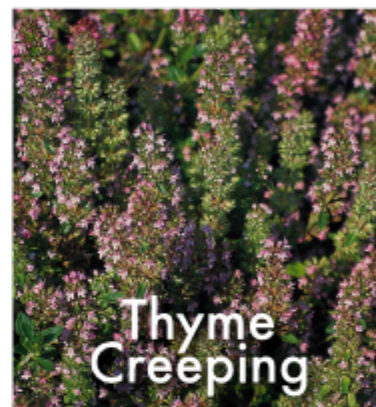
**Tarragon**



**Thyme**



**Sage**



**Thyme  
Creeping**

**5655 Mint Peppermint** (*Mentha x piperita*) About 358,000 sd/oz. Excellent beverage mint, strong cooling menthol aroma. Oil from plants flavors candies and desserts. Ht. 24".

1/256 oz	1/16 oz	1/8 oz	1/4 oz	1/2 oz	oz
3.70	9.75	15.45	24.00	41.15	75.45

**5664 Mint Spearmint** (*Mentha spicata*) About 378,000 sd/oz. Appearance very similar to peppermint but less potent. Young leaves used in jellies and drinks. Ht. 22".

1/256 oz	1/16 oz	1/8 oz	1/4 oz	1/2 oz	oz
2.25	6.30	9.80	14.70	23.15	42.00

**5673 Oregano Greek** (*Origanum heracleoticum*) About 248,000 sd/oz. This strain has a small leaf and a stronger, more pungent flavor than other strains. Leaves used fresh or dry in sauces and soups. Ht. 2.5'.

1/64 oz	1/16 oz	1/8 oz	1/4 oz	1/2 oz	oz
1.85	2.90	4.45	7.35	12.60	18.90

**5682 Oregano Italian** (*Origanum vulgare*) About 321,000 sd/oz. Flavorful herb used in tomato sauces, salad dressing and soup. Ht. 18".

1/64 oz	1/16 oz	1/8 oz	1/4 oz	1/2 oz	oz
2.00	3.30	4.45	6.85	10.00	13.40

**5691 Pennyroyal** (*Mentha pulegium*) About 389,000 sd/oz. Strong mint flavor and fragrance. Good along walkways or as a permanent edging to repel insects. Use sparingly in teas & sauces. Ht. 6".

1/128 oz	1/32 oz	1/16 oz	1/8 oz	1/4 oz	oz
1.95	2.25	3.55	6.55	11.00	

**5700 Rosemary** (*Rosmarinus officinalis*) About 20,000 sd/oz. Wonderfully fragrant, grayish-green plants attractive in borders or containers. Tasty for seasoning meats, eggs and vegetables. Ht. 2-2.5'.

1/32 oz	1/8 oz	1/4 oz	1/2 oz	oz	1/4 lb
5.85	16.20	25.50	45.85	66.35	248.45

**5709 Rue** (*Ruta graveolens*) About 13,000 sd/oz. Lacy blue-green foliage is highly ornamental. Salads and flavoring cheese dishes. Ht. 2'.

1/64 oz	1/16 oz	1/8 oz	1/4 oz	oz
2.00	2.35	2.95	4.70	16.55

**5718 Sage** (*Salvia officinalis*) About 3,000 sd/oz. Gray-green leaves and violet flower spikes. Use leaves and young stem tips to flavor poultry, meats, sausage, chowders and sauces. Ht. 1-2'.

1/32 oz	1/8 oz	1/4 oz	1/2 oz	oz
2.00	2.65	4.20	7.00	12.30

**5763 Sorrel** (*Rumex acetosa*) About 30,000 sd/oz. Long slender leaves with a distinctive citrus tang. Used to flavor soups, sauces, salads and other vegetables. Ht. 6-8".

1/32 oz	1/8 oz	1/4 oz	oz	1/4 lb
2.00	3.15	3.70	6.25	22.85

**5781 Tarragon** (*Artemisia dracunculoides*) About 163,000 sd/oz. Spreading plants with pale green leaves. Used in herb vinegar, sauces and salads. Ht. 5'.

1/64 oz	1/16 oz	1/8 oz	1/4 oz	1/2 oz
1.75	2.25	3.85	6.20	10.90

**5790 Thyme** (*Thymus vulgaris*) About 104,000 sd/oz. Lilac flowers good for edging. Season chowders, stews, sauces and pickles. Ht. 6".

1/32 oz	1/8 oz	1/4 oz	oz	1/4 lb
2.30	5.60	7.00	11.65	35.35

**5799 Thyme Creeping** (*Thymus serpyllum*) About 213,000 sd/oz. Tiny, rounded, blue-green leaves with purple flowers. Use in rock gardens, pathways or groundcover. Leaves are used in teas, salads, rice and fish dishes. Ht. 2-6".

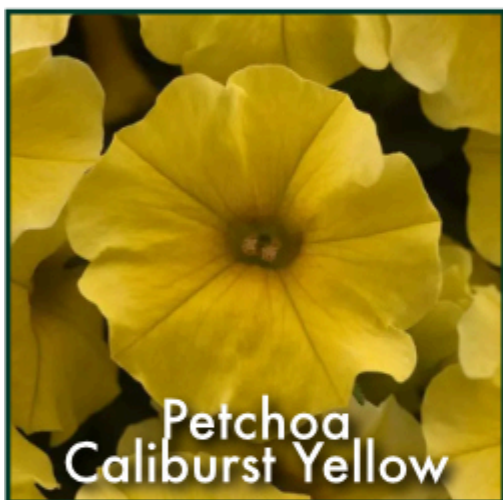
1/256 oz	1/16 oz	1/8 oz	1/4 oz	1/2 oz
2.00	2.25	3.39	6.30	11.00

**5817 Wormwood** (*Artemisia absinthium*) About 471,000 sd/oz. Aromatic foliage is silvery-gray and aromatic. Use commercially in cosmetics, vermouth and absinthe. Ht. 1'.

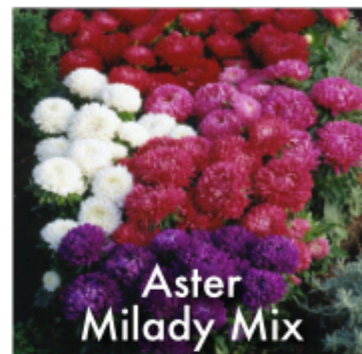
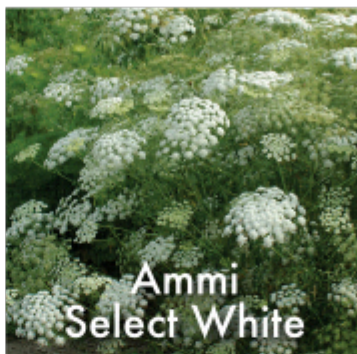
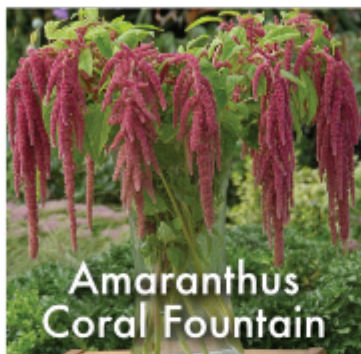
1/128 oz	1/16 oz	1/8 oz	1/4 oz	1/2 oz	oz
2.00	1.95	3.15	5.15	9.00	16.55



# New Flower Varieties







YF = First Year Flowering A = Annual P = Perennial <math>\leq</math> = Suitable for cut flower production <math>\leq\leq</math> = Suited for growing in packs for bedding plant sales

## Achillea (*A. millefolium*)

A

Approx. 170,000 sd/oz. Sow sd 8-12 weeks before spring sales. Germ in about 10 days at 65-75°F. Great for cutting, drying, or in sunny gardens. Hardy in zones 4-8. Aromatic blooms compliment fern-like foliage. Space 1-1½' apart.

**6040 Summer Pastels Mix** Blooms first year if planted early. Compact plants bloom in a wide range of shades including pink, rose, apricot, cream, beige, lavender and white. Ht. 30".

100 sds	500 sds	1000 sds	5 MSd
3.25	13.15	20.15	16.70/M

## Agastache (*A. foeniculum*)

P

**6050 Golden Jubilee** Unique golden foliage shifting towards lime on lower leaves. Massive color display in landscape or container. Crowned with dense spikes of contrasting lavender blue. Quick flowering in four months from sowing. Hardy and heat loving. Grows well in full sun and partial shade. Ht. 18".

100 sds	500 sds	1000 sds	5 MSd
6.40	29.80	55.25	37.35/M

## Ageratum (*A. houstonianum*)

A

Approx. 200,000 sd/oz. Also known as Floss Flower. Sow sd 12-14 weeks before spring sales. Germ in 7-10 days at 70-80°F, in light. Good annual for borders, bedding, pots. Full sun to partial shade. Blooms early summer to frost. Space 6-12" apart.

**6052 Aloha Blue F1** 1 4" spreading 6" pot, 8" spreading 8" gdn; Large ocean blue flower clusters stay low over deep green foliage. Early flowering, dense branching, lots of flower color, excellent vigor, durability & gdn performance. For packs, pots, bedding.

100 sds	500 sds	1000 sds	5M	10 MSd
3.30	15.10	27.45	21.35/M	17.80/M

**6085 Blue Horizon F1** <math>\leq</math> Pelleted. 20"; Superb cut-flower variety, also landscaping. Mid-blue.

100 sds	500 sds	1000 sds	5 MSd
3.25	13.15	20.30	16.90/M

## Alyssum (*Lobularia maritima*) <math>\leq\leq</math> A

Approx. 90,000 sd/oz. Sow 4-6 weeks before spring sale. Germ in about 8 days at 60-70°F. Lovely, sweet-smelling, dainty flower clusters; excellent for beds, borders, containers and window boxes. Best in full sun, well-drained soil. Bloom June to frost. Space 6-12" apart.

**6125 Easter Bonnet White** 4-10" spreading 10-12"; Compact, uniform. Stays neat and densely flowered on the sales bench.

100 sds	500 sds	1000 sds	5 MSd
1.55	2.20	3.15	2.45/M

**6157 New Carpet of Snow Dwarf**, spreading plants are uniform and compact. Pure white flowers. Ht. 3".

100 sds	500 sds	1000 sds	5 MSd
1.55	2.20	3.15	1.20/M

**6214 Wonderland Mix** Ideal for bedding plant use. Compact and early to bloom. Ht. 3".

100 sds	500 sds	1000 sds	5 MSd
1.55	2.20	3.15	2.15/M

## Amaranthus (*A. caudatus*)

A

Sow direct seed after last frost; transplant 4-6 weeks before last frost. Germ in 7-10 days at 70-75°F. Prefers sun. Space 12-15" apart.

**6238 Coral Fountain** 3 ft; Coral-pink tassels droop and cascade from atop sturdy stems. Superb filler material for arrangements and bold annual landscape hedger.

100 sds	500 sds	1000 sds	5 MSd
1.55	3.35	4.80	4.15/M

**6246 Hot Chili** <math>\leq</math> 4 ft; Fiery red stems and spikes. Deep-green foliage. Spikes are broad and long lasting. Cutflower for easy fieldgrown specialty crop. Stately annual specimen or hedger.

100 sds	500 sds	1000 sds	5 MSd
1.55	3.15	4.80	3.50/M

## Ammi (*A. majus*)

A

**6248 Select White** <math>\leq</math> 3 ft; White umbels, good field-grown filler and specialty cut.

100 sds	500 sds	1000 sds	5 MSd
1.55	2.20	3.15	2.35/M

## Aster (*Callistephus chinensis*)

A

Approx. 12,000 sd/oz. Sow sd 6-8 weeks before spring sales. Germ in 10 days at 70°F. Excellent for greenhouse cut flower/pot production. Great for borders and pots in full sun. Blooms midsummer to frost. Space 6-12" apart.

**6250 Bonita Mix** <math>\leq</math> 20" pot, 36" gdn; Premium professional cut-flower, also high-value item for containers. Full double 2" pom-poms are 100% colored all over on open petals. Vigorous habit, abundant flowers in sprays, held at just the right angle for max impact. Resistant to Fusarium like Matsumoto. Cutflower crop time about 15 weeks.

100 sds	500 sds	1000 sds	5 MSd
1.90	7.40	10.75	9.00/M

**6268 Matsumoto Mix** <math>\leq</math> Upright flowering habit. Medium-sized flowers with distinct yellow center. Strong, sturdy stems with 2" blooms. Heat and disease resistant. Ht. 2½".

100 sds	500 sds	1000 sds	5 MSd
1.55	3.15	4.90	3.55/M

**6283 Milady Mix Dwarf** series. Neat mounded habit makes this one of the most durable Asters for bedding and container use. Blooms midsummer to frost. Ht. 12".

100 sds	500 sds	1000 sds	5 MSd
1.55	2.20	3.15	1.90/M

**6288 Powderpuffs Mix** <math>\leq</math> Lovely bouquet-type habit. Profuse, 3" double flowers, good range of colors. Wilt resistant. Ht. 2'.

100 sds	500 sds	1000 sds	5 MSd
1.55	2.00	3.00	1.75/M



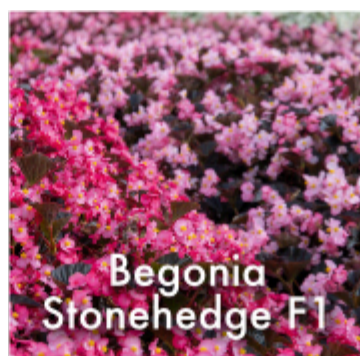




**Begonia Big Red Bronze Leaf**



**Begonia Ambassador Mix**



**Begonia Stonehedge F1**



**Bells of Ireland**



**Bupleurum Green Gold**



**Calendula Cantaloupe**



**Calendula Pacific Beauty Mix**



**Canna South Pacific Scarlet F1**

YF = First Year Flowering A = Annual P = Perennial <math>\leq</math> = Suitable for cut flower production <math>\leq</math> = Suited for growing in packs for bedding plant sales

## Begonia

A

Pelleted. Approx. 56,000 pels/oz. Sow Dec.-Jan. for spring sales. Germ in 2-3 weeks at 70°F. under light. Excellent for bedding, borders and containers. Performs in shade or sun. Blooms late spring until frost. Space 6-12" apart. Ht. 6-8" unless otherwise stated.

**Big Series** (*B. x benariensis*) 14" pot, 20" gdn; Extra large 2-3" flowers are produced on upright, arching plants. Hand-some large glossy heart-shaped leaves. Up to 2 weeks earlier than competing types. Thrives in wide range of climates in both sun and shade. Massive spreading plant for maximum show in large container or landscape. Mix is 4 colors: Red Green Leaf, Pink Green Leaf, Red Bronze Leaf, Rose Bronze Leaf.

**6390 Complete Mix** **6395 Red Bronze Leaf**

25sd 6.40 100sd 15.25 500sd 71.00 1000sd 131.65

## Fibrous-Rooted

(*B. semperflorens*)

A

**6360 Ambassador Mix F1** Green foliage. One of the earliest green-leaf types, with blooms of rose, scarlet and white.

100 sds 1.55 500 sds 4.95 1000 sds 8.50 5 MSd 7.10/M 10 MSd 6.40/M

**6444 Senator IQ Mix F1** 12" spreading 10"; Improved successor to the popular Senators. Foliage is deepest bronze across series. Uniformly early and compact across all colors with tight, early crop time about 11-12 weeks.

100 sds 1.55 500 sds 4.95 1000 sds 8.50 5 MSd 7.10/M 10 MSd 6.40/M

**9998 Begonia Stonehedge Series F1** 4ft x 4ft; Huge landscape impact. First interspecific landscape begonia was a show-stopper at 2023 CA spring trials. Extreme vigor, profuse branching, make a massive wall of flowers in landscape or large containers. Round mounded habit covers in blooms. Heat tolerant, blooms til frost, shade or full sun. Very early crop time (12-15 weeks). Vivid bronze foliage. Just a few plants will fill a lot of space.

**6480 Light Pink Bronze Leaf** **6485 Rose Bronze Leaf**

25 sds 9.45 100 sds 22.55 500 sds 104.60 1000 sds 193.15

## Tuberous-Rooted

(*B. x tuberhybrida*)

<math>\leq</math> A

**6428 Nonstop Mix F1** Double blooms 3 1/2-4 1/2". Compact basal branching plants. Ht. 8".

100 sds 4.45 500 sds 20.70 1000 sds 38.25 5 MSd 31.85/M

## Bells of Ireland

(*Moluccella laevis*)

A

Approx. 4,000 sd/oz. Sow indoors 8-10 weeks before last frost. Grow in full sun and well drained soil. Space 12-16" apart. Blooms late summer. Attracts bees and butterflies.

**8316 Bells of Ireland** <math>\leq</math> 28"; Popular professional cutflower, admired for its unusual spires of green, bell-shaped blooms. Used both fresh and dried, it adds real interest to mixed bouquets.

100 sds 1.55 500 sds 3.35 1000 sds 4.80 5 MSd 4.15/M

## Bupleurum

(*B. rotundifolium*) <math>\leq</math> A

Approx. 12,000 sd/oz. Excellent cut or dried. Sow direct seed as soon as soil can be worked. Germ in 14-21 days at 55-60°F. Space 10" apart.

**6500 Green Gold** <math>\leq</math> 30"; Yellow flowers in small 2" umbels. Classic bouquet filler.

100 sds 1.55 500 sds 3.15 1000 sds 4.50 5 MSd 3.90/M

## Calendula

(*C. officinalis*)

A

Approx. 3,500 sd/oz. Also known as Pot Marigold. Sow sd about 6 weeks before sale as green plants. Germ in about 10 days at 70°F. Bedding, borders, pots and window boxes in full sun. Bloom best in cool weather.

