

# 2021

Catalog for Farms, Local Market and Bedding Plant Growers

# Grower Discounts Available

Looking for untreated seed? We offer many different varieties!

To Order Call: (800) 622-7333 • +1 (864) 227-5140 (Intil) Fax: (864) 227-5108 www.twilleyseed.com

Table of Cont  2021 AAS Winners	
Professional Seeds Series	
Planting Information	
Growing Supplies	
Order Form	
Warranties	
Artichoke	
Arugula	
Asparagus	
Beans	
Beets	
Broccoli	
Brussels Sprouts	
Cabbage	
Carrots	
Cauliflower	
Celery	
Chinese Cabbage	
Collards	
Corn, Ornamental	
Corn, Sweet	
Corn Salad	
Cowpeas	
Cucumber	
Eggplant	
Flowers	
Greens	
Gourd	
Leek	
Lettuce	
Herbs	
Kale	
Kalette	
Kohlrabi	
Melons	
Mustard	
Okra	
Onion	
Pak Choi	
Parsley	
Parsnip	
Peas	
Pepper, Hot	
Pepper, Sweet	
Potato	
Pumpkin	
Radish	
Rutabaga	
Shallots	
Soybean	
Spinach	
Squash, Summer	
Squash, Winter	
Strawberry	
Swiss Chard	
Tatsoi	
Tomato	
Tomatillo	7
Turnip	

#### 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 2021 Otis S. Twilley Seed Company catalog. On behalf of our entire staff, we thank you for your continuing trust and support.

In a year when Covid-19 has altered much, it has not changed the basic miracle that seeds can grow into healthy food and beautiful flowers. Seed feeds and enhances the world.

We invite you to enjoy reading through this year's offers. Please take note of the items marked with the symbol. We have added a wide range of vegetable varieties from Cabbage SuperStar hybrid to Watermelon Charismatic hybrid triploid. Additionally, we offer more flower and cut flower varieties than ever before.

We strive to offer the best varieties and highest quality seed available and to service your orders promptly. We wish you the very best growing success in the coming year. Thank you for the privilege of allowing us to serve you.

Sincerely, George B. Park, President

Lean Black

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.

### **On the Cover:** Pumpkin Large Marge *See pg. 55 for more information.*

#### Terms

If you pay by check, please make it payable to "Twilley Seed Co." Payable in U.S. Funds only. There will be a \$35.00 charge on all returned checks.

Credit Accounts are due net 30 days from invoice date. Interest will be charged on past due accounts at a rate of 2% per month (annual rate 24%).

Seed is non-returnable except with proper authorization from Twilley Seed Co. No returns on any special purchases or opened packets. Customers purchasing greater than \$100 in special buys will be asked to sign a "no return" waiver. There will be a restocking fee of \$30 on all returned orders.

#### Conditions of Sale

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. Seed is not intended for resale or re-packaging. In the event of resale and/or repacking seed, the Otis S. Twilley Seed Company shall not be held liable for any resulting claims, actions or proceedings.

#### Handling Charges Include in order

If your order is:	ADD
Under \$25.00	\$5.00
\$25.01 - \$99.99	\$3.00
\$100 - or more	No Charge
	U

Free shipping up to 30lbs.

Shipments outside Continental US -- including AK, HI, US Protectorates, etc. -- contact us for a quote.

Express Delivery on request; charges will be added. For fastest service use credit card and call early in the day.

#### Hours of Operation

Mon.-Fri. 8:00 a.m. - 5:00 p.m. EST Seasonal Hours (January-March) Mon.-Fri. 7:00 a.m. - 6:00 p.m. EST

Sat. 10:00 a.m. - 1:00 p.m. EST

Closed New Year's Day, Memorial Day, July 4, Labor Day, Thanksgiving Day, Friday after Thanksgiving, Christmas Eve

#### **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 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 pesticides. 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

### For helpful growing information, see page 113

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#### **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.



Large fruit produced in abundance; Greatyield potential. Resists cracking.



Performs well on stakes or trellis. Medium green, smooth, high quality fruits.



Early straightneck with solid disease resistance and precocious yellow gene.



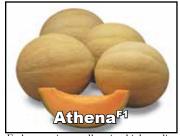
Early zucchini. Glossy deep, green fruit. Tender, firm flesh. Good yield potential. Powdery mildew tolerant.



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



Early, strong, uniform. Deep blue, firm, curly leaves hold up well when cut.



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



main-season market leader in many areas.



Upright, vigorous plants, widely adapted. Round, smooth, tangy flavored leaves.



Strong plants, widely adapted, good disease package. Large, red flavorful fruits.



extremely bright red flesh. Strong vines, High potential yield.



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



from very early stage onward. Very high yield potential.



Deep blue-green heads. Strong, sturdy plants produce well-developed root systems.

#### Choose from our Outstanding 2021 Professional Seed Series:

<u>Variety</u>	<u>Page</u>
Beet Kestrel	
Cabbage Blue Vantage Cantaloupe Athena	
Cucumber Dasher II	
Cucumber Summer Dance	28
Cucumber Sweet Success	28
Cucumber Vlasstar	29
Kale Blue Knight	36
Mustard Savanna	42
Pak Choi Joi Choi	14

<u>Variety</u>	<u>Page</u>
Onion Bunching Feast	43
Pea Sugar Sprint	46
Pea Super Sugar Snap	46
Pepper PS 09941819	47
Pumpkin Casper	
Pumpkin Corvette	57
Pumpkin Mustang	56
Squash Indian Brave	68
Squash Superpik	63
Squash Zucchini Ambassador	c 64

<u>Variety</u>	<u>Page</u>
Sweet Corn Honey 'N Pearl	20
Sweet Corn Summer Sweet® Brand Series	20-24
Sweet Corn SuperSeedWare® Brand Series	
Sweet Corn Obsession	20
Tomato Amelia	72
Tomato Celebrity	72
Tomato Mountain Merit	73
Tomato Tasti-Lee	71, 74

<u>Variety</u>	<u>Page</u>
Turnip AlamoWatermelon Kingman	
Watermelon PS 11018330	87
Watermelon Revolution	82
Watermelon Summer Flavor® Brand Series	

## 2021 NEW VARIETIES



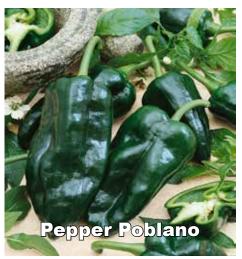
Fancy pack heads with great flavor and holding ability, both in the field and after harvest. See page 12.



Augmented supersweet bicolor. Exceptional combo of sweet flavor and tender kernels. Packed with sweet corn goodness. See page 20.



Early, bolt tolerant new leek. Strong 1" diameter shaft has potential to grow 6" or longer. See page 37.



Get ready for chilis rellenos. This is the standard, large pablano widely used in both the green and dried down stages. See page 51.



A classic large Roma with hot-set gene and outstanding disease package. Vigorous determinate vines produce firm, low-gel fruits. See page 77.



What a knock-out color. This stunning addition to the Petunia Wave family absolutely glows in the sunshine. See page 105.



Not exactly new for Twilley. We have re-added this variety because of interest in container and small space gardening. See page 46.



A new triploid with good cool-set ability. Welcome to the next generation of seedless watermelon. See page 83.



This lady is a big, round deep orange pumpkin. She doesn't even mind having wrinkles. See page 55.

## Look For this



## Symbol!



Pollen free, near white petals surround a light green-gold central disc. Perfect for specialty cutflower growers. See



A classic mid-sized pickler with crisp, deep green fruit.



This is such a good onion that we decided to add it back. Intermediate day favorite, yielding 4" jumbo globes. See



A richly-flavored butternut squash with a pumpkin-like shape. These look and taste wonderful. See page 68.



Adda "gold spark" to salads with this canary yellow grape tomato. These look and taste wonderful. See page 79.



Super broad resistance to bacterial leaf spot. Large, thick-walled fruit ripening from glossy green to bright red. See pages 47-48.

#### **Explanation of Symbols in this Catalog**



Listed for the first time in the Twilley catalog. Some of these are newly introduced



Indicates a hybrid variety



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



The "Professional Seeds 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.



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.

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.







<u>Green</u> Globe

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.

**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.

**1050U** Mascotte 50 days. Very early French Filet type bean with top-bearing trait for easy harvest of clean pods. Compact, upright habit and dense fibrous root system enables

Mascotte to bloom and bear prolifically in containers for home or greenhouse use as well as on open ground. Delicious crisp beans, very refined, long, slender and straight, with small sieve size and good 5-6". Bushy plants bearing at 10" reach about 24" at top of season with 8-10" spread. Resistant A, BCMV, HB. Fresh Mkt, Home Gdn.

	Bean Disease Codes
A	Anthracnose
ALS	Angular Leaf Spot
BBS	Bacterial Brown Spot
BCMV	Bean Common Mosaic Virus
СВ	Common Blight
ст	Curly Top
НВ	Halo Blight
R	Rust



1055 & 1055U Outlaw 55 days. Best replacement for Bean Jade. Outlaw supercedes in the breeder's program. 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.

1063 Serengeti 55 days. Very early. Long, straight, fancy fine sieve beans. Very slender, good for "baby" beans preferred for nouvelle cuisine. Excellent pod quality 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 holeds beans well above soil. Widely adapted with high yield potential.

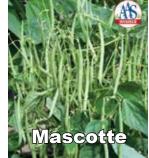
#### **Bush Green Pod Beans**

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.

1012U Bush Kentucky Wonder #125 PVP 58 days. Bush form of Kentucky Wonder pole bean. Long dark green pods 6-7" held well off the ground. Heavy yields, strong, upright plants. Resistant BCMV. Fresh Mkt.

1014 (abot 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.









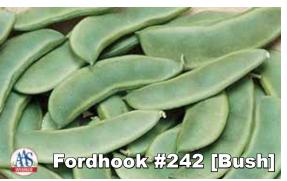


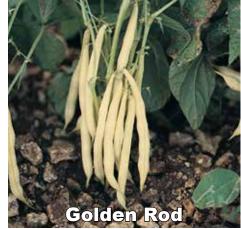


Cat#	Articho	oke	1/8 (	oz 1	oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)
2005U	Green G	lobe	1.5	5 5	5.85	19.20	33.00	60.00	55.00	51.00
2010U	Romane	SCO	2.3	5 1	4.45	47.50	83.00	145.00	134.00	124.00
Cat#	Asparagu (M=1000)	s	25 sd		100 s	d	500 sd	1000	sd	5 M (per M)
2028U	Walker Delux	e	3.20		9.70		38.75	65.	00	57.00
Cat#	Bean	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb				500 lb (per lb)
1007U	Bush Blue Lake 274	2.15	3.35	5.20	3.70	3.40	3.05	2.75	2.40	2.20
1012U	Bush Kentucky Wonder #125	2.35	3.60	5.40	3.70	3.40	3.05	2.75	2.40	2.20
Cat#	Bean (M=1000)	250 sd	500 s	d 10	00 sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)	500 M (per M)
1014	Cabot	2.65	4.15	(	6.50	5.15	4.90	4.60	4.30	4.10
1050U	Mascotte	3.40	5.30		8.35	6.60	6.30	5.90	5.55	5.30
1055 & 1	1055U Outlaw	2.35	3.65	!	5.35	3.85	3.65	3.40	3.15	2.95
1063	Serengeti	2.90	4.55		7.15	5.35	5.10	4.75	4.40	4.15









#### More Bush Green Pods

**1045 Kentucky Dreumer** 54 days. Improved Bush Kentucky Wonder #125 type. Concentrated pod set high on plant. Flat, medium green 6" x ½" pods. Very upright 17" plants. Good for fresh market and shipping due to low fiber. White seeded. Resistant BCMV¹. Fresh Mkt, Shipping.

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.

**1057 Roma II** 59 days. Bush form of the well-known Romano pole, with the same delicious flavor. Italian-type, flat green pods to 4½" produce white seeds. Sturdy Plant Resist BCMV. Tolerant R. Fresh Mkt, Shipping.

#### **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.

Cat#	Bean	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb			100 lb (per lb)	500 lb (per lb)
1045	Kentucky Dreamer	2.35	3.60	5.25	3.50	3.20	2.85	2.55	2.25	2.05
1081U	Fordhook #242	2.65	4.10	6.40	5.05	4.60	4.15	3.70	3.25	3.00
1086U	Henderson Bush	2.30	3.55	5.50	3.60	3.30	2.95	2.65	2.30	2.15
1091U	King Of The Garden	3.55	5.50	8.55	6.70	6.15	5.55	4.90	4.30	4.00
1053	Orient Wonder	33.25	52.75	84.55	68.40	53.90	40.45			
1110	Kentucky Blue	6.05	9.30	14.50	11.40	10.45	9.40	8.35	7.30	6.75
1057	Roma II	2.20	3.40	5.25	3.70	3.40	3.05	2.75	2.40	2.20
1062U	Royal Burgundy	3.20	4.90	7.65	4.55	4.20	3.75	3.35	2.90	2.70
Cat#	Bean (M=1000)	250 s	d 500 s	sd 100	00 sd	5 M (per M)	25 M (per M)	<b>50 M</b> (per M)	100 M (per M)	500 M (per M)
1118U	Seychelles	5.60	8.6	5 1	4.50	12.60	11.35	10.65	10.00	9.45
1143	Golden Rod	3.00	4.70	0 7	7.35	5.35	5.05	4.80	4.50	4.25
Cat#	Soyb	ean	1/4	lb 1	/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)	50 lb (per lb)
1327U	Chiba (	Green	12.	00 1	8.50	30.40	26.20	22.00	21.00	20.00



#### **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.

**10910** 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.

#### **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-crispy. 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.

#### Soybean (Edamame)

**1327U** Chiba Green Early maturing: 60-65 days in South with long daylength, 75-80 days in north with short daylength. About a week earlier than Midori Giant. Upright for easy harvest. Branching 2-3' plants spreading to 12". Deep green mostly 3-seeded pods. About 1300 seeds per lb. Widely adapted across US. Capable of large yields.

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







#### 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/-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**

**2058 Folcon** <sup>Fl</sup> 55-70 days for 2-2½" bunching size, 80-85 days for 3-4" jumbos. Fast grower, very heat tolerant, excellent vigor, medium top. Forms a solid blocky root with small tap and medium crown. Strong solid red color inside and out. Potential for excellent yield. Fresh Mkt, Processing..

**2061U** Fresh Sturt <sup>F1</sup> 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 <sup>FI</sup> 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. High Tolerance CLS. Medium Tolerance DM, PM, RZ. Fresh Mkt, Baby Beets, Processing.

 $2075\ Merlin^{F1}$ 55 days. Solid dark red interior resists zoning even in adverse hot weather. Bright red stms 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 & 2085U** Red Ace FI 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.

**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 Chioggio 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 1½". Fresh Mkt.

**2050U** Detroit Durk 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. Medium Tolerant DM. Bunching, Fresh Mkt.

**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 roots that are white w' white stem, golden w' golden stem, ringed red/white with rose tinted stem, ringed rose/carmine with red stem & purple foliage, as well as the traditional deep beet red, with deep purple stem & foliage. Delicious sweet roots. Stem & leaf can be used as greens like chard. Fresh Mkt, Edible Ornamental, Container Sales.

**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
CLS	Cercospora Leaf Spot
DM	Downy Mildew
PM	Powdery Mildew
RZ	Rhizoctonia

Cat#	Beet	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)
2040U	Burpee Golden	1.65	6.75	23.15	39.90	71.25	65.15	60.90
2043U	Chioggia	1.95	3.40	11.75	20.30	36.25	33.25	30.75
2045U	Cylindra	1.85	3.35	5.75	8.70	15.15	12.35	9.75
2050U	Detroit Dark Red Medium Top	1.65	3.30	4.60	7.95	14.15	13.00	12.15
2053U	Detroit Golden	1.65	6.55	22.40	38.65	69.00	63.15	59.00
2055	Detroit Supreme	1.65	2.95	5.40	9.35	16.95	15.50	14.50
2060U	Green Top Bunching	1.60	2.25	6.15	9.15	16.40	15.00	14.00
Cat#	Beet (M=1000)	200 sd	1000 sd	10 M (per M)	<b>50 M</b> (per M)	100 M (per M)	500 M (per M)	1000 M (per M)

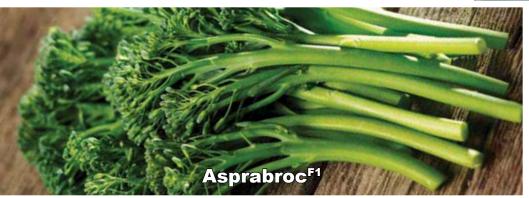
Cat#	Beet (M=1000)	200 sd	1000 sd	10 M (per M)	50 M (per M)	100 M (per M)	500 M (per M)	1000 M (per M)
2035	Avalanche	1.55	5.85	4.70	4.00	3.55	3.25	
2058	Falcon	1.60	2.00	1.60	1.30	1.20	1.10	1.05
2061U	Fresh Start	1.45	1.15	0.88	0.71	0.65	0.59	
2065	Kestrel	1.60	2.05	1.60	1.30	1.20	1.10	1.05
2075	Merlin	1.60	2.25	1.80	1.35	1.25	1.20	1.10
2084	Rainbow Mix	1.70	4.70	2.50	1.80	1.65	1.45	1.30
2085	Red Ace	1.65	2.00	1.60	1.30	1.20	1.10	1.10
2090	Red Cloud	1.60	2.90	2.30	1.85	1.75	1.60	1.55
2099	Touchstone Gold	2.25	8.70	7.15	6.15	5.50	5.00	4.70











#### Broccoli

Destiny<sup>F1</sup>

(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 agreement. Please call for information. early replacement. 10-14 days after crown harvest, aggressive side shooting yields high volume of broccoli bouquets which continues unfavorable. If only shoots are desired, the crown can be pinched beads at the tip.

104U Aspabroc  $^{\text{Fl}}$  50-60 days. You may have seen this type in the produce section at grocery stores recently. Thin tender, asparaguslike 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

2106 Burney F 65-70 days. Warm weather tolerant. Part of the Eastover a prolonged period, usually until growing conditions become ern Broccoli Project. 5-6" domed heads for premium crown cuts. Crops in spring, late summer or fall. Mid green heads, uniform meat 1" diam at 40-45 days from transplant, with side shoots coming dium bead. Large frame plant about 24-30". Resists purpling under in 10-14 days and onward. The entire side shoot is delicious as stress. Dense heads promote high pack-out weight. Consistent in broccoli bouquet from its long stem to the compact clusters of fine trials all over the eastern US including Georgia and other high temp areas. Crown and bunching mkts.

Broccoli 5 M 10 M 50 M 100 M Cat# 100 sd 1000 sd (M=1000)(per M) (per M) (per M) (per M) 2103 ArtWork 3.15 23.85 19.15 14.20 12.75 11.50 2104U Aspabroc 3.85 34.25 34.10 33.92 2106 Burney 1.95 15.50 12.40 10.05 8.85 7.80 2108 Castle Dome 2.00 16.35 13.15 8.95 8.15 7.25 2120 Destiny 1.85 13.65 10.95 8.50 7.65 6.90 2130 **Emerald Jewel** 2.15 14.15 11.35 8.80 7.95 7.15

2108 Castle Dome Fl 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 Fl 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.

#### 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 arow 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.

This year, Twilley Seed is pleased to offer two varieties which have proven themselves in the Eastern Broccoli Project:

Look for Broccoli Burney and Broccoli Lieutenant hybrids to grow for local market.



#### **More Broccoli**

2132U Green Magic Fl 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 Fl 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**  $^{\mathsf{F1}}$  75 days. Deep, dome-shaped heads, small beads, and vigorous plants. Tolerant BLS, BR, DM, HS. Fresh Mkt, Processing.

2142 Maximo Fl 64-74 days. High potential yield and weight. Dome shaped blue-green heads with small beads. Mid-tall plants with 24" top length have short-branching habit, great for bunching and cut processing. Excellent replacement for Premium Crop when needed. Tolerant DM. Fresh Mkt, Bunching, Processing.

#### Broccoli Raab

(Brassica Rapa, Ruvo Group)

Approx. 9,000 seeds/oz. 1/4 oz sows 100' of row. Direct-sow 2 lbs/acre. Sow seeds 1/4" deep in rows 21/2-3' 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**

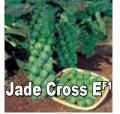
(Brassica oleracea, Gemmifera Group)

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. 1-11/4" 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  $^{\mbox{\scriptsize Fl}}$  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.

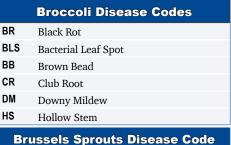




**2203U** lgor Fl Main season 180 day variety for fall, winter & overwintering schedules. High yield potential. Uniform stems & sprouts. Stems are very broad, about 32" and bear abundant 1"-11/2" sprouts, nicely spaced for clean development, borne mostly from about 6" above ground on up, for less soil-splash. Sprouts are uniform, deep green, firm, smooth and round. Healthy plants, very robust against frost. Easy to pick, recommended for hand harvest of refined high quality sprouts. Fresh Mkt, Processing.

**2204 Jade Cross** <sup>Fl</sup> 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.

**2209 Jude Cross E**<sup>FI</sup> 90 days. Popular Jade Cross type but with Extra disease tolerance. Vigorous stalks packed tight with high yield of firm, deep green, well wrapped sprouts. Early maturing, can be sown later than other varieties and still mature well in early frosts. Compact stalks less subject to wind damage or lodging. We suggest topping plants 3 weeks before harvest.



Fusarium Yellows

Cat#	Broccoli Raab	1/16 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
2177U	Spring Sprouting	1.75	2.50	8.55	14.45	25.50	23.35

Cat#	Broccoli (M=1000)	100 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
2132U	Green Magic	1.75	12.70	10.20	8.25	7.45	6.70
2135U	Gypsy	1.50	11.75	9.45	7.65	6.90	6.20
2138	Lieutenant	2.15	16.65	13.40	8.95	8.15	7.30
2140	Marathon	1.80	11.65	9.35	7.10	6.45	5.80
2142	Maximo	1.65	11 50	9.20	6.80	6.15	5.50

Cat#	Brussels Sprouts (M=1000)	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	<b>50 M</b> (per M)
2192	Confidant	4.90	18.55	29.65	25.00	22.00	20.15
2206	Hestia	5.95	22.40	36.25	27.75	23.15	22.00
2203U	lgor	4.00	15.30	24.65	20.50	18.15	16.65
2209	Jade Cross E	1.85	6.15	9.80	8.30	6.55	6.30
2204	Jade Cross	2.00	7 30	11.85	10.00	8 80	8.00





















#### Cabbage

(Brassica oleracea, Capitata Group)

About 5000-9000sd/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** <sup>FI</sup> 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 Fost Vantage** F 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 or cooked, shipping.

**2259 Kuturinu** Fl 45 days. Very sweet, crisp, early, and mild, with much less bitterness than comparisons. Small tight 4" heads for baby cabbage that make 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  $3\frac{1}{2}$  lb heads. Widely adapted. Tolerant FY. Fresh Mkt.

2348 Stonehead  $^{\rm FI}$  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** <sup>F1</sup> 67-80 days. Ball head type. Deep blue-green heads weigh 3½-4 lbs and 6¾"size with short core on medium plants. Strong, sturdy plants produce well-developed root systems which help withstand moisture fluctuations. Resistant BSP, FY, TB, Tolerant BR. Fresh Mkt, Shipping.

**2225 Bobcut** <sup>F1</sup> 80 days. Blue-green. Excellent disease package. Round heads to 4-6 lbs. Very solid with short core, holds well in field. High disease rating can allow for high consistent yield potential. Resistant FY¹. Tolerant AL, BR. BSP, TB, TT. Fresh Mkt, Shipping, Shredding.

**2252 Greenboy** <sup>FI</sup> 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 mkts. Noted for excellent performance under stress from heat and rain. Resistant FY¹. Fresh Mkt, Shipping.

**2360** SuperStur<sup>F1</sup> 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 across from main mkt. Resistant Fy1, Tolerant BR Fresh mkt, Shipping, Processing.

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

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

Cat#	(M=1000)	100 sd	500 sd	1000 sd	5 IVI (per M)	(per M)	(per M)	100 M (per M)
2259	Katarina	2.45	9.65	15.30	12.25	11.30	10.35	9.50
Cat#	Cabbage (M=1000)	200 so	d 1000					100 M (per M)
2219	Blue Vantage	2.05	8.0	05 6.	.45 5	5.20	4.75	4.30
2225	Bobcat	2.15	8.2	25 6.	.55 5	5.05	4.60	4.15
2229	Charmant	2.45	9.4	45 7.	.60 6	5.15	5.60	5.05
2233	Fast Vantage	2.45	9.4	45 7.	.60 6	5.15	5.60	5.05
2241	Gallican	2.70	10.	80 8.	.65 7	7.00	6.20	5.45
2252	Greenboy	2.55	9.7	70 7.	.75 5	5.45	4.95	4.50
2274	OS Cross	1.85	7.3	30 5.	.85 4	1.70	4.30	3.90
2284	Quick Start	1.95	7.7	70 6.	.15 5	5.00	4.55	4.10
2348	Stonehead	2.45	9.8	30 7.	.85 5	5.55	5.05	4.60
2360	SuperStar	3.15	12.	45 10	.00 8	3.10	7.35	6.65



#### **More Cabbage**

#### **Midlate Green**

**2256 Gunmo** <sup>F1</sup> 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 Horvest Mist** <sup>FI</sup> 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.

2362 & 2362U Vantage Point FI 82 days. Large, dense, dark bluegreen heads have good market appeal. Produces 3½-5 lb. heads in standard growing season. Capable of extra-large 5-10 lb. heads when grown successfully into late season. Resistant FY. Tolerant TB. Fresh Mkt, Kraut.

#### Red

 $\bf 2287 \ Red \ Dynosty^{Fl}$ 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. Fresh Mkt, Processing.

2289 Red Jewel<sup>F1</sup> 67-75 days. Midseason producer of deep ruby red heads, well filled and full colored, with short core, 6", weighing about 3 lb. Fine shape, color, solidity and uniform maturity. Semi open frame, good wrapper protection. Erect plant type holds well above soil splash. Uniform maturity. Best available replacement for Red Rookie. Fresh Mkt, Fresh Cut Mkt.





**2309 Ruby King** <sup>F1</sup> 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.

**2314 Ruby Perfection** <sup>F1</sup> 80 days. Deepest red color. Very attractive deep red, oval, large 3-4 lb heads. Large-framed, vigorous, uniform plants. Excellent interiors.

**2358 Super Red 115** <sup>FI</sup> 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 FY¹, TT. Fresh Mkt, Storage.

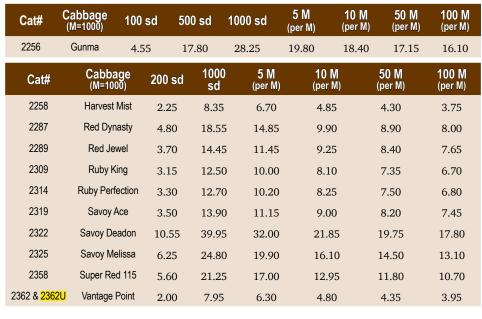
#### Savoy

2319 Sovoy Ace F 78 days. Fine quality main season savoy heads of good deep green color; uniform, rounded, averaging 3½ lbs. Excellent interiors; attractive, sold as cut halves in shrink wrap. Medium-sized plants. Adapted to all areas.

**2322 Deadon** <sup>FI</sup> 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 <sup>F1</sup> 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.

Beira Tronchuda listed on page 37





















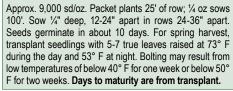








(Brassica rapa, Pekinensis Group) 👝 🛨



**2695 China King**  $^{\rm Fl}$  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.

**2718 Optiko ^{\mathsf{Fl}}** 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.

# Apollo

#### Michihili Type **Narrow Cylindrical Shape**

2713 Monument  $^{\rm Fl}$  80 days. Strong, vigorous 18" plants produce long, uniform, dense, cylindrical heads with deeper green outer color, white interiors. Tolerant BSP.

2707 Green Rocket  $^{\rm Fl}$  70 days. Early variety with bright green crispy leaves; very tall with heads weighing 4.4%lb. Notably long shelf life. Recommended for fall to winter harvest. Fresh Mkt, Shipping.



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.



 $\bf 2688~Apollo~^{Fl}~65~days.$  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 Fl 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

**2740 Joi Choi** Fl 55 days. Extremely well adapted to fall and winter planting. Highly adaptable for hydro-ponic. 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** Fl 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.

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



Optiko<sup>F1</sup>



Cat#	Chinese Cabbage (M=1000)	200 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
2688	Apollo	1.65	3.90	3.15	2.55	2.30	2.10
2728	Asian Delight	1.45	5.70	4.60	3.70	3.25	2.90
2693 & <mark>2693U</mark>	Blues	1.60	4.35	3.35	2.60	2.35	2.15
2695	China King	2.25	8.40	6.75	5.35	4.85	4.40
2707	Green Rocket	1.75	3.55	2.85	2.30	2.10	1.90
2740	Joi Choi	1.70	5.90	4.70	3.70	3.35	3.05
2713	Monument	1.60	3.65	2.95	2.35	2.15	1.95
2745	Mei Qing Choi	1.65	6.25	5.00	3.70	3.35	3.05
2748U	New Nabai	1.55	2.25	1.80	1.55	1.35	1.25
2718	Optiko	2.30	8.20	6.55	5.15	4.55	4.00

pure white petioles. Fresh Mkt.						
Chines	se Cabbage Disease Codes					
AL	Alternaria Leaf Spot					
BR	Black Rot					
BSP	Black Speck					
BSR	Bacterial Soft Rot					
CR	Club Root					
DM	Downy Mildew					
ТВ	Tip Burn					
YR or YT	Yellow Resistant or Tolerant					

## **Tall Utah Improved**

#### Carrots (Daucus carota sativus)

Approx. 23,000 sd/oz. Pkt plants 30 ft. of row; 1/2 oz sows 100 ft. Direct-sow 2-4 lbs/acre. Sow seeds 1/2" 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 roots have well colored cores, avg 6-8" (about 1" longer than Danvers). Heat-resistant tops. Fresh Mkt, Storage.

#### **Imperator Types**

2535 Deep Purple<sup>FI</sup> 80-90 Days. Dark purple color to the core. Sweet flavor, well suited to juicing. 7-8" tapered roots. Tall strong healthy tops. Medium Resistant CS. Fresh mkt, Juicing, Specialty.

**2550 Neptune** Fl 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 Fl 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.

2588 Yellowstone 90 days. Bright yellow eye appeal.  $10\frac{1}{2}$ x 11/2" tapered roots, sweet and crispy. Extra interest for salad. Novelty color carrot market. Restaurant, Roadside.

#### **Baby Nantes Types**

2523 Adelaide  $^{\rm Fl}$  65 days. Perfect for the baby carrot mkt. 3½" x ¾" cylindrical, short, smooth, blunt roots. Interior is bright orange and coreless. Tops are 6". Fresh "Baby" Mkt and Home Garden.

**2549U** Little Finger 50-68 days. OP. Baby nantes type. Roots color quickly, can be pulled early at 3" x ½". 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  $^{\text{Fl}}$  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 Fuerte<sup>F1</sup> 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 11/2" at tip to 21/2" 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 FI 70-75 days. 8" x 11/4". 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

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



#### 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**<sup>FI</sup> 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.

**2673 Starlet** 120 days. OP The first Tall Utah type to show excellent tolerance to Fusarium Wilt; slower to bolt than Tall Utah. Plants produce compact, full hearted stalks of high mkt quality with long, smooth, medium dark green ribs. Plants 25-27" tall with few basal buds. Tolerant Fusarium1.2. Fresh Mkt.

**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











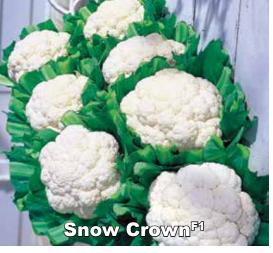


Cat#	Carrot	1/8 oz	1 oz	1/4 lb	1 lb	5 lb (per lb)	25 lb (per lb)
2533U	Danvers #126 Improved	1.60	2.70	4.65	15.65	14.00	12.80
2549U	Little Finger	1.65	2.80	9.25	31.25	27.75	25.50
2568U	Scarlet Nantes	1.55	2.40	4.55	15.30	13.65	12.45

Cat#	Carrot (M=1000)	500 sd	2500 sd	10 M (per M)	50 M (per M)	100 M (per M)	500 M (per M)
2523	Adelaide	2.00	4.60	1.55	1.25	1.00	0.90
2535	Deep Purple	1.85	7.00	2.15	1.90	1.70	1.55
2538	Envy	1.60	4.70	1.50	1.00	0.85	0.75
2540	Fuerte	2.55	9.75	3.15	2.70	2.30	2.15
2543 & <mark>2543U</mark>	Ingot	1.60	2.00	0.65	0.55	0.50	0.45
2550	Neptune	1.60	2.00	0.65	0.55	0.50	0.45
2566	Rainbow	2.45	9.30	2.85	2.50	2.25	2.00
2588	Yellowstone	2.00	5.00	1.65	1.25	1.15	0.95

Cat#	Celery	1/32 OZ	1/2 OZ	1 OZ	1/4 ID	1/2 ID	1 ID	(per lb)
2678U	Tall Utah Improved	1.95	3.35	5.55	9.00	15.65	24.55	23.40
Cat#	Celery	500 c	-d	1000 cd	5 M	1	0 M	50 M

	Jaim	(M=1000)	300 3u	1000 30	(per M)	(per M)	(per M)
2	2665	Hadrian TZ 9077	7.90	11.90	9.52	7.98	7.00
2	2673	Starlet	2.25	3.40	2.70	2.30	2.00











(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 Boby** <sup>FI</sup> 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.

**2613 Condid Charm** <sup>F1</sup> 65 days. Best in cool areas for summer harvest. Large, deep dome-shaped curds 7-9" are pure-white and uniform in maturity. Very heavy yields. Excellent quality, non-ricey, long holding ability without purple cast. Vigorous, semi-upright plants have large, dark green leaves which cover heads well. Fresh Mkt, Processing.

2623 Cheddor FI 68 days. Unique orange heads are uniform, smooth and well domed. Weight and firmness is similar to white varieties, but it 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** 60 days. Heat tolerant. Special type produces long, slender florets in great abundance. Bright green stems grow to near uniform 5" length, 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.







**2638 Groffiti** <sup>FI</sup> 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.

**2635** Multi-Head White <sup>FI</sup> 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.

2653 Snow (rown<sup>51</sup> 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** <sup>FI</sup> 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 <b>M</b> (per M)	10 M (per M)	<b>50 M</b> (per M)	100 M (per M)
2608	Amazing	2.70	20.00	16.25	11.75	11.15	10.80
2613	Candid Charm	2.60	20.70	16.60	12.30	11.65	10.95
2630	Fujiyama	1.60	11.90	9.60	8.15	7.20	6.60
2653	Snow Crown	2.35	17.60	14.10	11.40	10.85	10.35
2654	Steady	3.40	25.45	20.40	14.50	13.00	11.75
Cat#	Cauliflower (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)
<b>Cat#</b> 2610		<b>25 sd</b> 2.65	100 sd 7.80	500 sd 31.20	1000 sd 45.00		
	(M=1000)					(per M)	(per M)
2610	(M=1000) Baby	2.65	7.80	31.20	45.00	(per M) 40.65	(per M) 36.60
2610 2623	(M=1000) Baby Cheddar	2.65 5.00	7.80 15.55	31.20 62.20	45.00 86.30	(per M) 40.65 77.90	(per M) 36.60 70.15



#### **Collards**

(Brassica oleracea, Acephala Group)

Approx. 9,000 seeds/oz. Pkt plants 25 ft. of row;  $\frac{1}{4}$  oz sows 100 ft. Direct-sow 2-4 lbs/acre. Sow seeds thinly,  $\frac{1}{4}$ " deep 12-24" apart in rows 24-36" apart. Seeds germinate in about 10 days. **Days to maturity are from sowing.** 

**2777** Flash <sup>F1</sup> 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.

**2782 Georgia Southern** 80 days. Well adapted to all areas; performs well under adverse conditions or poor soil. Plants reach about 3' in height. Upright, large, blue-green leaves on non-heading plants. Fresh Mkt, Roadside, Processing, Gdn.

**2789** Hi-Crop Fl 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.





**2792U** 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.

**2798 Top Bunch 2.0** <sup>Fl</sup> 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 TopBunch. Fresh Mkt, bunching machine harvest/processing

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

Cat#	Collard	1/16 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)	50 lb (per lb)
2782	Georgia Southern	1.60	2.15	3.00	4.00	6.60	6.20	5.85	5.55
2802	Vates	2.35	2.80	2.95	5.15	9.35	8.65	8.20	7.85
Cat#	Collard	1/32 oz	: 1	/4 oz	1 oz		1/4 lb	1/2 lb	1 lb
2777	Flash	2.70		15.00	37.15		86.85	155.00	277.95
2798	Top Bunch 2.0	1.65		9.90	26.50		89.35	159.45	285.95
Cat#	Collard	1 oz	1/4	4 lb	1/2 lb	1	lb	5 lb (per lb)	25 lb (per lb)
2792U	Morris Heading	1.95	3.	00	4.60	7.	.35	6.60	6.00
Cat#	Collard (M=1000)	100 sd	500	sd '	1000 sd	5 N (per		<b>10 M</b> per M)	<b>50 M</b> (per M)
2789	Hi-Crop	1.85	2.8	5	4.60	3.7	0	3.35	2.95





# Sweet Corn... A Taste of Summer Sunshine

#### Avalon<sup>F1</sup>

#### **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.

Fax: 864-227-5108

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 Synergystic 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>
SuperSeedWare®	Breakthrough improvement of sh2 type; non-GMO. Plump, smooth, high-vigor kernels in a Super Sweet Corn. Can be sown earlier and grown more easily, like old-fashioned corns. <b>Isolation required.</b>
\$TAYS CHEREEN OF SRG®	Thicker foliage that stays deep green all the way to harvest. Extra ear protection from broad, healthy flag leaf, stronger photosynthesis, extra market appeal.
HG <sub>LOW</sub>	Bright glossy pericarp that gives eye catching kernel color at market and on the table.



SSW® is a new and exciting breakthrough in super-sweet corn genetics. Developed and patented by Abbott & Cobb, SSW® 's are 100% natural. They have notably enhanced performance even with early plantings in colder or wetter soil. Growers can expect strong stalk and root systems, early maturity, better disease tolerance and high yields. SSW<sup>®</sup> 's also have dramatically improved seed storage and shelf life. Patent No.'s: 8,796,504 and 8,822,756 and 6,184,438.



#### Moisture Level and Soil Temperature

Tests have shown best emergence with normal or slightly above normal moisture. Be sure to provide adequate moisture, but avoid over watering. Sweet corn tends not to germinate below 45° Fahrenheit; however, SSW® shows improved vigor and uniformity at lower temperatures as compared to ordinary sh<sup>2</sup> varieties.

#### Fuller, More Durable Seeds!

#### Proper Handling and Storage

than conventional sh<sup>2</sup>s. However, in order to ensure best results, avoid rough handling and excessive agitation prior to planting. As with all seed, store any unused seed in sealed containers in a cool, dry storage area to ensure maximum shelf life and viability.

#### **Uniform Growth!**



#### Isolation

For best possible appearance, maximum eating quality, and longest shelf life for 100% of the kernels, SSW®'s should be isolated from cross pollination by other corn types. The usual practices, using maturity, sowing dates or physical isolation, would apply.



#### Stronger Stalks!

Plant Populations

SSW®'s have very high germ rates and will likely establish a population close to the sown quantity. It is important NOT to sow seed too close together, as this may result in crowded stands, smaller or misshapen ears, and lower yield.

Sweet corn varieties with the Stays Rich Green, or SRG®, characteristics have extra dark green plants and husks, as well as thicker leaves that stay dark green even beyond full ear maturity and enhanced emergence

and vigor. SRG®'s harvested ears maintain a rich green appearance and hold better for fresh market and retail displays, making them much more appealing to consumers.



HiGlow® and MultiGlow® sweet corns have really intense HGLOW and distinct color that gives the variety a very "fresh picked" look. They also have a longer harvest window --

holding color, kernel appearance and sweetness both on and off the plant for a greater length of time. MultiGlow® corns have a combination of Multi-Sweet® eating quality and HiGlow® kernel color.

### **Seed Density and Appearance**

SSW®'s are denser than sh2 seeds, and do not show defined dents, wrinkles, or dimples. They are heavier, sturdier, with smoother coats, and SSW® seed is denser and less susceptible to physical damage are easier to handle than conventional sh²

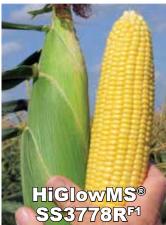
#### More Corn Flavor!





Early Riser<sup>F1</sup>

Packout<sup>F1</sup>













STAYSRICHGREEN











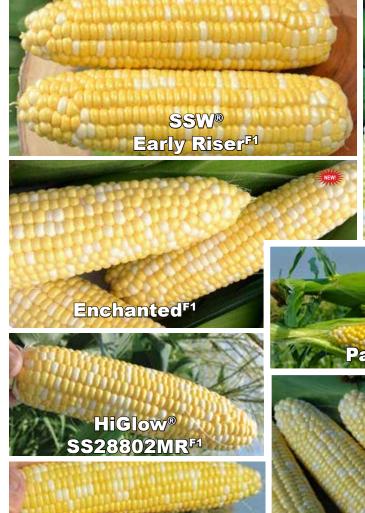
HGow to SuperSeedWare® Summer Sweet® and symbols are registered trademarks of Abbott & Cobb, Inc.

All varieties in the SuperSeedWare® and Summer Sweet® series are also part of our Professional Seeds Series

W	SSW	SSW	9	MOTESON. STATE
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Bicolor	Days	Ear Size	Kernel Rows	Height	Disease	Description
SSW® ( T T T T T T T T T T T T T T T T T T						
1590 Summer Sweet® Bicolor Early Riser <sup>F1</sup>	68	7.5"	14-16	6'	Tolerant NCLB	68 days. Great combination of earliness and SSW seed vigor make this a good one to test for early mkt slots. Large 7.5" blunt-tipped cylindrical ears. 14-16 rows of big kernels with great tip-fill. Strong bicolor kernel contrast, bright white on deep golden yellow. Mid size plant. Good husk protection, strong flags. SuperSweet.
1474 Packout F1 Twilden HGow	78	8.25"	16-18	6'	Tolerant CR, NCLB, SCLB	Outstanding main season bicolor. Ears carried 32" above ground. Deep green husks, flags and leaves provide excellent protection.
1677 Summer SWeet® HiGlow® SS28802MR F1	81	1.9" diameter	16	6'	Resistant CR; Tolerant NCLB, SCLB, SW	High vigor emergence. Avg ear height 30"; deep kernels; attractive husk with deep green, thick leaves. Superior flavor and appearance. Fresh Mkt, Roadside, Shipping, Cello.
1695 Summer SWeet® Multisweet® SSW2742 F1 HGW	75 <b>**</b>	7.5" - 8"	16-18	6.5'	Resistant CR: Rp1, G1; Tolerant NCLB	Plenty of extras. The brilliance of HiGlow® makes the color contrast really pop. Strong stalks. Uniform vigor. Fresh Mkt, Shipping, Cello.
Sh <sup>2</sup>						
1378 American Dream F1	77	7"-7.5"	16-18	6'	Tolerant NCLB	Earned high marks in nationwide trials. Tender kernels, wonderful flavor, excellent tip fill.
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 flags with medium short shank. Fresh Mkt, Shipping.
1401 Enchanted <sup>F1</sup>	78	8" x 2" diameter	18-20		Tolerant CR, NCLB, SW	78 days. Augmented supersweet. Combines sh2, se and su genes for exceptional combo of sweet flavor, tender kernels and strong seed vigor and emergence. High yield potential. Fully filled ears 8" long x 2" diam packed with18-20 even rows of plump bicolored kernels. Uniform stalks with 31" ear ht for easy picking. Easy to pack with great holding power from field to consumer.
1419 Honey 'N Pearl <sup>F1</sup>	78	9"	16-18			An industry standard. Super sweet type with excellent holding ability. Great tip-fill. Nice straight rows of flavorful shiny yellow and white kernels. Fresh Mkt, Shipping, Processing.
1448 Kickoff XRF1	69	8" x 2" diameter	16-18	6'	Resistant CR, NCLB	69 days. Xtra-Tender gene combo for super eating quality and seed- ling vigor. Ear size avg 8' x 2" diam. Excellent ear size for a first-early. Deep green husk and robust flag leaves provide good ear protection. 6 ft stalks bear hefty ears 28" high for clean & easy harvest. 16-18 rows of plump, deep tender kernels. Quick emergence & large ears provide potential for very high yields.
1480 Obsession F1	79	8.5" x 1.7"	18-20		Resistant CR; Tolerant NCLB, SW	Sweet, creamy and tender due to sh2 + se combination. Avg. ear height 24". Fresh Mkt, Roadside, Shipping.
1506 Signature XR <sup>F1</sup>	72	8" x 1.9" diameter	16-18	6.5'	Resistant CR	72 days. New-generation breeding from Illinois Foundation, specially selected for the very best of tender and sweet eating. Excellent husk protection and holding ability in field. Large ears avg 8" x 1.9" diam with 16-18 well packed kernel rows and great tip fill. 78" stalks bear ears 27" high for clean, easy harvest. Shaft is compact for easy packing & shipping.
1815 Xtra-Tender® 270A <sup>F1</sup>	70	8" x 1.9"	14-18		Tolerant NCLB	Aggressive early growth for strong stand. Very refined for such an early hybrid. Tender and sweet.
Synergistic (75% se + 25%	sh² un	less noted)				
1358 Alto <sup>F1</sup>	72	8.5" x 2"	14-16	5.5'		High quality eating. Tender, creamy and sweet. Strong emergence in cool soils gives good chance to make early market windows. Works well in northern areas. Avg. ear height 30". Fresh Mkt, Shipping.
1402 Espresso <sup>F1</sup>	70	8.5" x 2"	14-16		Tolerant CR, SW	Large kernels and strong covering husk are good for market appeal. Very good soil vigor. Planting as first-early recommended. Near main-season quality in an early variety. Fresh Mkt, Shipping.
1489 Primus <sup>F1</sup> (60% se + 40% sh²)	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	Superb eating ears with good shelf life. Roadside, Local Shipping.

Fax: 864-227-5108



Multisweet®

SSW2742F1

Summer SWeet ® Multisweet ® 2742

Xtra-Tender ® 270A Bicolor

1695

1815













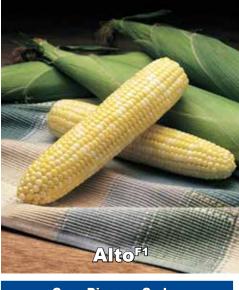
Cat#	Sweet Corn	1/4 lb	1/2 lb	1 lb	(per lb)	(per lb)	(per lb)	(per l		er lb)	(per lb)
1504	Serendipity	9.80	15.15	23.55	16.80	16.20	15.55	14.9	00 14	1.25	13.95
Cat#	Sweet (M=10			500 sd	2500 s	sd 5 (per		O M er M)	25 M (per M)	<b>50 M</b> (per M)	100 M (per M)
1358	Alte	0		11.00	43.15	5 13.	.70 8	.70	8.15	7.70	7.30
1378	American	Dream		13.95	54.80	) 17.	.40 13	3.05	12.55	11.95	11.45
1360	Anthem XR		15.00	57.80	) 19.	.00 12	2.50	12.00	11.40	10.90	
1401	Enchanted		9.40	36.90 11.70 9		.40	9.00	8.55	8.20		
1402	Espre	Espresso		10.65	41.70	) 13.	.25 9	.65	9.25	8.80	8.45
1419	Honey 'N	N Pearl		10.50	40.65	5 12.	.90 8	.65	8.30	7.90	7.55
1448	Kickof	f XR		13.75	54.10	) 17.	.15 13	3.75	13.20	12.60	12.05
1480	Obses	ssion		14.65	57.65	5 18.	.30 12	2.00	11.25	10.60	10.05
1474	Pack	cout		8.70	34.20	) 10.	.85 8	.40	7.90	7.50	7.15
1489	Prim	nus		11.20	44.10	) 14.	.00 10	0.15	9.55	9.00	8.55
1506	Signature XR I	Signature XR IFSI Reserve		13.75	54.10	) 17.	.15 13	3.75	13.20	12.60	12.05
1590	Summer Sweet® Brand	d Bicolor Ea	arly Riser	10.90	41.55	5 13.	.30 9	.10	8.35	7.60	
1677	Summer SWeet ® HiC	Glow®SS28	8802MR	12.55	49.30	) 15.	.65 9	.90	9.35	8.80	8.40

11.70

14.45

46.05

56.85



	Corn Disease Codes
CR	Common Rust
GW	Goss' Wilt
MDMV	Maize Dwarf Mosaic Virus
NCLB	Northern Leaf Blight (& races)
SCLB	Southern Leaf Blight
SW	Stewart's Wilt

14.60 11.70 11.00

18.00 13.95 13.40

10.35

12.75

9.85

12.20







Fax: 864-227-5108

#### **Sweet Corn**

### SuperSectiware® Summer Sweet® and symbols are registered trademarks of Abbott & Cobb, Inc.
All varieties in the SuperSeedWare® and Summer Sweet® series are also part of our Professional Seeds Series

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Sweet Corn		All	varieties in the 3	super Seeuvvare	and Summer Sweet series are also	o part of our Professional Seeds Series
Bicolor, cont.	Days	Ear Size	Kernel Rows	Height	Disease	Description
SE						
1359 Ambrosia <sup>F1</sup>	75	8-8.5" x 2.2"	16	7.5'	Resistant SW	Exceptionally tender and delicious. Plants may have some resistance to smut. Fresh Mkt, Regional Shipping.
1384 Delectable RM <sup>F1</sup>	84	8.5" x 2"	18		Tolerant CR, MDMV, NCLB, SW	Homozygous SE. Widely adapted to all areas. Strong, dark-green husks. Fresh Mkt, Garden.
1451 Luscious <sup>F1</sup>	75	8.5" x 2"	16-18	6'	Tolerant NCLB, SCLB, SW	Very sweet, tender eating quality with Galinat's Tablesweet® homozygous se genetics. Produces well even under stressful conditions. Firm husks offer good tip coverage and classy flags. Fresh Mkt, U-Pick.
SU						
1481 & <mark>1481U</mark> Peaches 'N Cream Early EH <sup>F1</sup>	70	8.5" x 2"	14			A first-early variety that delivers a great sweet creamy flavor. Long medium green flags. Fresh Mkt, Roadside, Garden.
White	Days	Ear Size	Kernel Rows	Height	Disease	Description
Sh <sup>2</sup>						
1398 Eden <sup>F1</sup>	76	8" x 1.8"	16-18	7'	Intermediate Resistance CR, SW	76 days. Augmented supersweet. Combines sh2, se and su genes for exceptional sweet flavor, tender kernels and strong seed vigor and emergence. High yield potential. Fully filled ears 8" long x 1.8" diam packed with 16-18 even rows of deep, lovely white kernels. Uniform 88" stalks with 27" ear ht for easy picking. Easy to pack with great holding power from field to consumer. Fresh mkt, Shipping.
1621 Summer Sweet® HiGlowMS®White 7401 F1	75	9"	16-18	5.5'	Resistant MDMV	(formerly Multiglow®) 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"-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 <sup>F1</sup>	76-80	8.5" x 1.7"	18-20	6.5'	Resistant CR; Tolerant 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	% sh²)					
1369 Avalon <sup>F1</sup>	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.
1430 Illusion <sup>F1</sup>	72	8.5" x 2"	14-16		Tolerant CR, SW	Excellent tip fill. Deep green husks and outstanding flags. Fresh Mkt, Shipping.
SE						
1364 Argent RM <sup>F1</sup>	86	8.5" x 2"	16-18	7'	Tolerant CR, NCLB, SW	Heterozygous SE. Extra luscious. Avg. ear height 23". High yield potential. Fresh Mkt, Roadside, Garden.
1509 Silver King <sup>F1</sup>	82	8-8.5" x 2.2"	16	6.5'	Tolerant CR, NCLB, SCLB, SW	Heterozygous SE. Popular variety with wide adaptability. Very good tip fill. Extra broad disease package. Fresh Mkt, Roadside, Garden.
1724 Whiteout <sup>F1</sup>	74	8.5" x 2"	16	6.5'		Excellent eating quality. Sturdy, vigorous plants have great ear conformation. Fresh Mkt, Shipping.
SU						
1529 & <mark>1529U</mark> Silver Queen <sup>F1</sup>	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, Garden.





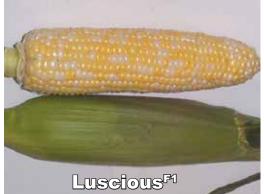


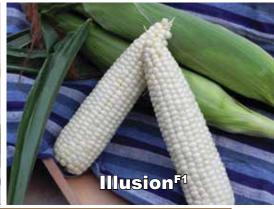












STATE OF THE PARTY
STOCK PROPERTY CONTRACT
0
Summer Sweet®
HiGlowMS <sup>®</sup>
White 7401 <sup>F1</sup>

Cat#	Sweet Corn	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)
1359	Ambrosia	8.45	13.00	20.25	15.95	15.35	14.75	14.15	13.55	13.20
1364	Argent	8.25	12.70	19.75	15.55	14.95	14.40	13.80	13.20	12.90
1369	Avalon	15.15	23.40	29.25	16.80	16.15	15.50	14.90	14.25	13.90
1384	Delectable	8.40	12.95	20.15	15.85	15.25	14.65	14.05	13.45	13.10
1481 & <mark>1481U</mark>	Peaches 'N Cream Early EH	7.55	11.65	18.15	13.50	13.00	12.45	11.95	11.45	11.20
1509	Silver King	8.95	13.80	21.50	15.85	15.25	14.65	14.10	13.50	13.15
1529 & <mark>1529U</mark>	Silver Queen	7.50	11.55	18.00	12.55	12.05	11.60	11.10	10.65	10.40

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)
1398	Eden	10.45	41.00	13.00	10.45	10.00	9.55	9.15
1430	Illusion	9.20	34.60	11.15	9.30	8.15		
1451	Luscious	7.35	28.85	9.15	6.95	6.70	6.35	6.10
1621	Summer Sweet® HiGlowMS® White 7401	11.20	44.00	13.95	11.20	10.50	9.85	9.35
1412	Summer Sweet® Multisweet® glACial	11.05	43.35	13.75	11.00	10.35	9.75	9.25
1715	SV 1580SC	15.15	59.60	18.90	12.60	11.80	11.15	10.55
1724	Whiteout	10.75	42.15	13.35	10.00	9.60	9.15	8.75







#### **Sweet Corn**

HGiow Institutes SuperSeedWare® Summer Sweet® and symbols are registered trademarks of Abbott & Cobb, Inc. SSW SSW SSW All varieties in the SuperSeedWare® and Summer Sweet® series are also part of our Professional Seeds Series









Yellow		Days	Ear Size	Kernel Rows	Height	Disease	Description
SSW <sup>®</sup>							
1680 Summer SWeet® HiGlowMS® SS3778R F1	HIG <sub>LOW</sub>	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, Cello.
1681 Summer SWeet® HiGlow® SS3880MMR F1	H.G.cow	80	1.9" diam.	16-18	6'	Resistant CR, Tolerant NCLB	High quality main season with good shelf life. Very attractive.SRG® provides good ear protection. Lots of strong flags; medium plant size; high yield potential. Fresh Mkt, Roadside, Shipping, Cello
Sh <sup>2</sup>							
1705 Supersweet Jubilee F1		83	8.5" x 1.9"	16-18	7		Jubilee type but with super sweet flavor traits. Consistent high yield and good recovery. Best results in warmer soils.
1795 Xtra-Sweet® Northern Yellow F1		67	8" x 1.9"		5.5'	Tolerant NCLB, SCLB	Early super sweet with excellent cold soil emergence. Large ears for first early variety. Avg. ear height 15". Fresh Mkt, Roadside, Shipping.
Synergistic							
1424 & <b>1424U</b> Honey Select <sup>F1</sup>		79	8.5" x 2"	14-16		Resistant SW	Top quality product with enhanced flavor and nice fat ears. Good holding ability. Fresh green husks with good flags. Fresh Mkt, U-Pick.