**6515 Cantaloupe** <math>\leq</math> 24" spreading 12"; Shades of apricot, pink and cream. Large double flowers with dark or yellow centers. Erect habit. Good for borders or planter. As specialty cutflowers, produces a very pretty pastel mix, a ready-made bouquet.

100 sds 2.65 500 sds 11.35 1000 sds 18.95 5 MSd 14.85/M

**6519 Pacific Beauty Mix** Large, graceful blooms on long stems in clear bright orange and yellow shades. Somewhat heat-resistant. Ht. 24".

100 sds 1.55 500 sds 3.00 1000 sds 4.30 5 MSd 3.70/M

## Campanula

<math>\leq</math> P

**6521 Champion II Mix F1** 4ft; Improved vs Champion for more uniform germination, crop timing and height. Up-facing flowers ease handling & transport. Top quality, high yielding cutflower. Blooms first summer without vernalization. For cutflower farms of all types.

50 sds 6.50 100 sds 9.25 500 sds 43.05 1000 sds 79.85

## Canna

P

**6599 South Pacific Scarlet F1** 24" spreading 10" in 2-gallon, 4 ft spreading 18" in gdn; The first F1 Canna, with extra vigor and more & larger blooms than older varieties. Brilliant 4" hot scarlet flowers in clusters of 6-7 per spike, on sturdy stems held well above broad statuesque foliage. Top quality for container, planter, beds & borders.

10 sds 10.55 50 sds 41.00 100 sds 58.60 500 sds 272.60 1000 sds 505.15

## Carnation

(*Dianthus caryophyllus*)

A

Approx. 14,000 sd/oz. Sow sd 10 weeks before sale. Germ in 14-28 days at 70°F. Grow cool for cut flower production. Beds, borders and containers in sun. Excellent for bouquets. Space 12-18" apart.

**6591 Chabaud Florist Mix** <math>\leq</math> 100% extra-large double fragrant flowers on sturdy stems. Color range includes scarlet, yellow, red, apricot striped with scarlet and deep rose with white edge. Ht. 20".

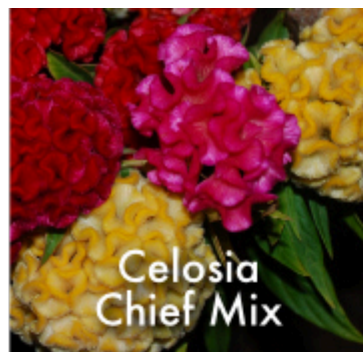
100 sds 1.55 500 sds 3.60 1000 sds 5.15 5 MSd 4.35/M



**Carnation Chabaud Florist Mix**

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





**Celosia  
Chief Mix**



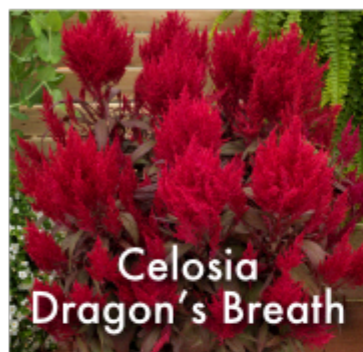
**Celosia  
Prestige Scarlet**



**Celosia  
Toreador**



**Celosia  
Century Mix**



**Celosia  
Dragon's Breath**



**Celosia  
Kimono Mix**



**Chrysanthemum  
Amazone**



**Cleome  
Queen Mix**

FYF = First Year Flowering A = Annual P = Perennial <math>\leq</math> = Suitable for cut flower production = Suited for growing in packs for bedding plant sales

## Celosia

A

Approx. 36,000 sd/oz. Sow sd 4-6 weeks before sale as green plants. Germ in 10-12 days at 70°F. Dwarf for bedding. Others excellent for borders and cutting; flowers dry easily. Best in full sun. Bloom summer to frost. Space 12-18" apart.

### Crested Types (*C. cristata*) <math>\leq</math>

**Chief Series** <math>\leq</math> 40"; Crested flowers bred especially for cut flowers with strong single stems. Mix is full color range including bicolors.

#### 6666 Mix

100sd 1.55	500sd 4.75	1000sd 8.15	5MSd 6.75/M
------------	------------	-------------	-------------

**6700 Kurume Mix** 48"; Tall strong stems with large globular brilliant color combs.

100 sds 1.55	500 sds 5.30	1000 sds 9.15	5 MSd 7.70/M
--------------	--------------	---------------	--------------

**6680 Neo Mix** <math>\leq</math> 28"-40"; Improved, less daylength sensitive, with vivid, unique new colors and smaller leaves. Easy to arrange, eye catching in shop. Premium quality cutflower for greenhouse or field.

50 sds 6.85	100 sds 9.75	500 sds 45.40	1000 sds 84.15
-------------	--------------	---------------	----------------

**6750 Prestige Scarlet** Produces numerous side shoots around the central flower. 3" blooms on 20" stems are ideal for cut flower production. Outstanding in gardens and containers. Spreads 15-20". Ht. 12-24".

100 sds 1.55	500 sds 4.85	1000 sds 8.40	5 MSd 7.00/M	10 MSd 6.35/M
--------------	--------------	---------------	--------------	---------------

**6755 Toreador** <math>\leq</math> Huge 12" scarlet combs make it excellent for cutting. Ht. 18-24".

100 sds 1.55	500 sds 2.20	1000 sds 3.15	5 MSd 1.20/M	10 MSd 0.95/M
--------------	--------------	---------------	--------------	---------------

## Plume Types (*C. plumosa*)

**6663 Century Mix** <math>\leq</math> Extra-large plumes up to 12" long on semi-dwarf plants. Bright, long-lasting colors. Ht. 28".

100 sds 1.90	500 sds 7.60	1000 sds 11.40	5 MSd 9.50/M
--------------	--------------	----------------	--------------

**6697 Dragon's Breath** <math>\leq</math> 24" spreading 16"; Showy plant is red all over. Dazzling red flowers, red stems and green-red leaves. Late blooming. Grow for foliage from early stage til late summer, when 10.5 hr day length triggers bud set, then into fall with blazing red color. Low feed intensifies stem color. For premium container from 10" to gallon or mass landscapes. Performs well under hot, humid conditions. Worth testing as specialty arranging material.

25 sds 7.60	100 sds 18.15	500 sds 84.25	1000 sds 155.70
-------------	---------------	---------------	-----------------

**6670 Fresh Look Red Pelleted.** Bright fresh green-leaved companion to the well known New Look. Broad plumes on vigorous branching habit. Ht 14".

100 sds 1.55	500 sds 5.00	1000 sds 8.60	5 MSd 7.15/M
--------------	--------------	---------------	--------------

**6692 Kimono Mix** Very uniform, dwarf plant habit. Bright colors do not fade under strong summer sun. Ht. 8".

100 sds 1.55	500 sds 4.85	1000 sds 8.40	5 MSd 7.00/M
--------------	--------------	---------------	--------------

**6709 New Look® FilmCoat.** Large, glowing, deep red plumes on bushy, basal-branching plants. Fine dark foliage. Ht. 15".

100 sds 1.55	500 sds 5.00	1000 sds 8.60	5 MSd 7.15/M
--------------	--------------	---------------	--------------

**6752 Sunday Mix** <math>\leq</math> Pelleted. 30-40" spreading 5"; Fragrant, plume-shaped Celosia available for first time as professional cutflower. The stem length & strength make great bouquets. Excellent shipper with long vase life. Short, programmable production time and high % yield of useable stems. Well adapted to high density production. Includes Dark Pink, Gold, Orange, Wine Red, Yellow. **Note: Bloom time differs somewhat among colors.**

25sd 3.35	100sd 7.95	500sd 36.95	1000sd 68.35
-----------	------------	-------------	--------------

## Chrysanthemum

P

**6675 Amazone** 24"-32" Light warm pure yellow flowers. Profuse crop of well-filled blooms on long strong upright stems above dense branching plants. Can produce year-round in ghs or hoops. About 12-14 weeks to harvest. Also good bouquet filler.

50 sds 2.30	100 sds 3.25	500 sds 14.00	1000 sds 23.50	10 MSd 17.75/M
-------------	--------------	---------------	----------------	----------------

## Cleome (*C. hassleriana*)

A

Approx. 13,000 sd/oz. Also known as Spider Plant. Sow March-April for May sales. Pre-chill sd for 5 days before sowing. Drought and heat tolerant.

**6780 Queen Mix** Cherry, rose, violet, mauve and white.

100 sds 1.55	500 sds 2.10	1000 sds 3.00	5 MSd 1.20/M
--------------	--------------	---------------	--------------

**6782 Sparkler Mix** First dwarf hybrid that flowers at 14"; 6" containers. Garden height reaches 48" by summer's end.

25 sds 4.75	100 sds 11.25	500 sds 52.30	1000 sds 96.85	5 MSd 80.45/M
-------------	---------------	---------------	----------------	---------------

## Coleus (*C. blumei*)

**6828 Premium Kong** 18; Giant leaves up to 8" broad. Mix is 4 brightest varieties of series with multicolor foliage and a broad range of lively colors. Basal branching. Needs full shade.

**6828 Empire Mix**

25 sds 6.90	100 sds 16.45	500 sds 76.55	1000 sds 141.85	5 MSd 118.20/M
-------------	---------------	---------------	-----------------	----------------

**6829 Superfine Rainbow Color Pride** Brilliant rose leaves, edged in green, mottled with bronze-red. Ht. 12".

**6830 Superfine Master Blends Rainbow Mix**

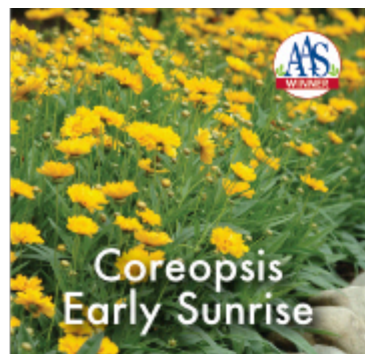
100 sds 1.90	500 sds 7.40	1000 sds 10.70	5 MSd 8.90/M	10 MSd 8.00/M
--------------	--------------	----------------	--------------	---------------

**Wizard® Series** Compact habit needs no pinching and resists stretching. Slow bolting. Ht. 10".

**6843 Mix 6844 Red Velvet**

100sd 1.55	500sd 5.50	1000sd 10.00	5MSd 8.35/M
------------	------------	--------------	-------------





**Coreopsis  
Early Sunrise**



**Cosmos  
Double Click  
Mix**



**Cosmos  
Early Scentsation  
Mix**



**Cosmos  
Cosmic Mix**



**Dahlia  
Bloody Mary  
Mix**



**Daucus  
Dara Dark Red  
Shades**



**Delphinium  
Giant Pacific  
Mix**



**Delphinium  
Magic Fountains  
Mix**

FYF = First Year Flowering A = Annual P = Perennial <math>\leq</math> = Suitable for cut flower production <math>\leq</math> = Suited for growing in packs for bedding plant sales

## Coreopsis (*C. grandiflora*)

P

Approx. 11,000 sd/oz. Sow 6-8 weeks before sale in pack-s/pots. Germ in 14-20 days at 70°F. Excellent for beds, borders and cutting. Sun, poor/dry soil. Daisy-like flowers summer to frost. Space 1-2' apart. Ht. 18".

6868 **Early Sunrise** PVP<math>\leq</math> Outstanding for early, prolific bloom over a long period. Golden-yellow, 2" semi-double blooms first year from seed 90-100 days from sowing. Ht. 18".

100 sds 2.35 500 sds 10.10 1000 sds 17.00 5 MSd 14.20/M

## Cosmos (*C. bipinnatus*)

A

Approx. 4,000 sd/oz. Sow 5-7 weeks before spring sales. Germ in 5-10 days at 70-80°F. Excellent for beds, mass plantings in sun; fine for cutting. Space 12" or more apart.

6880 **Double Click Mix**<math>\leq</math> 24"-30" spreading 18"; Delightful full double Cosmos. Very floriferous, informal mum-like blooms with strong stems. Long flowering period. Choice fieldgrown cut flower, landscape and knee-hi gdn.

100 sds 4.15 500 sds 19.35 1000 sds 35.95 5 MSd 27.00/M

6883 **Early Sensation Mix** Colors White, pink and rose shades. Ht. 3½-4'.

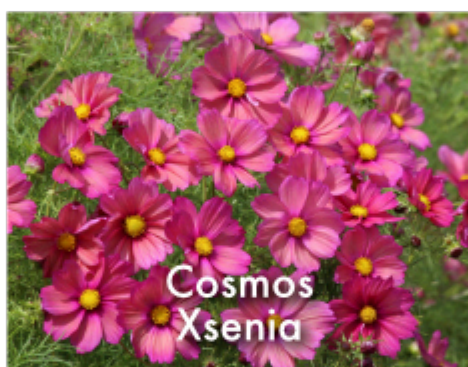
100 sds 1.55 500 sds 2.90 1000 sds 4.15 5 MSd 3.50/M

6908 **Sonata™ Mix** (4 colors) Large graceful blooms 3-4" across from June to late Sept. Semi-dwarf, erect plants, free-flowering habit. Showy for borders, tubs; excellent for cutting. Pack sales. Ht. 2'.

25sd 1.55 100sd 3.25 500sd 14.35 1000sd 24.95 5M 20.80/M

6930 **Cosmos Xsenia**<math>\leq</math> 20" container, 24" gdn; Terracotta orange with rose edges - a brand new color for this species. Bright yellow anthers at center add to the color pop. For large containers, spring & summer borders, specialty cutflower in field or under high hoop.

25 sds 2.65 100 sds 6.30 500 sds 14.55 1000 sds 25.70 5 MSd 21.40/M



**Cosmos  
Xsenia**

## Cosmos (*C. sulphureus*)

A

6876 **Cosmic Mix** Stocky, free flowering well branched habit good for packs, containers & garden. Ht. 12".

100 sds 1.90 500 sds 7.35 1000 sds 10.45 5 MSd 8.70/M

## Dahlia (*D. pinnata*)

A

Approx. 2,900 sd/oz. Sow 4-6 weeks before sale in green packs. Germ in 7-14 days at 65-70°F. Bedding, cutting. Full sun. Bloom summer to frost. Space 12-15" apart.

6955 **Bloody Mary Mix** Dwarf bronze leaved strain, extra compact, double & semi-double flowers. Ht. 15".

100 sds 1.55 500 sds 5.00 1000 sds 8.60

6978 **Fireworks** 14-16"; Flamboyant, broad petalled mix of bright striped flowers. Many variations of fuchsia, tangerine, crimson, ivory and cherry with a few solid reds & whites. bushy, compact plants, are easy & fast for beds and planters. Also nice cut-flower.

100 sds 10.85 500 sds 50.50 1000 sds 93.65 5 MSd 77.35/M

## Daucus (*D. carota*)<math>\leq</math>

A

6995 **Dara Dark Red Shades** 6 ft; Ornamental carrot. Red flowers fading to shades of rose and pink. Much sought after as specialty cutflower and very nice for fieldgrown crops. Pleasantly aromatic, ferny carrot foliage. Bee and butterfly plant.

100 sds 2.50 500 sds 10.70 1000 sds 17.80 5 MSd 14.00/M

## Delphinium (*D. cultorum*)<math>\leq</math>

P

Sow 8-10 weeks before sale as green pack plants; or sow mid-summer for blooming pot plants following spring. Germ in about 18 days at 70-75°F. Excellent for backgrounds, bedding, cutting. Full sun/partial shade. Hardy in zones 4-8. Space 24-36" apart.

6999 **Giant Pacific Mix** Approx. 13,000 sd/oz. Exceptional, immense spikes of large florets (95% are double). Somewhat resistant to mildew. Mix includes jewel-like pinks, roses, purples and many shades of blue; dark and light bees. Ht. 5'.

100 sds 1.95 500 sds 7.90 1000 sds 12.15 5 MSd 10.10/M

7004 **Magic Fountains Mix** Approx. 13,000 seeds/oz. Dwarf Pacific type good for small gardens, windy areas. Colors include lilac-pink, sky blue, white and dark blue; dark and white bees. Ht. 2½-3'.

100 sds 1.95 500 sds 7.90 1000 sds 12.15 5 MSd 10.10/M



**Cosmos  
Sonata Mix**





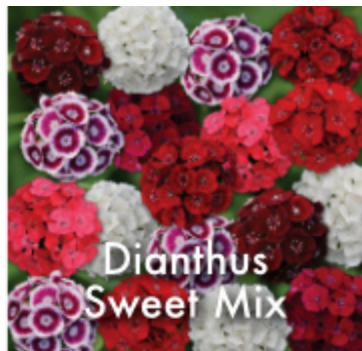
**Dianthus  
Super Parfait  
Raspberry F1**



**Dianthus  
Telstar Mix**



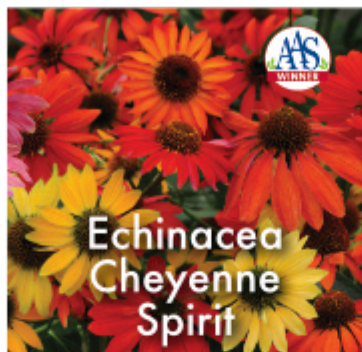
**Sweet William  
Hollandia**



**Dianthus  
Sweet Mix**



**Dusty Miller  
Silverdust**



**Echinacea  
Cheyenne  
Spirit**



**Echinacea  
PowWow  
Wildberry**



**Gazania  
Sunshine Mix**

FYF = First Year Flowering A = Annual P = Perennial <math>\leq</math> = Suitable for cut flower production <math>\leq\leq</math> = Suited for growing in packs for bedding plant sales

## Dianthus

Approx. 25,000 sd/oz. Sow 6-8 weeks before sale of blooming packs. Germ in 7-14 days at 70-75°F. Attractive, spreading, carpet-like plants excellent for beds, borders, containers, in sun. Space 6-12" apart.