Cat#	Sweet Corn	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)
1424 & <mark>1424U</mark>	Honey Select	8.90	13.75	21.40	16.80	16.20	15.55	14.90	14.25	13.95
Cat#	Sweet Corn (M=1000)		5	00 sd	2500 sd	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
1680	Summer SWeet® HiGlowMS® SS3778R		® 1	2.80	50.15	15.90	10.85	10.20	9.60	9.10
1681	Summer SWeet® HiGlow® SS3880MR		1	1.65	45.85	14.55	11.20	10.50	9.85	9.35
1705	Supersweet Jubilee			8.80	34.65	11.00	7.85	7.35	6.90	6.60
1795	Xtra-Sweet® Northern XtraSwe		eet 1	0.90	42.85	13.60	9.65	9.25	8.80	8.45

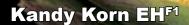
	Corn Disease Codes
CR	Common Rust
GW	Goss' Wilt
MDMV	Maize Dwarf Mosaic Virus
NCLB	Northern Leaf Blight (& races)
SCLB	Southern Leaf Blight
sw	Stewart's Wilt

Fax: 864-227-5108

Yellow











#### **Sweet Corn**

Yellow, cont.	Days	Ear Size	Kernel Rows	Height	Disease	Description
SE						
1370 Bodacious RM <sup>F1</sup>	75	8-8.5" x 2.2"	16	7'	Resistant CR, MDMV; Tolerant SW	Homozygous SE. Super dependable. Avg. ear height 20". Good three way disease package.
1432 Incredible RM <sup>F1</sup>	85	8-8.5" x 2.2"	18	8'	Resistant CR, NCLB, SW	Homozygous SE. Main season. A widely adapted market leader. Avg. ear height 30". Fresh Mkt, Shipping.
1442 Kandy Korn EH <sup>F1</sup>	81	8.5" x 2"	16		Tolerant CR, SW	Sweeter than normal sugary types. Very attractive purple stalks, purple and green husks. Long lasting sweetness allows longer harvest period. Fresh Mkt, Garden.
SU						
1396 Early Sunglow F1	70	8.5" x 2"	12-14			Among the finest traditional sweet corns. Old fashioned creamy sweet flavor with big kernels. Fresh Mkt, Garden.
1434 Jubilee <sup>F1</sup>	81	8-8.5" x 2.2"	16-20		Tolerant CR, SCLB	Popular all-purpose variety. Sometimes two ears per stalk. Adapted to New England, Great Lakes and west of the Mississippi. Flavorful, tender and sweet. Fresh Mkt, Freezing, Canning, Processing.

#### **Popcorn**

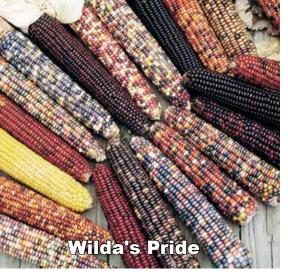
**1255U Dream Pop Red** Fl 120 days. Bright red kernels with high popping percentage, delicious nutty flavor and smooth crunchy texture. Red and yellow are sister lines, can be blended for ornamental jar of popcorn. 6" x 1-1.5" diameter ears produce about 700 kernels. Ears are slightly tapered with good tip fill, held 4 ft above ground on 7-8 ft stalks. Ornamental Edible, Farm Mkt, Cornucopia.

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





Ca	nt#	Popcori	Popcorn		1/4 lb		1 lb			10 lb (per lb)
125	1255U		Dream Pop Red Dream Pop Yellow		12.90 10.15		80	25.75		23.30
<mark>1256U</mark>		Dream Pop Ye					30.25			22.45
Cat#	Sweet Corn	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	<b>25 lb</b> (per lb)	50 lb (per lb)	100 lb (per lb)	500 lb (per lb)
1370	Bodacious RM	8.30	12.80	19.90	15.15	14.60	14.00	13.45	12.90	12.55
1396	Early Sunglow	4.80	7.15	11.30	9.50					
1432	Incredible RM	8.30	12.80	19.90	15.10	14.55	13.95	13.40	12.85	12.50
1434	Jubilee	7.75	12.00	18.65	12.95	12.45	11.95	11.50	11.00	10.75
1442	Kandy Korn EH	7.30	11.25	17.50	13.40	12.90	12.40	11.90	11.35	11.10



#### **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.

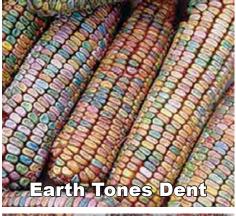
1184U Bloody Butcher 100 days. Large deep red ears 8-12" x 2" for fall decoration. Giant 9-12' stalks bear 1-2 ears each well above ground. Prized heirloom variety. Dried Ornamental for Cornucopia, Roadside.

1189 Carousel Fl 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 FI 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 arrangments, fall decorations or popped for eating.





1219U Mixed Colors Broom 90-95 days ornamental; 110 days for dry seed heads. Highly ornamental type for autumn cornucopias, can sell with pumpkins, gourds and Indian corns. Dried ornamental.

**1250U** Ornamental Sorghum Highly ornamental new type for autumn cornucopias. Easy to grow and great to sell with pumpkins, gourds & ornamental corns. Dried Ornamental, Roadside.

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'.

1239 Wilda's Pride 110 days. Extremely wide and bright color range. Sturdy plants. Large ears 8-11" in a sparkling array of maroons, deep purplish and blackish reds, pinks, whites, yellows and many multicolors. Fall cornucopia sales with pumpkins.

Ornamental Millet listed on page 102

















Fax: 864-227-5108







Approx. 1,100 seeds/oz. 1/4 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.

#### Slicing

2826 Bristol FI 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 A1, ALS, CMV, S, ZYMV. Tolerant PRSV, DM, PM.

2832 Dasher II  $^{\mbox{\scriptsize FI}}$  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.

 ${\bf 2862~General~Lee}^{~{\rm Fl}}$  66 days. Market leader. A white-spined slicer.  ${\bf 8}"$ 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 FI 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 <sup>FI</sup> 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

**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** FI 57 days. Early slicer with compact bushy habit. Glossy dark green fruit are uniform, cylindrical with slight taper, 8" x 21/4". Adaptable to compact spacing. Resistance CMV, S. Container, Fresh Mkt.

**2893U** Saladmore Bush Fl 55 days. Semi-bush habit spreading about 2' across. Deep green slicers 7-8" x 2", slightly tapered cylin-At drical, with crisp sweet flesh. 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.









Cat#	Cucumber	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
2887U	Marketmore 76	1.65	2.70	6.90	11.00	18.00	16.25	15.00
2893U	Saladmore Bush	1.75	10.35	35.55	61.40	109.00	100.40	93.90

Cat#	Cucumber (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)
2826	Bristol	1.55	3.95	12.85	16.80	15.60	14.50
2832	Dasher II	1.60	2.20	8.15	11.85	11.00	10.25
2862	General Lee	2.55	3.95	9.60	14.85	13.10	11.50
2871	Green Light	1.95	5.65	22.95	38.80	34.45	31.50
2872U	Iznik	10.55	28.15	113.85	186.00	151.30	
2890	Salad Bush	6.00	18.30	73.30	90.45	81.65	73.55

Cı	ucumber Disease Codes
Α	Anthracnose & Race #'s
ALS	Angular Leaf Spot
CGMMV	Cucumber Mottled Mosaic Virus
CMV	Cucumber Mosaic Virus
CVYV	Cucurbit vein yellowing virus
DM	Downy Mildew
PRSV	Papaya Ringspot Virus
PM	Powdery Mildew
S	Scab
TLS	Target Leaf Spot
WMV	Watermelon Mosaic Virus & Race #'s
ZYMV	Zucchini Mosaic Virus













#### **More Slicing Cucumbers**

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<sup>1-3</sup> CMV, DM, PM. Fresh Mkt, Regional Shipping, Garden.

2905 SV 4719 CS F1 56 days. High % super selects for quality markets. Top commercial productivity. Large, refined blocky cylindrical 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. Fills to end even under stress. Gynoecious flowering. Can be grown open field or trellised. Very early for a fancy cuke but the disease package allows extended harvest or late season supply. Will be a best replacement for Thunder when needed. Resistant A, ALS, DM, PM,S, ZYMV. Fresh Mkt, Shipping.

**2918U** Swing <sup>Fl</sup> 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.

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.

**2925 Tourus** <sup>FI</sup> 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". Resistance S, Tolerant DM, PM. Fresh Mkt, Shipping, Roadside, Gdn.

2902 Summer Dance FI 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 <sup>F1</sup> 52 days. Burpless type produces long, slender, smooth-skinned fruits. Early, heavy yields; long harvest. Best at  $9" \times 1"$  but holds at larger sizes. Tolerates high temperature and humidity. Resistant PM, Tolerant DM. Fresh Mkt

#### 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 (M=1000)	25 sd	100 sd	500 sd	1000 sd	<b>5 M</b> (per M)	25 M (per M)
2837	Diva	1.55	1.65	6.70	9.85	8.70	7.65
2895U	Slice More	1.65	2.35	7.60	12.25	11.15	10.10
2902	Summer Dance	2.85	8.55	34.40	58.80	44.90	37.80
2905	SV 4719 CS	1.65	3.65	10.80	15.65	14.55	13.50
2912	Sweet Success	8.15	24.95	99.75	152.10	137.35	123.70
2918U	Swing	2.00	6.10	24.50	39.60	35.00	30.75
2922 & 2922U	Tasty Green	3.60	5.90	20.85	26.65	24.25	22.00
2925	Taurus	2.25	6.75	27.20	46.00	40.80	37.45



#### **Pickling**

**2825** Arubian 45 days. A short vined high-quality pickling type, deep green skin with very good internal quality. Also an excellent candidate for refined mini-slicer mkt when picked young. Mature L/D ratio is 3.05, making an excellent commercial packing pickle. Fruit set pattern lends itself to both hand and machine harvest. Concentrated fruit set and high disease ratings provide opportunity for high potential yield.

**2827U** (alypso <sup>F1</sup> 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** Corolino <sup>FI</sup> 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.

**2830 (itodel**) 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. Medium Resistant DM, PM, Resistant A1, ALS, CMV, S. Fresh mkt, Processing.

2835 Diamant Fl 45 days. Seedless (Parthenocarpic) bitterfree pick-ler. Sets abundantly without pollenation 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 <sup>Fl</sup> 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 Vlasstor Fl 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** Morlini <sup>11</sup> 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.































#### **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 Block 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 <sup>FI</sup> 70-75 days. Beautiful obovate bell shape, 7-8" x 4" at base, narrowing slightly to about 3" at stem end.

2975 Fond May <sup>F1</sup> 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 Goudi** 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.

**2997U** Millionaire <sup>FI</sup> 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.

3002 Money Maker No. 2 Fl 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 ghse and outdoor production. Fresh Mkt, Home Gdn.

Gourds listed on page 34



**3003 Night Shodow** <sup>F1</sup> 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.

3004 Rhopsody <sup>FI</sup> 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.

**3008 Shikou** <sup>F1</sup> 70-80 days. Very classy Japanese long type with good eating qualities. Dark glossy 6-8" x 1-1.5" fruit with purple calyx, thin tender skin, clean white flesh. Seed set is slow and sparse for nice eating quality. Handsome mid-sized plants are semi-spineless for easy harvest. Showed good quantity of fruit set in test.

#### **Specialty Eggplant**

2957 (asper 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 Bionco 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.

30150 White Stor. Fl 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.

Cat#	Eggplant (M=1000)	25 sd	100 sd	500	sd	1000 sd	5 M (per M		10 M (per M)
3004	Rhapsody 7.80		23.60	23.60 95.00		161.15	142.80		31.00
Cat#	Eggplant (M=1000)		1	100 sd		1000 sd	5 M (per M)	10 M (per M)	50 M (per M)
2949	Black	Beauty		1.60	2.10	3.00	2.60	2.15	
2955U	Blac	k Shine		2.00	7.50	11.95	10.00	8.80	
2957	Casper			1.65	2.55	4.15	3.40	3.00	
2975	For	nd May		1.60	2.25	3.55	2.75	2.35	1.85
2977	G	audi		14.90	55.90	89.50	75.00	65.80	
2997U	Milli	ionaire		2.15	8.00	12.85	10.90	9.65	8.85
3002	Money N	Maker No. 2		2.25	8.55	13.65	11.20	9.70	
3003	Night Shadow			3.40	12.85	20.55	16.30	14.20	
3005U	Rosa	a Bianca		1.60	2.45	3.95	3.30	2.90	
3008	Sł	nikou		5.00	22.30	42.15	27.20	24.70	
3015U	Whi	ite 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, Buttercruch, 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 sativa) 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 47*.

**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. Grow like Chinese Cabbage.























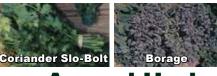












Siam Queen

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'.

1/32oz	1 oz	1/4lb	1/2lb	1lb							
1.60	1.75	5.80	9.70	17.00							
5238 Basil British 60-90 days. A Basil with tolerance to											
cool, damp growing conditions. Selected for field produc-											
tion in a Briti	sh climate	e, this vari	ety is worth	testing for							
fall and spring performance in the U.S., to extend the sea-											
son for both fresh cut and container basil. Will not stand											
Constitute and											

iicczing con	ditions.		
100sd	500sd	1000sd 5M	10M
2.15	5.00	4.85 2.85/M	2.10/M
5241 Basil Ci	<b>nnamon</b> Abo	out 23,000 sd/oz.	Scented Basil.
1/32oz	1/8oz	1/4oz	1 oz
1.60	2.35	3,55	12.00

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.

100sd	500sd	1000sd	5M	10M
2.15	3.55	5.70	4.80/M	4.20/M
5246 Basil I	Oolce Fresca 60	days fron	n sowing	to harvest.
1	011 4 - 11 1	1 4!! 4 -11		

12" tall in pot, 14" tall in gdn. Short internodes keep plants bushy and manageable. Regrows neatly after cutting. Traditional sweet basil flavor. 100sd 500sd 1000sd 5M 10M

1.55	2.20	3.15	1.20/M	1.00/M
5250 Basil	Genovese Abo	out 16,000	sd/oz. Brig	ht green,
corrected loc	rroc I Iniform	+all 24" pla	nto ava alar	ur to holt

savoyed leaves. Uniform, tall, 24" plants are slow to bolt. Heavy, spicy taste and smell. Use in pesto sauce.

1/32oz	1/4oz	1 oz	1/4lb	1lb
1.60	1.95	2.50	7.15	25.00
5277 Basil	Lemon About 16	,000 sd/oz.	Scented	Basil.
1/32oz	1/8oz	1/4oz		1 oz
1.60	2 35	3 55	1	2 00

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.

100sd	500sd	1000sd	5M
1.55	4.35	7.50	5.25/M
5295 Basil Lic	orice About 23	3,149 sd/oz. Sce	ented Basil.
1/32oz	1/8oz	1/4oz	1 oz
1.60	2,15	2.75	5.00



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".

		0		
100sd	500sd	1000sd	5M	10M
1.55	4.35	7.50	5.25/M	3.95/M
5316 Basil	Red Rubin	About 19,000	) sd/oz. 12",	Strong pur
ple bronze	foliage, inte	ense fragrance	and fine flav	vor. Suitable
for professi	onal produ	ection		

1/4oz 1 oz 1/4lb 4.90 12.30 45.00 5318 Basil Rutger's Obsession DMR Vigorous growth, high leaf-to-stem ratio, deep green, excellent disease resistance to

tion. Fresh mkt/drying.							
1/32oz	1/8oz	1/4oz 4.45	1 oz 15.00				

5320 Basil Rutger's Passion DMR Vigorous growth, high leafto-stem ratio, deep green, the strongest resistance Downy Mildew in Rutger's program, for long, prolific, clean harvest. leaves and 4-6" for variegated. Softly textured, provides Long 3" fancy leaves. Has shown excellent regrowth allowing many harvests. Performs well in field and potted plant production, Fresh mkt/drving.

1/32oz	1/8oz	1/4oz	1 oz
1.75	2.95	4.55	15.00

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".

1/32oz	1/8oz	1/4oz	1 oz
1.95	4.90	7.45	25.00

**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.

1/32oz	1/4oz	1 oz	1/4lb
1.90	3.00	7.15	25.00

**5340 Basil Sweet Large Leaf Italian** About 16,000 sd/oz. Sweet, pungent herb with broad 2-3" leaves; used to 5286 Basil Lemon Sweet Dani About 14,000 sd/oz. flavor tomato sauces, meat, fish, vegetables, popular for pesto sauce. Ht. 2'.

1/32oz	1/4oz	1 oz	1/4lb	1lb
1.60	2.15	3.55	7.15	25.00

5358 Borage (Borago officinalis) About 1,000 sd/oz. Produc-\* es 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 oz 1/4lb 1lb 3.00 12.00 35.00





5376 Caraway (Carum carvi) About 10,000 sd/oz. Plants with finely cut foliage and white flowers that appear the second year. Used in seasoning bread, meat, cheese, soups and liquors. Ht. 20".

1.95	3.55		.00
5380 Cat Grass Tabby	About 85	7 sd/oz. Br	ight white,
green and some var	iegated foli	age. Attract	ive to cats
and famous in healt	h-food recip	pes. Reache	s about 6"
high 2 weeks after so	owing. Fina	l height 24	" for green
1 1 4 (2) (	10	61	1 .1

1 oz 3.95 1/4lb 1lb 5lb 13.15 44.25 39.00/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'.

vitamins and fiber for cats.

	. 1	J		
1/256oz	1/407	1/2oz	1 07	1/4lb
2.15	4.15	4.90	8.20	30.00
			VV	

cuisine. Broad, deep green, parsley-like, pungent foliage. Slow to bolt. Ht. 2'.

1/32oz	1 oz	1/4lb	1/2lb	1lb
2.15	3.30	4.15	6.75	12.75
5457 Corian	der Slo-Bolt	(Coriandrum	sativum) Ab	out 2,00
sd/oz. 45	days. Wel	l known a	ınd reliabl	e variet
Fresh cut le	af, dry lea	f or groun	d seed for	spice.

5502 Cumin (Cuminum cyminum) About 8,000 sd/oz. Seed is powdered and used in curries, pickles, 5727 Savory Summer (Saturgia hortensis) About 44,000 sd/oz. Leaves sausages and Mexican food. Hot, pungent flavor. Reaches a height of 9".

1/64oz	1 oz	1/4lb	1/2lb	1lb
1.65	3.00	10.20	17.15	30.00
5511 Dill B	<b>ouquet</b> Ab	out 16,00	00 sd/oz.	Delicate, so
green, featl	hery foliag	ge used fi	esh on fis	h and salad

seed heads are a favorite pickling spice. Ht. 28-30". 1/32oz 1 oz 1/4lb 1lb 5lb 1.60 4.60 7.35 16.50 14.00/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".

1/320	2 102	1/410	IID	JID
1.60	2.10	3.40	11.40	10.00/lb
5529 Dill I	F <mark>ernleaf</mark> About 13,	000 sd/oz. E	xtremely con	npact, basal-
AS	branching; deep	green, finely	-cut foliage	with the fla-

	VOI 0	i iarger types t	out aiso qui	te omamer	ılaı, fil, 18
100	sd	500sd	1000sd	5M	10M
16	0	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'.

	1/32oz	1 oz	1/4lb	1lb	5lb
	1.65	2.75	4.40	14.75	12.95/lb
!	5554 & <mark>5554U</mark>	Fennel Antar	es <sup>FI</sup> 68 day	s from sowi	ng. Nation
	wide wide	trials repor	ted uniform	ı, 4-5" pure v	white bulbs
		fragrant. I	Bolt resistai	nt in the su	mmer. Sov

away from	dill. Comes	treated and	untreated.	
100sd	500sd	1000sd	5M	10M
2.25	7.95	12.70	10.65/M	9.35/M

5448 Cilantro Santo (Coriandrum sativum) About 2,000 5556 Fennel Florence (Foeniculum dulce) About 7,000 sd/oz. sd/oz. (Chinese Parsley) Used in Asian and Mexican 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.

1/16oz	1/2oz	1 oz	1/4lb
1.95	3.55	5.85	8.90
5646 Marioram	Sweet (Origani	m maiorana) About	126,000 sd/oz

Sweet flowers in purple spikes used for flavoring meats, poultry, soups, dressing and salads. Ht. 2'.

1/32oz	1/4oz	1/2oz	1 oz	1/4lb
1.95	3.40	4.15	6.85	18.00
5797 Cayory Cur	mmor /c ·	/ · · · › A la a .	44 000 a	d /a= T aarra

and young stem-tips used fresh or dried for flavoring meats, stuffings and teas. Ht. 1'. 1/3202 1/202 1.02

1.65	2.20	3.30	9.90	17.60	32.25
5768 Stevia r	ebaudiana <i>I</i>	About 77	,000 sd/o	z. 12"; Sul	o-tropical
herb produc	es white fl	owers w	ith a swee	et scent. Le	eaves can

be used fresh or dried as an alternative to sugar. 54.60/M



















Thyme

Creeping







Cleopatra



#### **Perennial Herbs**

\*All Herbs are untreated unless otherwise stated.

5232 Balm Lemon (Melissa officinalis) About 48,000 sd/oz. Heart-shaped leaves with a lemon fragrance. Attracts bees. Used in teas and salads. Ht. 18-36"

7.00

5394 Catmint (Nepeta mussini) About 37,000 sd/oz. Blue flowers thrive in hot weather. Ht. 1'.

15.00

 $\textbf{5403 Catnip} \ (\textit{Nepeta catarica}) \ About \ 47,000 \ sd/oz. \ Vigorous$ mint; attractive to cats. Use the heart-shaped leaves fresh or dried in teas. Ht. 24"

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'.

1/16oz 2.15 53.00

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".

1/16o: 36.00 5440 Chives Quattro FI Overwintering. Sow summer, harvest spring til hard freeze. New leaves are very thick, 5621 Lovender Vicenzo About 30,000 sds/oz. Benary's in teas & sauces. Ht. 6". .75" wide, fleshy, very soft, and easily eaten. Flavor

like onion with hint of mild garlic. With cold winter, buds initiate and large purple ball-shaped flowers appear 2nd spring. Young tender flower shoots are edible. Flowers have 2-week shelf life as a cut flower. Grows 12" tall first season, taller in subsequent years. Edible & Ornamental, Cut Herb, Gdn Ctr.

250sd 21.70 51.00/M

will also grow in rich, moist, shaded soil.

cress; peppery flavor. Ht. 6-8".



Chives Quattro<sup>F1</sup>

5583 Hyssop (Hyssopus officinalis) About 28,000 sd/oz. Similar to a mint flavor. Plants vield aromatic oils used in perfumes and soaps. Leaves are used in tea. Ht. 1.5'.

1/2oz 1 oz 5.70 10.00 1/32oz 1/8oz 1/4oz 1.60 2.20 3.40

5592 Lavender Hidcote Blue (Lavandula angustifolia) About 32,000 sds/oz. Leaves and deep purple flowers are fragrant, ornamental. Ht. 18".

5M 10M 5.10/M 4.60/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'.

100sd 500sd 1000sd 5M 1.55 5.50 10.15 7.60/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'.

Apex conditioned to overcome dormancy. First year flowering and needs no vernalization. Thick spikes of deep blue flowers over silvered foliage.

100sd 500sd 1000sd 3.25 12.75 18.65

5628 Lemon Mint (Monarda citriodora) About 59,000 sd/oz. Lemon-scented foliage and blooms. Attracts bees. Ht. 24-36".

5484 Cress True Water (Nanurium officinale) About 126,000 sd/oz. 5637 Lovage (Lecisticum officinale) About 9,000 sd/oz. All plant green foliage is highly ornamental. Salads and flavoring Peppery tasting gourmet herb. Grows best in streams, but parts are edible and have a celery-like flavor. Used in cheese dishes. Ht. 2'. soups, salads and cakes. Ht. 6'.

5493 (ress Upland (Barbarea verna) About 24,000 sd/oz. 5655 Mint Peppermint (Mentha x piperita) About 358,000 sd/ leaves and violet flower spikes. Use leaves and young oz. Aromatic foliage is silvery-gray and aromatic. Use Dark green, glossy, rounded leaves similar to water oz. Excellent beverage mint, strong cooling menthol arostem tips to flavor poultry, meats, sausage, chowders commercially in cosmetics, vermouth and absinthe. ma. Oil from plants flavors candies and desserts. Ht. 24". and sauces. Ht. 1-2" 1/256oz 1/16oz 1/8oz 1/4oz 1/2oz 1 oz 2.15 5.70 9.00 14.00 24.00 44.00

**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".

**Munstead Strain** 

1/256oz 1/16oz 1/8oz 1/4oz 1/2oz 1 oz 2,15 6,00 9,35 14,00 22,00 40,00 5670 Oregano Cleopatra (Origanum syriacum). 100 days from sowing to harvest. Compact trailing habit, 5-6' tall spreading 9-10". Unique spicy peppermint flavor is distinctly different from traditional Greek and Italian Oreganos. Small, attractive silvery gray leaves cover

the plant until harvested. Regrows quickly to re-establish plant cover. Ornamental and edible. Cut Herb, Dried Herb. Restaurant Specialty, Bedding Plant, Northeast, West/ Northwest.

49.60 80.85 143.35 263.00 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'

1/64oz 1/16oz 1/8oz 1/4oz 1/2oz 1 oz 1.75 2.75 4.25 7.00 12.00 18.00

5682 Oregano Italian (Origanum vulgare) About 321,000 sd/ oz. Flavorful herb used in tomato sauces, salad dressing and soup. Ht. 18".

1/64oz 1/16oz 1/8oz 1/4oz 1/2oz 1 oz 1.60 2.95 4.00 6.15 9.00 12.00 **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

1/128oz 1/32o 1.45 2.00

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'.

1/32oz 1/8oz 1/4oz 1/2oz 1 oz 1/4lb 4.60 12.75 20.00 36.00 52.00 195.00 5709 Rue (Ruta graveolens) About 13,000 sd/oz. Lacy blue-

1/64oz 5718 Sage (Salvia officinalis) About 3,000 sd/oz. Gray-green 5817 Wormwood (Artemisia absinthium) About 471,000 sd/



**Pennyroyal** 



5736 Savory Winter (Satureja montana) About 69,000 sd/ oz. Lilac flowers good for edging, borders or as a rock garden plant. Used to season vegetable dishes. Ht. 1'.

5.55 8.50 14.25 25.00

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.

/32oz 1/4oz 1/2oz 1 oz 1.65 2.70 3.25 5.45 5772 Tunsy (Tanacetum vulgare) About 336,000 sd/oz. Small yellow button-like flowers; leaves used dry to make dyes or dried for insect repellant. NOT edible.

5781 Tarragon (Artemisia dracunculus) About 163,000 sd/oz. Spreading plants with pale green leaves. Used in herb vinegar, sauces and salads. Ht. 5'.

1/64oz 1/16oz 1/8oz 1/4oz 1.60 2.25 3.85 6.20

5790 Thyme (Thymus vulgaris) About 104,000 sd/oz. Lilac flowers good for edging. Season chowders, stews, sauces and pickles. Ht. 6".

5799 Thyme Creeping (Thymus serphyllum) 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".

1/256oz 1/16oz 1.55 2.00 1/8oz 3.55

5808 Woodruff Sweet (Galium odoratum) About 4,000 sd/ oz. Fragrant white flowers in spring. Leaves can be used in May wine. Ht. 8".









#### 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 sowing.

#### Large Seeded Gourds

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

or water jug. 5011U (aveman 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 fibrius 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**

**5019 Goblin Eggs** 80 days. Very cool blend of small eggs with lots of striped, zoned and speckled types as well as pure whites and golds and many others. Earlier maturing than other ornamental gourd strains. Decorative, Cornu-

**50210** Harvest Wings<sup>Fl</sup> 95 days. Approx. 350 seeds/oz. Multi-color mix, many types with very prominent wings and other strange shapes.

**5020 Koshare Yellow Banded** 95 days. Unique variable banded pattern provides brilliant contrast. 2-5 bands of alternating dark green and golden yellow with some pure greens. 4" fruits with uniform spoon shape. Excellent color rentention on stand or in storage. Multi-stem bush habit with concentrated fruit set permits high population, high yields and easy harvest.

50530 Shenot Crown of Thorns Crown of Thorns type with pronounced thorny warts around shoulders or fruits. Wide range of patterns in white, green, and orange.