### 7096 Rainbow Loveliness Mix (*Dianthus x hybrida*)

Perennial. Fragrant, antique flowers have intense, sweet-and-spicy aroma. Deeply cut, lacy flowers in shades of rosy pink, lilac, white, purple and red on long stems. May bloom the first year from seed if started early. Ht. 18".

100 sds 2.20 500 sds 9.55 1000 sds 16.15 10 MSd 10.50/M

**Super Parfait F1 Series (*Dianthus x chinensis*)** Annual. Excellent varieties in dessert-delicious colors with contrasting darker eye. Flowers average 2" across. Outstanding in packs. Early, compact, branching plants. Ht. 8".

### 7071 Raspberry 7072 Strawberry

50sd 2.70 100sd 3.85 500sd 17.90 1000sd 33.20 5M 27.70/M

**7098 Amazon Magic Duo (*Dianthus x hybrida*)** 2 ft gdn, 3 ft as greenhouse cutflower; Blend of Rose & Lavender shades. Starts white, ages to color. Very dark green, glossy leaves. Bright, serrated flowers on strong stems. No vernalization necessary. Outstanding heat tolerance. Outstanding as cutflower or large container. Durable in landscape or borders.

25sd 2.95 100sd 7.00 500sd 32.55 1000sd 60.25

**7117 Telstar Mix F1 (*Dianthus chinensis*)** Annual. Early flowering dwarf variety which continues to bloom until frost; heat resistant. Excellent for pot, pack and bedding. Ht. 10".

50 sds 2.80 100 sds 4.00 500 sds 18.60 1000 sds 34.50 5 MSd 28.70/M

## Sweet William

**9366 Hollandia (*Dianthus barbatus*)** Perennial. Can be used for flowering any time of the year. One planting can produce flowers in a wide range of colors over a long period. Excellent for greenhouse production, in cool climates, during autumn and winter months. Color range includes pinks, reds, whites, purple, and many intermediates. Ht. 2'.

50sd 3.85 100sd 5.50 500sd 26.05 1000sd 49.25 10M 38.00/M

### 7074 Sweet Mix F1 (*Dianthus barbatus*)

Pelleted. 3 ft; FYF, no vernalization required. Top quality professional cutflower traits. Uniform stem length and bloom timing. Good frost and heat tolerance. Blooms are fragrant and long lasting. For field or greenhouse production.

25 sds 2.10 100 sds 5.00 500 sds 23.20 1000 sds 42.95

## Dusty Miller

P

Approx. 73,000 sd/oz. Sow 10-12 weeks before spring sales. Germ in 20-25 days at 70-75°F.

**7169 Silverdust (*Senecio cineraria*)** Perennial. Silvery-white with serrated leaves. Ht. 6-8".

100 sds 1.55 500 sds 2.50 1000 sds 3.60 5 MSd 1.55/M

## Echinacea hybrida <math>\leq\leq</math>

**7170 Cheyenne Spirit F1** 24-30"; FYF. Blazing color mix available for the first time from seed. Exceptional plant habit, flower quality and uniformity. No vernalization. Excellent in gallons, quarts & landscape. Includes shades of cream, orange, purple, red, scarlet, white and yellow.

25 sds 11.55 100 sds 27.50 500 sds 127.95 1000 sds 237.25 5 MSd 197.70/M

## Echinacea purpurea <math>\leq\leq</math>

**7174 Bravado** 30" 1<sup>st</sup> yr, 38" 2<sup>nd</sup> yr; Flowers first year. Lime green flower petals with green-gold cones. For cutflower, perennial borders, containers. Capable of multi-year harvests.

100 sds 1.55 500 sds 4.70 1000 sds 8.15

**7172 Alan's Pride** 30" 1<sup>st</sup> yr, 38" 2<sup>nd</sup> yr; Flowers first year. Lime green flower petals with green-gold cones. For cutflower, perennial borders, containers. Capable of multi-year harvests.

25 sds 5.80 100 sds 13.30 500 sds 61.80 1000 sds 114.45 5 MSd 89.45/M

**7180 Magnus Superior <math>\leq</math>** 40"; Deep, brilliant carmine red, broad horizontal overlapping petals, red-gold cones. Dark stems and deep green leaves. Extremely sturdy plant with very durable flowers. For perennial borders, large container centerpiece, specialty cutflower, field or high tunnel, and bold mass landscape.

50 sds 2.30 100 sds 3.25 500 sds 14.50 1000 sds 25.50 5 MSd 19.10/M

**7175 PowWow Wild Berry (*Echinacea purpurea*)** 16-20"; FYF. Unique, intense rose-purple flowers with dark rose center.

25 sds 6.95 100 sds 16.55 500 sds 76.95 1000 sds 142.50 5 MSd 118.75/M

## Echinacea x hybrida

**7196 Paradiso Tall Mix F1 <math>\leq</math>** 24" pot, 32" gdn; Mostly FYF. Interspecific crosses blended to provide a broad, unique color range of scarlet, red, yellow, white, salmon, deep rose & soft pink. Flower form varies, from downcurved to horizontal, a few with fluted petals. Excellent material for fieldgrown or high-tunnel cutflower crop, or perennial border.

25 sds 5.10 100 sds 12.20 500 sds 56.75 1000 sds 105.15 5 MSd 80.75/M

## Gaillardia (*G. x grandiflora*)

P

Approx. 17,000 sd/oz. Also known as Blanket-Flower. Sow 6-8 weeks before sales. Germ in 7-10 days at 70-75°F in light. Excellent for mass planting, full sun; thrives in hot, dry or poor soil. Blooms Jul.-Sept. Space 9-12" apart.

**Arizona Series** 12" spreading 12"; FYF, no vernalization needed. An award winning series that produces abundant early 4" daisy-like blooms. Plants have a uniform, compact and mounded habit with bright green foliage. Excellent choice for a wide range of containers and gardens.

### 7177 Apricot 7176 Sun 7179 Mix

50sd 2.45 100sd 3.50 500sd 16.30 1000sd 30.25 5M 25.25/M

## Gazania (*Gazania rigens*)

A

Approx. 12,000 sd/oz. Start 4-6 weeks before sale. Germ in 10 days at 60-65°F. Excellent for beds and mass plantings in full sun. 12-18" spreading.

**7233 Talent Mix** Compact plants with 3" blooms on silvery white foliage. Contains white, yellow, maroon, pink and orange. Ht. 8".

50 sds 2.30 100 sds 3.25 500 sds 13.30 1000 sds 20.85 5 MSd 17.40/M





**Geranium**  
**Maverick Star**



**Geranium**  
**Multibloom Red**



**Geranium**  
**Toreador Mix**



**Gerbera**  
**Majorette Mix**



**Godetia**  
**Grace Mix**



**Gomphrena**  
**Buddy Purple**



**Gomphrena**  
**PingPong Mix**



**Geranium**  
**Multibloom White**

YF = First Year Flowering A = Annual P = Perennial ✂ = Suitable for cut flower production 🌱 = Suited for growing in packs for bedding plant sales

## Geranium (*Pelargonium x hortorum*) A

Approx. 6,000 sd/oz. Sow 12-14 weeks before spring sales. Germ in 10-14 days at 70-75°F. Beds or containers in sun. Bloom spring-frost. Space 1' apart.

**7334 Landscaper Red F1 FilmCoat.** Classic fire engine red. Robust, strongly branched habit spreading to 16". Extra-large, round flower heads. Great as a premium container product. Landscapers love it. Ht. 18".

10 sds 2.35	50 sds 9.20	100 sds 13.15	1000 sds 112.50	5 MSd 93.70/M
-------------	-------------	---------------	-----------------	---------------

**Maverick F1 Series FilmCoat.** Superb for 4 or 6" pots. Crop time 13-14 weeks. Uniform well-branched plants with big 5-6" blooms. Ideal for beds as well as containers. Cycocel responsive. Ht. 16".

**7308 Mix** **7306 Orange**  
**7309 Pink**

**7310 Red** **7311 Star**

10sd 2.20	50sd 8.60	100sd 12.25	1000sd 105.45	5M 87.60/M
-----------	-----------	-------------	---------------	------------

**Multibloom F1 Series FilmCoat.** Very early. The best for mass plantings. Floriferous, long-season, heavy bloom with compact habit. 14 weeks. Ht. 10".

**7327 Mix** **7329 Red** **7331 White**

10sd 2.20	50sd 8.65	100sd 12.35	1000sd 106.40	5M 88.65/M
-----------	-----------	-------------	---------------	------------

**7384 Pinto Premium Mix** Zoned foliage. Ht. 10". Uniform with large round florets and overlapping petals. 14-15 weeks.

10sd 2.20	50sd 8.60	100sd 12.25	1000sd 105.45	5M 87.60/M
-----------	-----------	-------------	---------------	------------

## Geranium Ivy Leaf

(*Pelargonium x peltatum*)

A

**7456 Tornado Mix F1** 8-10"; Economical seed alternative for ivy geranium production. No pinching or PGRs needed, naturally trailing and free flowering w/ excellent lateral branching.

10 sds 5.70	50 sds 22.15	100 sds 31.65	1000 sds 269.50	5 MSd 229.35/M
-------------	--------------	---------------	-----------------	----------------

## Gerbera (*G. jamesonii*) A

Approx. 7,000 sd/oz. Sow about 5 months before sale as blooming pots. Germ in about 10 days at 70-75°F. Pots or garden in full or part shade.

**7481 California Giants** 18"; Long stems, bright mix. Old fashioned type for knee-hi bedding or informal cutflower work. Economical.

25 sds 2.30	100 sds 5.50	500 sds 25.55	1000 sds 47.35
-------------	--------------	---------------	----------------

**7490 Majorette Mix F1** 8-10" spreading 10-12"; Extreme uniformity of timing, flower form, habit and high bud count. For bench run crop in quarts or larger mixed planters. Slick-Coat Seed for easy handling.

10 sds 4.55	50 sds 17.75	100 sds 25.35	1000 sds 218.65
-------------	--------------	---------------	-----------------

## Godetia (*G. Whitney*) A

Approx. 37,000 sd/oz. Sow Dec.-Feb. for April/May flowering. Prefer low temperatures and sun. Very cold resistant.

**7489 Grace Mix F1** Lateral branches produce numerous flowers on strong stems. Highly productive cut flower. Ht. 2 1/2'.

50 sds 4.65	100 sds 6.65	500 sds 30.95	1000 sds 57.40	5 MSd 47.10/M
-------------	--------------	---------------	----------------	---------------

## Gomphrena globosa A

Approx. 12,000 sd/oz. Also known as Globe Amaranth. Sow 6-8 weeks before spring sales. Performs well, germ in 15-20 days at 70-75°F. Excellent everlasting. Space 8-12" apart.

**7504 Buddy Purple** Blooms on compact dwarf plants. Perfect for gardens in hot, humid areas. Pots and hanging baskets. Ht. 8".

100 sds 1.55	500 sds 4.45	1000 sds 7.65	5 MSd 6.35/M
--------------	--------------	---------------	--------------

## Gomphrena globosa

**7507 Ping Pong Mix** 16" spreading 8" container, 20" spreading 10" gdn; Abundant, durable, drought tolerant color all summer. For gallons and mixed planters, knee high bedding, large or small landscaping, and good for fresh local or dried cutflower work.

100 sds 3.35	500 sds 15.60	1000 sds 28.85	5 MSd 24.10/M
--------------	---------------	----------------	---------------

**7509 Strawberry Fair** Brilliant deep rosy-orange and red 1" blooms. Attractive in gardens or in fresh and dried arrangements. Ht. 24".

100 sds 1.55	500 sds 3.15	1000 sds 4.75	5 MSd 3.50/M
--------------	--------------	---------------	--------------

**7505 Salmon Pastel** 28"; Warmly glowing salmon pink. Unique new color in tall type. For field grown specialty cutflower.

100sd 2.15	500sd 9.20	1000sd 15.30	5M 11.20/M
------------	------------	--------------	------------

## Gypsophila

P

Approx. 25,000 sd/oz. Also known as Baby's Breath. Germ in 7-10 days at 65-70°F. Beds and gardens in sun.

**7500 Gypsophila pacifica** 40"; Airy sprays of palest soft pink. Baby's Breath is always needed as filler for floral arrangements and makes a nice everlasting cutflower.

100sd 2.25	500sd 9.65	1000sd 16.20
------------	------------	--------------

## Heliotrope (*H. arborescens*) P

Approx. 43,000 sd/oz. Sow in Mar. for late May sales. Germ in 7-21 days at 68-78°F. under light. Blooms May-Sept. Space 12" apart.

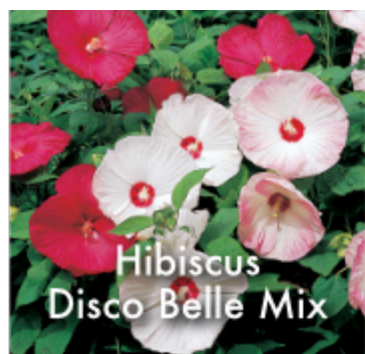
**7544 Mini Marine** Fragrant deep marine-blue blooms 8-12" across on 10" bushy plants.

100 sds 1.55	500sd 2.40	1000sd 3.40	5M 2.95/M	10M 2.35/M
--------------	------------	-------------	-----------	------------

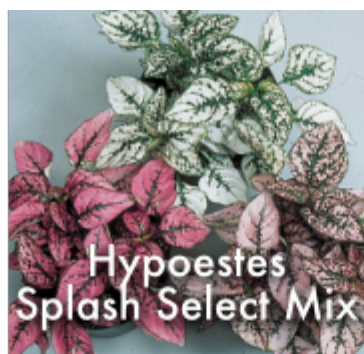
To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)

95





**Hibiscus**  
**Disco Belle Mix**



**Hypoestes**  
**Splash Select Mix**



**Hibiscus**  
**Rosy Red**



**Impatiens**  
**Accent Premium**



**Impatiens Beacon**  
**Formula Mix**



**Larkspur**  
**Giant Imperial**  
**Mix**



**Lisianthus**  
**Echo Mix**



**Lisianthus**  
**Rosita 2 Blue**  
**Picotee**

FFY = First Year Flowering A = Annual P = Perennial <math>\leq</math> = Suitable for cut flower production <math>\equiv</math> = Suited for growing in packs for bedding plant sales

## Hibiscus (*H. moscheutos*)

P

Approx. 2,100 sd/oz. Sow sd Jan.-Feb. for bloom first year. Germ in 15-30 days at 70-80°F. Blooms late summer to frost. Hardy in zones 5-9.

**Disco Belle Series 20"**; Basal branching habit, 9" diameter flowers.

7580 Mix  
7584 Rosy Red

10sd 6.35 50sd 24.65 100sd 35.20 500sd 163.75 1000sd 303.45

## Hollyhock (*Alcea rosea*)

P

**7590 Chaters Double Mix F1 6ft**; 100% double large flowers.

50 sds 1.75 100 sds 2.50 500 sds 10.55 1000 sds 17.35

## Hypoestes (*H. sanguinolenta*)

A

Approx. 22,000 sd/oz. Also known as Polka Dot Plant. Sow year-round; germ in 10-12 days at 70-75°F. Novelty for bedding or foliage plant. Full sun/part shade. Treat with Cycocel for best results. Allow 8-10 weeks for 4" pot production.

**7610 Splash Select Mix F1 12"** spreading 14"; Compact, improved version of Splash w/ more bright colors. Heat and shade tolerant. Dark green leaves with larger areas of pink, white or rose. Compact habit. Popular for bedding, patios, or indoors. Mix contains Pink, Red, Rose and White.

50sd 1.55 100sd 2.10 500sd 9.05 1000sd 15.15

## Impatiens (*I. walleriana*)

A

Approx. 60,000 sd/oz. Sow sd 6-8 weeks before spring sales. Germ in 10-14 days at 70°F. Bedding, container and hanging baskets. Thrives in full to partial shade. Blooms spring to frost. Space 1-2" apart. Ht. 6-12".

**Accent F1 Series** High-Viability seed selected for rapid, uniform germination. Early-flowering with 2" flowers on compact, vigorous plants. Ht. 10".

7664 Complete Premium Mix 7665 Deep Pink  
7671 Premium Red  
7675 Premium Salmon 7677 Star Mix  
7679 Premium White 7668 Premium Deep Orange

50sd 1.75 100sd 2.50 500sd 10.80 1000sd 18.15 5M 15.00/M

**Beacon F1 Series 11"** spreading 14"; Highly resistant to Impatiens Downy Mildew (P obducens). Large 1.25-1.5" flowers. Habit, vigor, timing, flower size and colors are similar to the well known Super Elfin XP. Easy, fast filling color that now lasts all summer again.

7678 Bright Red 7680 Violet  
7700 Formula Mix 7681 White  
50sd 2.30 100sd 3.25 500sd 13.65 1000sd 22.20 5M 18.45/M

## Larkspur (*Delphinium consolida*)

A

Approx. 9,000 sd/oz. Sow 6-8 weeks before spring sales; or direct-sow successively for longer period of bloom. Germ in 10-20 days at 65-75°F. Excellent for cut flowers. Blooms best in cool weather and full sun. Space 1-3' apart. Ht. 4'.

**7851 Giant Imperial Mix <math>\leq</math>** Long, strong flower spikes on upright, sturdy plants. Mixture of pink, white and blue shades. Ht. 4'.

100 sds 2.15 500 sds 3.00 1000 sds 4.15 5 MSd 1.75/M

## Lisianthus <math>\leq</math> (*Eustoma russelianum*)

A

Approx. 20,000 pels/oz. Production time 120-140 days from seed. Germ in 10-15 days at 70-75°F. Grow on at 60-68°F. Outdoors blooms July-Sept. Space 6-12" apart.

**7890 Arena Mix F1 Pelleted.** 31-39"; Selected for its high quality and fully double flowers on strong and sturdy stems. Professional cut flower, good for outdoor or greenhouse production.

50 sds 3.85 100 sds 5.50 500 sds 25.95 1000 sds 48.90

**7877 Echo Mix F1 Pelleted.** Tall with all-double blooms. Early flowering on sturdy stems. Ht. 30".

100 sds 3.65 500 sds 17.00 1000 sds 31.50 5 MSd 26.25/M

**7900 Mariachi Best Buy Mix F1 Pelleted.** 32-36"; large high-double camellia shaped flowers, quadripetalled & 2-2.5" diam. Excellent summer crop from winter sowing. Thick petals, tough stems for shipping and shelf life. Group 2 professional cut flower.

50 sds 3.60 100 sds 5.15 500 sds 24.00 1000 sds 44.60

**Rosita 2 Series F1 Pelleted.** 3-4 ft; professional cut flower. Group 2 for spring & early summer flower timing. Produces sprays of double rose-form flowers on strong stems. Thick petals, top flowering. Ships well with little botrytis problem. Long vase life, high % usable buds.

7880 Blue Picotee 7885 Mix

50 sds 5.80 100 sds 8.30 500 sds 38.60 1000 sds 71.45





**Lobelia  
Regatta Mix**



**Marigold  
Antigua Mix**



**Marigold  
Big Duck Yellow**



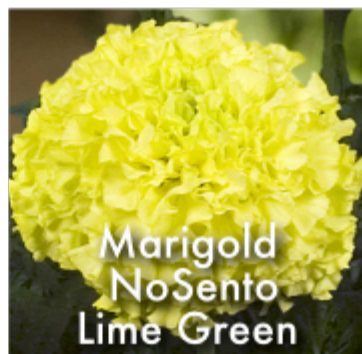
**Marigold  
Discovery Mix**



**Marigold  
Crackerjack Mix**



**Marigold  
Narai Orange**



**Marigold  
NoSento  
Lime Green**



**Marigold  
Discovery  
Yellow**

FYF = First Year Flowering A = Annual P = Perennial  $\frac{3}{4}$  = Suitable for cut flower production = Suited for growing in packs for bedding plant sales

## Lobelia (*L. erinus*)

A

Approx. 800,000 sd/oz. Sow 10-12 weeks before spring sales. Germ in about 20 days at 70-75°F. Blooms late spring to frost in full sun to partial shade. Space 4-6" apart.

**7949 Regatta Mix** Free flowering habit with a wide range of colors. The dense, cascading habit is perfect for baskets and planters.

100 sds 1.75 1000 sds 6.30 5 MSd 1.65/M 10 MSd 1.10/M

**7955 Riviera Marine Blue 5"**; Extra early flowering, vigorous, compact habit.

100 sds 1.55 500 sds 3.15 1000 sds 5.00 5 MSd 3.50/M

## Marigold Marigold American

(*Tagetes erecta*)

A

Approx. 9,000 sd/oz. unless otherwise stated. Sow 4-6 weeks before spring sales. Germ in about 7 days at 70-75°F. All types excellent for sunny gardens and containers. Blooms late spring to frost.

**Antigua F1 Series** Detailed. Day length neutral. Blooms eight weeks after sowing. Compact bushy plants produce 4" fully double blooms. Ht. 12".

**7988 Mix 7989 Orange**

**7991 Yellow**

50sd 2.70 100sd 3.85 500sd 17.85 1000sd 33.00 5M 27.50/M

**Big Duck Series**  $\frac{3}{4}$  12" spreading 10" pot, 18" spreading 15" gdn; Robust, densely branching knee-high habit. Foliage stays fresh and deep green through all weathers. Blooms on and on into summer with huge blooms reaching 4" diam when full grown. Blooms of younger plants or containers will be 3-4" in size. Extremely double, nearly spherical flowers. For gallons, combo containers, bold lasting color in bedding. Crop time 45-55 days from sowing.

**7999 Gold 8004 Orange**

**8002 Mix 8006 Yellow**

50sd 3.60 100sd 5.15 500sd 23.95 1000sd 44.40 5M 36.30/M

**Chedi F1 Series**  $\frac{3}{4}$  Bobtailed. 56" spreading, 32" Long Day; 60" spreading, 32" low-light; 24" grown Short Day cool. Tolerant to soil borne diseases such as Fusarium. Tallest cutflower marigold, uniform and continuous flowering. Large firm flowers to 4.8" diam. Long strong stems. Flowers 70-75 days from transplant. Use as cutflower, landscape, garden.

**8056 Gold 8062 Mix 8066 Orange**

50sd 2.30 100sd 3.25 500sd 13.60 1000sd 21.95 5M 18.50/M

**8009 Crackerjack Mix** Tall field grown mixture, casual double flowers a classic for field grown cut flowers.

500 sds 2.25 1000 sds 3.00 5 MSd 1.75/M

**Discovery F1 Series** Detailed. Earlier flowering with abundant fully double 3" flowers on very dwarf plants. Bedding plant growers will find these plants are an ideal height for shipping. Outdoors they stay neat and clean. Ht. 6-8".

**8024 Mix 8022 Orange 8023 Yellow**

50sd 2.30 100sd 3.30 500sd 14.75 1000sd 26.00 5M 21.65/M

**8037 Inca Gold** Huge fully double gold flowers, intermediate height, majestic garden color. A classic. Ht. 14".

50 sds 2.70 100 sds 3.85 500 sds 17.90 1000 sds 33.15 5 MSd 28.20/M

**Inca II F1 Series** Detailed. Top seller. Excellent for pot sales. Huge, showy, 4" double blooms are round & uniform. Ht. 15".

**8036 II Mix 8035 II Yellow 8038 II Primrose**

50sd 2.70 100sd 3.85 500sd 17.85 1000sd 33.00 5M 36.70/M

**8097 Narai Orange F1**  $\frac{3}{4}$  Bobtailed. 40" spreading 24" long-day both bright or low light, 20" spreading 20" grown cool; Top quality new hybrids for professional cutflowers. 4" fully double flowers with extra firm petal texture, extended shelf life, good long-distance shipping. Long strong stems and sturdy flower neck, 65-70 days from transplant to first flower. Selected for disease tolerance and continuous high yield through hot humid growing season. Also superb in mass landscape.

50 sds 3.20 100 sds 4.60 500 sds 21.40 1000 sds 39.60 5 MSd 33.00/M

**8180 NoSento Lime Green F1**  $\frac{3}{4}$  28"; Scentless leaves. The Marigold odor has been bred out. Large full double bright yellow flr with greenish tint above extra dark green leaves. Harvest when flowers first open. No pinching needed but can be done to increase crop. Grow under tunnel or field in summer. Vase life about 3 weeks. Take care handling stems.

50 sds 4.60 100 sds 6.60 500 sds 30.70 1000 sds 56.90 5 MSd 45.00/M

**8080 Orangeade**  $\frac{3}{4}$  3ft; Improved orange for xanthophyll production. Special deep orange color for cutflowers.

100 sds 1.55 500 sds 3.45 1000 sds 4.95 5 MSd 4.25/M 10 MSd 3.35/M

**8040 Savannah Ivory**  $\frac{3}{4}$  Detailed. Creamy near-white flowers have good size, about 3" diam, with cactus-style petals. Semi-double to double. For borders and worth testing as fieldgrown cutflower. Ht. 3'.

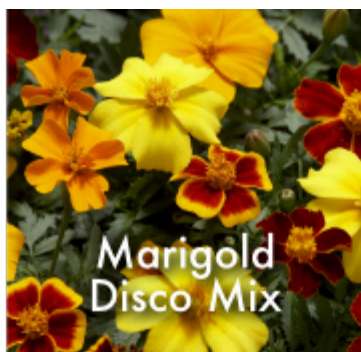
50 sds 2.30 100 sds 3.30 500 sds 15.15 1000 sds 27.60 5 MSd 20.30/M

**To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)**





**Marigold  
Bonanza Mix**



**Marigold  
Disco Mix**



**Marigold  
Janie Bright  
Yellow**



**Marigold  
Safari Mix**



**Melampodium  
Jackpot Gold**



**Ornamental  
Cabbage  
Crane Feather  
Mix F1**



**Morning Glory  
Heavenly Blue**



**Nicotiana  
Perfume Deep  
Purple F1**

FYF = First Year Flowering A = Annual P = Perennial  $\frac{1}{2}$  = Suitable for cut flower production = Suited for growing in packs for bedding plant sales

## Marigold French (*Tagetes patula*)

**Bonanza Series** Detailed. Popular series because of the large 2" crested flowers. Wide range of cheerful French marigold colors. Ht. 10".

**8150 Mix** (3 colors)

100sd 1.55 500sd 4.85 1000sd 8.35 5M 7.00/M 10M 6.30/M

**8184 Disco Mix** Detailed. Showy, single-flowered blossoms with excellent heat tolerance. Daisy-like flowers cover the full range of French marigold colors. Ht. 10".

100 sds 1.55 500 sds 4.55 1000 sds 7.80 5 MSd 6.45/M 10 MSd 5.85/M

**Janie Series** Detailed. Dwarf, double crested series. Extremely heat resistant. Massive display of 1" flowers atop neat petite plants. Ht. 8".

**8219 Bright Yellow 8220 Deep Orange**

100sd 1.55 500sd 4.85 1000sd 8.35 5M 7.00/M 10M 6.30/M

**8236 Red Cherry** A true classic unexcelled for color intensity. Large 1½" double crested flowers. Ht. 12".

100 sds 1.55 500 sds 2.10 1000 sds 3.00 5 MSd 1.15/M 10 MSd 0.75/M

**Safari Series** Detailed. Bushy, vigorous plants provide an abundance of fully double 2" flowers. Ht. 8-10".

**8250 Mix 8251 Orange PVP 8257 Red PVP 8256 Yellow PVP**

100sd 1.55 500sd 4.15 1000sd 7.15 5M 5.85/M 10M 5.25/M

**Super Hero Series** 8-10"; Improved successor to the Hero Series. AAS winning Spry was outstanding in trials for bright contrast. Robust tightly branched plant habit, most uniform in packs & gdn. Earlier to flower, just 7-9 weeks from sow to bloom. Brighter, cleaner colors with very stable flower patterns.

**8261 Deep Orange 8267 Deep Yellow 8263 Maxi Mix 8265 Spry**

100sd 1.55 500sd 4.85 1000sd 8.35 5M 6.90/M 10M 6.30/M

## Marigold Triploid (*Tagetes patula*)

**9998 Triploid Zenith Series** Detailed. Huge, double flowers measuring 3" on compact plants. Ht. 12".

**8280 Lemon Yellow 8281 Mix**

100sd 4.15 500sd 19.05 1000sd 34.80 5MSd 29.00/M

## Melampodium (*M. paludosum*)

Cover seed lightly and keep uniformly moist. Grow under high light intensity.

**8304 Jackpot Gold** 10", Larger flower, better, denser branching, with more color than 'Million Gold'. Compact & early, golden flrs, works well as commercial pot crop and performs very well in garden endurance trials. Color all summer to frost.

50 sds 3.80 100 sds 5.45 500 sds 25.35 1000 sds 46.90

## Morning Glory (*Ipomoea purpurea*)

Approx. 650 sd/oz. Germ in about 8 days at 65°F. Lovely for trellises, fences, temporary screens. Grow in full sun. Space 8-12" apart. Blooms summer-frost. Vines 8-10'.

**8317 Heavenly Blue** Climbing vine to 6 ft; classic, 4" sky-blue flowers with white throats. An old-time favorite.

100 sds 1.55 500 sds 2.90 1000 sds 4.15 5 MSd 3.55/M

## Nasturtium (*Trapaeolum majus*) A

Approx. 175 sd/oz. Germ in 7-12 days at 65° F. Gardens, hanging baskets, and containers. Flowers and young leaves are edible. Grows best in full sun and cool weather.

**8325 Tip Top Mixture** 10"; Dwarf, early, top flowering.

100 sds 2.60 500 sds 11.15 1000 sds 18.75 5 MSd 14.00/M

## Nicotiana (*N. glauca*) A

Approx. 18,000 pels/oz. Also known as Flowering Tobacco. Start 4-6 weeks before spring sales. Germ in about 15 days at 70°F. under light. Beds and borders in sun to part shade. Space 9-12" apart. Excellent heat and humidity tolerance.

**8350 Perfume Deep Purple F1** Pelleted. Upward facing fragrant flowers bloom all summer. Outstanding garden performer as well as container plant. Ht 12".

100 sds 2.50 200 sds 3.55 500 sds 8.25 1000 sds 15.30

## Ornamental Cabbage & Kale A

(*Brassica oleracea*)

Approx. 10,000 sd/oz. Sow 4-6 weeks before late summer. Sell in pots. Ornamental cabbage generally has round-edged leaves while kale has fringed foliage. Chill ornamental cabbage for 3 days in a dark refrigerator immediately after sowing. Kale does not require chilling or darkness. Germ in 7-14 days. Excellent for late summer to fall colors in mass plantings and containers. Best in sun and cool weather. Space 1½' apart.

**8353 Ornamental Cabbage Crane Mix F1**  $\frac{1}{2}$  2' Cut flower type with round heads on clean, strong stems.

100sd 3.25 500 sds 14.55 1000 sds 25.65 5 MSd 21.30/M 10 MSd 19.35/M

**8357 Crane Ruffle Mix**  $\frac{1}{2}$  24-36" Ruffle leafed version of the popular Crane series. Strong color with deeply ruffled leaves. Compact heads are a good size for shipping. Long strong stems, great vase life. Lovely, durable product at retail. Uniform upright habit. For cutflower growers of all types. A great winter bouquet. Cool weather intensifies color. Taller than other Crane series. Plant spacing will affect size of flower head.

100 sds 6.80 500 sds 31.70 1000 sds 58.80 5 MSd 48.80/M 10 MSd 44.35/M

**8354 Ornamental Cabbage Crane Feather Mix F1**  $\frac{1}{2}$  24-36"; Feather leafed version of the Crane series. Strongly colored heads with deeply cut ruffy leaves. Heads are compact and a good size for shipping. Long strong stems and excellent vase life provide durable and attractive product at retail. Habit is very uniform and upright. Cool weather intensifies color. Plant spacing affects flower size. Cutflower, Winter bouquets.

25 sds 3.55 100 sds 8.40 500 sds 39.05 1000 sds 72.40 5 MSd 60.10/M





Ornamental Kale  
Glamour Red F1



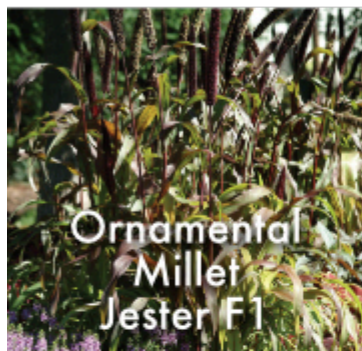
Ornamental Kale  
Maribor F1



Ornamental Kale  
Nagoya Red F1



Ornamental Kale  
Peacock White



Ornamental  
Millet  
Jester F1



Ornamental  
Millet Purple  
Majesty F1



Ornamental  
Pepper Black  
Pearl



Ornamental  
Pepper Onyx Red

FYF = First Year Flowering A = Annual P = Perennial <img alt="scissors icon" data-bbox="388 408 402 420"/> = Suitable for cut flower production <img alt="plant in pot icon" data-bbox="628 408 652 420"/> = Suited for growing in packs for bedding plant sales

## Ornamental Cabbage & Kale

(*Brassica oleracea*)

A

**8360 Ornamental Cabbage Pigeon Mix F1** Round leaf type. Small, uniform and extremely cold tolerant in winter flower beds. Ideal for 4-6" pot production. Colors up quickly for winter show.

100sd 3.25	500 sds 14.35	1000 sds 24.95	5 MSd 20.80/M	10 MSd 18.80/M
------------	---------------	----------------	---------------	----------------

**8358 Ornamental Kale Glamour Red F1** 8" pot, 12" gdn; A true breeding breakthrough. The first "shiny" flowering kale. Unique, non-waxy, glossy leaves & vivid, purple-red color add brilliance wherever it is used. Colors up in cool weather, ranging 55°-60°F.

100 sds 11.85	500 sds 55.10	1000 sds 102.00	5 MSd 85.00/M
---------------	---------------	-----------------	---------------

**8882 Ornamental Kale Maribor F1** Unique foliage is vibrant purple at base and tipped with deep, blue-green ruffled fringe. Robust, edible or ornamental for garden or container. Ht. 15".

100 sds 3.95	500 sds 16.60	1000 sds 26.70	5 MSd 22.00/M	10 MSd 19.95/M
--------------	---------------	----------------	---------------	----------------

**Ornamental Kale Nagoya F1 Series** Long lasting cool <img alt="plant in pot icon" data-bbox="65 738 90 750"/> season bedding plant with uniform habit and colorful fringed leaves. Good for autumn to winter container sales.

**8391 Red** Deep rose-red centers, burgundy outer leaves with frilled edges.

**8392 Rose** Bright rose color.

**8393 White** Ivory/blue-green.

**8394 Mix** <img alt="sun icon" data-bbox="125 822 150 835"/>

100sd 2.25	500sd 9.65	1000sd 16.20	5M 13.45	10M 12.20/M
------------	------------	--------------	----------	-------------

**Ornamental Kale Peacock F1 Series** Feather-type produces deeply notched and serrated foliage. Excellent for late summer/fall color. Large heads and sturdy stems withstand cold. Also edible garnish. Ht. 10".