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

**5080U** Small Assorted Professional Warted Mix Blended for advantages in commercial production for mkt. Smaller more uniform 3" fruit with stronger colors, more consistent warting. Assortment of stripes, bi-colors solids, spoons, pears, short pears, flats and rounds. High proportion of yellows, greens and oranges, with fewer whites, for brighter display at Fresh Mkt.



Shenot Crown of Thorns



Cat#	Gourd	1/8 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb
5004& 5004U	Bird House Bottle	1.75	3.40	5.35	16.00	24.00	44.00
5011U	Caveman Maranka	1.75	3.40	5.35	16.00	24.00	44.00
5021U	Harvest Wings	2.55	6.00	9.75	34.45	61.00	112.00
5025	Large Assorted	1.75	2.95	4.80	12.50	20.00	35.00
5032	Luffa	1.75	2.50	4.20	13.25	22.00	37.50
5034U	Lunch Lady	2.55	7.00	11.20	36.70	65.30	124.45
5036U	Martin Birdhouse	2.15	3.35	4.90	14.70	23.25	42.85
5053U	Shenot Crown Of Thorns	1.95	3.90	6.50	20.00	36.00	70.00
5080U	Small Assorted Professional Warted Mix	2.15	5.50	8.80	29.70	52.80	96.80
5060U	Small Assorted	1.95	4.40	5.00	12.00	19.00	34.00
5088	Speckled Swan	1.75	2.55	5.00	14.00	22.00	42.00
C	at# Gourd	100 ed	50	n ed	1000 s	·d	5 M

Cat# 100 sd 500 sd 1000 sd (M=1000)(per M) 5019 Goblin Eggs 17.15 63.55 100.80 84.70 5020 Koshare Yellow Banded 14.15 52.50 83.30 70.00

#### Lettuce (Lactuca sativa)

Approx. 25,000 seeds/oz. Pkt plants 30' of row,  $\frac{1}{4}$  oz sows 100'; 1 oz. produces approx. 10,000 plants. Direct-sow 1-3 lbs/acre; sow seeds thinly  $\frac{1}{4}$ " 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 Butterrunch 20-75 days. Butterhead Bibb type. Slow bolting, long lasting, heat tolerant, with compact creamyellow heart. 12". Rosette 4-5". Sturdy rosette of thick deep green red-tinged blistered leaves. White seeded. Mosiac 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**

**3110U** Cimmuron 58 days. Tall cylindrical heads 9" x 4". Bronzy tips melt to tender spring green base with creamy butteryellow core. Withstands heat and resists bolting. Well-suited to baby leaf and buttery cos-head markets. Fresh Leaf Shipping, Roadside.

**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 1-13, 15, 17-19, 22, 24, 25, 27-31. Fresh mkt, Baby leaf, Romaine bunching head.

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

**3152U Vivion** 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.

#### Lettuce Disease Codes

DM	Downy Mildew
TB	Tipburn
BR	Brown Rib



3156U Willow 20 days baby leaf. 45 days mature leaf. Excellent mildew resistance. Classic romaine shape, long stemmed and flaring to tip. Smooth mid green leaves. Thick, crunchy white white stems, good weight, providing good volume romaine heads for bagging. Excellent material for baby leaf production. Vigorous upright habit for easy harvest. Good bolt resistance. Tolerant DM 1-35, missing 3, 11, 37. Fresh mkt Romaine

#### **Iceberg Type**

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 in North. Fresh Mkt, Regional Shipping, Local Restaurant.

#### **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 redtinged, 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** Tongo 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 Vulcon Mid-early. Slightly frilly leafage has brillant 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 and edible. Tolerant TB. Fresh Mkt, Bunching Baby Leaf, Bedding Sales.

Cat#	Lettuce	1/64 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
3108U	Buttercrunch	1.55	2.15	3.00	4.30	7.70	14.00	13.15
3110U	Cimmaron	1.55	2.25	3.00	5.30	9.45	17.30	16.15
3134U	Osterley	1.65	6.40	10.50	37.65	67.30	123.00	115.00
3137	Parris Island COS	1.60	2.15	3.00	4.30	7.70	14.00	13.15
3138U	Red Sails	1.60	3.70	5.95	20.75	36.50	59.00	51.00
3144U	Speckles	1.60	2.60	4.30	15.20	27.00	49.75	46.50
3150U	Tango	1.60	2.20	3.65	13.15	23.40	42.80	40.00
3152U	Vivian	1.60	2.60	4.30	15.20	27.00	49.75	46.50
3154U	Webb's Wonderful	1.65	2.50	4.15	14.75	26.35	48.15	45.00
3156U	Willow	1.60	6.40	10.50	37.65	67.30	123.00	115.00

Cat#	Lettuce (M=1000)	1000 sd	5000 sd	10 M (per M)	25 M (per M)	100 M (per M)
3132	New Red Fire M.I.	1.70	6.35	0.95	0.80	0.70
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



























#### 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 Block 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 <sup>11</sup> 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 suitablity 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) FI 47-57 days. Outstandings FI 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.

3037 Blue Knight (Darkibor) F1 45-55 days. Outstanding Vates hybrid 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 (osper 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 Lucinuto 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.

3051Prizm<sup>Fl</sup> 50-60 days. Densely branching plants sufficiently compact for container cultivation but also adapted to open ground. Short, tightly ruffled foilage is clean green, tightly ruffled and tender. Flavor unusally mild with nutty overtones. Agressive re-leafing 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 FI 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 Russion 25 days baby leaf, 50 days mature leaf. Red leaves, crisp and curly, cold hardy, for winter harvest.

**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 Surlet** 35-40 days baby leaf, 55-60 days full leaf. Vigorous plant, grows 2-3' x 2'W. 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. Cut leaf, Bunching, Bedding Plant, Specialty Restaurant.

Cat#	Kale	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	<b>10 lb</b> (per lb)
3045U	Lacinato	1.95	3.60	12.25	21.15	37.75	34.50	32.25
3057	Red Russian	1.60	2.15	7.40	12.75	22.80	20.85	19.50

Cat#	Kale (M=1000)	100 sd	1000 sd	5 M (per M)	<b>10 M</b> (per M)	<b>50 M</b> (per M)	100 M (per M)
3028U	Black Magic	1.65	3.50	2.85	2.40	2.15	1.95
3029U	Blackjack	1.85	13.85	11.15	9.45	8.40	7.70
3032	Blue Armor (Winterbor)	2.15	15.90	12.90	10.85	9.65	8.85
3037	Blue Knight (Darkibor)	2.60	19.80	15.95	13.55	12.00	11.00
3070U	Casper	1.95	9.00	7.25	6.15	5.45	5.00
3051	Prizm	2.85	21.60	17.40	14.75	13.15	12.00
3052	Red Bor	6.00	45.25	36.50	31.00	25.25	23.15
3065	Roulette	1.60	9.25	7.45	6.35	5.60	5.15
3067	Scarlet	1.95	7.00	5.65	4.80	4.25	3.90

Fax: 864-227-5108





### More Kale

 $3068\ Starbor^{FI}$  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.

### **Kalette®**

**2211U** Autumn Star FI 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 miniture kale head about 2" across buds out at each node. Thse 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, specialty.

## Tronchuda Leaf Cabbage

 $2215 \; Beira \; Tronchuda \; 85 \; days. \; Special \; type \; of loose-leaf \; cabbage. \; Inter$ est 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.

## Kohlrabi

(Brassica oleracea, Gongylodes Group)



Approx. 9,000 seeds/oz. Pkt plants 30' of row. Direct-sow 2-4 lbs/acre. Sow seeds ½" deep, 18-24" apart in rows 24-36" apart. Seeds germ in about 12 days. **Days to maturity** are from sowing.

**3077 Grand Duke Improved** <sup>FI</sup> 45 days. Easy to grow, tasty crop; high yields in limited space. Plants form rounded, smooth bulbous stems about soil level, up to 4" across. Delicious raw, salads or cooked. Resists cold weather, light frosts and adverse weather conditions.

 $3081~\textrm{Konan}^{~\textrm{Fl}}$  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.

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

3082 & 3082U Winner Improved<sup>FI</sup> 55 days. Mid-early. Large green knob, upright, resists pithiness. Best substitute for Grand Duke when needed.

	Leek Disease Codes
R	Rust





## Leek

(Allium ampeloprasum, Porrum Group)

Approx. 11,000 seeds/oz. Pkt plants 30' of row; ½ 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.

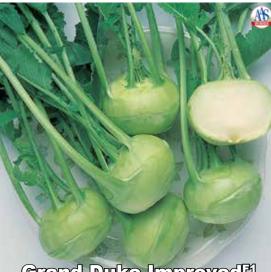
3098 Exeter<sup>FI</sup> 95-105 days. Productive hybrid, with attractive dark foliage. Early and bolt tolerant. Strong basal 1" diam shaft grows to 6" or longer depending on depth of trench or hill. Abundant 12" flag leaves above develop a deep bluish green color. The base of shaft tends not to bulb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

3099U Zermutt 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.



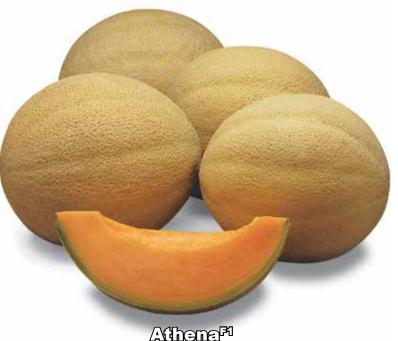






Grand Duke Improved <sup>F1</sup>
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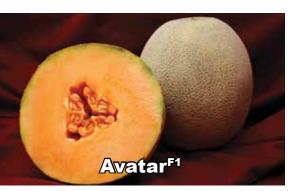
Cat#	Kalette <sup>®</sup> (M=1000)	100 sd	500 sd	100	) sd	5 M (per M)	10 M (per M)	<b>50 M</b> (per M)
2211U	Autumn Star	22.60	85.50	137	7.75	116.85	103.55	95.00
Cat#		bage 1000)	200 sd	1000 sd	5 M (per M)	10 N (per N		100 M (per M)
2215	Beira T	ronchuda	5.15	19.40	15.60	11.65	5 10.90	10.55
Cat#	K	ale	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb 5 lb (per lb)	10 lb (per lb)
3062U	Va	ates	1.85	2.30	8.15	13.95	25.00 22.90	21.35
Cat#		ale 1000)	100 sd	1000 sd	5 M (per M	10 l l) (per		100 M (per M)
3068	Sta	arbor	2.70	20.25	16.30	13.8	35 12.25	11.25
Cat	#	Kohlrabi (M=1000)	100 sd	500 sd	1000 sd	5 M (per M	25 M ) (per M)	<b>50 M</b> (per M)
307	7 Gran	d Duke Improved	1.75	3.55	5.75	4.85	4.30	3.95
308	1	Konan	5.95	22.50	36.25	30.75	27.25	25.00
3080 & 3	3080U	Quickstar	1.95	6.65	10.75	9.15	8.00	7.40
3082 & 3	<mark>3082U</mark> Wi	nner Improved	1.75	3.75	6.00	5.15	4.50	4.15
Cat#	Leek (M=1000)	100 sd	500 sd	1000	sd (	5 M per M)	25 M (per M)	50 M (per M)
3098	Exeter	5.25	19.80	31.9	0 2	27.00	24.00	22.00
3099U	Zermatt	1.75	2.90	4.65		3.95	3.50	3.20











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; 1/4 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.

## **Eastern Types**

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.

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 FW0-2 PM1. Fresh Mkt, Regional Shipping, Garden Plant Sales.

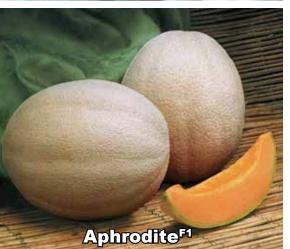
2374 & 2374U Athena F1 75 days. Early maturing eastern muskmelon particularly suited to SE, Midwest and Mid-Atlantic mkts. Course netting, small cavity, very firm flesh (5-6 lbs.) Resistant FW1-2, PM. Tolerant Sul. Fresh Mkt, Shipping.

**2375U** Avatar <sup>F1</sup> 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<sup>0·1·2</sup>, PM<sup>1</sup>. Tolerant PM<sup>2</sup>. Fresh Mkt, Short Distance Shipping.

2379 Burpee FI PMT 82 days. Pale orange flesh is thick, firm and juicy with a sweet musky flavor. Fruits measure 7" x 6", slightly oval, thick rinded and weigh 4-4.5 lbs. Heavily netted and distinctly ribbed. High yields and excellent quality. Tolerant PM. Fresh Mkt, 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<sup>0.2</sup>, PM. Fresh Mkt, Roadside, Shipping.

**2386 Duchess** <sup>FI</sup> 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<sup>0-2</sup>, PM<sup>1-2</sup>. Fresh Mkt, Roadside, Regional Shipping.



Burpee<sup>F1</sup> PMT

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)
2369	Ambrosia	6.00	15.55	61.20	79.15	76.75	74.90	73.05	71.80
2371	Aphrodite	5.20	13.55	53.20	71.00	68.80	67.15	65.50	64.40
2374 & 2347U	Athena	4.90	11.60	45.50	72.25	70.05	68.35	66.70	65.55
2375U	Avatar	4.35	11.45	45.05	71.45	68.10	64.70	61.35	58.95
2379	Burpee PMT	5.90	17.60	69.15	78.55	76.15	74.35	72.50	71.25
2381	Carousel	3.15	8.15	32.05	50.85	48.20	45.00	41.75	39.45
2386	Duchess	3.75	9.75	38.25	57.20	54.30	50.65	47.05	44.45





## **More Eastern Types**

**2408 El Gordo** <sup>Fl</sup> 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 PM², WMV. Fresh Mkt.

**2411 Goddess** <sup>Fl</sup> 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.

**2421 Halona** <sup>F1</sup> 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. High Resistance PM², FW0-². Fresh Mkt, Shipping.



2428 Milon 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.

**2429 Minervo** 78 days. 6-7 lb. 7 x 7.5". Recommended where early size, sugar and holding abiltiy are wanted. Athena type Eastern melon, from same breeding but slightly larger, with higher resistance level. Fruit is oval to flat oval and lightly but distinctly sutured, with coarse open netting overall. Flesh is thick with outstanding firmness. Vine is vigourous. Largest sizes have reached 10 lb. under best conditions. Well proven and widely adapted in University trials, especially U of F 2000, where Minerva demonstrated higher yield, with same fruit set but 8.3 lb average weight vs Athena's 5-6 lb. Minerva performs well and maintains quality under wet field conditions. Firm flesh allows harvest at tan stage and full slip; green harvesting such as for softer varieties is not needed. Resistant FW<sup>0-2</sup>, PM<sup>1</sup>. Tolerant PM<sup>2</sup>. Fresh Mkt, Shipping.

**2440 Orange Sherbel**<sup>Fl</sup> 82 days. Highly aromatic melon flavor Re 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 trangular shape. These traits plus high fiber content gives a great eating experience and good shippability. An all-around top notch eating melon. Tolerant FW<sup>1,2</sup>, PM<sup>2</sup>, WMV, Fresh mkt, Shipping.

**2451 Rockstor** <sup>F1</sup> 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  $^{12}$ , FW  $^{02}$ .

**2479 Verong** <sup>Fl</sup> 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 <sup>0.2</sup>. PM <sup>1.2</sup>. Fresh Mkt, Regional Shipping.



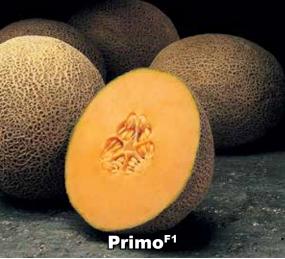






Cat#	Cantaloupe (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	15 M (per M)	30 M (per M)
2408	El Gordo	5.10	13.30	52.20	82.90	78.60	73.35	68.10	64.35
2411	Goddess	4.00	10.50	41.25	62.80	59.55	55.60	51.60	48.75
2421	Halona	2.75	7.45	29.35	46.60	44.20	41.25	38.30	36.15
2485	Infinite Gold	8.50	22.00	86.55	129.00	122.50	116.00	109.50	104.90
2428	Milan	3.70	9.65	37.85	60.10	57.00	53.20	49.35	46.65
2429U	Minerva	4.00	12.25	50.20	66.30	64.25	62.70	61.15	
2440	Orange Sherbet	2.70	7.00	27.40	43.50	41.30	38.55	35.80	33.80
2451	Rockstar	3.95	10.25	40.25	63.75	60.45	56.45	52.40	49.50
2479	Verona	3.80	9.85	38.75	60.70	57.60	53.75	49.90	47.15

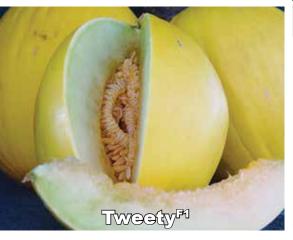
	Melon Disease Codes
ALB	Alternaria Leaf Blight
DM	Downy Mildew
FW	Fusarium Wilt & Race #'s
PMV	Potato Mosaic Virus
PM	Powdery Mildew & Race #'s
PRSV	Papaya Ringspot Virus
Sul	Sulphur Damage
WMV	Watermelon Mosaic Virus
ZYMV	Zucchini Yellow Mosaic Virus















### **Western Types**

**2444 Primo** Fl 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, Shipping short distance. sweet and flavorful. Fruits average 5-7 lbs. each, 7"x 7.5". Tolerant PM1-2, Sul. Fresh Mkt, Shipping.

### Sensation Series

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

2385 Dove FI 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 FI 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 stage while still firm and slightly crispy. Rind is very attrac-PRSV. Tolerant PM. Fresh Mkt, Shipping. Cut Melon

2504 Temptation #1 F1 85-90 days. 6.5" round melons with smooth creamy rind and sweet orange flesh and a green band near rind. Avg wt 4.5 lbs. Excellent eating quality, high novelty appeal for cut melon mkts. Resistant FW2.

#### 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 trellis.



**2484 Dulce Nectur** Fl 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 versitality. Large smooth round oval melons with creamy white rind, light green flesh, medium closed cavity for high weight. Maturity is early main season. Resistant FW2. Toler-

2486 Earli-Dew FI 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 FW2. Fresh Mkt,

2493 Honeycomb <sup>Fl</sup> 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 FW1-2. Medium 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** <sup>Fl</sup> 75 days. Ultra-early. 5 lb, Ivory colored flesh is sweet, aromatic with spicy tones. Reaches fully sweet tive, golden yellow and finely netted, strong vigorous vines. Tolerant FW0-2, PM1,2. 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 FI 60-70 days. Bright yellow rind, plae ivorygreen flesh. Early maturity. Tropical taste preferred by many; mild, sweet and aromatic with no musky aftertaste. Tolerant FW1-2, Gummy Stem Blight, ALB.

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)
2385	Dove	5.55	14.80	58.15	92.30	87.55	81.70	75.90	71.70
2480	Citrino	3.35	8.70	34.15	52.80	50.30	47.80	45.35	43.55
2484	Dulce Nectar	3.55	9.30	36.65	58.15	55.40	52.65	49.90	47.95
2486	Earli-Dew	5.25	15.30	60.20	79.70	64.25	75.45	73.55	72.30
2493	Honeycomb	3.65	10.60	41.60	66.05	62.95	59.80	56.70	54.50
2504	Temptation #1	2.60	6.95	27.80	38.10	34.60	31.40		
2444	Primo	2.20	5.70	22.50	29.95	29.05	28.35	27.65	27.20
2462	San Juan	2.35	6.15	24.10	38.25	36.30	33.85	31.45	29.70
2477	Tweety	3.55	9.20	36.15	57.40	54.40	50.80	47.15	44.55



#### Charentais

Charantais 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 trellis.

**2438 Oui** Fl 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<sub>0-2</sub>, PM<sub>2</sub>.

#### **Christmas**

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

**2422 Lumbkin** Fl 75-80 days from sowing. 70 days from transplant. "Christmas Melon". Special traditional type that harvests well late season. Smooth oval 2-4lb melons, avg 7" x 5". Thin rind mottled green on yellow. Flesh is ivory-white, sweet aromatic, juicy, avg 14-16% Brix. Stores well, maybe til Christmas if you get the timing right. Resistant FW1, Tolerant FW2.

#### 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 FI 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 PM1-2, WMV, PMV, Roadside, Fresh Mkt, Regional Grocer.

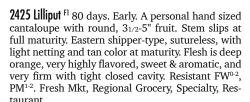


#### Galia

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** 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, Gdn.

### Personal Size Melons \*



**2473U** Sugar Cube Fl 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 PM<sub>1-2</sub>, FW<sup>0-1-2</sup>, PRSV. WMV, ZYMV. Fresh Mkt, Restaurant, Local shipping.

**2475 Tasty Bites**  $^{\rm Fl}$  75-80 days. Perhaps the ultimate gourmet personal sized melon with deep orange flesh offest 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,  $FW^{1\cdot 2}, PM^1.$  Fresh

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)
2422	Lambkin	4.85	14.90	62.80	108.35	98.20	82.00	75.95	69.85
2425	Lilliput	2.95	9.40	38.00	58.65	48.40			
2426	Lilly	3.15	8.20	32.15	51.00	48.35	45.15	41.90	39.60
2438	Oui	2.90	7.55	29.75	47.20	44.75	41.75	38.80	36.65
2501	Passport	2.75	7.95	31.15	49.45	46.90	43.80	40.65	38.40
2473U	Sugar Cube	4.20	11.35	44.55	70.70	67.05	62.60	58.10	54.90
2475	Tasty Bites	5.10	13.30	52.20	82.90	78.60	73.35	68.10	64.35















# Mustard (Brassica juncea)

Approx. 15,000 seeds/oz. Pkt plants 50' of row; 1/4 oz sows 100'. Direct-sow 3-5 lbs/acre. Sow seeds 1/4" deep, 5-10" apart in rows 12-36" apart. Seeds germ in about 9 days. Days to maturity are from sowing.

3155U Mustard Deep Purple 25 days baby leaf, 45 days mature leaf. Brilliant purple foilage with green ribs. Very appealing for salad greens and baby leaf mixes. Baby Leaf, Fresh Mkt, Color Leaf, Ornamental.

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** Fl 20-25 days. Deep, dark red leaves. Very uniform for color, grow 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 pugency. Suitable for use as an ornamental edible or as an element of color in salads. Leaf type mustard and slow bolter. Fresh Mkt., Restaurant.

 $\ensuremath{\textbf{3167}}$   $\ensuremath{\textbf{Savanna}}^{\ensuremath{\mathsf{FI}}}$  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.





Okra (Abelmoschus esculentus)

Fresh or Dried Stalks.

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



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

3198 Clemson Spineless #99 50-55 days. OP. Prolific & ealy. Most traits like Clemson Spineless 80 but with shorter stalk due to shorter internodes. Harvest at 3.5'. Open habit for easier harvest. Pods are green, "spineless", with distinct ridges, and large size, maturing to 6" x 1.5".

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

<mark>3202U</mark> Red Burgundy (Open-pollinated) 60 days. Tender, 5-7" pods of deep burgundy color. 4' 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. Fresh Mkt, Cornucopia, Cutflower Arrangements and Home Gdn.

110011 01									
Cat#	Mustard	1/32 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per ll		10 lb (per lb)
3167	Savanna	2.00	13.15	44.70	75.75	137.80	116.7	<b>7</b> 5	112.55
3177	Tendergreen	1.75	3.70	5.55	9.60	17.15	15.6	5	14.65
Cat#	Mustar	d ·	1/16 oz	1 oz	1/4 lb	1 lb	5 II (per		10 lb (per lb)
3155U	Deep Purp	ole	1.65	4.30	14.25	48.25	42.5	50	39.25
3157U	Florida Broad	l Leaf	1.60	2.55	3.80	8.15	6.3	0	4.55
3159U	Green Wa	ve	2.00	4.40	6.45	21.50	19.0	00	17.50
3162U	Red Giar	nt	1.75	4.40	6.60	22.40	19.8	35	18.20
3172U	Southern Giant	Curled	1.65	2.60	3.85	8.25	6.3	5	4.60
Cat#	Mustar (M=1000		250 sc	d 10	)00 sd	5 M (per M)	10 M (per M)		<b>50 M</b> (per M)
Cat#		))	<b>250 s</b> c		0 <b>00 sd</b> 2.45				
	(M=1000	))	1.70			(per M)	(per M)		(per M)
3161	(M=1000 Mizuna Miz A	merica	1.70	: 1 oz	2.45	(per M) 0.55	(per M) 0.40		0.30 5 lb
3161 <b>Cat#</b>	(M=1000 Mizuna Miz A Okra	merica 1/8 oz	1.70	: 1 oz	2.45 1/4 lb	(per M) 0.55 1/2 lb	(per M) 0.40 1 lb	(2	0.30 5 lb (per lb)
3161 Cat# 3191	(M=1000 Mizuna Miz Ar Okra Candle Fire	1/8 oz 5.25 3.15	1.70 1/2 oz 15.45 9.20	25.35 15.20	2.45  1/4 lb  91.30	(per M) 0.55  1/2 lb 163.15 88.85	(per M) 0.40 1 lb 298.20	(2	(per M) 0.30 5 lb (per lb) 278.75
3161 Cat# 3191 3200	(M=1000 Mizuna Miz Ar Okra Candle Fire Jambalaya	1/8 oz 5.25 3.15	1.70  1/2 oz  15.45  9.20	25.35 15.20	2.45 1/4 lb 91.30 54.35	(per M) 0.55 1/2 lb 163.15 88.85 0 1 lb	(per M) 0.40 1 lb 298.20 170.40 5 lb	( 2 1 10 lb	(per M) 0.30 5 lb (per lb) 278.75 163.15 50 lb
3161  Cat#  3191 3200  Cat#	(M=1000 Mizuna Miz Ar Okra Candle Fire Jambalaya	1/8 oz 5.25 3.15	1.70  1/2 oz  15.45  9.20  1/4 oz  1.65	25.35 15.20 1 oz 1/ 2.00 2	2.45 1/4 lb 91.30 54.35 4 lb 1/2 ll	(per M) 0.55  1/2 lb 163.15 88.85 b 1 lb 5.95	(per M) 0.40 1 lb 298.20 170.40 5 lb (per lb)	( 2 1 10 lb (per lb)	(per M) 0.30 5 lb (per lb) 278.75 163.15 50 lb (per lb)





# 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  $\frac{1}{2}$ " 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**<sup>FI</sup> 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**<sup>FI</sup> 103 days. Intermediate DL. Sweet Spanish type but with Beautiful luminous white skin and interior and high % single centers. This is one of Crookham's Celebrate onions, with vigorous tall tops that create a canoopy to protect bulbs from sunburn, provides a larger leaf area to provide more energy to the root system, fewer hiding places for thrips, and easier spary 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 Soffron** Fl 100 days North, 110 days mid states. Intermediate Day type, 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. Trialed well from North Carolina to Northern US. Maturity will be earlier in north, later in mid states. Not recommended for deep south. Best replacement we've found for Candy. Fresh Mkt, Storage.

## **Long Day**

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

**3223 Carlier** <sup>FI</sup> 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 Curpet FI 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** FI 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 FI 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.

**3252** Red Hunter <sup>F1</sup> 160 days. Short day. A red Grano type hybrid, rated sweetest on market by UGA. Both skin and interior rings very dark red. Good bolt tolerance, suitable for overwintering in mild areas with Vidalia-like climates. Resistant PR. Spring/early Summer.

**3258 Sapelo Sweet** FI 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. Moderate Tolerance PR.

**3276** White Phantom FI 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.





### **Bunching Types** (Scallions)

**3232U** Evergreen White Bunch 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 & 3239U 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 60 days. (Allium cepa). 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.