8407 Red 8408 White 8410 Mix <img alt="sun icon" data-bbox="315 921 340 934"/>

100sd 3.70	500sd 17.25	1000sd 32.00	5M 26.70/M	10M 24.10/M
------------	-------------	--------------	------------	-------------

## Ornamental Millet

**8306 Jade Princess F1** <img alt="scissors icon" data-bbox="388 456 402 468"/> 24" tall x 18" wide pot, 30" tall x 24" wide gdn; Vivid chartreuse foliage with rosy brown pollen-free panicles. Neat mounded shape. Fast and economical, fills a lg container in 4-5 weeks from transplant. Likes it warmer than other millets. For lg containers and landscapes.

25 sds 7.80	100 sds 18.55	500 sds 86.25	1000 sds 159.75
-------------	---------------	---------------	-----------------

**8309 Jester F1** 42"; Broad chartreuse clumps shift to burgundy blades at maturity and orange-purple foliage at flowering time, when erect maroon spikes crown the plant. Best color in full sun. Longlasting bright accent plant for large containers and landscapes.

25 sds 7.80	100 sds 18.55	500 sds 86.25	1000 sds 159.75
-------------	---------------	---------------	-----------------

**8311 Purple Majesty F1** Transplant 14-21 days from sowing; matures 77-84 days from transplant. Fantastic Foliage®. Striking corn-like plant with deep purple foliage, stems and flower plumes. Landscape, Large Container. Ht. 4-5'.

25 sds 7.80	100 sds 18.55	500 sds 86.25	1000 sds 159.75
-------------	---------------	---------------	-----------------

## Ornamental Pepper

(*Capsicum annuum*)

A

Approx. 6,000 sd/oz. Sow 6-8 weeks before spring pack/pot sales; sow April-May for holiday pot crop. Germ in 7-14 days at 70-80°F. Attractive in bedding and containers with edible fruit. Full sun. Space 12".

**8430 Black Olive** 10" container, 24" garden. Draping dark purple foliage. Bright purple flowers and purple black fruit maturing to bright red. Sturdy upright plant holds up even through extremely hot and humid weather. Shows color from seedling stage until frost. For container, border plant or cutflower for mixed bouquets.

25 sds 1.55	100 sds 1.80	500 sds 4.45	1000 sds 7.70	5 MSd 6.25/M
-------------	--------------	--------------	---------------	--------------

**8428 Black Pearl** <img alt="scissors icon" data-bbox="688 456 702 468"/> Fantastic Foliage®. Unique, black-leaved plant is bushy, upright and well branched. Foliage matures from greenish to glossy black under high light and heat. Shiny black fruit matures to dark red and is very hot. Keep away from small children. Part of the Fantastic Foliage TM® program advertised nationally. Ht. 15".

25 sds 6.85	100 sds 16.30	500 sds 75.80	1000 sds 140.50	5 MSd 117.00/M
-------------	---------------	---------------	-----------------	----------------

**8432 Chilly Chili** Sweet ornamental. No heat. Bears a riot of 2" blunt-nosed peppers that turn from yellow to orange and red. Heat tolerant. Ht. 10".

25 sds 4.70	100 sds 11.15	500 sds 51.70	1000 sds 95.40	5 MSd 79.50/M
-------------	---------------	---------------	----------------	---------------

**Onyx Series** 9" tall spreading 12"; Unique showstopper with true "wow" value. Shiny, pure deep black foliage and large numbers of small .5" oval fruit that start black and turn blazing red or orange. Dense branching, forms a rounded mass of small leaves. Fruit starts setting early, when plant is 4-5" tall. Fruits set all over the plant and continue setting til frost. Makes a striking statement in the garden from all angles until freezing weather. For 6" pots, large multi-plant bowls, combo planters, and mass bedding.

8443 Red		8440 Orange		
25 sds 9.05	100 sds 21.60	500 sds 99.80	1000 sds 183.60	5 MSd 154.65/M



Ornamental  
Pepper Onyx Orange

To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)





FYF = First Year Flowering A = Annual P = Perennial <math>\leq</math> = Suitable for cut flower production = Suited for growing in packs for bedding plant sales

## Ornamental Wheat

Approx. 530 sds/oz. Germ 5-10 days at 60-70°F. Direct sow 4 weeks before last frost. Space 1-2" apart. Prefers full sun and well-drained soil.

**8458 Black Tip Wheat** <math>\leq</math> 3 ft; Long black whiskers sprout from thick seed head, rising several inches, well above the tip. Heritage winter wheat for floral, decorative, weaving and craft use. For Specialty Cuts.

100 sds 1.55 500 sds 4.65 1000 sds 8.00 5 MSd 5.40/M

**8459 Silver Tip Wheat** <math>\leq</math> 3 ft; Long heads, pure, light-tan all over with silvery sheen. This Heritage winter wheat is a hybrid of *T. aestivum* X *Secale cereale*. For floral, decorative, weaving and craft use. For Specialty Cuts.

100 sds 1.55 500 sds 4.65 1000 sds 8.00 5 MSd 5.40/M

## Pansy & Viola

A

Pansy has approx. 20,000 sd/oz. Its cousin, the viola has about 34,000 sd/oz. Can winter-over in mild climates. Sow spring, 10-12 weeks before spring sales. Sow midsummer for fall sales. Germ in 8-10 days at 65-75°F. Performs best in cool weather and full sun to part shade. Ht. 4-9".

**8530 Pansy Inspire DeluXXe Maxi Mix F1** 6" pots, 8" garden; Extra large 3"-3.5" flowers in 'Majestic' class. Early, tight bloom window, with all colors reaching 50% bloom in 75-85 days. Large bloom size. Durable flowers in outdoor performance. Strongly branching. Covers container or ground well and stays compact, with short peduncles both fall and spring. Branches to fill a gallon. Lasts into winter in mild areas. Less daylength sensitivity than other extra-large flower types.

50 sds 1.70 100 sds 2.40 500 sds 10.30 1000 sds 17.30 5 MSd 14.40/M

**8545 Pansy Majestic Giants II Mix F1** 6"; Large upfacing 3.5" flrs, resists stem stretching. *Primed seed*.

50 sds 3.85 100 sds 5.50 500 sds 26.40 1000 sds 50.55 10 MSd 42.10/M

**8550 Pansy Matrix Morpheus F1** 8" spreading 8"; Large 3.5" flrs. Stunning blue-violet and yellow combo. Super habit,, extra uniform even under longer, warmer days. Short stems and heavy textured petals with great long bench life. Great for fall production.

50 sds 2.45 100 sds 3.50 500 sds 16.30 1000 sds 30.15 10 MSd 25.10/M

**8591 Pansy Swiss Giants Mix** Large-flowered mix with velvety texture in a wide color range, all with blotch.

100 sds 1.55 500 sds 2.30 1000 sds 3.30 5 MSd 2.85/M 10 MSd 2.25/M

**9670 Viola Sorbet Mix F1** Early flowering series with unique color combinations and uniform habit. Excellent tolerance to temperature extremes. Ht. 6" spreading to 12".

50 sds 2.30 100 sds 3.25 500 sds 13.50 1000 sds 21.55 5 MSd 17.95/M

## Pentas (*P. lanceolata*)

**Graffiti Series F1** Pelleted. Large flower clusters of vibrant color. Branches strongly, forming a flat mound. Attracts butterflies. Strong performance in heat and humidity. Ht. 8".

8620 Mix (8 colors)

25sd 3.55 100sd 8.45 500sd 39.30 1000sd 72.75 5M 60.65/M

## Petchoa

**8623 Caliburst Yellow F1** 6-10" spreading 20-28"; Breeding breakthrough! Seed-raised Petunia x Calibrachoa. Caliburst Yellow brings the most vivid yellow of Calibrachoa into a hybrid plant with the habit, flower, size, product form and easy growing of a Petunia. Matches E3 Easy Wave precisely. No need for PGRs. Makes a great show mixed with E3 Easy Wave colors in a container.

50sd 11.90 100sd 17.00 500sd 79.05 1000sd 146.40 5M 122.00/M

## Petunia

A

Approx. 22,000 sd/oz. Sow 10-12 weeks before spring sales. Germ in 10-12 days at 70-75°F in light. One of the best-loved annuals for gardens and pots in full sun. Space 8-12" apart. Blooms spring to frost. Ht 12" or more

## Petunia grandfloria

**DaddyF1 Series** Pelleted. Big, ruffled blooms have distinctive dark vein patterns. Early blooming and uniform with outstanding weather tolerance. Ht. 10".

8717 Blue 8718 Mix  
8723 Sugar deep wine-red veins.

100sd 1.55 500sd 5.15 1000sd 8.85 5M 7.40/M 10M 6.70/M

**Dreams F1 Series** Pelleted. Outstanding disease tolerance. Free flowering, branching habit with excellent garden performance. Blooms 3-3½" across. Ht. 10".

8772 Appleblossom 8773 Midnight 8774 Mix  
8776 Pink 8777 Red 8779 White

100sd 1.55 500sd 5.15 1000sd 8.90 5M 7.40/M 10M 6.70/M







**Petunia  
Supercascade  
Mix F1**



**Petunia  
TriTunia  
ProFormula Mix  
F1**



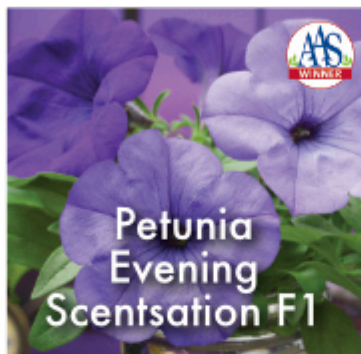
**Petunia  
Limbo GP  
Heather's Mix F1**



**Petunia  
Tickled Pink F1**



**Petunia  
Picobella Mix F1**



**Petunia  
Evening  
Scentsation F1**



**Petunia  
Ruffly Double  
Cerny Triumph  
Mix**



**Petunia  
Easy Wave Mix  
F1**

FFY = First Year Flowering A = Annual P = Perennial <math>\leq</math> = Suitable for cut flower production <math>\text{\*\*\*}</math> = Suited for growing in packs for bedding plant sales

## Petunia grandiflora

**8815 Frost Mix F1** Pelleted. Richly textured, white trimmed edge. Frosted bicolor patterns remains stable throughout the season. Mix is blend of 4 picotees. Ht. 12-14".

100 sds	500 sds	1000 sds	5 MSd	10 MSd
1.55	5.20	9.00	7.50/M	6.75/M

**8840 Limbo GP Heather's Mix F1** Pelleted. This beautiful combination of the Petunia grandiflora varieties Limbo GP Violet and Limbo GP Rose was created by Disney Horticulturist Heather Will-Browne, known for innovative use of color combinations in landscaping.

100 sds	500 sds	1000 sds	5 MSd	10 MSd
3.25	13.15	20.15	16.20/M	

**8871 Prism Sunshine F1** Pelleted. Extra early, compact golden-yellow 3" blooms with creamy edges. Plants remain very uniform and compact.

100 sds	500 sds	1000 sds	5 MSd	10 MSd
1.55	5.15	8.75	7.30/M	6.60/M

**8887 Sophistica Lime Bicolour F1** Pelleted. Colors change and develop over growing season. Will appeal to the demand for all-new color. Can be used to spice up mixed container sales. Ht. 10"

50 sds	100 sds	500 sds	1000 sds	5 MSd
7.60	10.85	50.50	93.65	78.00/M

**Supercascade F1 Series** Pelleted. Large flowers up to 4" across that perform well in hanging baskets, containers, window boxes and garden. Ht. 10-15".

8890 Blue 8893 Mix 8894 Pink  
8895 Red 8898 White

100sd	500sd	1000sd	5M	10M
1.55	5.15	8.90	7.40/M	6.70/M

**8939 TriTunia ProFormula Mix F1** 12-14"; The very best of the classic Ultra, Storm & Bravo series have been combined into the TriTunia series. TriTunias were chosen for best flower power, bloom size, uniformity of compact habit and timing. Traditional, tried and true performance for packs or pots. Huge flowers are impressive in large beds, baskets, and planters.

100sd	500sd	1000sd	5M	10M
1.55	4.85	8.40	6.85/M	6.20/M

## Petunia hybrida

**8910 Tickled Pink F1** Pelleted. 5 ft; pendant or climbing habit. Abundant mid-size, bright rose-purple flowers. Creates a bold showy mass on trellis or hanging from basket.

50 sds	100 sds	500 sds	1000 sds	5 MSd
8.60	12.25	56.95	105.45	86.40/M

## Petunia milliflora

**8858 Picobella Mix F1** Pelleted. Patented, miniature flowers and plants offer unique addition for retail. Easy and economical to grow under standard petunia culture and no need for PGRs. Strong vigor in garden. Ht. 8-10".

100 sds	500 sds	1000 sds	5 MSd	10 MSd
2.60	11.15	18.65	15.55/M	14.00/M

## Petunia multiflora

**8694 Celebrity Mix F1** Pelleted. Compact, early flowering. Withstands heat and humidity. Large, showy blooms. Ht. 10-12".

100 sds	500 sds	1000 sds	5 MSd	10 MSd
1.55	3.20	5.20	4.30/M	3.90/M

## Petunia Spreading

**8800 Evening Scentsation F1** Pelleted. 5" tall spreading 30" in pot, 8" tall spreading 36" in gdn; Unique fragrance, recalling Hyacinth, Rose and Honey to the senses. Beautiful indigo blue flowers. Strong spreading stems with short internodes and prolific branching produce a tight canopy of flowers for massive color show. For bedding baskets and containers from 6" to gallon. Great Lakes, Heartland, West/Northwest.

25 sds	100 sds	500 sds	1000 sds
9.05	21.60	100.50	186.35

**8844 Opera Supreme Pink Morn F1** Pelleted. Spreads to 4' but stays 4-6" tall. Continues blooming along entire length of stem. Fills beds and baskets beautifully.

50 sds	100 sds	500 sds	1000 sds	5 MSd
14.80	21.15	98.15	181.40	151.15/M

## Petunia Superbissima

**8880 Ruffly Double Cerny Triumph Mix** Pelleted. Giant tetraploid flowers up to 5" on upright robust plants. Petals are heavily textured, deeply ruffled with many doubles and semi-doubles. Packs, pots and home gardens.

50 sds	100 sds	500 sds	1000 sds	10 MSd
1.80	2.60	11.20	18.80	14.60/M

## Petunia Wave

**8812 E3 Easy Wave Complete Mix F1** Pelleted. 6" tall x 25" wide pot, 12" tall x 32" wide gdn; Improved Easy Wave type. Shorter crop time in short-day. All colors flower at or under 10 hours daylength. Less PGR needed. Very uniform across the series. Holds well for sales season. Mounded spreading habit. Hot colors for hot sales. Great in beds, baskets, pots.

50sd	100sd	500sd	1000sd	5M	10M
11.65	16.65	79.05	146.40	122.00/M	

**Easy Wave F1 Series** Pelleted. More mounded than Wave Series with up to 3' spread. Container or small space garden. Ht. 8-12".

8781 Blue 8782 Coral Reef 8783 Mix  
8786 Neon Rose 8784 Pink  
8787 Pink Passion 8785 Red  
8790 Red Velour 8791 White 8788 Yellow

50sd	100sd	500sd	1000sd	5M	10M
11.90	17.00	79.05	146.40	122.00/M	

**Shock Wave F1 Series** Pelleted. Huge quantity of small 2" flowers blanket lushly branched spreading mounds. Very fast flowering in a uniform 5 day time slot. Continuous color possibility. Ht. 6".

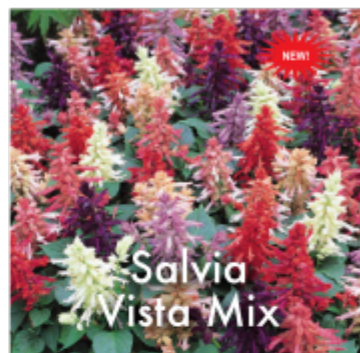
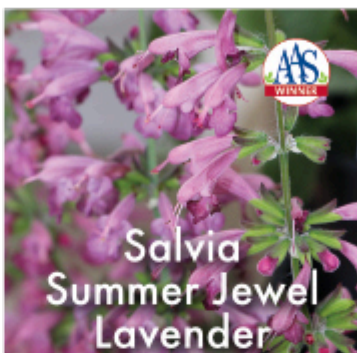
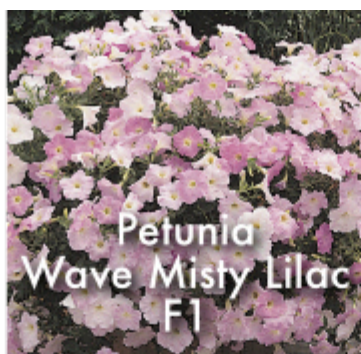
50sd	100sd	500sd	1000sd	5M	10M
11.90	17.00	79.05	146.40	122.00/M	

8974 Deep Purple 8975 Mix  
8977 Red 8976 Rose

**More Petunia Wave on  
Pg. 102**

**To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)**





YF = First Year Flowering A = Annual P = Perennial ✂ = Suitable for cut flower production 🌱 = Suited for growing in packs for bedding plant sales

## Petunia Wave

**Tidal Wave F1 Series** Pelleted. Sprawling 3' habit becomes a wall of color in baskets or a groundcover if spaced at 2', or a 20" hedge if spaced at 1'. Highly resistant to botrytis, weather tolerant.

8926 Cherry 8929 Hot Pink 8932 Purple  
8934 Red Velour 8935 Silver

50sd 11.90 100sd 17.00 500sd 79.05 1000sd 146.40 5M 122.00/M

**Wave F1 Series** Pelleted. 3-6" spreading to 3-4". Radiant blooms spread out in a circular fashion. Perfect for baskets and a must for commercial landscape.