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Cat	# O	nion	1/16 o	z 1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb
3232	U Evergreer	Evergreen White Bunch		2.95	3.80	10.85	19.15	35.00
3239 & <mark>3</mark>	<mark>239U</mark> F	east	2.35	4.20	10.15	34.65	60.90	110.25
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)
3219	Blush	1.55	5.10	8.10	6.30	5.85	5.30	4.90
3221	Candy	0.74	2.90	4.60	3.70	3.40	3.10	2.90
3223	Cartier	1.65	4.15	6.60	5.30	4.90	4.45	4.10
3226	Century	1.55	3.45	5.45	3.85	3.60	3.30	3.05
3225	Chianti	1.55	3.25	5.15	3.55	3.30	3.00	2.75
3240	Great White	0.69	2.70	4.25	3.40	3.15	2.85	2.65
3246U	Ramrod	1.30	2.00	2.95	2.55	2.30	2.15	1.95
3249	Red Carpet	1.65	4.90	7.75	6.20	5.75	5.25	4.80
3252	Red Hunter	1.60	4.25	6.75	5.40	5.00	4.60	4.20
3257	Saffron	1.55	2.50	4.00	3.20	2.95	2.70	2.50
3258	Sapelo Sweet (1039)	1.55	2.70	4.30	3.20	2.95	2.70	2.50
3276	White Phantom	1.45	2.50	4.00	3.20	2.95	2.70	2.50















**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. Fast growing, 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, crisp, easy to harvest & clean. Nationwide AAS trials reported good durability, holding well longer in field than comparisons. Quite pungent and tasty. Tolerant PR. Fresh Mkt, Shipping, Gdn 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.

Cat#	Onio	on	1/1	6 oz	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb
3227	Crystal White Wax		1	.55	1.60	3.90	13.85	24.55	45.00
3272U	Walla V	Valla	2	.50	4.55	10.90	38.30	62.40	120.00
3274	Warri	or	1	.65	2.45	5.85	20.75	36.80	67.50
3277U	Yellow Swee	t Spanish	2	.35	3.45	5.65	18.40	29.15	44.40
Cat#	Onion (M=1000)	100 sd	500 sd	100	0 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
3218	Almagro	0.88	3.45	5.	50	4.40	4.05	3.70	3.40
3241	Lasso	1.45	3.05	4.	80	3.65	3.40	3.10	2.85
3247	Red Baron Bunching	1.75	3.00	4.	95	4.15	3.70	3.15	2.85
Cat#	Potato (M=1000)		25 sd	100 s	d 50	0 sd	1000 sd	5 <b>M</b> (per M)	10 M (per M)
3701	Clancy		2.40	7.20	29	0.00	49.20	43.60	40.00
Cat#	Shallots (M=1000)		100 sd	100	00 sd		<b>M</b> r M)	10 M (per M)	100 M (per M)
3986	Ambition		1.85		14.00	11.	.20	9.40	8.15



## **Sweet Spanish Types**

**3218** Almagro <sup>F1</sup> 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** <sup>Fl</sup> 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

**32/20** 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.

**3986** Ambition <sup>FI</sup> 90 days. Long Day. The genuine French delicacy at last available from true seed, can be grown like any onion, with less labor and without the diseases carried by sets. Small 1.5" -2" round reddish brown onions with special flavor. Bolt resistant. Very long storage ability. Fresh Mkt, Specialty Mkt.

## 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 which stores more easily than spuds with less risk of carrying disease than vegetative means. Tubersare medium size, 3x4", round oval, smooth skin ranging from red to rose blush, and creamy white or yellow flesh. Germinate indoors or in seedbed like a tomato, transplant at 25 days with 4 true leaves. Delicious flavor midway between russet and yellow varieties. Fresh local, farm mkt, roadside.

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





# 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 or broad, dark green leaves; may be cut repeatedly. Leaves with strong flavor used fresh or dried as herb. Flavoring. Fresh Mkt.

**3287 Fovorit** 75 days. Dark-green double curled type with strong stems. Large frame plant with quick regrowth, multiple cuttings. Highly productive. bunching, Dehydration, Fresh Mkt.





3316U Starlett 80 days, depending on sowing season. Very fast crop time and extra dark green "moss-curled" foilage. Robust plants with potential to yield high volume of dense, heavy leaf cushions on strong stems. Medium rough, curled leaves show good shelf life after harvest. Open Field or Container, Fresh Garnish, Garden Ctr Plant Sales.

**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;  $\frac{1}{2}$  oz sows 100'.Direct-sow 3-5 lbs/acre. Sow seeds  $\frac{1}{4}$ - $\frac{1}{2}$ " 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.

**335U** Jovelin <sup>n</sup> 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.



# Peas (Pisum sativum)

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.

### Cowpeas (Vigna unguiculata)

[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.

166U Mississippi Purple Brown Crowder PPP 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.

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 foilage. Easy harvest by machine or by hand. Straight 8" pods avg 11 peas pre pod. Pod matures to dark purple. Fresh peas are green with pink eye, drying to cream with maroon eye. Resistant BLCMV.

Please see prices on pg 46



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.

Cat#	Parsley	1/16 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
3287U	Dark Green Italian	1.60	2.15	3.85	6.25	9.70	9.15	8.60	8.25
3292	Favorit	1.75	5.50	19.20	33.25	61.00	57.00	54.00	50.00
Cat#	Parsley	1/4 oz	1 oz	1/4 lb	1/2	lb	1 lb	5 lb (per lb)	10 lb (per lb)
3316U	Starlett	1.65	4.00	13.70	23.6	55 4	2.00	38.50	36.00
3312	Triple Curled	1.60	2.00	3.70	4.6	5 8	3.30	7.60	7.15
Cat#	Parsnip	1/8 oz	1 oz	1/4 lb	1/2	lb	1 lb	5 lb (per lb)	10 lb (per lb)
3327U	Harris Model	1.75	2.25	3.30	5.8	30	10.30	9.40	8.80
Cat#	Parsnip 10 (M=1000)	0 sd 5	00 sd	1000 s	d	5 M (per M)		M r M)	50 M (per M)
3335U	Javelin 1	.70	1.95	3.25		2.75	2.	45	2.25







**Garden Peas** (*Pisum saticum*)

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 FW¹, PM.

1282 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 31*.

Cat#	Cowpe	a	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)
1164U	Mississippi Pir Purple Hi		3.40	5.30	8.35	6.60	5.30	4.45	3.55	2.85
1166U	Mississippi F Brown Crov		2.90	4.50	7.10	5.65	4.50	3.75	3.05	2.40
1168	Pinkeye Purp	le Hull	2.10	3.25	5.10	4.05	3.25	2.70	2.20	1.75
1175	QuickPick Pi	nkeye	3.10	4.80	7.55	6.00	4.80	4.00	3.25	2.60
1177U	Top Pick Br Crowde		3.15	4.90	7.70	6.10	4.90	4.10	3.30	2.65
1180U	Top Pick Pin	keye	3.15	4.90	7.70	6.10	4.90	4.10	3.30	2.65
Cat#	Pea	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)
1271U	Green Arrow	2.50	3.80	5.95	4.65	3.70	3.25	2.80	2.30	2.00
1312U	Little Purple	6.45	9.95	15.50	12.00	7.25	6.75	6.35	6.15	6.00
1276	Mr. Big	6.70	10.30	16.05	12.60	10.00	8.80	7.50	6.25	5.35
1277U	Parsley	1.75	2.70	4.20	3.35	2.65	2.20	1.80	1.40	
1282U	Patio Pride	15.90	24.55	38.20	30.05	23.85	20.95	17.90	14.90	12.80
1278U	PLS 595	1.60	2.35	3.65	2.90	2.35	1.95	1.55	1.25	
1295	Sugar Sprint	5.25	8.05	12.55	9.90	7.85	6.90	5.90	4.90	4.20
1300	Super Sugar Snap	4.55	7.00	10.90	8.55	6.80	5.95	5.10	4.25	3.65
1324U	Oregon Sugar Pod II	2.30	3.55	5.55	4.35	2.50	2.20	1.90	1.60	1.35
1280U	Strike	1.70	2.35	3.65	2.90	2.35	1.95	1.55	1.25	
1281	Wando	2.20	3.50	5.60	4.55	3.70	2.00			



**12780** 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 rightAfila vine type, 28-32", requires no trellising. Resistant FW<sup>1</sup>, 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) (Pisum sativum)

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 sativumvar, saccharatum)

**13120** Little Purple<sup>Fl</sup> 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, stirfried or steamed. Vines 26" need no support. Tolerant PEMV, PM PSV, Fresh Mkt.

(	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								

# **Sweet 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.** 





Summer Sweet  $^{\circledR}$  is a registered trademark of Abbot & Cobb, Inc.

All varieties in the Summer Sweet  $^{\circledR}$  series are also part of our Professional Seeds Series.

Variety	Days	Shape and Color	Disease	Description
Sweet Bell				
3345 Antebellum X10R® F1	74		Resistant TMV; Tolerant BLS 1-10, TSWV	Southeast trials marked this a must have for the region. Jumbo size. No purpling. Large crown set. Can be programmed for all seasons. Fresh Mkt, Shipping.
3373 Bayonet <sup>F1</sup>	70 green, 80 red		Resistant BLS1-5,7,8,9, TMV. Tolerant TSWV 0.	70 days green, 80 days red. Highly commercial bell with unique traits important to producers. Powerful broad disease package confers wide adaptability. 3.5 x 3.5", completely blocky peppers, best shape and size for packout to shipping box. Continuous fruit set on strong stemmed 2 ft plant, with open structure and tight leaf canopy for easy harvest, little breakage and good sun cover for fruit. High potential yield across multiple harvests. Extra vigor provides tolerance against stress conditions such as cold and drought. Fresh mkt, Shipping.
3377U California Wonder #300	74			OP. Selected mosaic resistant strain. Avg size 4" x 4". Mostly 4-lobed. Compact 24-28" plants. Fresh Mkt, Commercial.
3394U Chablis <sup>F1</sup>	60		Resistant BLS, TMV	4" x 3" fruit. Can be picked at any stage, but flavor sweetens with maturity. Compact 15-18" plants good for bedding or container sales. Color Pepper Mkt, Container.
3410U Encore <sup>F1</sup>	50-60		Resistant PMV, PVY0-2	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.
<mark>3425U</mark> Golden California Wonder	70			OP. Yellow version of the famous California Wonder #300. Blocky 5" x 4" thick walled fruit. Long harvest season.
3467U Jupiter PVP	72			OP. Very large, extremely blocky fruit. 4" x 4". Widely adapted. Fresh Mkt, Shipping, Garden.
3468U Keystone Resistant Giant #3	72-80		Tolerant TMV	OP. Large fruited Florida Giant type, produces 4.5" x 3.75" fruits. Thick stems on 30" plants resist breakage. Pendant habit for easier harvest.
3472 King Arthur <sup>F1</sup>	72		Tolerant BLS2, PVY, TEV, TMV	Large blocky 4.5" x 4.5", 3-4 lobed fruit. Upright habit. Widely adapted.
3475 Majestic Red <sup>F1</sup>	75 green, 85 red		Resistant BLS 0-3, 5, 7, TMV; Tolerant Pc	Intense color. Fruit can reach $5.5$ " x $3.5$ " and avg 4-6 oz. Vigorous plants provide good protection. Widely adapted in the US. Fresh Mkt, Regional Shipping, Garden.
3489U Muscato F1	75		Tolerant TMV	Heavy yields of thick walled pendant fruits produced on strong 24" plants. Continual bearing. Fresh Mkt, Roadside, Processing, Color Pepper Mkt.
3492 Ninja S10 <sup>F1</sup>	75 green, 89 red		Resistant TMV, Med Resistant BLS 0-10	75 days green, 89 days red. Mid to Mid Early. Well suited to production wherever BLS is a concern. Super-broad resistance to BLS races 0-10. Fruit grades at extra large to jumbo size. High yield potential with mostly 4.5"Lx 4" diam fruit reported in trial. Thick walls have been measured at .25" thick. Fruit size is quite uniform and firm., glossy dark green at first, then ripening red. Strong plants, good setting ability, good leaf canopy for fruit protection. Very good for solving some Eastern US growing problems.
3494 Orange Blaze X3R® F1	65-70		Resistant BLS 0-3, 7-8, TMV 0	Very early, sweet 2-3 lobed fruit on 24" plants. Potential for high yields of mid-sized peppers.
3496 Playmaker X10R® <sup>F1</sup>	56 green, 70 red		Resistant TMV, Intermidiate Resistance BLS 0-10	High marks for yield potential, 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" tall or larger. Anthocyaninless, so fruit keeps attractive, clear color to market. Can be a game-changer for all growers where Bacterial Leaf Spot is present.
3500 PS 09941819 X5R®F1	74		Resistant BLS 1-5, TMV 0; Tolerant Phytophthora	Large fruited 5" x 4.5" set continuously on 22-28" plants. Non-purpling gene, so color comes in clean with no dark streaks even under stress.
3504U Recovery F1	60		Resistant BLS 1-5, 7-9	60 days red. Large, smooth thick walled fruit. Quick transition to red provides potential to supply early summer market slots with large blocky reds from U.S. field crops. Mostly 4-lobed 4.5" x 4.5" fruit. Vigorous open bush habit, about 2ft tall. Widely adapted for cool to warm conditions.
3524 Samurai S10	70 green, 84 red		Resistant TMV, Tolerant BLS 0-10	70 days green, 84 days red. Early to mid-early. Well suited to production wherever BLS is a concern. Super-broad resistance to BLS races 0-10. Fruit grades at mostly large to extra large. High yield potential with mostly 4"L x 3.5" diam fruit reported in trial. Thick walls have been measured at .25" thick. Fruit size is quite uniform and firm., glossy dark green at first, then ripening red. Strong plants, good setting ability, good leaf canopy for fruit protection. Very good for solving some Eastern US growing problems.
3631 Touchdown <sup>F1</sup>	70 green, 76 red		Resistant BLS 0-5, 7- 9, Pc	Trials avg 5" x 4.5" fruit on medium sized vigorously branched plants. Extended harvest. Tight foliage canopy protects from sun scald. Fresh Mkt, Shipping.
3633 Turnpike X5R®F1	55 green, 65 red		Resistant BLS 0-5, 7-9, Pc	8 to 9 oz fruits measuring about 5.5" x 4". Concentrated fruit set. Multi-resistant disease package.





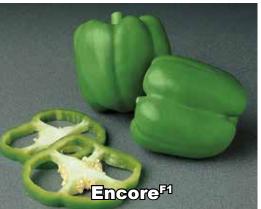














1/32 oz 1/2 oz

Pepper

Cat#



5 lb (per lb)

1 lb

25 lb (per lb)



3377U	California Wonder #300		1.65	1.85	3.00	11.15	19.95	37.25	35.30	33.60
3425U	Golden California Wo	nder	1.95	6.25	10.50	37.95	68.50	120.20	103.75	98.65
3467U	Jupiter		2.15	8.15	13.70	49.50	84.00	155.00	144.00	140.00
3468U	Keystone Resistant Gia	ant #3	1.65	4.50	7.25	25.50	46.00	80.00	75.00	72.00
Cat#	Pepper (M=1000)	25 sd	100 sd	500 sc	d 1000	) sd	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3345	Antebellum (X10R®)	7.45	19.40	76.15	119	.30	116.25	111.35	106.40	102.75
3373	Bayonet	3.60	11.15	42.00	49.	60	48.30	47.05	45.75	44.85
3394U	Chablis	2.55	7.90	33.25	58.	00	52.00	48.50	46.00	43.75
3410U	Encore	2.75	7.35	29.00	46.	15	44.90	43.70	42.55	41.65
3472	King Arthur	5.15	13.20	42.00	57.	80	56.30	53.90	51.50	49.80
3475	Majestic Red	4.00	10.35	40.75	64.	70	62.70	61.20	59.70	58.65
3489U	Muscato	2.00	6.15	24.70	42.	25	36.40	31.20	27.30	24.70
3492	Ninja S10	5.80	15.10	59.30	94.	15	91.30	89.10	86.90	85.40
3494	Orange Blaze X3R®	9.45	24.15	89.50	118	.50	115.45	110.55	105.65	102.15
3499	Playmaker X10R®	6.15	16.75	65.75	104	.35	101.65	97.35	93.15	89.90
3500	PS 09941819 (X5R®)	8.15	21.20	77.40	100	.65	98.00	93.90	89.75	86.70
3504U	Recovery	3.40	8.80	34.55	49.	90	48.60	47.30	46.00	45.15
3524	Samurai S10	5.30	14.35	56.45	89.	60	86.85	84.80	82.70	81.30
3631	Touchdown	4.00	10.45	41.00	52.	50	50.90	49.70	48.45	47.65
3633	Tumpike X5R®	7.75	20.00	73.35	102	.30	99.70	95.45	91.25	88.20

Fax: 864-227-5108

1 oz

1/4 lb 1/2 lb

	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







# **Sweet Peppers**

Variety	Days	Shape and Color	Disease	Description
Colored Bell				
3497U Orange Sun	70 green, 80 orange			Excellent flavor, thick flesh, 3-4 lobed. Avg size is 4-5".
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.
3612U Sweet Chocolate	58 green, 86 chocolate			Early medium 3-4 lobed pepper with thick walls and unusual, intense chocolate color at full maturity.
Sweet Banana				
3372 Banana Bounty <sup>F1</sup>	65			Fruit averages 8" x 2" at stem, tapering to a point. Turns red at full maturity. Prolific yields. Fresh Mkt, Processing.
3607U Sweet Banana	68	<b>1</b>		OP. Hungarian wax type. 6" x 1.5" 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. Needs no staking. Easily grown in containers; capable of extended harvest. Fresh Mkt, Processing, Bedding Plant Sales. Southeast, Heartland, West/Northwest.
Sweet Specialt	У			
3387U Carmen F1	60 green, 80 red			Classic Italian bullhorn shape. 5 oz fruit is 6" x 2.5". Early and productive. Widely adapted. Fresh Mkt, Roadside, Garden.
3395 Cherry Pick <sup>F1</sup>	68 green, 82 red	6	Resistant TMV	Unusual uniform 1.5" fruit are cherry shaped. 20" plants, good stalk strength and cover. Concentrated set, easy harvest, good yield potential. Fresh Mkt.
3396U Cornito Giallo F1	<b>A6</b> 75			Italian frying type with sweet, fruity flavor. Cone shaped 6" x 2" peppers avg 5 oz. AAS trials reported 25-35 fruit per plant. Specialty, Restaurant, Garden Center.
3411U Escamillo <sup>F1</sup>	A <b>S</b> 77			Italian roasting type, also good raw or fried. 8" x 2.5", avg 6 oz. High yields reported in nationwide trials. Fresh Mkt, Specialty, Garden Center.
3426U Grenada F1	75 green, 82 red		Resistant BLS 0-3, 7-8	Large cubanelle with long blocky shape and shallow shoulders. Plants 2'-3' with dense canopy. Wide adaptation. Fresh Mkt, Shipping, Garden Center, Bedding Plants.
3476U Mama Mia Giallo <sup>F1</sup>	85		Tolerant TMV	Early, sweet Marconi type. Good raw; better roasted. Horn shaped fruit is 7-9" and avg 2-4 oz. Compact plants 10-24", spread to 20", can bear 25-30 fruit. Fresh Mkt, Cello, Chef Specialty, Bedding Plant.
3479 Marconi Red	70-91			Elongated fruit up to 12" long x 3" diameter at shoulder. Ripens red early, Plant ht 24" - 30" spreading 24" - 30". A choice Italian heirloom. Fresh mkt, restaurant, specialty.
3498U Pimiento	65 green, 90 red			OP. High yields of smooth, thick walled heart shaped fruit 3" x $2.5$ ". Extra sweet when red ripe. Fresh Mkt, Canning.
3509U Right On Red F1	58 green, 65 red	<b>6</b>		Eye catching, 2 oz flat round; has continuous set for longer harvest. Plants 18" container, 24" garden. Smaller fruit in container. Fresh Mkt, Bedding Plants, Containers.
3620 Takara <sup>F1</sup>	60			Shishito, much in demand. Produces some citrusy and some hot fruits on each plant. Dark green, crinkly, 3.5" x 1" with blunt tips, thin walls and tender cavity. Good whole or sliced, sautéed or raw. Fresh Mkt, Specialty, Restaurant, Garden Center.















Cat#	Pepper	1/32 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb
3479	Marconi Red	1.75	4.55	7.30	25.85	45.80	84.00
3498U	Pimiento	1.75	5.00	8.00	28.60	51.15	93.30
3607U	Sweet Banana	1.65	2.95	4.75	16.75	29.75	55.00

36070	S	weet Bana	na	1.6	55 2.95	5 4.75	16.75	29.75	55.00
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)
3372	Banana Bounty	4.85	12.65	46.80	61.50	59.90	57.35	54.85	53.00
3387U	Carmen	6.35	17.75	69.85	110.85	105.15	98.15	91.15	86.10
3395	Cherry Pick	4.80	12.45	45.80	60.15	58.55	56.00	53.60	51.75
3396U	Cornito Giallo	8.15	21.15	83.15	132.00	125.20	116.85	108.50	102.50
3411U	Escamillo	5.60	16.30	64.00	101.55	96.35	89.90	83.50	78.85
3426U	Grenada	3.80	9.90	38.85	50.40	48.85	47.70	46.55	45.70
3476U	Mama Mia Giallo	2.40	7.25	30.40	52.75	47.60	44.40	42.00	40.00
3497U	Orange Sun	1.75	2.30	3.55	5.30	4.75	4.45	4.20	4.00
3502U	Purple Beauty	1.60	2.00	2.80	4.20	3.80	3.55	3.35	3.20
3509U	Right On Red	3.75	9.90	39.15	54.40	52.35	50.70	49.35	
3612U	Sweet Chocolate	1.95	3.00	8.15	12.25	10.15	8.55	6.70	5.45
3615	Sweet Sunset (X3R®)	4.70	14.60	50.45	72.20	70.40	67.35	64.40	62.20
3620	Takara	4.80	12.50	46.90	67.60	65.55	64.00	62.40	61.35





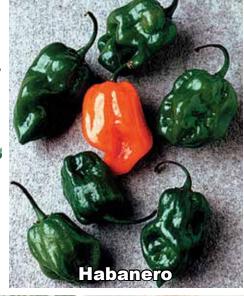
# **Hot Peppers**

Variety		Days	Shape and Color	Disease	Description
Ancho/Poblano					
3487U Mulato Islano		85-95			Thick, tasty flesh. Full ripe "ancho" stage used for drying. 6" x 3" heart shaped with mild heat. 1000-1500 Scovilles. Fresh Mkt, Rellenos, Drying, Salsa, Processing.
3506U Poblano		73			73 days. 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.
3632 Trident <sup>F1</sup>		80-85		Resistant ToMV	Recommended sub for Tiburon. High yield potential. Extra large 6.5x3.5" avg 5 oz. Shiny dark green maturing to red. Mildley pungent (250-1500 Scovilles). Has ability to keep fruit size during multiple picking over extended harvest season. Tapering, mostly 2 lobed fruit. Widely adapted, performed well in a wide range of soils and climates. Good dry weight.
Cayenne					
3397 Arapaho <sup>F1</sup>		60-65			Long, narrow fruit colors quickly to vibrant red with medium pungency. Compact but robust plant habit. Fresh Mkt, Processing, Shipping.
3393U Cayennetta <sup>F1</sup>	AB	69			Prolific 3-4" mild fruit. 24" plants spread to 20". Compact and bushy. No stalking. Hot and cold weather tolerant. Fresh Mkt, Bedding, Container, Ornamental edible.
3392 Cayenne Large Re	ed	74			$\label{eq:continuous} OP.6-7"x1.25" \text{ fruits with medium thick hot flesh. Plants average 24" Fresh mkt. Drying, Processing, Salsa.}$
Chili					
3342 Anaheim Chili		77			Pungent 7-8" x 1.5" fruit with medium thick flesh. Olants 28-34". Fresh Mkt. Drying, Processing.
3415 Flaming Flare <sup>F1</sup>	AS	55 green, 65 red		Resistant Tobamovirus P-0	Triangular 4" x 1" fruit taper to a pointed tip. Breeder claims heat is 500-1000 Scovilles. Plant is 2', spreading to 2'.
3419 & <mark>3419U</mark> Garden S	Salsa <sup>F1</sup>	73-75	<b>&amp;</b>	Resistant PMV, PVY 0-1	8.5" x 1" fruit with 2500-3000 Scovilles. Plants are 28" and hold fruit well about ground. Test show excellent yield potential. Fresh Mkt, Rings, Salsa.
3424 Giant Ristra <sup>F1</sup>	AB	80		Tolerant TMV	Very large pepper, 6-7" and 4 oz. Marconi type, with heat of cayenne. 30,000 Scovilles. 24" x 15"-18". 15-18 fruit per plant. Fresh Mkt, Processing, Bedding. <i>Mountain/Southwest</i> .
3508 Sahuaro <sup>F1</sup>		68		Resistant PMV	Large chili, up to 9" with thick walls. Mildl pungent at about 500 Scovilles. Trials indicate high yield potential as well as extra large fruit. Excellent roaster. Fresh Mkt.
3671U Tabasco		80			OP. Capsicum frutescens. Very hot, grows erect from branches of tall plants. Strong pungency laid over classy flavor. Fresh Mkt, Processing, Specialty garden.
Habanero					
3398 Chicken Itza <sup>F1</sup>		115-120		Resistant Tobamovirus	Classic crinkled fruit 2.5" x 1.25", firm walled and medium large. Hybrid habenero 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 <sup>F1</sup>	AS	85			AAS Winner 2018. HEATLESS Habenero, all the flavor with none of the heat. Tested nationwide, with no off types reported. Handsome erect 3.5 ft plant bears 100 or more 1-oz (3"x1.5") fruit over extended harvest season.
Hot Banana					
3436 Hot Sunset X3R®F1	AB	55		Resistant BLS 0-3, 7-8; Tolerant TSWV	Extra large fruit at 7.5" x 1.5". Thick walled with avg weight 1.6 oz. 600-800 Scovilles. Vigorous 2' plants, spreading to 2'. <i>Great Lakes, Heartland, Southeast</i> .
Jalapeño					
3409 Emerald Fire X3R®	F1 AS	55 green, 65 red		Resistant BLS 1-3,7-8	Mega Jalapeño at 4" x 1.5". Avg weighrt 1 oz. Bullet shaped with thick walls. Good heat even at green stage but not blistering. 1300-2000 Scovilles. Little corking.
3412 Felicity <sup>F1</sup>	*				Heatless Jalapeño offers flavor without pungency. Continues fruit set for potentially high yields of thick walled peppers. Plant habit is semi-upright.
3450U Jalafuego <sup>F1</sup>		70		Resistant BLS 1-3, PMV, PVY 1-2	High percentage of extra long fruit which retains quality under stress. 4000-6000 Scovilles. Large, vigorous plant. Fresh Mkt. Shipping, Poppers, Processing.
<mark>3462U</mark> Jalapeño M		72			OP. Large fruits on sturdy, upright plants. Fresh Mkt. Processing.
3496U Paquime <sup>F1</sup>		50-70		Resistant	Consistent for very large thick-walled Jalapeño, with fruit 4.75" long x 1.5" wide at shoulder. Vigorous 24" plants set fruit high in plant, provide strong sun cover enable high yield potential. Smooth, firm, classic Jalapeño shape.

