8965 Carmine Velour 8966 Misty Lilac  
8970 Mix 8968 Purple 8967 Pink

50sd 11.90 100sd 17.00 500sd 79.05 1000sd 146.40 5M 122.00/M

## Portulaca (P. grandiflora)

About 280,000 sds/oz. Sow 6 weeks before spring pack sales. Germ in 10-14 days at 70-80°F. Thrives in dry, poor soils and full sun. Good for rock gardens, borders, annual ground cover and baskets. Bloom spring to frost. Ht. about 6", spreads to 18".

**9008 Double Flowered Mix** Old-fashioned garden favorite. Double and semi-double flowers in a range of bright, sunny shades.

250 sds 1.55 1000 sds 2.45 5 MSd 1.75/M 10 MSd 0.45/M

**9010 Happy Hour Mix F1** Multipelleted. 10"; needs 1 hr less daylength for budding, can sow earlier & bring to bloom for market up to 2 weeks ahead of other series. Large semidouble flowers. Compact, mounded non-trailing habit is easy to handle & ship.

100 sds 3.35 500 sds 15.55 1000 sds 28.70 5 MSd 23.90/M

**9029 Sundial Mix F1** Plants are extremely showy because flowers stay open longer.

100 sds 1.55 500 sds 3.40 1000 sds 4.85 5 MSd 4.20/M

## Rudbeckia (R. hirta)

Approx. 86,800 sd/oz. Sow 8 weeks before spring sales. Germ in 12-14 days at 70-75°F. Space 18-24" apart. Bloom summer to fall. Zones 4-8.

**9059 Cherokee Sunset** First year flowering. Double to semi-double flowers in range of sunset shades from gold, orange, bronze to mahogany. Ht. 30".

100 sds 3.30 500 sds 15.10 1000 sds 27.55

**9062 Denver Daisy** FilmCoat. Perfect for large landscape plantings or 1 gallon production. Large masses of golden flowers with rusty red rings cover the plant from late spring until first frost. Ht. 18-20".

50 sds 2.30 100 sds 3.30 500 sds 14.95 1000 sds 26.80 5 MSd 22.00/M

**9069 Indian Summer** Large golden-yellow 6-9" flowers. Single and semi-double blooms on sturdy stems require no staking. Excellent cut flower. Ht. 3-3½'.

100 sds 4.15 500 sds 19.15 1000 sds 35.20 5 MSd 23.10/M

**9074 Prairie Sun** FilmCoat. Golden petals of light yellow with green center. Strong stems and large 5" flowers stand out in floral arrangements or landscape. Firm textured, long lasting. Blooms first summer about 4-5 months from winter sowing making it a choice perennial container plant. Ht. 30".

50 sds 2.65 100 sds 3.75 500 sds 17.40 1000 sds 32.15

## Salvia coccinea

**9099 Lady in Red** Approx. 15,500 sd/oz. Distinctly different, loose flower spikes with small scarlet florets, Ht. 12-15".

100 sds 3.25 500 sds 13.00 1000 sds 19.70 5 MSd 16.40/M 10 MSd 14.80/M

**Summer Jewel Series** 14" pot, 20" gdn, 16" spreading. Rated above average or superior by AAS judges because of its early & abundant flowers, blooming from spring to fall. Plants are dwarf and densely branching. Bright flowers and dark-green foliage hold up to wind & rain. Attracts hummingbirds.

9105 Mix

9103 Lavender

9102 Pink

9100 Red

9101 White

100sd 3.25 500sd 13.65 1000sd 22.15 5M 18.40/M

## Salvia farinacea

Approx. 24,000 sd/oz. Sow 6-8 weeks before spring sales. Blooms in full sun from early summer to frost. Space 12".

**9119 Victoria Blue** Choice tall blue with long spikes densely covered with intense violet-blue florets. Ht. 18".

100 sds 1.55 500 sds 3.60 1000 sds 5.15 5 MSd 4.40/M 10 MSd 3.60/M

## Salvia splendens

Approximately 7,500 sd/oz.

**9109 St. John's Fire** Bright red. Ht. 12".

100 sds 1.55 500 sds 3.00 1000 sds 4.30 5 MSd 3.70/M

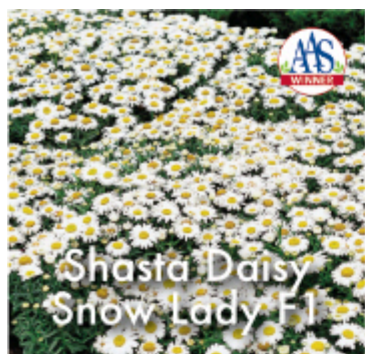
**Vista Series** Early and compact with thick spikes. Day length neutral. Ht. 12".

9107 Mix

9104 Red

100 sds 2.10 500 sds 9.05 1000 sds 15.15 5 MSd 12.55/M





FYF = First Year Flowering A = Annual P = Perennial  $\infty$  = Suitable for cut flower production  $\text{H}$  = Suited for growing in packs for bedding plant sales

## Scabiosa

Approximately 5,200 sd/oz.

**9110 CutBrite Mix**  $\infty$  32"; Strong stemmed. 7 Extra bright colors. Formula Mixture (7 colors including 'Black Knight') Excellent fieldgrown cut-flower.

50 sds 1.55	100 sds 1.90	500 sds 7.70	1000 sds 11.95	5 MSd 9.20/M
-------------	--------------	--------------	----------------	--------------

## Shasta Daisy

(*Leucanthemum x superbum*)

Approx. 20,000 sd/oz. Sow 10-12 weeks before spring sales. Germ in 10-14 days at 70-75°F under light. Great for gardens in full sun or part shade. Blooms June-Aug. Hardy in zones 4-9. Space 1'-2' apart.

**9129 Snow Lady F1 Dwarf**, branching plants begin flowering when only 6" tall. Hardy to Zone 6. Ht. 10".

50 sds 3.85	100 sds 5.50	500 sds 26.30	1000 sds 50.15	10 MSd 41.70/M
-------------	--------------	---------------	----------------	----------------

## Snapdragon (*Antirrhinum majus*)

Approx. 180,000 sd/oz. Sow 6-8 weeks before spring sales. Germ in 10-14 days at 65-70°F under light. Excellent in gardens or cut flowers. Bloom best in sun to partial shade in cool weather. Space 8-12" apart.

**9140 Chantilly Mix F1**  $\infty$  3 ft garden, 4 ft greenhouse; strong color display. Extra early blooming. Open faced flowers with long vase life on strong, flower filled stems. Premium quality for landscape, planter or group I-II cutflower snap. Excellent field-grown.

100 sds 2.20	500 sds 9.45	1000 sds 15.90	5 MSd 13.20/M
--------------	--------------	----------------	---------------

**9154 Floral Showers Mix F1** Branching plants flower under short days. Excellent for 4" pot production. Ht. 4".

100 sds 1.55	500 sds 4.95	1000 sds 8.50	5 MSd 7.10/M
--------------	--------------	---------------	--------------

## Snapdragon (*Antirrhinum majus*)

**9176 Madame Butterfly Mix F1**  $\infty$  Open, flaring blooms without the "snap". Long stems make an excellent choice for cut flowers. Ht. 2½'.

100 sds 2.35	500 sds 10.10	1000 sds 16.95	5 MSd 14.10/M
--------------	---------------	----------------	---------------

**9209 Rocket Mix F1**  $\infty$  Choice for cut flowers or gorgeous garden bloom. Vigorous, uniform, heat resistant. Mix includes bronze, pink, rose, yellow, white and cherry. Ht. 30-36".

100 sds 1.55	500 sds 4.25	1000 sds 7.35	5 MSd 6.10/M
--------------	--------------	---------------	--------------

**9198 Sonnet Mix F1** 18"; Easy to grow w/ uniform growing habit, strong root system and sturdy self supporting flower stems. Great cutflower also performs well in patio containers and landscape.

100 sds 1.95	500 sds 7.95	1000 sds 12.30	5 MSd 10.25/M
--------------	--------------	----------------	---------------

**9159 Twinny Mix F1 Dwarf**, double-flowered. Compact plant habit and excellent garden performance. Ht. 8".

100 sds 3.25	500 sds 13.55	1000 sds 21.75	5 MSd 17.65/M
--------------	---------------	----------------	---------------

## Statice (*Limonium sinuatum*)

Approx. 8,500 sd/oz. Sow 8-10 weeks before spring sales. Germ in 15-20 days at 70°F. Great for cutting, fresh, dried or garden in full sun.

**9224 Pacific Mix** Strawy blooms in graceful sprays on stiff stems. Color mix includes apricot, three shades of blue, purple, rose, white and yellow. Ht. 2½'.

100 sds 1.55	500 sds 2.20	1000 sds 3.15	5 MSd 2.70/M
--------------	--------------	---------------	--------------

## Stock (*Matthiola incana*)

Approx. 18,000 sd/oz. Sow 3-4 weeks before transplant. Germ in 4-6 days at 68°F; do not allow above 75°F. For cut flowers, space 4" apart; for beds, space 6" apart. Keep irrigated. For more detailed growing information, ask a Twilley representative or visit [www.twilleyseed.com](http://www.twilleyseed.com).

**9260 Anytime Mix** 30"; Flowers well in summer over long season. Anytime shows good bud formation even at warmer temperatures that end the bloom time for most Stock varieties. Tall lasting stems for cutflowers. 100% selectable for double flowers. Crop time 10-12 weeks from sowing. Formula mix contains 6 colors. For specialty cutflower production.

25 sds 1.55	100 sds 1.80	500 sds 5.00	1000 sds 8.65
-------------	--------------	--------------	---------------

**9270 Quartet Mix** 30-36"; Spray type habit, branching low on the stem, easy for whole-plant bouquets or for numerous mid-length single stems. Easily selected for doubles. Early blooming, sweetly fragrant, strong branching habit, excellent form. Pinching is required for good spray form. Leave at least 10 leaves on stem. For long stems, never dry out during growing season.

25 sds 1.55	100 sds 3.30	500 sds 15.00	1000 sds 27.00
-------------	--------------	---------------	----------------

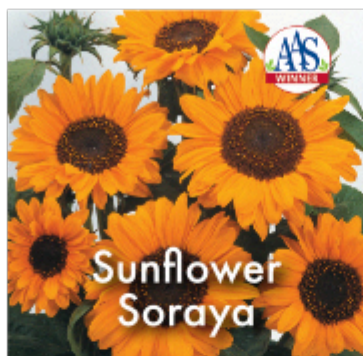
## Strawflower (*Helichrysum bracteatum*)

Approx. 44,000 sd/oz. Sow 4-6 weeks before spring sale, or direct sow. Germ in 7-10 days at 70°F. Best for cutting, fresh, dried or garden. Blooms in full sun from summer to frost. Space 6-12" apart.

**9286 King Size Mix**  $\infty$  Extra large flowers and extra double blooms on strong stems suitable for dry flower production. Blend of 8 colors. Ht. 36".

100 sds 1.55	500 sds 2.45	1000 sds 3.50	5 MSd 3.00/M
--------------	--------------	---------------	--------------





FYF = First Year Flowering A = Annual P = Perennial  $\leq$  = Suitable for cut flower production  $\leq\leq$  = Suited for growing in packs for bedding plant sales

## Sunflower (*Helianthus annuus*) Pot/Bedding Type

Approx. 400 sds/oz. Direct sow after all danger of frost. Germ in 10-14 days at 65-85°F. Excellent for temporary screens or hedges. Harvested seeds. Full sun. Bloom late summer to frost.

**9299 Bert F1** 14-16"; Pollen free. Outstanding color show. Large 6" flowers are intense bright yellow with long, broadly overlapping 2" petals and chocolate disk about 2" across. Foliage is well proportioned, and deep glossy green. Knee-High habit. First crop, blooming 8-10 weeks from sowing.

100 sds 7.15 500 sds 33.05 1000 sds 60.80 5 MSd 50.65/M

**9294 Big Smile** 12-15". Bright golden-yellow face, dark-disked. Extra dwarf for pots & beds. An early bloomer, 50-55 days after sowing. Day length neutral.

100 sds 3.25 500 sds 13.30 1000 sds 20.75 5 MSd 17.10/M

**9330 SunBuzz** 12" in small pot, 20" in large pot or gdn; Compact pollen free hybrid, branches and reblooms repeatedly for a long season of showy color. Bright yellow overlapping petals. Mid-size dark center. Little or no PGR but less needed than comparable varieties.

100 sds 8.75 500 sds 40.70 1000 sds 75.45 5 MSd 62.85/M

## Sunflower (*Helianthus annuus*) Tall Cutflower Type

**9295 Double Quick Orange F1** 5 ft; Double orange, 5" sunburst, distinctly green-centered. Single stemmed, pollen free. Maturity 65 days, early for a double.

100 sds 4.15 500 sds 19.35 1000 sds 35.90 5 MSd 29.80/M

**9306 Grey Stripe** (*Giganteus*) 8-12 ft; Displays mammoth sized flowers measuring up to 20" across with bright-yellow petals, brown-centered, full of tasty seeds.

100 sds 1.55 500 sds 2.20 1000 sds 3.15 5 MSd 2.60/M

A

**9311 Orange Mahogany Bicolor F1** Professional pollen-free cut flower. 5" flowers are rich orange with mahogany ring. 4 1/2' single stem, good shipping height. Harvest before half-open stage at about 60 days.

100 sds 5.00 500 sds 23.20 1000 sds 42.95 5 MSd 35.65/M

**9312 Orange Sun** 5 ft; Cutflower variety, fully double, golden-orange flowers on single stems.

100 sds 2.30 500 sds 9.90 1000 sds 16.60 5 MSd 14.00/M

**9321 Ring of Fire** 5" bicolor disk, dark red at base and golden yellow at tips. 40" branching habit. Good as casual cut or garden flower.

100 sds 3.25 500 sds 13.70 1000 sds 22.45 5 MSd 19.00/M

**9309 Rouge Royale F1** Dark red pollen free flowers with branching stems. Ht. 6'.

100 sds 3.25 500 sds 14.30 1000 sds 24.85 5 MSd 20.70/M

**9326 Sonja** Golden-orange blooms with dark centers produce long-lasting 4" blooms. Recommended for cut flowers or garden. Harvested seeds. Ht. 3'.

100 sds 3.25 500 sds 14.00 1000 sds 23.50 5 MSd 19.50/M

**Pro Cut F1 Series** 5 ft; single stemmed, pollen free, day-neutral with outstanding early maturity in 50 days; highly commercial. Black-seeded type less likely eaten by crows in the field. 3 to 4" flowers with black centers.

9345 Bicolor 9305 Brilliance 9334 Lemon  
9348 Mix 9349 Orange 9355 OrangeDMR  
9332 Peach 9315 Red & Lemon Bicolor

100 sds 3.55 500 sds 16.55 1000 sds 30.65 5 MSd 25.45/M

**9351 Pro Cut Plum**

100 sds 4.25 500 sds 19.75 1000 sds 36.60 5 MSd 30.45/M

**9350 Pro Cut Red**

100 sds 4.25 500 sds 19.75 1000 sds 36.60 5 MSd 30.45/M

**9356 Pro Cut White Lite**

100sd 5.15 500sd 23.90 1000sd 44.20 5M 36.80/M

**9357 Pro Cut White Nite**

100 sds 5.15 500 sds 23.90 1000 sds 44.20 5 MSd 36.80/M

**9331 Soraya** 80 days. Branching, self supporting plants bear 4-6" orange flowers with contrasting dark brown disk. Bred as a quality, commercial cut flower. Sturdy stems and brilliant true orange color are also a standout in the garden. Ht. 5-6'.

100 sds 3.25 500 sds 13.00 1000 sds 19.70 5 MSd 16.20/M

**9337 Sunbright F1** Pollen-free for professional cut flower. 4" diameter, overlapping golden yellow petals with dark center. The industry leader for summer sunflower production. Ht. 5'.

100 sds 3.25 500 sds 13.55 1000 sds 21.75 5 MSd 18.15/M

**9338 Sunbright Supreme F1** Cut flower variety, pollen free with yellow flowers surrounding dark center. Grows vigorously under low temperature conditions. Manageable stem length under long days make it an excellent cut flower. Ht. 5'.

100 sds 3.25 500 sds 14.45 1000 sds 25.35 5 MSd 21.10/M

**Sun Fill Series** 5-6ft; Pollen free. Highly decorative. Sun-Fill produces a thick textured starburst of large pointy sepals radiating from the bud, developing into a 3-4" diam calyx. Petals are sparse and late, hidden under the calyx. Without exposed petals or pollen, problems of rain damage should be reduced. Strong exotic novelty appeal.

9360 Green 9365 Purple

100sd 5.50 500sd 25.85 1000sd 48.50 5M 40.40/M

**Sunrich F1 Series** 3-4 ft; bright colors, pollen free cut flower type, nonbranching, midsize 5-6" flowers. Early & day-neutral with flowering accelerated under short days. 55-70 days from sowing.

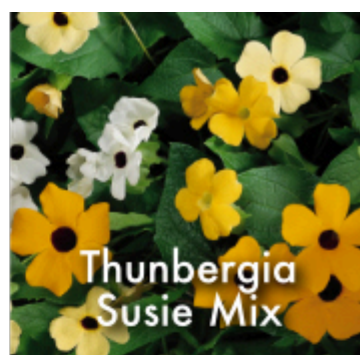
9288 Gold 9289 Lemon 9290 Orange 9200 Mix

100sd 4.20 500sd 19.55 1000sd 36.30 5M 30.25/M

**9339 Sunrich DMR Orange F1** 4 ft; resistant to Downy Mildew. The world's first F1 pollen-free sunflower to have this trait. Produces cleaner crops with less chemical use. All other traits are like the original 'Sunrich Orange'. Blooms in 65-85 days from sowing, depending on weather. Suitable for sowing and growing spring to summer with long-day conditions.

100 sds 4.45 500 sds 20.70 1000 sds 38.30 5 MSd 31.90/M





FYF = First Year Flowering A = Annual P = Perennial ☞ = Suitable for cut flower production 🌱 = Suited for growing in packs for bedding plant sales

**Sunrich Summer F1 Series** 3-4 ft; bright colors, pollen free cutflower type, nonbranching, midsize 5-6" flowers. Early & day-neutral 50-65 days from sowing, 5-10 days earlier than Sunrich. Superior for spring & summer sowing and growing. Sustains production better under long-day conditions, with more slender and shorter stems.

9291 Lemon 9293 Orange  
9230 Mix 9292 Limoncello

100sd 4.40 500sd 20.45 1000sd 37.85 5M 31.55/M

**9344 Taiyo** 5 ft; single stemmed cutflower strain. Overlapping golden yellow petals and dark centers. Flowers 4-5" diam. borne on strong single stems. Open pollinated and economical for fieldgrown cutflower. NOT pollen-free.

100 sds 1.55 500 sds 5.50 1000 sds 10.15 5 MSd 7.55/M

**9346 Tiffany F1** 55 days. Professional pollen-free cut flower. Bright orange 5" flowers contrast with dark disc. Single with small dark, glossy leaves. Ht. 3'.

100 sds 3.85 500 sds 17.95 1000 sds 33.30 5 MSd 27.80/M

**Vincent F1 Series** 5-6 ft; pollen-free & day-neutral for year-round production. Short crop cycle, very early at 8-10 weeks. Broad, nicely rounded petals are strongly overlapping, giving the flower a semidouble look. Curved neck holds the flower at 45° angle for optimal color presentation. Small upper leaves for easy shipping & arranging. Professional quality cutflower.

**9297 Vincent's Choice**  
Deep orange petals and brown centers.

**9298 Vincent's Fresh**  
Golden petals and crisp, green centers.

100 sds 3.60 500 sds 16.80 1000 sds 31.15 5 MSd 25.90/M

## Sweet Pea (*Lathyrus odoratus*) A

Approx. 300 sd/oz. Sow 4-6 weeks before spring sales or direct sow as early as ground can be worked. Germ in 10-14 days at 55-65°F. Excellent for cut flowers. Full sun;

**9358 Mammoth Mix** ☞ Climbing variety w/ long stems and extra large flowers, good for cutting. 6 ft vine.

100 sds 3.25 500 sds 14.00 1000 sds 23.50 5 MSd 17.85/M

## Thunbergia alata

(Black-Eyed Susan)

P

Approx. 1,200 sd/oz. Sow 4-6 weeks before spring sales. Seeds germinate in 2-3 weeks at 70-75°F. Screens, baskets and ground covers. Full sun to part shade. Blooms from summer to frost.

**Susie Series** Dense branching vines with abundance of bright colors. Ideal for containers and hanging baskets.

**9386 Mix**

**9381 Orange Eye**

100sd 8.30 500sd 38.60 1000sd 71.50 5M 58.55/M

## Torenia

A

Approx. 26,000 pels/oz. Sow about 8 weeks before spring sales. Seeds germinate in 14-20 days at 70°F. Old-fashioned annual for beds or pots in partial shade. Blooms summer to frost. Space 6-12".

**9411 Kauai Mix** Pelleted. Offers the fullest range of bright, eye-catching colors. More manageable and cost effective on the bench. More compact habit, tighter 8-day bloom window and earlier than 'Clown'. Ht. 8".

100 sds 3.30 500 sds 15.20 1000 sds 27.80 5 MSd 23.20/M

## Verbena speciosa

P

**9417 Imagination** Primed. Glowing color, lacy foliage, free-flowering habit. Violet blue blooms on spreading plants. Suggested for massing in landscape and hanging baskets. Performs in hot and dry soils. Ht. 12-24", spreading to 20".

100 sds 3.30 500 sds 15.20 1000 sds 27.85 5 MSd 23.20/M

**9418 Scentsation Mix F1** 8" container, 12" gdn; Fragrant! Beautiful color range including deep blue shades, light blue shades, lilac, rose and pink shades. Branching plants fill up with 1-2" flowers in 4" clusters. For mixed containers, bedding, mass landscape or fragrance-garden.

100 sds 3.25 500 sds 13.15 1000 sds 20.15 5 MSd 16.65/M 10 MSd 14.70/M

## Vinca (*Catharanthus roseus*) A

A

Approx. 20,000 sd/oz. Sow 10-12 weeks before spring sales. Seeds germ in about 15 days at 70-75°F. Heat-tolerant plants for bedding, ground covers in full sun. Blooms summer to frost. Space 12" apart.

**9530 Cora XDR Mix F1** 14" spreading 18"; Extended season due to improved resistance to the Phytophthora blight that affects Vinca. Makes growing easier and extends bloom season in the gdn. Improved for branching, uniformity & flower power vs old Cora. For pots, bedding, baskets.

50 sds 4.40 100 sds 6.25 500 sds 29.15 1000 sds 54.15 5 MSd 45.00/M

**Cora Cascade XDR Series F1** Trails to 3 plus feet. Extra large 2" flowers tend to fill center of plant. Thick, dark glossy foliage, dense branching. Resistant to phytophthora. Ht. 6"

**9525 Mix 9527 Polka Dot**

50sd 5.50 100sd 7.85 500sd 36.55 1000sd 67.85 5M 56.55/M

**9567 Mediterranean Mix** Flat spreading habit exceeds 30" diam. Will creep to cover lots of ground, choice for commercial landscapers. A classic type for curb plantings where softer plants parch in summer. Large 2" blooms. Young seedlings are easy to handle. Ht. 6".

100 sds 3.45 500 sds 16.10 1000 sds 29.95 5 MSd 25.00/M 10 MSd 22.55/M

**9585 Pacifica Mix XP F1** Huge flower size, 2" across. Unique colors. Approximately 60 days from sowing to first flowers. Strong garden and pack performance. Takes heat and poor, dry soil. Ht. 12".

100sd 1.95 500sd 7.95 1000sd 12.40 5M 10.40/M 10M 9.35/M

## Wildflowers

The ideal solution for a natural look where grassy lawns cannot be maintained. Once established, wildflowers are virtually maintenance-free and increase the value of your property. Perennial wildflower mixes are also popular along highways as they return every year.

**See Page 108**





FYF = First Year Flowering A = Annual P = Perennial <math>\propto</math> = Suitable for cut flower production = Suited for growing in packs for bedding plant sales

## Zinnia elegans

A

Approx. 3,000-3,500 sd/oz. Sow 4 weeks before spring sales. Germ in 5-7 days at 70-75°F. Full sun. Space 6-12" apart.

**9742 Benary's Giant Dahlia Blue Point Series**  $\propto$  Long thick stems and large fully double blooms are great for professional cut flower production. Ht. 30".

9742 Mix

100sd 3.25	500sd 14.20	1000sd 24.30	5M 20.15/M
------------	-------------	--------------	------------

**9700 Cupcakes Mix**  $\propto$  32"; Unusual fluffy crested flower form, and several very unique shades. Numerous 2" blooms on upright stems. Good for fieldgrown cutflower, can be used as colorful filler among larger flowers. Also as whole-plant bouquets and mass landscaping.

25 sds 2.65	100 sds 6.30	500 sds 29.30	1000 sds 54.20	5 MSd 42.20/M
-------------	--------------	---------------	----------------	---------------

**Holi Series F1** 6" spreading 8" pot, 8" spreading 10" gdn; Extremely heat tolerant, born & bred in hot-humid tropical conditions. Large 3-3.5" full double Dahlia type flowers. Superb branching erect plants. Foliage stayed green and clean all summer, showing no sign of bacterial disease. Sowing to bloom in 65-70 days. For bedding & containers.

9730 Mix

25sd 4.35	100sd 10.40	500sd 48.40	1000sd 89.65	5M 72.80/M
-----------	-------------	-------------	--------------	------------

**Dreamland F1 Series** Filmcoated. Combines the Dahlia-flowered class with a dwarf, compact habit. Big 4" flowers just 6 wks from sowing. Fully double flowers. Ht. 10".

9722 Coral	9723 Ivory	9724 Mix
9725 Pink	9726 Red	9727 Rose
9728 Yellow		

25sd 4.75	100sd 11.35	500sd 52.80	1000sd 97.80	5M 81.50/M
-----------	-------------	-------------	--------------	------------

**9744 Giant Dahlia Flowered Gold Medal Mix**  $\propto$  Large 4-5" semidouble flowers. Strong plants are excellent as field grown cutflowers. Ht. 3 ft. Mixture of 7 colors. Best sub for Benary's BluePoint when needed.

100 sds 1.55	500 sds 3.05	1000 sds 4.35	5 MSd 3.75/M
--------------	--------------	---------------	--------------

**9746 Inca** Large, extreme cactus-form flowers with long, spidery petals of brilliant intense orange. Unique double petal rows contrast with distinct maroon center. Ht. 3'.

100 sds 1.55	500 sds 5.15	1000 sds 8.80	5 MSd 7.00/M
--------------	--------------	---------------	--------------

**Magna Series**  $\propto$  36" tall x 12" wide; Large full double Dahlia-flowered blooms. Rich color range includes special bright green and a deep ruby red. For tall borders and specialty cutflowers in field or high tunnel.

9766 Mix

50sd 2.30	100sd 3.25	500sd 13.05	1000sd 19.80	5M 14.90/M
-----------	------------	-------------	--------------	------------

**9747 Oklahoma Mix**  $\propto$  Prolific medium size cut flower has very bright colors and is a heavy producer all season long. The 1½- 2½" flowers are double with some semi-doubles. Resistant to Powdery Mildew. Ht. 30".

100 sds 1.55	500 sds 4.65	1000 sds 8.00	5 MSd 6.55/M
--------------	--------------	---------------	--------------

**9775 Pop Art Golden & Red**  $\propto$  24"; Impressive bicolor of bright golden-yellow blooms all with bright red blotches or streaks. Medium-sized double flowers. Borders, containers or cutflower bouquets will "pop" with color.

25 sds 1.55	100 sds 2.50	500 sds 10.70	1000 sds 17.85	5 MSd 14.70/M
-------------	--------------	---------------	----------------	---------------

**Queen Series**  $\propto$  30"; specialty cut flower that produces high yields of 3" fully double blooms, with an occasional outlier or semidouble. Their sturdy stems and fade resistant colors make them outstanding cuts with a long vase life. Also performs well in large pots & knee-high gardens.

9795 Mix 9794 Lime Red 9798 Lime Orange

25sd 2.65	100sd 6.25	500sd 29.05	1000sd 53.75	5M 42.65/M
-----------	------------	-------------	--------------	------------

**9813 Short Stuff Mix F1** 10"; more dwarf than other zinnias, but still show off large, fully double blooms. Ideal for jumbo packs, pots or garden.

25sd 4.50	100sd 10.70	500sd 49.80	1000sd 92.35	5M 76.70/M
-----------	-------------	-------------	--------------	------------

**9830 State Fair Mix**  $\propto$  4 ft; Tetraploid mix. Giant flowers, extra thick stems, less susceptible to PM & Alt. Premium selected strain for professional field-grown cuts.

100 sds 1.95	500 sds 8.30	1000 sds 13.70	5 MSd 11.45/M
--------------	--------------	----------------	---------------

**Swizzle F1 Series** Vibrant bicolors are unique among dwarf zinnias. Produce a canopy of large fully double 4" flowers on dense and bushy plants. Ht. 10".

9820 Cherry & Ivory 9828 Scarlet & Yellow 9825 Mix

25sd 8.25	100sd 19.60	500sd 91.15	1000sd 168.80	5M 140.20/M
-----------	-------------	-------------	---------------	-------------

**9850 Zinnia Zowie! Yellow Flame F1** Gold with magenta centers and chocolate cone. 2' spreading to 2'. Robust spreading plants produce 4" double, bicolor flowers. Will sell.

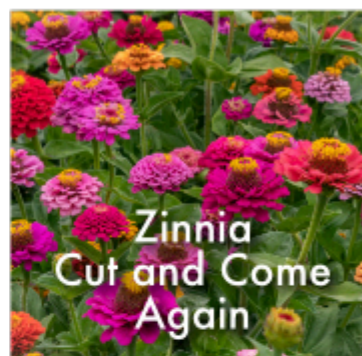
25sd 6.00	100sd 14.30	500sd 66.50	1000sd 123.15	5MSd 102.25/M
-----------	-------------	-------------	---------------	---------------

**9845 Yoga Mix**  $\propto$  Double flowers for the professional cut flower grower. Tall, unbranched flower stems with a high percentage of 6", fully double blooms. Best results sowing directly where the plants are to grow. Avoid transplanting. Ideal for growers that sell directly to the public. Ht. 3'.

100 sds 1.55	500 sds 2.20	1000 sds 3.15	5 MSd 2.45/M
--------------	--------------	---------------	--------------







FYF = First Year Flowering A = Annual P = Perennial <math>\leq</math> = Suitable for cut flower production = Suited for growing in packs for bedding plant sales

## Zinnia hybrida

A

**Profusion Series** Filmcoated. An interspecific cross results in uniform plants and long season color. Vivid 2" single blooms cover a dense bushy habit. Tolerant to powdery mildew and other Zinnia diseases. Ht. 12".

9705 Cherry

9707 Mix 9709 Red 9708 Orange  
9714 Red Yellow Bicolor 9710 White

25sd 2.60 100sd 6.15 500sd 28.40 1000sd 52.40 5M 43.70/M

**Profusion Double Series**

9711 Double Deep Salmon   
9712 Double Deep Hot Cherry   
9713 Mix

25sd 2.60 100sd 6.15 500sd 28.40 1000sd 52.40 5M 43.70/M

## Zinnia marylandica

A

**Zahara Double Series** Fully double 2.5" flowers. Dependable leaf-spot and mildew resistance. Ht. 16-20".

9840 Cherry *Intense cherry-pink.*

9843 Fire Bright, *fiery orange.*

9844 Mix

25sd 1.90 100sd 4.50 500sd 20.95 1000sd 38.80 5M 32.35/M

9833 Zahara Single Mix 12" tall x 12" wide pot, 18" tall x 18" wide gdn; Large flrs & bright colors., Tolerates disease well and needs less water. Long bloom season. Good in pots, planters, bedding.

25sd 1.90 100sd 4.55 500sd 21.15 1000sd 39.15 5M 32.65/M

9860 Zahara Starlight Rose High disease tolerance and lower water needs make this an excellent choice for a long season. Performs well in containers and gardens. Ht. 12" spreading to 18".

25sd 1.90 100sd 4.55 500sd 21.15 1000sd 39.15 5M 32.65/M

## Zinnia pumila

A

9703 Cut and Come Again Double 2½" flowers bloom on long stems making it a choice cut flower. Mixture includes scarlet, shades of pink, yellow, white. Ht. 2'.

100 sds 1.55 500 sds 4.00 1000 sds 6.85 5 MSd 4.90/M





## Wildflowers

The ideal solution for a natural look where grassy lawns cannot be maintained. Once established, wildflowers are virtually maintenance-free and increase the value of your property. Perennial wildflower mixes are also popular along highways as they return every year.

**Culture:** Prepare seed bed as you would for any garden. For large areas, use a disc. Scatter the seeds evenly on the surface of loose soil. For fine seed, it is recommended to blend with coarse sand before sowing. Rake the seeds lightly into the soil but do not cover. In dry areas, sprinkle the seed lightly. Average germ is 80-90%.

**9906 Cut Flower Mix Annual.** Approx. 692,000 seeds/lb. Composed of 16 different tall annuals with colors ranging from blue, yellow/maroon, yellow, sky blue, white, pink, red. Approx. 7 lbs./acre.

**9918 Northeastern Mix Annual.** Approx. 664,400 seeds/lb. Contains 19 varieties (9 annuals and 10 perennials) with colors including white, pink, purple, violet, blue, orange, yellow, maroon, red, and scarlet. Approx. 7 lbs./acre.

**9924 Perennial Mix Perennial.** Approx. 812,000 seeds/lb. Composed of 12 perennials with colors ranging from white, red, violet, blue, orange, maroon, pink, purple, cream, and yellow. Approx. 6 lbs./acre.

**9930 Southeastern Mix Annual.** Approx. 425,000 seeds/lb. Contains 23 varieties (13 annuals and 10 perennials) with colors ranging from white, yellow, maroon, orange, pink, crimson, purple, red, violet, scarlet and rose. Approx. 11 lbs./acre.



Cat#	Name	1/4 oz	oz	1/4 lb	1 lb	5 lb (per lb)
9906	Cut Flower Mix	1.55	3.85	12.85	43.00	37.75/lb
9918	Northeastern Mix	1.55	3.85	12.85	43.00	37.75/lb
9924	Perennial Mix	1.55	3.85	12.85	43.00	37.75/lb
9930	Southeastern Mix	1.55	3.85	12.85	43.00	37.75/lb

## Commercial Growing Supplies

### Plastic Plant Labels

Durable, flexible, unprinted white plastic labels 4" x 5/8".

9964 Pack of 200 \$18.45/each  
9986 Pack of 1,000 \$11.40/each

Please note: Otis S. Twilley Seed Company, Inc. does not offer any genetically engineered product in this catalog.

### Twist-Ems Ties

Economical, continuous handy roll for tying all plants, vines and vegetables.

Ideal for use in flower arrangements. Easy to cut to any length. 200 ft. roll.

9985 \$11.40/each

### Planting Information

1 acre - 43, 560 square feet

To determine the number of seeds to plant per acre, multiply the number of seed you intend to plant per foot by the feet of row per acre as shown in right hand column below. For example, if you plant 10 seeds per foot in rows 12 inches apart - 10 x 43,560 = 435,600 seeds.