Cat#	Pepper	1/32 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb
3342U	Anaheim Chili	1.80	3.45	5.55	19.65	31.60	53.45
3392	Cayenne Large Red	1.75	3.50	5.65	20.00	35.45	65.00
3427U	Habanero	3.40	15.15	24.45	78.20	103.20	187.65
3462U	Jalapeño M	1.65	3.20	5.00	17.90	31.75	58.00
3487U	Mulato Isleno	1.60	4.50	7.30	25.85	45.80	84.00
3506U	Poblano	1.55	5.65	9.15	32.30	57.25	105.00
3617U	Tabasco	1.75	11.45	18.45	65.25	115.65	212.15



Cat#	(M=1000)	25 sd	100 sd	500 sd	1000 sd	5 IVI (per M)	10 M (per M)	(per M)	(per M)
3397	Arapaho	4.25	11.95	46.90	62.60	60.65	59.20	57.75	56.75
3393U	Cayennetta	13.80	35.85	140.95	92.30	89.95	87.50	85.15	83.50
3398	Chichen Itza	6.20	16.15	61.65	69.55	67.75	64.85	62.00	59.90
3409	Emerald Fire X3R®	5.00	13.00	49.15	69.15	67.30	64.45	61.60	59.50
3412	Felicity	2.80	7.30	28.35	40.60	39.35	38.40	37.45	36.85
3415	Flaming Flare	5.15	13.40	50.65	68.80	67.00	64.15	61.35	59.25
3419 & <mark>3419U</mark>	Garden Salsa	5.15	13.40	44.80	60.85	59.25	56.75	54.20	52.45
3424U	Giant Ristra	1.55	4.70	19.75	34.30	30.95	28.85	27.30	26.00
3436	Hot Sunset X3R®	5.35	13.70	52.35	69.00	67.20	64.35	61.50	59.40
3450U	Jalafuego	3.80	9.95	39.20	50.25	48.75	47.55	46.40	45.60
3496U	Paquime	3.15	8.45	33.25	52.70	51.35	50.00	48.65	47.65
3512	Roulette	5.35	14.15	55.80	85.60	81.40	77.20	73.75	
3508	Sahuaro	5.45	14.20	50.70	67.30	65.60	62.80	60.00	58.00
3632	Trident	3.15	9.30	36.60	58.05	56.30	54.95	53.60	52.70

Fax: 864-227-5108

	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

Email: twilley@twilleyseed.com

**52** 









# **Hot Peppers**

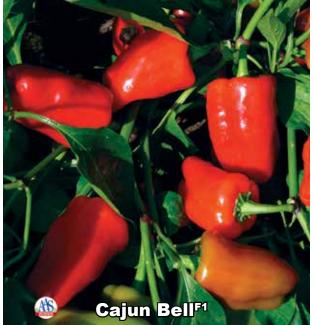
Variety		Days	Shape and Color	Disease	Description
More Jalapeño					
3534 Spicy Slice F1		75-80 green, 85-90 red		Resistant BLS 1-3, 7-8; Tolerant TEV	Extra long pepper at 4-4.75" x 1.75". Pungency is distinct but not overpowering at up to 2500 Scovilles. Vigorous tall plant with continuous set.
<mark>3622U</mark> Tam Jalapeno #1		85			OP. 3" $\times$ 1". Mildly hot fruit for those who enjoy the flavor of jalapeno but with less heat. Perfect for pickling or salsa. Fresh Mkt, Processing.
Oriental Chili					
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.
Serrano					
3404 Cocula <sup>F1</sup>		75 green, 80 red	<b>\$</b>	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.
3416 Flaming Jade X3R®F1	AK	75	<b>\$</b>	Resistant BLS 0-3, 7-8, N, Tobamovirus	Very hot cylindrical 4" x 1" fruit avg 7 oz. High yields up to 65 fruits per plant. 2' or more, spreading to 2'. Fresh Mkt, Specialty, Garden Ctr, Processing.
Hot Specialty					
3371U Cajun Belle	AS	61			Sweet bell shape 3" $\times$ 2" but with mild piquancy, making a sweet and hot flavor combo. High vitamin C level. 2' plants can be grown in field or container.
3401U Cowhorn		75			Distinctive curved pods 6-10", resemble cow horns. 3' plants bear pendant fruit. Fresh Mkt, Sauces.
3420 Ghost (Naga Jolokia)		100-120			Said to be world's hottest pepper. Originates in Assam region of India. 2' teardrop fruits. 30" in container, 60" in garden. Also sold as Bhut Jolokia.
3434 Holy Mole <sup>F1</sup>	AS	85 green, 99 chocolate		Resistant TMV	Pasilla type. 7-9" x 1.5" tapered fruits. Mid hot, 700 Scovilles. Distinctive flavor for mole recipes. Grows up to 3', spreading to 30". Fresh Mkt, Dried, Sauces.
3437 Hungarian Yellow Wax Hot		65			6"L x 2"W fruits are tapered with very thick, hot flesh. Fresh Mkt, Processing.
3474 Mad Hatter <sup>F1</sup>	AS	68 green, 88 red			Exotic shaped fruit, edible and ornamental. Sweet and citrusy taste with tinge of heat near seeds. Excellent vigor, high yields. 24" container, 36" garden. Ethnic cuisine.
3477 Mariachi <sup>F1</sup>	AS	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.
3507U Red Cherry Large Ho	t	77	8		Hot cherry type. 1.5-2" fruits. Strong upright plants to 20". Fresh Mkt, Pickling. Processing.
3638 Witch Stick			88		Extremely early. Unique tricolor pepper, bands of green, gold, and red all on the same pencil-thin 6" twisted-spiral fruit. Medium mildly hot.

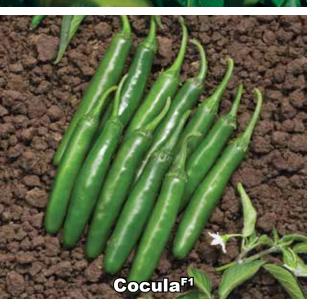














Cat#	Pepper	1/32 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb
3401U	Cowhorn	1.75	5.65	9.15	32.30	57.25	105.00
3437	Hungarian Yellow Wax Hot	1.80	6.55	10.55	32.75	56.00	94.00
3507U	Red Cherry Large Hot	1.75	4.20	6.70	23.60	41.80	77.75
3622U	Tam Jalapeno #1	1.65	3.00	4.85	17.25	30.60	56.15



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)
3371U	Cajun Belle	5.75	13.65	63.50	117.65	75.25	48.00		
3404	Cocula	4.85	12.70	50.50	59.15	56.25	53.30	50.90	
3416	Flaming Jade X3R	5.15	13.40	46.70	59.65	58.15	55.65	53.20	51.40
3420	Ghost (Naga Jolokia)	3.25	11.00	51.00	85.50	75.00			
3434	Holy Mole	4.40	13.40	45.15	60.00	58.40	55.95	53.50	51.65
3474	Mad Hatter	5.60	13.30	61.40	112.85	91.65	83.45		
3477	Mariachi	6.45	16.80	48.20	76.45	74.45	71.35	68.20	65.90
3534	Spicy Slice	4.60	12.00	47.00	60.95	59.10	57.70	56.30	55.30
3625U	Thai Hot Culinary	1.65	2.60	10.75	18.70	16.80	15.70	14.85	14.15
3638	Witch Stick	2.90	8.70	35.25	60.00	53.00	48.50		





(Cucurbia Pepo)

14.85 38.70











152.00 216.00

205.10

183.35 175.70

packets prod Germ in abou	00 sd/oz. large seeded; approvuce 10 hills; 1/2 oz sows 100' cut 7 days. Days to maturity aruit weight, provide wider spa	of row. Sow e from sow	1lb/acre. Sow ving. For Pum	1" deep, aboutt 3 pkins designed t	ft. apart in rows 7.5 to reach 30 lbs or	5 ft. apart.	Big Ma		Dill's	S Atlantic Giant Jac	
Disp	GIANTS - lay or Competition	on	Days	Weigh	t Shap	e Color	Disease			Description	
3735U	Big Max		120	100	Round	d Pink Orange	)			to 100 lb. fruit. Distinctive pinkish-orange rind. Bright ood cooking quality. Fresh Mkt, Harvest Fairs, U-Pick.	
3738 E	Big Moose		120	50-125	Round	d Red Orange	•		OP. Giant Jack-o-Lantern with yield almost like a hybrid. Fruit size r 125 lbs. Uniform size & shape. Jack-o-Lantern, Cornucopia, Harves		
3766U	Dill's Atlantic Gia	nt	120	100-600	) Round	d Classic Orange		OP. Capable of producing giant show pumpkins in the range of 100 Slightly rough, nicely ribbed rind. Large vine.			
	LARGE - k-O-Lanterns	Da	ays '	Weight	Shape	Color	Disease			Description	
3751 C	aptain Jack <sup>F1</sup>	100	)-110	30+	Howden	Deep Orange	Tolerant PM	its ov		tom enable fruit to stand on its own & not collapse under dium deep ribbing. Thick embedded handle. Vigorous al fruits.	
3763 E	arly Giant <sup>F1</sup>	Ş	95	25-30	Howden	Deep Orange	Medium Tole	it a p	remium carving	e shaped fruit. Imposing brow and wide flat base make variety. Deeply ribbed. Earliness means more chances window for Halloween mkts. Full, strong vine supports ruit.	
3794 H	owden Biggie <sup>PVP</sup>	1	15	40	Howden	Deep Orange				a large classic shaped fruit. Raised from elite stock seed stant skin. Firm thick flesh. Sturdy handles.	
3813 L	arge Marge <sup>F1</sup>	1	05	30-40	Round	Deep Orange		size is	30-40 lb and 13"x 1	. Capable of multiple fruit set per plant while maintaining large size. Av 3" diam. Exterior is deep orange, ribbed and wrinkled. Very strong & larg Idle, about 5" long, supports fruit size well. Vigorous indeterminate vines	
3837 N	ew Moon <sup>F1</sup>	80	I <b>-</b> 90	25-35	Round	White				a breakthrough in appearance in the novelty pumpkir e. Firm flesh holds for weeks but fades to ivory over time	
Cat#	Pumpkin		1/4 oz	1 oz	1/4 lb 1	/2 lb 1 lb			25 lb per lb)	Pumpkin Disease Codes	
3735U 3766U	Big Max Dill's Atlantic Gia	ınt	2.65 4.25			20.40 31.15 75.90 136.85			16.50 CM	V Cucumber Mosiac Virus	
Cat#	Pumpkin (M=1000)	25 sd	100 sc	d 500 sc	d 1000 s	d 5 M (per M)			50 M per M)	R Southern Root Rot	
3738	Big Moose	14.30	43.95	184.15	5 320.45	5 289.25	269.45 2	54.90 2	42.40		
3751		5.80	15.25						33.80 BR	Black Rot	
3763	Early Giant	5.50	14.25	56.05					66.35 WN	<b>Ⅳ</b> Watermelon Mosiac Virus	
3794 3813	Howden Biggie	6.25	19.35						01.85	watermeion wosiac virus	
3837	Large Marge New Moon	5.85 14.85	15.25 38.70						75.70 PI	Powdery Mildew	

















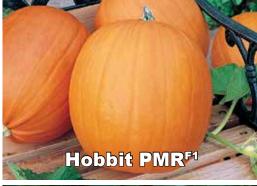
LARGE - Jack-O-Lanterns	Days	Weight	Shape	Color	Disease	Description
3749 Camaro PMR <sup>F1</sup>	110	20-23	Round	Classic Orange	Resistant PM	Trials in CO, IN, CA and NY report higher level of PM than found in previous genetics. Slight to medium ribbing. Firmly attached handles. Restricted vines show high yield potential.
3755U Connecticut Field	115	15-20	Round	Classic Round		OP. Selected strain of an old classic. Attractive fruit.
3770 Early Prince <sup>F1</sup>	90	15	Round	Deep Orange		A workhorse which allows for flexibility in sow dates up to mid July when targeting October market window. Excellent performance reported in Mid Atlantic, Northern, West Coast and Canadian markets.
3795U Howden	115	20-25	Howden	Classic Orange		OP. Classic Halloween pumpkin shape with tall brow and broad, stable base. Deeply ribbed. Substantial green handles. Good keeper. Fresh mkt, Roadside, Halloween, Shipping.
3811 Jason <sup>F1</sup>	110	20-24	Howden	Deep Orange	Tolerant PM	Premium quality fruit fitting the spot of the old ProGold 150. Supberb strongly attached handle. Vine is medium sized. Potential for high yield. 1-2 fruit per plant, sometimes 3 under favorable conditions.
3832 Mr. Wrinkles <sup>F1</sup>	110	20-30	Tall Round	Deep Orange		Deeply wrinkled & ribbed. Rugged deep green embedded handles. Thick flesh. Very strong vines.
3834 Mustang PMR <sup>F1</sup>	100	22	Round	Classic Orange	Resistant PM	Very uniform with distinct but smooth sutures for a refined look. Dark green, sturdy handles. Reduced vine habit for potential high yield.
3896 Super Moon <sup>F1</sup>	90	25-30	Tall Round	White	Tolerant SRR,	Unique great white pumpkin. Can weigh up to 50 lbs. with rich culture. Pale yellow flesh is good for eating. Vine spreads 4-5' with average of 2-4 fruite. Jack-o-Lanterns, Culinary, Decoration, <i>Southeast</i> , <i>Great Lakes</i> .
3899 Ugly Mugly <sup>F1</sup>	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 and deep. Long, light green handle with white stripes. Large, vigorous trailing vines.



Cat#	Pumpkir	1	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
3755U	Connecticut F	ield	1.75	2.55	4.60	8.00	14.45	13.45	12.75	12.15
3795U	Howden		1.60	2.35	6.00	10.55	18.95	17.20	14.20	12.15
3896	Super Moo	n	5.80	16.80	55.05	87.35	87.50	81.70	76.40	72.00
Cat#	Pumpkin (M=1000)	25 s	sd 10	00 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3749	Camaro PMR	5.9	0 1	5.25	60.00	74.25	71.45	68.15	64.85	62.45
3770	Early Prince	5.6	0 1	4.50	57.05	90.55	83.95	77.85	71.75	67.50
3811	Jason	5.2	0 1	5.90	62.35	93.80	86.95	80.65	74.35	69.95
3832	Mr. Wrinkles	4.8	5 1	2.65	49.80	79.00	77.25	74.45	71.65	69.60
3834	Mustang PMR	5.9	0 1	5.25	60.00	74.25	71.45	68.15	64.85	62.45
3899	Ugly Mugly	4.1	0 1	0.65	41.80	66.40	61.55	57.05	52.60	49.50













LARGE - Jack-O-Lanterns	Days	Weight	Shape	Color	Disease	Description
3750U Casper	<b>9</b> 0	10-15	Round	White		OP. Improved to minimize bluing under stress, which affects some white pump-kins. Thick orange interior. Distinct tan, corky handles. Good for eating. Fresh Mkt.
3758 Corvette PMR <sup>F1</sup>	110	11-14	Round	Classic Orange	Resistant PM	Slightly ribbed with very strong handle attachment. Semi-bush habit and strong disease package improve chances for plenty of pumpkins.
3759 Cougar PMRPVP F1	80	10-12	Round	Classic Orange	Resistant PM	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.
<mark>3764U</mark> Dark Night <sup>F1</sup>	70-100	8-10	Round	Black to Orange		Wonderful new novelty Jack-o-Lantern. Rind develops deep ebony green, near black. Interior flesh is bright orange and provides striking contrast whether hollowed and carved or surface-carved. Color gradually speckles and eventually turns all orange. Can be sold at dark, speckled, orange stages. Handle stays black. Excellent storage capabilities, very tough rind. Semi-bush habit. Resistance in test.
3790 Hobbit PMR <sup>F1</sup>	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.
3815 Lumina	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.
3831 Moonscape <sup>F1</sup>	110	15-18	Round	Light Orange		Very cool. A high performing hybrid, crossed on a rare heirloom type. Light red- dish-orange skin splashed all over with white speckles. Handle is also bicolored, green with broad white stripes. Flesh is thick bright yellow. Big vine with potential for strong yields. Edible Squash, Novelty Color Carver.

Cat#	Pumpkin	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
3750U	Casper	2.85	8.40	29.25	51.00	92.00	86.00	82.00	78.00
3790	Hobbit PMR	5.80	16.80	55.05	87.35	87.50	81.70	76.40	72.00
3815	Lumina	4.40	13.00	45.40	79.35	112.35	105.60	103.30	101.00
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)
3758	Corvette PMR	5.90	15.25	60.00	74.25	71.45	68.15	64.85	62.45
3759	Cougar PMR	5.90	15.25	60.00	74.25	71.45	68.15	64.85	62.45
3764U	Dark Night	3.15	9.35	37.40	62.70	55.00			
3831	Moonscape	3.30	8.50	33.45	53.10	49.25	45.65	42.10	39.60









LARGE - Jack-O-Lanterns	Days	Weight	Shape	Color	Disease	Description
3720 Autumn Gold F1	90	7-10	Round	Classic Orange		Handsome fruits show attractive orange rind color when small. Vigorous vines bear 3-5 fruits each, averaging 7-10 lbs. Firm, meaty flesh for carving, cooking. Fresh Mkt, U-Pick.
3761 Darling <sup>F1</sup>	90	6-8	Tall Round	Deep Orange	Medium 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.
3762 Early Abundance <sup>F1</sup>	90	4-6	Round	Deep Orange	Medium Resistant	Small, early pumpkin with uniform size & color. nice handle in proportion to fruit size. Large, vigorous vine. Jack-O-Lantern, Cornucopia, Pie.
3788 & 3788U Hijinks <sup>F1</sup>	100	7-9	Round	Classic Orange	Tolerant PM	Consistent, square shouldered shape great for carving. Medium ribbing. Dark green durable handles are good for carrying. Vigorous vines up to 15'.
3835 Neon <sup>F1</sup>	65	7-8	Round	Classic Orange		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
3754 Cinderella's Carriage <sup>F1</sup>	100	23-33	Flat Round	Red Orange	Tolerant PM	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.
3760U Cushaw Orange Striped	110	25-30	Elongated Neck	Pale Yellow, Orange Stripes		OP. Pear shaped with crook neck. Hard, thin smooth rind marked with golden orange stripes over creamy white background. Golden flesh is excellent for baking. Good keeper. Fresh Mkt, Cornucopia, Ornamental Gourd.
3780U Halloween in Paris	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.
3880U Rouge Vif d'Etampes		15-20	Flat Round	Red Orange		OP. Improved early strain of French heirloom type. Extremely deep ribs. Golden interior. Long keeper.



Cat#	Pumpkin	1/4 oz	z 1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
3720	Autumn Gold	6.00	14.65	48.00	65.70	105.25	98.30	91.90	86.60
3754	Cinderella's Carriage	6.25	15.20	49.75	79.00	87.50	81.70	76.40	72.00
3760U	Cushaw Orange Striped	2.00	5.95	20.90	36.30	65.45	61.00	57.75	55.00
3780U	Halloween in Paris	2.60	7.65	26.75	46.50	84.00	78.00	74.00	70.00
3880U	Rouge Vif d'Etampes	2.00	5.80	20.75	35.85	65.00	48.50	41.65	38.35
30000	riouge vii a Liampes	2.00	5.60	20./3	33.63	05.00	46.50	41.05	30.33
Cat#	Dumpkin		100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
	Pumpkin					5 M	10 M	25 M	50 M
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)
<b>Cat#</b> 3761	Pumpkin (M=1000) Darling	<b>25 sd</b> 5.80	100 sd 15.05	<b>500 sd</b> 59.10	1000 sd 93.80	5 M (per M) 86.95	10 M (per M) 80.65	25 M (per M) 74.35	<b>50 M</b> (per M) 69.95

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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.
3726U Baby Wrinkles F1	100	5-7	Round	Deep Orange		A rough ribbed wrinkly skin for eye appeal at market. Strong, deep green handle. Fresh Mkt, Small Jack-o-Lantern, Cornucopia, Pie.
3778 Goosebumps <sup>F1</sup>	95	8-12	Round, Warted	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.
3779U Grey Ghost F1	95-100	11-17	Round	Grey		Grey rind & deep orange flesh. Early maturity. Very good flavor. Fruit shape slightly flattened & smoothly ribbed. Outstanding storage potential.
3836 Neon Moon <sup>F1</sup>	85	2-3	Round	Classic Orange	Tolerant	Pretty pumpkin with moderate ribbing. Long, deeply embedded handle. Semi bush habit. Improved Touch of Autumn type when needed. Carving, Painting, Pie, Comucopia.
3850 Pepitas F1	90	9-12	Round	Golden w' Green Streaks	Tolerant	Dual use: hulless seed for roasting and decorative golden, green streaked rind for cornucopia. Edible flesh is pale yellow. Trials reported yield average of 5-6 fruits per plant on vines spreading 4-5 ft. Edible Seed, Cornucopia, Decoration.
3892 Sanchez	95	4-6	Flat Round, Warted	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 <sup>F1</sup>	90	8-10	Round	Yellow	Tolerant PM	Matures to intense bright yellow. Children have been seen making a beeline to this pumpkin, attracted by the cheerful color. Deep green handle. Semi-bush habit. Fresh Mkt, Cornucopia, Roadside, Shipping, Home Garden.

Cat#	Pumpkin	1/4	1 oz	1 oz	1/4 lk	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
3850	Pepitas	5.	.80 1	6.80	55.05	87.35	87.50	81.70	76.40	72.00
Cat#	Pumpkin (M=1000)	25 sd	100 s	d 50	0 sd	1000 sd	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3725	Baby Bear	1.75	4.20	17	7.20	29.85	27.00	25.20	23.85	22.70
3726U	Baby Wrinkles	4.70	12.15	47	7.85	75.50	73.80	71.15	68.45	66.50
3778	Goosebumps	6.35	18.70	73	3.60	116.80	108.30	100.45	92.60	87.10
3779U	Grey Ghost	4.40	11.45	45	5.00	60.20	55.80	51.75	47.70	44.90
3836	Neon Moon	2.15	6.70	26	5.75	41.85	36.40	31.20		
3892	Sanchez	3.60	11.00	46	5.00	80.15	71.80	67.65	63.45	60.35
3893	Snowball	5.20	15.90	62	2.45	99.10	91.90	85.25	78.60	73.90
3894	Sunlight	6.65	17.30	68	3.00	107.95	100.10	92.85	85.60	80.50

	Pumpkin Disease Codes
CMV	Cucumber Mosaic Virus
SRR	Southern Root Rot
BR	Black Rot
WMV	Watermelon Mosaic Virus
PM	Powdery Mildew









DECORATIVE & CORNUCOPIA	Days	Weight	Shape	Color	Disease	Description
3727U Batwing	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.
3747 Bumpkin <sup>F1</sup>	85	4-8oz.	Flat Round	Classic Orange	Tolerant PM	Mini pumpkin with PM tolerance. Deeply ribbed. Cute & very productive. Small seeded, about 300-400 per oz. Semi-bush habit. Cornucopia, Decoration.
3753 Casperita <sup>F1</sup>	77	8oz1lb.	Round	White	Tolerant WMV,	Beautiful for comucopia as mini white pumpkin. Deeply ribbed. Edible sweet golden flesh comparable to acorn squash. Semi bush habit.
3777U Gooligan <sup>F1</sup>	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.
3782 Harvest Prince F1	85	1 lb.	Round	Deep Orange	Tolerant PM	Small round sugar pie pumpkin. Excellent for cooking, crafts or carving.
3797U Hooligan <sup>F1</sup>	95	4oz.	Flat Round	Bicolored Orange	Tolerant PM	Unique bicolored orange and white mottled. Vigorous vine covers well against sunburn. Novelty for fall ornamental mixture.
3800U Jack Be Little	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.
3897 Toad <sup>F1</sup>	85	1.5-2.5	Round, Warted	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.
3900U Wee-B-Little	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.



Pumpkin	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	(per lb)	(per lb)	(per lb)
Batwing	3.60	12.00	42.50	74.00	132.00	124.00	115.00	111.00
Bumpkin	7.60	18.45	60.50	96.00	122.50	114.35	106.95	100.80
Gooligan	6.90	16.80	55.05	87.35	122.50	114.35	106.95	100.80
Harvest Prince	6.90	16.80	55.05	87.35	87.50	81.70	76.40	72.00
Hooligan	6.90	16.80	55.05	87.35	122.50	114.35	106.95	100.80
Jack Be Little	1.70	5.00	17.50	30.40	53.25	36.90	33.65	31.65
Wee-B-Little	4.40	13.40	45.75	78.00	133.00	102.00	88.00	80.00
Pumpkin (M=1000)	25 sd	100 sd	500 sd	1000 s	d 5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
Casperita	4.25	12.35	48.50	77.00	71.40	66.20	61.05	57.40
Toad	7.25	18.75	73.65	111.75	109.25	105.30	101.30	98.40
	Batwing Bumpkin Gooligan Harvest Prince Hooligan Jack Be Little Wee-B-Little Pumpkin (M=1000) Casperita	Batwing       3.60         Bumpkin       7.60         Gooligan       6.90         Harvest Prince       6.90         Hooligan       6.90         Jack Be Little       1.70         Wee-B-Little       4.40         Pumpkin (M=1000)       25 sd         Casperita       4.25	Batwing       3.60       12.00         Bumpkin       7.60       18.45         Gooligan       6.90       16.80         Harvest Prince       6.90       16.80         Hooligan       6.90       16.80         Jack Be Little       1.70       5.00         Wee-B-Little       4.40       13.40         Pumpkin (M=1000)       25 sd       100 sd         Casperita       4.25       12.35	Batwing       3.60       12.00       42.50         Bumpkin       7.60       18.45       60.50         Gooligan       6.90       16.80       55.05         Harvest Prince       6.90       16.80       55.05         Hooligan       6.90       16.80       55.05         Jack Be Little       1.70       5.00       17.50         Wee-B-Little       4.40       13.40       45.75         Pumpkin (M=1000)       25 sd       100 sd       500 sd         Casperita       4.25       12.35       48.50	Batwing       3.60       12.00       42.50       74.00         Bumpkin       7.60       18.45       60.50       96.00         Gooligan       6.90       16.80       55.05       87.35         Harvest Prince       6.90       16.80       55.05       87.35         Jack Be Little       1.70       5.00       17.50       30.40         Wee-B-Little       4.40       13.40       45.75       78.00         Pumpkin (M=1000)       25 sd       100 sd       500 sd       1000 sd         Casperita       4.25       12.35       48.50       77.00	Batwing       3.60       12.00       42.50       74.00       132.00         Bumpkin       7.60       18.45       60.50       96.00       122.50         Gooligan       6.90       16.80       55.05       87.35       122.50         Harvest Prince       6.90       16.80       55.05       87.35       87.50         Hooligan       6.90       16.80       55.05       87.35       122.50         Jack Be Little       1.70       5.00       17.50       30.40       53.25         Wee-B-Little       4.40       13.40       45.75       78.00       133.00         Pumpkin (M=1000)       25 sd       100 sd       500 sd       1000 sd       5 M (per M)         Casperita       4.25       12.35       48.50       77.00       71.40	Batwing       3.60       12.00       42.50       74.00       132.00       124.00         Bumpkin       7.60       18.45       60.50       96.00       122.50       114.35         Gooligan       6.90       16.80       55.05       87.35       122.50       114.35         Harvest Prince       6.90       16.80       55.05       87.35       87.50       81.70         Hooligan       6.90       16.80       55.05       87.35       122.50       114.35         Jack Be Little       1.70       5.00       17.50       30.40       53.25       36.90         Wee-B-Little       4.40       13.40       45.75       78.00       133.00       102.00         Pumpkin (M=1000)       25 sd       100 sd       500 sd       1000 sd       5 M (per M)       (per M)         Casperita       4.25       12.35       48.50       77.00       71.40       66.20	Batwing         3.60         12.00         42.50         74.00         132.00         124.00         115.00           Bumpkin         7.60         18.45         60.50         96.00         122.50         114.35         106.95           Gooligan         6.90         16.80         55.05         87.35         122.50         114.35         106.95           Harvest Prince         6.90         16.80         55.05         87.35         87.50         81.70         76.40           Hooligan         6.90         16.80         55.05         87.35         122.50         114.35         106.95           Jack Be Little         1.70         5.00         17.50         30.40         53.25         36.90         33.65           Wee-B-Little         4.40         13.40         45.75         78.00         133.00         102.00         88.00           Pumpkin (M=1000)         25 sd         100 sd         500 sd         1000 sd         5 M (per M)         10 M (per M)         66.20         61.05



# 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  $\frac{1}{4}$ - $\frac{1}{4}$ " deep,  $\frac{1}{2}$ -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 Cherriete**<sup>Fl</sup> 23 Days. Cherry Belle type. Bright cherry-red, crisp flesh, pith free , globe shaped. Bred for increased uniformity and marketable yields. When growing blended color radish, avoid thinning, a this will tend to remove some colors disproportionately.

**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.

3937 Crunchy Delight<sup>F1</sup> 28 days. Large round scarlet red summer radish with clean, bright white interior. Roots and plants very unifrorm. Upright medium sized plant. Roots maintain solid crispy texture well into large size range. Widely adapted. Best replacement for Roxanne when needed. Fresh mkt, Bunch, Cello, Slicing.

**3935 Crunchy Royale**<sup>Fl</sup> 24 Days. Deep red, round, extremely uniform root formation with high packout 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 unusal 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 foilage makes harvest easy. Best color and mildest flavor comes from early harvest of smaller roots. Fresh Mkt, Restaurant.

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

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



## **Daikon Types**

**3920 April Cross**<sup>F1</sup> 60 Days. Spring planted Minowase type. Pure white roots to 18" x 2" are delightfully pungent, slow to become pithy. Slow to bolt.

**3955 & 3955U** Minowase Summer Cross #3<sup>Fl</sup> 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 Asain dishes. Heat tolerant. Resistant FW.

**3962** New White Spring<sup>Fl</sup> 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**<sup>FI</sup> 60 Days. For spring or fall sowing. Very refined, smooth white root with distinct green neck. Excellent crisp texture and mild flavor long into season. Capable of high yields. May be harvested small at 3-4" from dense sowings. Longer crop time for thinned beds can also achieve large size, up to 2 lbs at 15" x 3". Strongly resists bolting and pithiness. Widely adapted. Fresh Mkt, Sipping, Pickling.

**3965 Toe Boek**<sup>f1</sup> 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.









Cat#	Radish	1/16 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
3955 & <mark>3955U</mark>	Minowase Summer Cross #3	1.90	10.90	17.90	64.50	114.40	197.60	184.15
3962	New White Spring	2.75	11.95	19.70	70.50	126.45	231.85	215.60
3961	Relish Cross	2.35	11.15	18.25	62.40	112.30	204.90	190.30
Cat#	Radish	1/4 o	z 1 oz	: 1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
3930 & <mark>3930U</mark>	Cherry Belle	1.75	2.90	3.35	4.70	8.40	7.70	7.00
3934U	Crayon Colors Mix	1.65	1.75	6.00	10.35	18.45	16.80	15.75
3950	Hailstone	1.65	2.95	3.50	6.30	10.55	9.65	9.00
3969U	Watermelon	1.65	2.40	8.00	13.55	24.00	22.00	
3970U	White Icicle	1.90	3.20	4.00	5.15	8.60	7.85	7.35
Cat#	Radish (M=1000)	5	00 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
3920	April Cross	:	10.40	15.85	12.70	9.70	9.15	8.70
3925	Cherriette		1.70	2.45	1.95	1.35	1.30	1.20
3937	Crunchy Delight		1.60	2.10	1.70	1.35	1.30	1.20
3935	Crunchy Royale		1.75	2.70	2.15	1.35	1.25	1.20
3965	Tae Baek		4.15	6.30	5.00	3.85	3.65	3.45





# 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**<sup>FI</sup> 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.

**4005U** Imperial Star<sup>F1</sup> 30-37 days. Fast growing Asian type with smooth, spade shaped foliage. Very dark green leaf & upright habit and extra sturrdy 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.

4007 Reflect<sup>FI</sup> 38 Days. Tremendous broad DM package. Deep green, round semi-savoy leaves for all seasons, fall summer and spring cropping. Suitable for whole fresh bunching, baby or clipped. Strong disease package promotes good yield potential. Improved replacement for Regiment. Resistant DM

4011 Seaside<sup>F1</sup> 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  $^{\text{Fl}}$  40 Days. Very upright leaves are dark green, smooth and round. Slow bolting monoecious 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  $72^{\circ}$  F, approx. 10-14 days. Give plenty of light after germ. Detailed culture schedule available on

4324 Delizz® Fl 120 days from sowing, 60 days from transplant. 4" tall at first fruit, 10" mature in gdn; Easy to sleeve and can be shipped and sold with fruit ready to pick. Large 1.5" round oval deep red fruit is borne upright above bushy, tightly branched, deep green foliage. Very sweet. Day neutral for easy fruitset all summer. AAS trials reported an avg yield of 45 fruits per plant over the season. Upick, Fresh Mkt., Bedding Sales.

 $4325 \; Elan^{\; Fl} \; 120\text{-}150 \; days \; from sowing. 8-12" \; trail$ ing; Day-neutral. Extra sweet fruit June to October. Shiny bright red berries, with classic bi-conical shape of commercial types. White flowers. Tested 30+% more Vitamin C than others. Runners fill baskets, planters and beds. Upick, Fresh Mkt, Bedding Sales.

## Swiss Chard

(Beta vulgaris, Cicla Group)

Approx. 1,600 sd/oz. Also called Leaf Beet. Pkt plants 25' of row,  $\frac{1}{2}$  oz sows 100'. Direct sow 5 lbs/acre. Sow sd  $\frac{1}{2}$ " 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 moderated, savoyed leaves. Veins are light green. Petiole colors range from yellow & gold to pink and crimson.

#### Spinach Disease Codes

Peppermint

Downy Mildew





4333U El Dorado 60-65 days (30 days for baby salad). OP. High class non-staining golden yellow stems. Dark green savoyed glossy foilage with highly contrasting golden veins. Harvest young for salad mix or full size for bunching. Attractive for mixed salad markets. Fresh Mkt.

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

4335U Peppermint 58-63 Days. Striking appearance. Stalks and ribs are bright with vibrant deep cherryrose 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.

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	1.65	3.00	0.61	0.52	0.47	0.43	0.40
4000	Countryside	1.60	2.15	0.68	0.59	0.53	0.48	0.45
4005U	Imperial Star	1.65	2.50	0.80	0.70	0.55	0.50	0.50
4007	Reflect	1.60	2.15	0.70	0.60	0.50	0.45	0.40
4011	Seaside	1.65	2.20	0.73	0.63	0.56	0.51	0.48
4015	Space	1.70	2.40	0.75	0.65	0.60	0.55	0.50

Cat#	Strawberry (M=1000)	10 sd	50 s	d	100 sd	1000	0 sd	5 M (per M)
4324	Delizz	5.45	21.20	0	30.25	275	5.00	250.00
4325	Elan	5.35	20.85		29.75	256.65		217.50
Cat#	Swiss Char	rd	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)

Caur	Owiss Citatu	1/0 02	1 02	1/7 10	1/2 10		10	(per lb)
4333U	Eldorado	1.85	4.00	7.90	13.25	22	.95	20.70
4334U	Fordhook Giant	1.70	2.30	3.25	4.40	7.	20	6.60
4339	Rhubarb	1.80	3.15	5.40	9.20	15	.35	14.35
Cat#	Swiss Chard (M=1000)	100 sd	500 sd	1000	en :	5 M er M)	10 M (per M)	50 M (per M)
4329U	Bright Lights	1.95	4.55	7.3	0 6	5.20	5.50	5.00

1.65

62

4335U

3.60

4.35

4.00





# Summer Squash

(Cucurbita Pepo)

Approx. 120-400 sd/oz. Packet contains 25 sd;  $\frac{1}{2}$  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<sup>F1</sup> 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** <sup>61</sup> 43 Days. 6 x 1.5". Well known high quality semi-crookneck, butter yellow with medium bulb and small blossom scar. Comparision trial data report top yields in several trials especially across hot Southeastern states. Open vigorous bush with fewer spines which can help limitdamag at harvest. Growers are asking for this variety. Fresh Mkt, Shipping.

4100 Mabe 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**<sup>FI</sup> 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**<sup>FI</sup> 39 days. Early productive straight neck type with precocius yellow gene which masks or delays virus symptoms. Attractive, smooth, uniform, birght yellow cylindical 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.

**4095 Grandprize**<sup>F1</sup> 42 days. Strong enhanced disease pkg for high yield potential and clean fruit. Smooth, bumpless, glossy deep yellow fruit with strong outer walls and great mkt appearance. Fruit size averages 2" dima 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 & 4089U** Lioness<sup>FI</sup> 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<sup>FI</sup> 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 & WMV² 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, WMV².



Zucchini Yellow Mosaic Virus

Cat#	Squash (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	<b>50 M</b> (per M)
4058	Delta	1.70	4.05	16.15	21.75	20.65	19.35	18.30
4070	Enterprise	2.20	5.80	22.90	35.35	33.40	31.45	29.80
4077	Fortune	1.90	5.05	20.05	32.15	30.35	28.55	27.10
4079 & <mark>4079U</mark>	Gentry	1.95	5.15	20.30	32.00	30.20	28.45	26.95
4095	Grandprize	3.90	10.15	40.35	64.65	61.05	57.50	54.50
4098 & <mark>4098U</mark>	Lioness	6.75	17.80	70.65	103.05	95.80	88.50	82.45
4100	Mabel	2.40	6.25	24.70	39.60	36.80	34.00	31.70
4173 & <mark>4173U</mark>	Superpik	2.80	6.90	27.45	42.00	39.00	3.00	33.60

ZYMV

























### **Green Zucchinis**

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

4068U Emperor's Jude<sup>F1</sup> 45 days. Glossy deep green fruit are cylindrical, 7-8" x2". 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<sup>Fl</sup> 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<sup>F1</sup> 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. Medium resistance WMV, ZYMV, Fresh mkt, Shipping.



**4105 Obsidian**<sup>FI</sup> 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<sup>2</sup>, SLC, ZYMV.

4118U Parthenon 5 55 days. Parthenocarpic Zucchini, a brand new category of "seedless" vegetable, able to set fruit without pollination. Glossy deep green, nicely speckled skin. Light green, nearly white interior with small core containing ovules which, when grown in isolation from squash pollen, remain small and soft, never developing into seed. Does not require insects for pollination, opening the possibility of good yields even in weather that suppresses insect activity, and saving the trouble & expense of renting bees. Worth testing as a new way to grow this crop. Fresh Mkt, Shipping, Restaurant. Open Field or Greenhouse Production.

4119 Paycheck<sup>F1</sup> 42 days. 7" x 2" fruit. Widely adaped and highly recommended for Eastern and Midwest regionds. 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. Med Resistant PM, CMV, WMV, ZYMV. Local Mkt, Regional Shipping, Gdn Plant Sales.

**4120 & 4120U Payrol** | 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.. Medium Resistance PM, WMV ZYMV. Fresh Mkt, Shipping.

Cat#	Squash		1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
4068U	Emperor's Jade		1.55	9.35	31.15	28.80	55.50	53.20
Cat#	Squash (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)
4035 & <mark>4035U</mark>	Ambassador	4.65	12.15	48.15	62.60	59.00	55.35	52.35
4096	Grinch	4.10	10.70	42.45	68.05	63.25	58.45	54.45
4103	Noche	3.75	9.80	38.85	62.25	58.80	55.40	52.50
4105	Obsidian	2.60	6.80	27.05	43.30	40.25	37.20	34.65
4118U	Parthenon	6.85	17.90	71.00	101.15	94.00	86.85	80.90
4119	Paycheck	4.25	12.20	48.35	77.50	73.20	68.90	65.35
4120 & <mark>4120U</mark>	Payroll	4.65	12.20	48.45	74.30	70.15	66.05	62.65

Fax: 864-227-5108



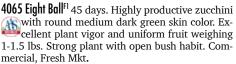
Eight Ballfi







## Summer Novelties





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<sup>Fl</sup> 50 days. Yellow-skinned 'Patty Pan' type. Attractive, tender, buttery yellow skin, fine flavor and texture. Fresh Mkt.

4179U Total Eclipse 1 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.



4156 Senator<sup>F1</sup> 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.

Scallop Benning's

**Green Tint** 

4160 Spineless Beauty<sup>F1</sup> 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<sup>F1</sup> 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. Med Resistance PM, WMV, ZYMV. Fresh Local Mkt, Regional Shipping, Garden Plant Sales.

Cat#	Squash	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
4138U	Scallop Benning's Green Tint	1.60	2.45	8.45	14.55	26.00	23.80	22.20
4140U	Scallop Yellow Bush	1.60	2.55	8.75	15.00	26.90	24.60	23.00
4179U	Total Eclipse	1.65	9.75	32.50	28.80	55.50	53.20	

Cat#	Squash (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)
4065	Eight Ball	3.15	9.80	38.80	51.90	49.25	46.20	43.70
4156	Senator	4.00	12.40	43.70	53.95	50.80	47.70	45.10
4160	Spineless Beauty	2.60	8.05	32.65	50.35	42.45		
4161 & <mark>4161U</mark>	Spineless Perfection	4.40	11.55	45.80	70.85	66.90	63.00	59.75
4165	Sunburst	3.15	8.30	33.00	50.35	47.55	44.75	42.45









### **Golden Zucchinis**

**4080 Gold Rush**<sup>F1</sup> 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<sup>F1</sup> 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 east harvest with minimal damage. Medium Resistant ZYMV, WMV. Fresh Mkt, Shipping.

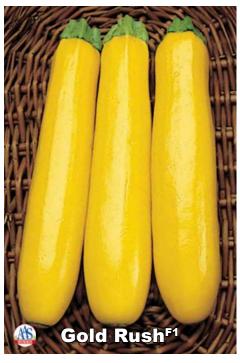
**4090 Golden Girl**F1 50-55 days. True golden yellow zucchini. Long cylindrical smooth fruit with consistently high quality. Strong open bush allows easy picking with little scar damage. Good disease rating provides high yield potential. Tolerant PM<sup>2</sup>.

**4091 & 4091 U Golden Glory**<sup>FI</sup> 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. Medium Resistance PM, WMV, ZYMV. Fresh Local Mkt, Regional Shipping, Garden Plant Sales.

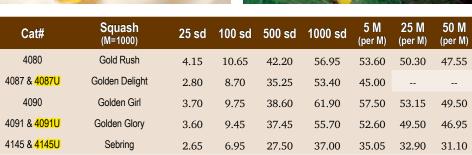
**4145 & 41450** Sebring<sup>F1</sup> 40 days. Semi-spineless, straight, golden 8" fruit. Strong highly productive plant and uniform crop. Bush habit with open plant structure make it easier to see the fruit for a more complete harvest. Commercial shipping, Fresh Mkt. Tolerant PM.













	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





# 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 (Cucurbita Pepo)

**4199 Autumn Delight**<sup>f1</sup> 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. High Resistant PM.

**4200 Black Bellota**<sup>F1</sup> 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<sup>12</sup>, Poty Virus Group.

4220 Carnival<sup>F1</sup> 85 days. Acorn squash with a nutty twist. The fruits are flecked and streaked with color, shades of yellow, greem 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.





**4240 Honey Beur**<sup>Fl</sup> 100 days. Compact vine, 2-3 ft tall spreading only 4-5 ft, can set 3-5 fruit averaging 1 lb each. High yield potential due to compact spread and PM trait. Tolerant PM.

**4257 Table Ace**<sup>F1</sup> 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 yelloworange 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.

**4282U** Taybelle PMF1 90 days. Unusual strength against disease. Good yields of large 6"x7" fruits, Color is deepest ebony green. Semi-bush habit.

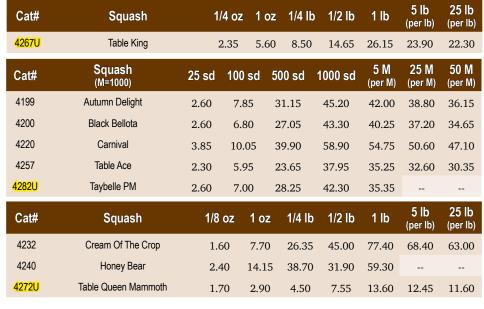




























## **Butternut Types**

(Cucurbita moschata)

491U Autumn Crown<sup>F1</sup> 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<sup>F1</sup> 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. Med Resistant PM. Fresh mkt, Shipping, Storage.

**4198 Avolon**<sup>Fl</sup> 88 days. Large thick-necked fruit. 3.5-4 lb avg; 8-9" x 5-6" neck. Uniform size and shape; 0.5 lb heavier than Waltham. Attractive smooth tan exterior. Deep orange flesh with firm, fine grained texture and sweet flavor. Good replacement. for Butternut Supreme. Fresh Mkt.

4227 & 4227U Chieftoin 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.





Chieftian PMR<sup>F1</sup>

427 Early Butternut<sup>f1</sup> 82 days. Earliest Butternut type we offer.

Attractive fruits have excellent flavor and texture; each provides two servings. Hard rind assures at least 2 months of storage. Heavy yielding, semi-bush, compact vines; open habit. Commercial, Fresh Mkt.

4238 & 4238U Frisco<sup>F1</sup> 90 days. Large size and very refined quality. Fruit is uniform, avg. 6 lb weight, measures 8" x 3.5" nuck, 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 Honeyboby<sup>F1</sup> 90 days. Compact semi-bush Butternut producing large numbers of handsized 6-7" fruits suitable for single servings. Nationwide AAS trails reported avg yileds at 8-9 pre 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.

**4244 & 424U** Indian Brave<sup>FI</sup> 85 days. Large 4-5lb fruit, 9"x3", produced in abundance. Quality comparible to Butternut Supreme. Vigorous vine with disease tolerance, extra yield potential. Tolerant PM, resists cracking. Fresh Mkt, Shipping.

**4254U** Sweet Mux<sup>Fl</sup> 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.

**4l30 Zodiot**<sup>61</sup> 105 days. 4-6lb fruit. Elongate Waltham shaped neck with shallow ribbing. Desirable type for fresh mkt. Extra long neck provides a higher proporting of solid flesh vs cavity. Vigorous vine. Fruit is very uniform for size and shape.

Cat#	Squash	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
4227 & <mark>4227U</mark>	Chieftain PMR	2.45	14.80	49.00	36.00	70.40	68.30	66.50
4239	Honeybaby	2.20	13.35	44.15	36.00	70.40	68.30	66.50
4244 & <mark>4224U</mark>	Indian Brave	1.70	9.00	30.00	36.00	70.40	68.30	66.50

Cat#	Squash	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
4302U	Waltham Butternut	1.65	2.95	4.50	7.80	13.95	12.75	11.90

Cat#	Squash (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)
4 <mark>191U</mark>	Autumn Crown	2.80	7.40	29.40	47.15	43.80	40.45	37.70
4197	Autumn Frost	3.60	9.45	37.55	60.20	55.95	51.70	48.15
4198	Avalon	2.65	7.70	30.50	48.85	46.35	43.50	41.10
4237	Early Butternut	2.50	6.60	26.15	34.75	32.70	30.70	29.00
4238 & <mark>4238U</mark>	Frisco	2.90	7.50	29.80	44.80	42.50	39.90	37.70
4254U	Sweet Max	3.20	8.45	33.45	47.15	43.80	40.45	37.70
4310	Zodiac	3.35	8.75	34.65	53.35	49.60	45.80	42.70



# Heavenly Hubbard<sup>F1</sup>

### **Hubbard Types** (Cucurbita maxima)

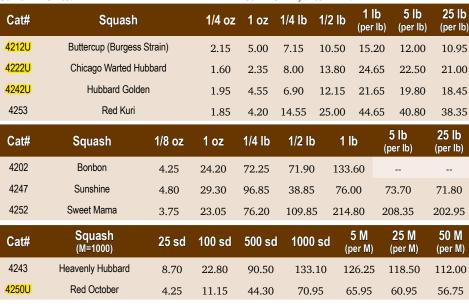
**4222U** Chicago Warted Hubbard 105 days. Green skinned processing type produces large, warted fruits averaging 10" x 15". Quality deep orange yellow flesh, standard for pies, canning. Long storage. Commercial, Processing, Fresh Mkt.

**42420** Hubbard Golden 105 days. Large, red orange, warted 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**<sup>Fl</sup> 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.

**4253 Red Kuri** 90-95 days. Japanese Winter Squash with bright reddish orange exterior, 5-10 lb fruit with fat teardrop shape, potential for high yields.

**4250U** Red October<sup>F1</sup> 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<sup>FI</sup> 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.

**42120 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 finegrained, sweet, flavorful and free of fiber. Cooks, freezes and stores well. Commercial, Fresh Mkt.

**4247** Sunshine<sup>FI</sup> 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 flatround, with bright orange interior and high dry matter content (avg 17%). Vigorous short internode 8' vine.

**4252 Sweet Mamo**<sup>F1</sup> 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.

















Vegetable Spaghettl







## **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.

**42460 Pinata** 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, Fresh Mkt, Shipping.

**4292** Turk's Turbun 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.



## Vegetable Spaghetti

4249 Pinnacle<sup>FI</sup> 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<sup>F1</sup> 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.

**4295** Unique<sup>FI</sup> 85 days. 1-1.5 lb. Miniarure vegetable spaghetti for specialty market. Deep golden rind, distinct oval shape. Nice fresh nutty sweet flavor. Long storage and prolific fruiting. Semi-bush with short runners late in the season. Tolerant PM<sup>2</sup>.

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

Cat#	Squash	1/4 o	z 1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
4292	Turk's Turban	1.55	3.90	13.25	22.90	40.90	37.45	34.95
4297U	Vegetable Spaghetti	1.80	3.20	5.00	8.50	15.40	13.90	13.15
Cat#	Squash	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
4246U	Pinata	1.70	10.35	34.20	36.00	70.40	68.30	66.50
4287	Tivoli	2.70	16.75	55.35	73.45	143.60	139.30	135.65
Cat#	Squash (M=1000)	25 sd	100 sd	500 sd	1000 sd	i 5 M (per M)	25 M (per M)	50 M (per M)
4207	Bush Delicata	1.75	3.95	16.00	27.75	24.80	22.65	21.20
4249	Pinnacle	3.95	10.30	40.80	65.40	62.05	58.20	55.00
4295	Unique	2.60	6.80	27.05	43.30	40.25	37.20	34.65

# Tasti-Lee®!

A key target in the Tasti-Lee® breeding program was to deliver better flavor and interior fruit quality to commercial tomatoes. Dr. John (Jay) Scott,of the University of Florida's Gulf Coast Research & Evaluation Center, spent more than 10 years doing just that.

Tasti-Lee® is a hybrid variety of large round determinate tomato. It is self-topping (seldom needs staking) and best when caged. This tomato has a 7-10 day harvest window and performs well with consistent superior flavor under a diverse range of growing conditions, which make it a great variety for the commercial market.

Harvested vine-ripe in the field, fruit can maintain its texture and flavor for up to 2 weeks. Fresh quality withstands harvest, packing and distribution pressures to arrive at retail as a beautiful, flavorful tomato with more than 40% higher lycopene levels than regular varieties.

Tasti-Lee® is a delightful treat high in antioxidants. It is right for slicing and chopping; great for sandwiches, salads, salsas and sauce.

Following a national brand-name promotion and pull-through marketing, consumers are asking for this tomato by name. Twilley Seed is again proud to offer Tasti-Lee  $^{\otimes}$  to our customers.



Note - Sales to supermarket chains require participation in a brand-name marketing program. Please inquire about this program if your plans include supermarket distribution. Orders for more than 5000 sd require breeders marketing agreement. Please call for information.

See page 74

## **Selecting Tomato Varieties**

With so many varieties, it may be difficult to choose which tomato to grow for your crop. Twilley continually look 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 se 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.

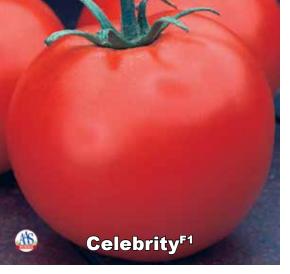
### Disease Tolerance or Resistance

Many new varieties have been improved for a broader range of disease traits, as new research results become available for commerical 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 and 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.

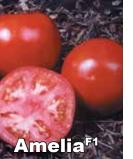
Indicates varieties resistant to Tomato Spotted Wilt Virus, which is now a growing problem in many states. TSWV can wipe out entire tomato crops. Symptoms are hard to detect in early stages and no treatment is known to be effective at saving an infected crop. TSWV is hard to control because the tiny 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.

TYLC

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















## **Tomato**

(Lycopersicon esulentum)

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 muturity are from transplant.

## **Large Round Determinates**

4359 & 4359U Amelia<sup>FI</sup> 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<sup>1,2,3</sup>, N, St, TSWV, V.

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<sup>1-2</sup>, TSWV, V. Fresh Mkt, Roadside, Shipping.

**4376 Better Bush**<sup>F1</sup> Mid-season. Round Beefsteak type, 5 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. V¹, FW¹, N. Fresh Mkt, Home Garden, Plant Sales.

4380 BHN1021<sup>F1</sup> 75 days. Good flavor & texture Disease package well suited to southeastern US crops for fresh & local market. Resistant V, FW, N, TSWV.

**4386** Bilimore<sup>F1</sup> 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. Uniformripening 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<sup>1-2</sup>, St, V. Fresh Mkt, Local Shipping.

**4409 Carolina Gold**<sup>F1</sup> 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, FW1-2, Highly Tolerant Graywall. Tolerant cracking, Weather checking. Fresh Mkt.

4419 Celebrity<sup>F1</sup> 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<sup>1-2</sup>, N, TMV, V. Fresh Mkt, Commercial, Gdn.

**4420U** Charger<sup>F1</sup> 72 days. Extra large 8-10 oz fruits are 2.75-3" x 3-3.5", with lots of good flavor, very firm flesh and smooth shoulders. Good red color inside and out. Strong disease package. Widely adapted, showing good yield potential and quality in trials across Eastern US, in both mature green and vine ripe harvest regimes. Mid tall plants need no pruning but respond well when pruned. Resistant ASC, FW<sup>1-3</sup>. V<sup>1</sup>. Tolerant St, TYLC. Fresh Local Specialty, Restaurant, Garden & Container Plant Sales.

4437 Dixie Red<sup>FI</sup> 85 days from sowing, 65 days from transplant. Quite early for such for such a large fruit type. 11-11.5 oz, deep oblate fruit range in size from 3" x 2.5" up to 3.5" x 3". Strong, broad 6-disease package includes F3, TSW and Nematode resistance and confers good potential for high yield of large fruit, even in hotset conditions. Good red color inside and out. Can be used for green ripening or for vine ripe harvests due to earliness and large size. Vigorous mediumdeterinate vines form good leaf canopy for sunburn protection. Recommendation: DO NOT PRUNE. Dixie Red bodes well to become a workhorse tomato. Resistant TSWV, ASC, F1-3, ST, VW1. Med Resistance N. Fresh Local, Shipping, Vine Ripe, Green Ripening.

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)
4359 & <mark>4359U</mark>	Amelia	10.55	68.45	107.55	138.75	137.50	134.10	130.75	128.25
4371	Bella Rosa	4.30	33.30	40.55	55.15	54.65	53.40	52.15	51.20
4376	Better Bush	1.75	6.90	10.85	13.80	13.40	13.00	12.70	12.40
4380	BHN1021	11.40	73.95	116.25	132.00	130.80	127.60	124.40	122.00
4386	Biltmore	7.30	47.25	69.15	87.15	86.25	83.95	81.65	79.95
4409	Carolina Gold	3.90	26.30	40.40	49.00	47.75	46.50	45.25	44.35
4419	Celebrity	3.00	21.60	28.15	35.85	35.50	34.60	33.60	32.90
4420U	Charger	5.55	36.10	56.75	82.60	81.90	80.00	78.10	76.70
4437	Dixie Red	9.80	63.70	79.20	90.25	89.35	87.00	84.60	82.90



**4449 & 4449U Florida 47**Fl 75 days. Proven commerical performance across the mid-Atlantic and southeast to Florida. Large, deep red, 10 oz fruits of exceptional firmness and quality. Uniform ripening fruit and jointed stem. Tall, vigorous plants with an excellent foilage and fruit cover. Pruning not recommended. Tolerant ASC, FW<sup>1-2</sup>, St, V<sup>1</sup>. Fresh Mkt, Roadside, Stake Culture, Shipping.

4450 Florida 91Fl 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, FW1-2, St, V1. Fresh Mkt, Roadside, UPick.

4534 & 4534U Mountain Fresh Plus<sup>Fl</sup> 79 days, Large, deep oblate fruits 3.5" across and weighing 8-12 oz. Excellent resistance to cracking, blossom end rot, puffiness and agularity. Resistant N. Tolerant FW1-2, V1-2. Commercial.

4536 Mountain Gem<sup>Fl</sup> 75 days. New addition to Randay 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 foilage and continued fruit set retained clean green foilage and continued fruit set well after other comparisions 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!"

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

4542 Mountain Merit<sup>Fl</sup> 75 days. Superb disease package . A unique combination of Late Blight, Early Blight, TSWV, VFNT, plus

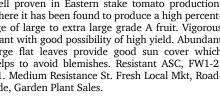
top commercial & table traits. Round Beefsteak fruit reach 10-14 oz. Deep Red exterior and firm deep red fruit with delicious full-bodied flavor. Vigorous habit, with vines reaching 5' at full growth. High yield potential. A must-try variety. Resistant FW<sup>1,2,3</sup>, LB, N, TMV, TSWV, V. Tolerant EB. Fresh Mkt. Heartland.

4544 Mountain Spring<sup>Fl</sup> 69 days. Jointed. Firm, uniform, bright red color inside and out. High market yields all over East. Low susceptibility to cracking, blossom end rot, puffiness, angularity. Average 10-12 oz. Tolerant FW1-2, V1, Fresh Mkt, U-Pick.