Distance Between Rows	Ft of Row per Acre
12"	43,560
14"	37,337
16"	32,670
18"	29,040
20"	26,136
30"	17,424
40"	13,068
60"	8,712
72"	7,260

### Vegetable Sowing Guide

Vegetable	Seed Depth	Approximate Days to Germinate	Ideal Soil Temperature	Hardiness
Artichoke.....	1/2"	14-18	65-85	MH
Asparagus.....	1/2"	14-21	75-80	T
Bean, Bush/Dry/Pole/Soy.....	1"	6-9	60-90	T
Bean, Lima.....	1"	6-9	70-85	VT
Beet.....	1/2"	5-14	60-85	H
Broccoli.....	1/2"	5-10	65-85	MH
Brussels Sprouts.....	1/2"	5-10	65-85	H
Cabbage.....	1/2"	5-10	55-95	MH
Carrot.....	1/2"	12-15	60-85	H
Cauliflower.....	1/2"	5-10	55-80	MH
Celery.....	1/2"	14-21	59-70	T
Chinese Cabbage.....	1/2"	4-7	70-95	MH
Corn, Sweet.....	1"	8-12	60-95	T
Cucumber.....	1/2"	6-10	65-95	VT
Eggplant.....	1/2"	7-14	75-90	T
Gourds.....	1/2"	3-10	70-90	T
Kale/Collards.....	1/2"	5-10	65-85	VH
Kohlrabi.....	1/2"	5-10	65-85	MH
Leek.....	1/2"	5-7	60-70	MH
Lettuce.....	1/8"	4-10	40-80	H
Melon.....	1/2"	4-10	75-95	VT
Mustard.....	1/2"	5-10	65-85	MH
Okra.....	1/2"	6-14	70-90	VT
Onion/Shallots.....	1/2"	10-12	60-70	MH
Parsley.....	1/2"	14-30	50-80	VH
Parsnip.....	1/2"	15-25	55-77	VH
Pea.....	1/2"	7-14	50-75	H
Pepper.....	1/2"	10-20	68-95	VT
Pumpkin.....	1"	7-10	70-90	MH
Radish.....	1/2"	4-10	55-85	H
Rutabaga/Turnip.....	1/2"	7-14	60-95	H
Spinach.....	1/2"	4-10	45-65	VH
Summer Squash.....	1"	4-12	70-90	T
Winter Squash.....	1"	4-12	70-90	MH
Tomato.....	1/2"	6-14	60-85	T
Watermelon.....	1/2"	4-12	75-95	VT

#### Hardiness rating

VT = very tender; killed by frost; could be damaged by temperatures under 40

T = tender; killed by frost

MH = moderately hardy; survives light frosts

H = hardy; survives frost usually into the low twenties

VH = very hardy; will overwinter if protected



# Wildflower Ingredients

Mixtures may vary slightly from year to year based on production conditions.

## Cut Wildflower Mix

### Common Name

Calendula Fancy Mix  
Aster Crego Mix  
Bachelor Button Polka Dox Mix  
Shasta Daisy, Alaska  
Godetia Semi dwarf mix  
Lance Leaf Coreopsis  
Plains Coreopsis Tall  
Cosmos Sensation Mix  
Chinese Forget Me Not  
Larkspur Giant Imperial  
Purple Coneflower  
Perennial Gaillardia  
Baby's Breath  
Sunflower  
Strawflower  
Spurred Snapdragon N Lights  
Scarlet Flax  
Perennial Blue Flax  
Poppy Shirley Single Mix  
Black Eyed Susan  
Catchfly  
Marigold Crackerjack  
Crimson Clover  
Pumila Pompom

## Perennial Wildflower Mix

### Common Name

White Yarrow  
Columbine  
New England Aster  
Siberian Wallflower  
Shasta Daisy  
Lance-Leaf Coreopsis  
Sweet William  
Purple Coneflower  
Blanket flower  
Gayfeather  
Blue Flax  
Lupine  
Dwarf Evening Primrose  
Mexican Hat  
Prairie Coneflower  
Black Eyed Susan

## Northeastern Wildflower Mix

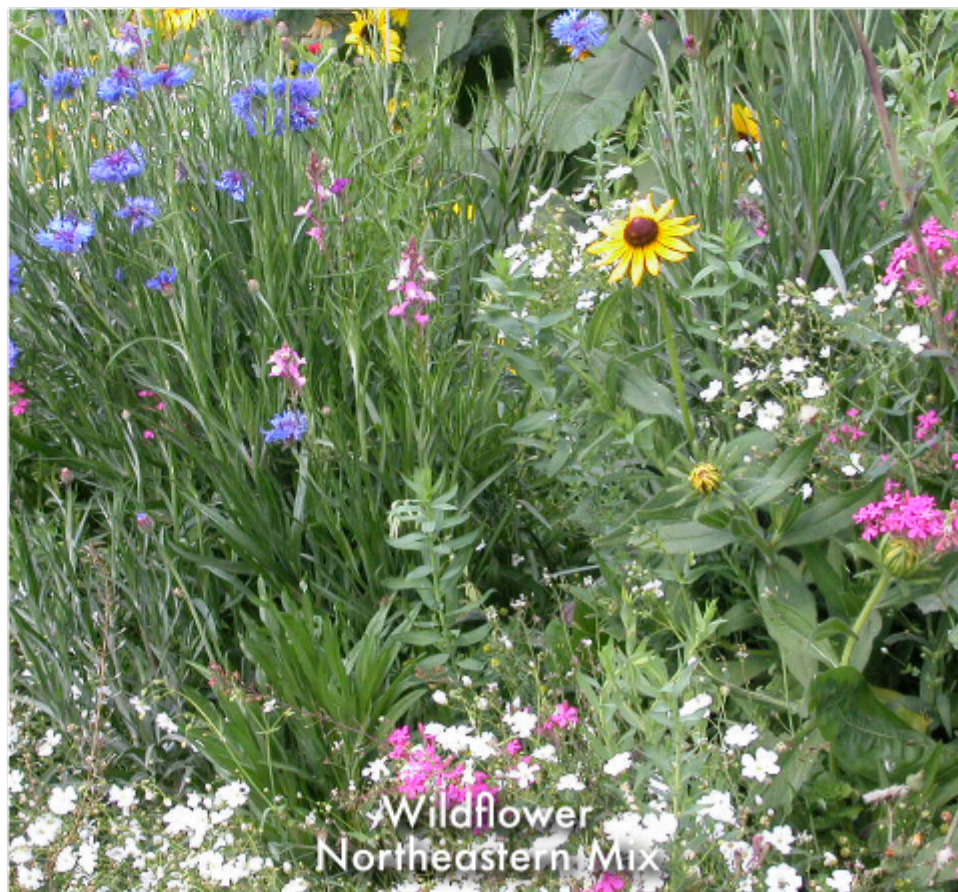
### Common Name

White Yarrow  
New England Aster  
Cornflower  
Siberian Wallflower  
Shasta Daisy  
Lance-ld Coreopsis  
Rocket Larkspur  
Sweet William  
Purple Coneflower  
Indian Blanket  
Annual Baby's Breath  
Dame's rocket  
Spurred Snapdragon  
Scarlet Flax  
Perennial Lupine  
Evening primrose  
Corn Poppy  
Black Eyed Susan  
Catchfly

## Southeastern Wildflower Mix

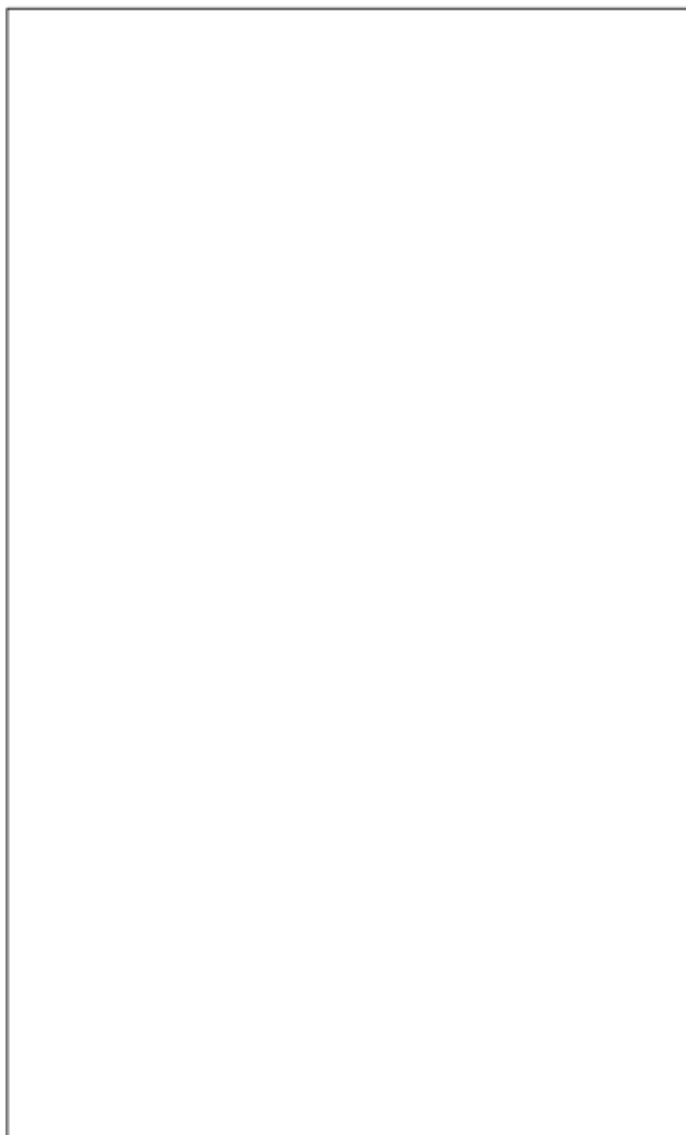
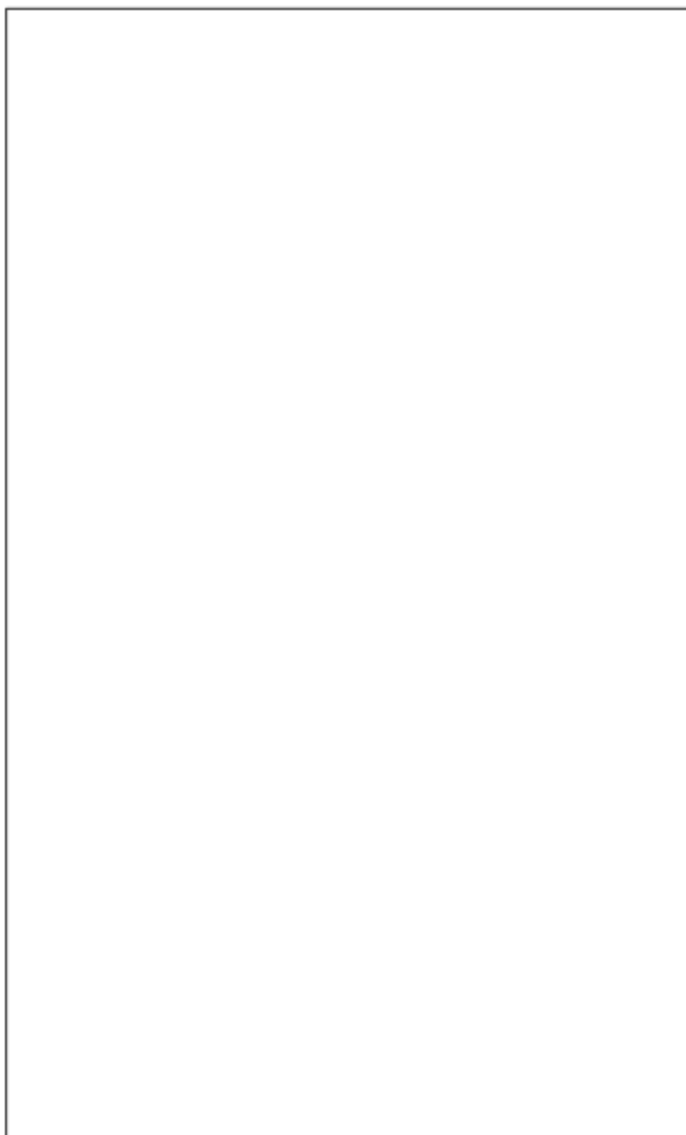
### Common Name

White Yarrow  
Plains Coreopsis  
Cornflower  
Siberian Wallflower  
Shasta Daisy  
Lance-ld Coreopsis  
Cosmos  
Larkspur  
Purple Coneflower  
California Poppy  
Indian Blanket  
Annual Baby's Breath Dame's Rocket  
Tree Mallow  
Gayfeather  
Scarlet Flax  
Sweet Alyssum  
Perennial Lupine  
Baby Blue Eyes  
Dwarf Evening Primrose  
Corn Poppy  
Annual Phlox  
Black Eyed Susan





# Discontinued Items





# Notes



## Payment Terms

- All orders are subject to the conditions of Sale. Special Notices and Terms printed on the order Blank in this catalog. Please read these and sign your order blank.
- All prices are subject to change without notice.
- If you pay by check, please make payable to Twilley Seed Co. Payable in U.S. funds only. There will be a \$35 charge on all returned checks.
- Orders being held for payment via check may be canceled after 15 days.
- Declined credit cards for insufficient funds will be charged a processing fee of \$15 per occurrence. Orders with a declined credit card will be canceled if valid payment is not received within 10 days.
- Credit accounts are due 30 days from invoice date. Interest will be charged on past due accounts at a rate of 1.5% per month (annual rate 18%).
- International orders not paid by card require payment in \$US drawn on a US bank. A \$15 fee and cost of converting currency will otherwise be charged. No back orders allowed on international orders.
- Special orders must be paid in advance. Special orders are defined as product not listed in Twilley Seed's catalog or in amounts that exceed Twilley's normal inventory needs. Customers placing special orders will be asked to sign a waiver agreeing not to cancel or return.

## Conditions of Sale

- Shipment - All shipments FOB. Twilley Seed is not responsible for shipments once they have left our facility. Due to rising package theft, all orders over \$500 will require a signature for delivery.
- Returns - Seed is non-returnable except with proper authorization from Twilley Seed Co. Returns without prior permission will not be refunded. For any return, there will be a restocking fee of \$45.
- No returns on any special purchases or opened packets.
- Discrepancies - Please inspect your order immediately upon receipt. Discrepancies must be reported within 10 days after receipt.
- **Seed is not intended for resale or re-packaging. In the event of resale and/or re-packaging seed, the Otis S. Twilley Seed Company shall not be held liable for any resulting claims.**

**There are no GMO products in this catalog.**

**All varieties have been developed using traditional breeding methods.**

*Closed New Year's Day, Memorial Day,  
July 4, Labor Day, Thanksgiving Day,  
Friday after Thanksgiving, Christmas  
Eve & Day*

## Handling Charges

If your order is: **ADD**  
Under \$100.00 ..... \$12.00  
\$100 - or more.. No Charge.  
COD- Minimum order value of \$50 is required for COD. There will be a \$50 COD fee applied.

We will ship "best way" unless a different method is specified, which may result in additional shipping charges.

Express Delivery on request; charges will be added.

Shipments outside Continental US -- including AK, HI, US Protectorates, etc. -- contact us for a quote.

Heavier weight orders requiring freight shipment will require additional charges. If a freight shipping charge is needed, we will contact you promptly.

## GROWER DISCOUNTS!

Over \$200 ..... 3%

Over \$1000 ..... 5%

***That really adds up!***

Please note the following conditions: Discount applies to any single order placed and is not cumulative over the season. Discount applies only on catalog prices. Discount does not apply to shipping charges.

*Note -- Twilley Rated Credit Accounts: Discount for charge customers is applicable only on orders which are paid within 30 days from invoice.*

## REGARDING DESCRIPTIONS

Growth characteristics such as days to maturity and fruit size will vary from location to location and season to season. The descriptions in this catalog only represent an average for each seed variety.

## REGARDING SEED TREATMENT

Many crops can be affected by serious seed-and-soil-borne diseases. Most of our vegetable seed is available treated with approved protectants to promote better seedling growth -- especially under cool, wet conditions -- and reduce the need for field application of chemicals. These efforts are not a guarantee against seed-borne or soil-borne pathogens, but do help protect against infection. We offer high quality varieties with resistance to diseases whenever they are available. Please look for these characteristics as you plan your purchases.

**Untreated Seed:** *We offer many varieties as untreated seed, and have expanded our inventory to ensure more availability to you this year -- look for highlighted catalog numbers ending with U, for example: 1234U*

® Registered Otis S. Twilley Seed Co., Inc.

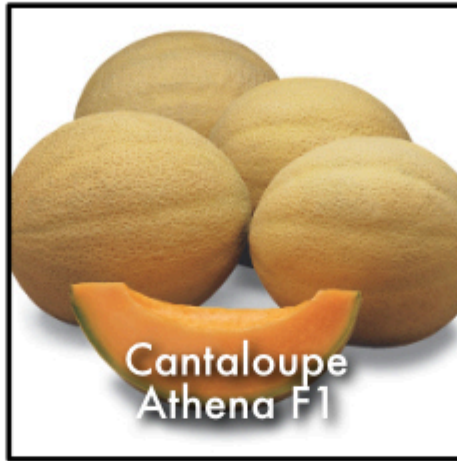
™ Trademark Otis S. Twilley Seed Co., Inc.

© 2024 Otis S. Twilley Seed Co., Inc.

All rights reserved. Printed in the U.S.A.



# Best Buys






Otis S. Twilley Seed Co., Inc.  
121 Gary Road  
Hodges, SC 29653

CHANGE SERVICE REQUESTED

PRESORTED STANDARD  
U.S. POSTAGE  
PAID  
OTIS S TWILLEY SEED CO INC



**Begonia  
Stonehedge F1**

Pg. 91

**2024 Catalog for  
Farms, Local Market and  
Bedding Plant Growers**