4568 Red Pride Fl 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, FW1-2; V1. Medium Resistance St. Fresh Local Mkt, Roadside, Garden Plant Sales.



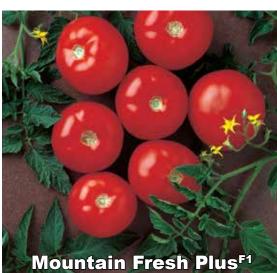
**Tomato Disease Codes** 











Α	Anthracnose
ASC	Alternaria Stem Canker
BSp	Bacterial Speck
LM	Cladosporium (Leaf Mold)
EB	Early Blight (Alternaria Solani)
FR	Fusarium Crown & Root Rot
FW	Fusarium Wilt & race #'s
LB	Late Blight (Phytophthora Infestans)
N	Root Knot Nematode
SLS	Septoria Leaf Spot
St	Stemphylium (Gray Leaf Spot)
TMV	Tobacco Mosaic Virus
ToMV	Tomato Mosaic Virus
TSWV	Tomato Spotted Wilt Virus
TYLC	Tomato Yellow Leaf Curl
٧	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)
4449	Florida 47	6.65	43.30	68.15	82.95	82.15	79.90	77.80	76.15
4450	Florida 91	6.75	52.35	78.15	91.40	90.45	88.15	85.70	83.90
4534 & <mark>4534U</mark>	Mountain Fresh Plus	4.45	30.20	47.50	75.40	72.65	69.90	67.15	65.20
4536	Mountain Gem	6.55	42.85	67.20	93.15	90.65	89.00	87.30	86.25
4537U	Mountain Gold	1.65	2.60	4.25	3.65	3.25	3.00	2.80	
4542	Mountain Merit	7.20	53.95	66.15	90.15	87.75	86.00	84.45	83.35
4544	Mountain Spring	3.60	23.15	36.35	39.65	38.65	37.55	36.55	35.85
4568	Red Pride	1.50	10.40	16.35	22.70	22.50	22.00	21.50	21.10
4536 <b>4537U</b> 4542 4544	Mountain Gem Mountain Gold Mountain Merit Mountain Spring	6.55 1.65 7.20 3.60	42.85 2.60 53.95 23.15	67.20 4.25 66.15 36.35	93.15 3.65 90.15 39.65	90.65 3.25 87.75 38.65	89.00 3.00 86.00 37.55	87.30 2.80 84.45 36.55	86.25  83.35 35.85











# More Large Round Determinates

4570 SanibelF1 75 days. Great flavor and disease resistance. Superb for roadside or fresh market. Large 8 to 12 oz. fruit borne in concentrated set on 3 1/2' vines. Great flavor from high acid/sugar balance, combined with firm texture for long shelf life at local market stands or in shipping. Light green shoulder ripens to full even red yet allow accurate monitoring of ripeness. Main crop comes on in a 14 day window. Excellent disease package allows high yield potential, heat tolerance and extended harvest after main picking. Tested widely across US. Vines really load up and taste great. Pruning not recommended. Resistant V, FW1, FW2, N, ASC, St. 4574 Saybrook<sup>Fl</sup> 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

prune Saybrook. **4576 Stellar** Fl 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<sup>2</sup>, LB, V. Tolerant EB, SLS. Fresh Mkt.

later harvest due to robust disease pkg. Do NOT



**4580U** Sunny Boy<sup>Fl</sup> 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.

4612 Tosti-Lee® FI 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 FW1,2,3, V1. 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 TSW**<sup>f1</sup> 75 days. Great yield potential of 7-8 oz fruits, deep-oblate 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 TSW, ASC, St, V<sup>1</sup>, FW<sup>1,2</sup>. Fresh Mkt, Roadside, UPick, Local Shipping.

	Cat#	Tomato (M=1000)			10 sd	50 sd	250 sd	500 sd	1000 sd	5 M (per M)
	4612	Ta	4.20	10.35	36.00	72.00	135.00	133.00		
	Cat#	Tomato (M=1000)	25 sd	250 sd	500 sd	1000 s	d 5 N (per l			100 M (per M)
ĺ	4571	Sanibel	4.85	37.95	59.70	89.80	88.9	5		
	4574	Saybrook	5.45	35.45	55.75	88.50	87.6	0 85.	25 83.00	81.25
	4576	Stellar	5.60	41.45	65.20	103.50	99.7	0 95.	95 92.15	89.50
	4580U	Sunny Boy	1.60	4.65	7.85	13.60	12.2	5 9.5	8.55	7.70
	4604	Top Gun TSWV	6.30	40.95	64.40	66.15	65.4	5 63.	70 61.95	60.65

# Large Round Indeterminates

**4369 Beefmuster** 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. Tolerant ASC, FW<sup>1</sup>, N, St,V. Fresh Mkt.

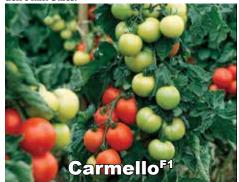
**4374 & 4374U Better Boy** Fl 75 days. Large, globe-shaped frutis up to 1 lb or more, with bright red flesh. Vigorous plants with good fruit protection. Highly productive. Grow on ground or stakes. Tolerant ASC, FW¹,N, St, V. Fresh Mkt, U-Pick.

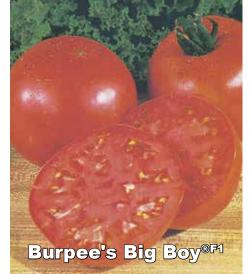
4384 & 4384U Big Beef Fl 73 days. Early red beeffruits weighing 8-12 oz. Best grown on stakes. Rave reviews nationwide. Tolerant ASC, FW<sup>1,2</sup>, N St, TMV, V. Fresh Mkt, Gdn.

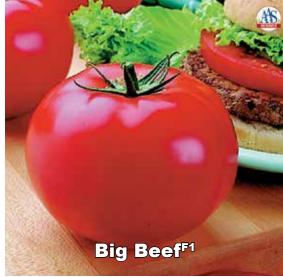
**4404 Burpee's Big Boy**<sup>®</sup> FI 78 days. Popular variety asked for by name as plants or produce. Smooth, red, deep globe-shaped fruits have fine flavor, thick walls and bright red, meaty flesh. Many fruits weigh 1 lb/more. Large, extremely vigorous plants are heavy producers. Fresh Mkt, Gdn.

**4407 Carmello** <sup>Fl</sup> 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<sup>0</sup>, St, V, ToMV<sup>0-2.</sup> Tolerant N. Fresh Mkt, Roadside, Bedding Sales.

**4614 Think Pink** Fi 70 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. Good sized 7-8 oz fruit are rosy raspberry pink inside and out. Rich flavored balanced of sugar and acid won taste tests at trails hands down. Round smooth globe shape. Resistant FW<sup>1-2</sup>; LM, St, ToMV<sup>0-2</sup>; Med Resistance FR, N. Fresh Local Mkt, Restaurant, Garden Plant Sales.











Cat#	Tom (M=1)			10 sd	50 sd	250 s	sd '	1000 sd	5 M (per M)	25 M (per M)
4614	Think	Pink		3.85	15.30	61.2	0	198.00	190.20	183.00
Cat#	Tomato (M=1000)	25 sd	250 sd	500 sd	1000	en	5 M per M	25 M (per M)	50 M (per M)	100 M (per M)
4369	Beefmaster	2.20	14.80	22.00	28.2	25 2	28.00	27.25	26.50	25.95
4374 & <mark>4374U</mark>	Better Boy	2.20	15.00	22.65	28.8	35 2	28.60	27.85	27.15	26.50
4384 & 4384U	Big Beef	3.00	20.95	31.95	37.0	00 3	36.55	35.60	34.65	33.90
4404	Burpee's Big Boy	2.85	17.65	22.00	27.6	55 2	27.35	26.60	25.90	25.35
4407	Carmello	2.70	18.20	22.20	24.4	10 2	23.75	23.15	22.45	22.00











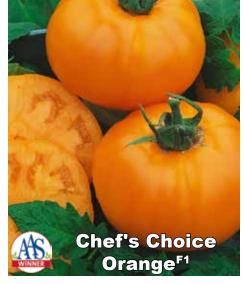


	Tomato Disease Codes
Α	Anthracnose
ASC	Alternaria Stem Canker
BSp	Bacterial Speck
LM	Cladosporium (Leaf Mold)
EB	Early Blight (Alternaria Solani)
FR	Fusarium Crown & Root Rot
FW	Fusarium Wilt & race #'s
LB	Late Blight (Phytophthora Infestans)
N	Root Knot Nematode
SLS	Septoria Leaf Spot
St	Stemphylium (Gray Leaf Spot)
TMV	Tobacco Mosaic Virus
ToMV	Tomato Mosaic Virus
TSWV	Tomato Spotted Wilt Virus
TYLC	Tomato Yellow Leaf Curl
٧	Verticillium Wilt & race #'s

# More Large Round Indeterminates

4417 Chef's Choice Black<sup>F1</sup>75 days. Indeterminate.
Produces large hands of medium sized, 5.5oz intense red fruit, 5-6 the cluster. Excellent disease package. Well adapted to both field and Greenhouse cultivation. Mountain/Southwest.

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	10.80	17.40	29.50	26.15	24.00		
4421	Chef's Choice Green	3.00	10.80	17.40	29.50	26.15	24.00		
4423	Chef's Choice Orange	3.00	10.80	17.40	29.50	26.15	24.00		
4424	Chef's Choice Yellow	2.65	10.80	17.40	29.50	26.15	24.00		
4459	Grandeur	2.50	9.00	13.95	17.40	17.25	16.85	16.45	16.15
4543	Mountain Rouge	10.60	70.70	111.20	176.50	174.85	170.60	166.30	163.10
4550	Pamella	8.35	54.05	85.00	125.80	121.20	116.60	112.05	108.80



4421 Chef's Choice Green<sup>Fl</sup> 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<sup>F1</sup>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. Benfits from some trellising.

4424 Chef's Choice Yellow<sup>1</sup>90 days. Golden yellow beefsteak type fruit. AAS trials reported up to 30 meaty 10 oz, 5" x 6" fruit per plant. Very

tasty. Very tasty with good citrusy acid to sugar balance and smooth firm texture. Deep green foilage, 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**<sup>Fl</sup>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 meand crack-resistance. High Resistance FW<sup>1</sup>, N St, TMV, V Fresh Mkt, Roadside, Staking, All-summer Picking.

**4543 Mountain Rouge**<sup>Fl</sup> 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. Fleshy 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.

**4550 Pamello**<sup>F1</sup>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. Vigourous vine develops strong leaf canopy for protection against sun scald and provides opportunities for large potential yields. Tolerant FW<sup>2</sup>, N TMV, TSWV, TYLC, V.





### Cluster Types

**4474 Carina**<sup>F1</sup>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.

4494 Juliet 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. **Campari Type** 

4540 Mountain Magic<sup>Fl</sup>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 and LB, FW1-2, V 1-2.

### Plum/Roma/Saladette Types

**4439 Early Resilience** Up to 25 fruit per plant 3.5 oz blocky, rounded Roma fruit. Excellent flavor and Modeep 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.  $4479\ \text{Hybrid}\ 46^{\text{fl}}$  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, FW1-2. FR, N, St, ToMV0-2. High Resistant V1. Intermediate Resistant BSp. Fresh Mkt, Shipping.

4507 Marinara<sup>Fl</sup> 80 days. Large Roma type; 4-5 oz fruit that fits 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.

**4521 Mochomo**<sup>Fl</sup> 80-85 days. Roma type. 6 oz fruit. Suitable for greenhouse and field production. Dark red fruit with dense flesh. Strong floiar developmet provides excellent protection from sunburn. Strong, compact, indeterminate vine with superb disease rating capable of high yields. Tolerant FW3, TMV, TSWV, TYLC, V.

**4547 Optimax** $^{\text{FI}}$  80-85 days. Determinate Roma type. Widely adapted for production of high quality fruit. Uniform oval, firm, great tasting 5 oz fruits mature bright red. Productive, vigorous plants have tested well in trials under both hot and cool season conditions with prolonged harvesting cycle and both indoor and field culture. Resistant ASC, FV, V. Fresh Mkt, Shipping, Greenhouse, Garden Ctr Sales.

 $4558 \ Plum \ Regal^{Fl}$  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 foilage cover for fruit. Deep red interior and very small blossom scar. Resistant V, FW1-2. TSWV, LB. Tolerant EB. High Resistant Graywall, Cracking, Fresh Mkt, Vine-ripe or Shipping at Mature Green Harvest.





4578 Shelby<sup>Fl</sup> 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, briught 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; V1. Tolerant TSWV; TYLC. Fresh mkt, Vine Ripe & Mature Green Mkts.

#### Cherry Types

**4372 Bellini**<sup>FI</sup> 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.

4406 Candyland Red<sup>F1</sup> 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

**Tomato** 







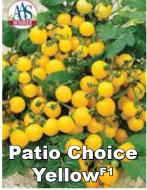




Cal#	(M=1000)			บ รัน	วบ รน	250	su si	บบ รัน	1000 Su	(per M)
4372	Ве	llini	5	5.15	19.50	78.	.00 1	02.30	196.55	189.10
4540	Mountai	n Magic	2.50		9.70	38.	.75 5	2.65	101.60	97.35
Cat#	Tomato (M=1000)	25 sd	250 sd	500 sd	1000	sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
4406	Candyland Red	2.00	15.45	24.90	36.5	50	33.15	32.00		
4474	Carina	13.70	89.05	140.00	209.	.90	207.95	202.90	197.80	194.00
4439	Early Resilience	3.45	22.70	35.65	56.6	60	54.55	52.50	50.40	48.95
4479	Hybrid 46	3.45	22.50	35.35	36.4	45	36.15	35.15	34.15	33.45
4494	Juliet	1.80	12.60	21.25	37.0	00	33.35	29.90	28.85	27.80
4507	Marinara	3.55	23.15	36.35	57.7	70	55.60	53.50	51.40	49.90
4521	Mochomo	11.05	71.85	113.00	140.	.60	135.45	130.35	125.20	121.60
4547	Optimax	7.60	50.20	78.95	125.	.30	124.25	121.35	118.50	116.35
4558	Plum Regal	6.90	52.00	72.70	90.	15	87.75	86.00	84.45	83.35
4578	Shelby	4.20	11.00	43.80	70.2	20	68.10	66.50	65.20	

5 M

















#### **More Cherry Types**

**4470U** Honeybee<sup>Fl</sup> 60 days. Large determinate semivining 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 Jusper<sup>1</sup>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, FW1-2, LB. Fresh Mkt, Restaurant Special, Salad Packs.

4503U Lizzano<sup>Fl</sup>AAS Winner 2010. 63 days. Low growing bushy semi-determinate to 18". Very sweet 1" baby cherries, avg just under 0.5 oz. Tested at 7.0% Brix. Abundant fruit set over long season. Tolerant LB. Fresh Mkt. Low Staking, Home Gdn, Basket, Bedding.

4512 Midnight Snack<sup>F</sup>168 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.

Tomato

4552 Patio Choice Yellow<sup>F1</sup>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 acid. Judges reported 100+ fruits per plant in national trials. V, F, TMV. Gdn Plant Sales, Container.

**4569** Red Robin  $^{\rm Fl}$ 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 foilage covers well to protect fruit.

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

**4606** Sweet Treatts<sup>F1</sup>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; FW1-2; LM; ToMV0-1. Med Resistance St, Fusarium Crown & Root Rot. Fresh Local Mkt, Regional Shipping, Garden Plant Sales.

**4617 Yellow Canary** F155 days. Small determinate 1" round canary yellow cherry. Ornamental edible for containers and baskets. Very compact, vigorously branching plants. Early, abundant yields of sweet tasty fruit. Gdn Plant Sales.

#### **Grape Types**

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 Conainer Plant Sales.

**4454U** Gabrielle<sup>Fl</sup> 60 days.  $^{1}/_{2}$ - $^{3}/_{4}$  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.

Cat#	(M=1	000)	1	0 sd - 5	50 sd	250 sd	500 sd	1000 sd	(per M)
4481U	<mark>J</mark> Jas	per	5	5.65 2	21.55	86.30	122.30	235.00	226.10
Cat#	Tomato (M=1000)	25 sd	250 sd	500 sd	1000	80	M 25 er M) (per		100 M (per M)
4441U	J Fantastico	7.45	56.35	88.60	140.6	50 13	5.45 130.	35 125.20	121.60
4454U	J Gabrielle	2.65	12.00	20.30	35.3	0 31	.80 29.0	65 27.95	26.75
4470U	J Honeybee	1.60	10.80	17.40	29.5	0 26	5.15 24.0	00	
4503U	J Lizzano	7.45	55.55	87.30	138.6	50 13	7.35 134.	00 130.60	128.10
4512	Midnight Snack	5.05	32.90	51.70	74.2	5 71	.50 68.8	80 66.10	64.20
4552	Patio Choice Yellow	1.60	14.15	24.00	44.0	0 38	3.00 32.0	00 27.00	24.00
4569	Red Robin	2.65	17.15	26.95	38.2	0 37	7.90 37.0	00 36.15	35.50
4584	Super Sweet 100 VF	1.80	13.85	20.15	25.0	0 24	1.40 23.7	75 23.15	22.65
4606	Sweet Treats	14.25	93.40	148.25	237.6	50 230	0.05 224.	30 219.60	
4617	Yellow Canary	2.90	22.45	37.70	65.5	0 58	3.95 54.6	50 52.15	49.70



More Grape Types 4462 Gold Spork<sup>F1</sup> 65-70 days. Beautiful 1/2 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 hyproponics. Breeder's advice is to prune ground suckers 2" from ground. Resistant ToMV 0-2.

**4514 Mini Charm**<sup>Fl</sup> 65 days. Small 0.75" rounded ovals weighing 0.33 to 0.25 oz. Profuse clusters on indeterminate vine. Sweet as grapes. Trials report 20 to 60 bright fruit per cluster. Tolerant FW<sup>1-2</sup>, TMV V.

**4579 Sun Bliss**<sup>Fl</sup>65 days. Semi-determinate. Golden grape tomato with vigorous plant and prolific harvest of very sweet .7-.9 oz fruit. Color is pure golden.

**4586 Sweet (unury**<sup>F1</sup>62-65 days. Semi-determinate, deep gold .5oz grape tomato. Early sweet & firm.

**4602** Sweet Heurts<sup>F1</sup>73 days. Large indeterminate, productive vine bears large hands of firm extra sweet 0.25oz 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, ToMVO-2, Cracking, Fresh Mkt, Roadside, Shipping.

#### **Heirloom Trait Hybrid**

**4563** Purple Boy<sup>F1</sup> 65-70 days. Heirloom taste in a modern disease tolerant hybrid branching indeterminat habit. Skin is red with purple tones. Interior is red fleshed with purplish locules. Good disease packge gives good chances for plenty of yield. Prune aggressively.

Tomato

Cat#



**4458 Grundmu's Pick**<sup>1</sup>70-80 days. Indeterminate. Strong growing Heirloom-trait hybrid gives the best of tradition productivity. Large 10-14 oz fruit are intensely flavored, knarly, lobed, contorted and deep crimson. Highly flavored and high in lycopene. Can be cropped like regular hybrids for fresh market produce. Tolerant V, FW1, N1, St. Fresh Mkt, Home Gdn.

#### **OP Heirlooms**

4394U Brondywine 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

**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.

recent years, so we've brought it back to our catalog. Fresh Mkt.

#### **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 sds./oz. Similar culture to tomatoes.

1000 sd

250 sd 500 sd

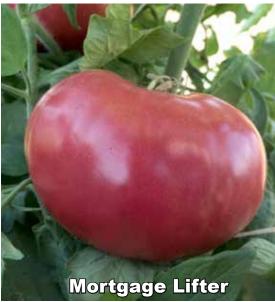
5 M

	(M=10	00)							(per M)
4462	Gold S	park	5.2	5 20.8	83.6	0 135.	30 25	59.95	250.10
4602	Sweet H	learts	16.4	65.0	00 125.	00 113.	50 21	18.10	209.85
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	5.90	38.15	60.00	74.00	71.30	68.60	65.90	64.00
4514	Mini Charm	4.00	30.85	48.50	76.95	74.15	71.35	68.55	66.55
4563	Purple Boy	5.50	35.90	56.45	89.60	88.75	86.40	84.00	82.25
4579	Sun Bliss	6.95	46.85	73.65	116.90	112.65	108.40	104.10	101.10
4586	Sweet Canary	7.50	52.40	82.35	130.70	129.50	126.30	123.15	120.80
Cat#	Toma (M=10		250 sc	d 500 s	d 1000 s	d 5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
Cat#		00)	250 so	d 500 s 2.60		10			
, ,	(M=10	00) ne Red			4.25	(per M)	(per M)	(per M)	(per M)
4394U	(M=10) Brandywin	ne Red e Yellow	1.65	2.60	4.25 4.25	3.65	(per M) 3.25	(per M) 3.00	(per M) 2.80
4394U 4399U	(M=10) Brandywine	ne Red Yellow	1.65 1.65	2.60 2.60	4.25 4.25 4.25	3.65 3.65	(per M) 3.25 3.25	(per M) 3.00 3.00	(per M) 2.80 2.80
4394U 4399U 4456U	(M=10) Brandywine Brandywine German Jo	ne Red e Yellow ohnson e Lifter	1.65 1.65 1.65	2.60 2.60 2.60	4.25 4.25 4.25 4.25	(per M) 3.65 3.65 3.65	(per M) 3.25 3.25 3.25	(per M) 3.00 3.00 3.00	(per M) 2.80 2.80 2.80
4394U 4399U 4456U 4523U	(M=10) Brandywine Brandywine German Jo Mortgage	oo) ne Red e Yellow ohnson e Lifter pey	1.65 1.65 1.65 1.65	2.60 2.60 2.60 2.60 2.60	4.25 4.25 4.25 4.25	3.65 3.65 3.65 3.65 3.65 3.65	(per M) 3.25 3.25 3.25 3.25	(per M) 3.00 3.00 3.00 3.00 3.00	(per M) 2.80 2.80 2.80 2.80 2.80
4394U 4399U 4456U 4523U 4545	(M=10) Brandywine Brandywine German Jo Mortgage Mr. Stri	ne Red e Yellow ohnson e Lifter pey	1.65 1.65 1.65 1.65 1.65	2.60 2.60 2.60 2.60 2.60 2.74	4.25 4.25 4.25 4.25 4.25 0z 1/2 (	3.65 3.65 3.65 3.65 3.65 3.65 3.65	(per M) 3.25 3.25 3.25 3.25 3.25 3.25	(per M) 3.00 3.00 3.00 3.00 3.00 3.00	(per M) 2.80 2.80 2.80 2.80 2.80 2.80

50 sd

10 sd













Purple BoyF1















# Rutabaga (Brassica napus, Napobrassica Group)

Approx. 12,000 sd/oz. Pkt plants 25-30' of row; 1/4 oz sows 100' Direct sow 1-2 lbs/acre. Sow sd 1/4-1/2" 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 1/4-1/2" deep, 2-6" apart in rows 12-36" apart. Germs in about 7 days. Days to maturity are from sowing.

#### **Hybrids**

4619 Alamo<sup>Fl</sup> 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  $Top^{Fl}$  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<sup>F1</sup> 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<sup>F1</sup> 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.

4659 & 4659U Tokyo Cross<sup>Fl</sup> 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  $^{\text{Fl}}$  36 days for greens. 80 days for rots. Very heavy-yielding. Seven Top type. Vigorous tops up to 28"; thick, smooth, lobed leaves are broad and dark green.

4669 White Lady 1 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 bolt-

#### 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.

Cat#	Rutabaga	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
3980U A	American Purple Top	1.60	2.45	3.65	5.45	8.15	5.70	3.85	3.35
Cat#	Turnip	1/16 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
4619	Alamo	1.65	12.90	45.15	78.35	141.35	131.80	124.70	118.75
4624	All Top	1.80	10.20	35.65	62.25	111.40	103.40	98.35	93.35
4629	Just Right	1.65	15.20	53.15	92.40	166.55	155.30	146.90	139.90
4644	Royal Crown	1.60	12.45	43.60	75.70	136.50	127.30	120.45	114.70
4659 & <mark>4659</mark>	U Tokyo Cross	1.75	20.55	71.95	124.95	225.25	210.15	198.75	189.30
4664	Topper	1.60	13.15	45.80	79.55	143.45	133.80	126.55	120.55
4669	White Lady	1.65	19.40	67.80	117.70	212.20	197.95	187.25	178.35
Cat#	Turnip	1/8 (	oz 1 o	z 1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
4634U	Purple Top White Glo	be 1.60	0 2.00	2.40	3.50	4.70	4.40	4.15	3.95
4649U	Seven Top	1.60	0 2.0	5 2.45	3.55	4.75	4.45	4.20	4.00

#### 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.

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 seedborne 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 90) 3 weeks before outdoor planting time. Because of their genetic makéup, triploid F1 watermelons must be planted with a diploid (řegular hybrid or open-pollinated) variety as a pollenizer in order to assure fruit set. Approximately 600 pollenizer 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 pollenizer 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: from our website: www.twilleyseed.com. You can also contact us for a copy.



There is a Nunheims triploid waiver agreement in the centerfold of this catalog and also available for download

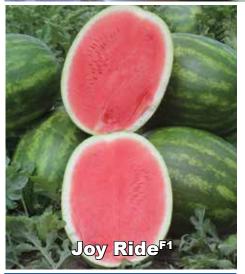
Please reference page 81 for complete information on growing triploid watermelons.

Fax: 864-227-5108

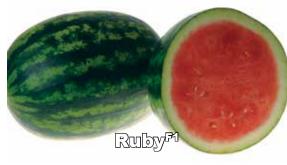
Variety	Days (from transplant)	Size	Shape and Color	Disease	Description
Red Fleshed					
4885 Arcadia F1	88-90	23 lbs		Tolerant A1- 3, F 0-1	Flesh is dark red, very crisp. Sweet, rich flavor. Extra firm makes it an excellent canidate for cut melon market. High yield potential reported.
4874 Belmont <sup>F1</sup>	90	6-10 lbs			90 Days. Miniature size range. Round-oval fruit weigh 6-10 lb, Vivid deep red flesh is extra firm & crispy, with very small pips. Highlly contrasting rind is clean bright white. Crimson Sweet type rind appearance, mid green with broad deep strpes. Vine is vigorous growing and strong with high yield potential of multiple fruit per plant. Use an early pollintor variety. Fresh local mkt, Garden Plant Sales, Sale wrapped.
4883 Charismatic <sup>F1</sup>	83	16-20 lbs			83 days. 16-20 lbs round-oval. 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 pollenizer for best results. Strong vigorous vines provide excellent yield potential. Best sub for Affirmed when needed.
4872 Eclipse F1	80	10-12 lbs			Seedless sugar baby type. Round-oval, shiny black green exterior. White inner rind crisply defined in sharp contrast to intense red flesh. Potential for high yields. Excellent flavor, very sweet and with aromatic undertones. Customers have been asking for Eclipse. Fresh Mkt, Shipping, Wrapped slices.
4876 Fascination F1	83	16-20 lbs		Tolerant A, F <sup>1</sup>	Crimson Sweet type rind. Interior is dark redand firm with small pips. Performed well in yield trials across major watermelon areas of U.S. Good uniformity of size and shape
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 vineand 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.
4879 Kingman F1	85	18-22 lbs			Top performer in university trials, including highest totaland highest 36-count yields at UGA. Crimson gene type with extremely bright red flesh. Firm and crisp with small pips.
4880 Lamar <sup>F1</sup>	83	12 lbs			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.
4886 Melody F1	60	14-16 lbs		Tolerant A	Growers have been asking for this variety. Great earliness. Deeper color then most triploids. Breeder trials indicate capability for heavy, concentrated fruit set under cool conditions. Good eye appeal.
4892 Revolution F1	84	18-24 lbs		Tolerant A	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
4893 & <mark>4893U</mark> Ruby <sup>F1</sup>	85	15 lbs		$A^{0-1}$ , $F^{1-3}$	Crisp, sweet red flesh. Small pips. Sharp internal contrast at flesh-rind boundary. Strong waxy rind improves retention of color and quality.
4894 Secretariat F1	80	26-20 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 F	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
4920 SuperSeedless® Brand Variety 7387 F1	93	17-22 lbs		Tolerant A	Dark red flesh with small pips. Excellent fresh cut or shipped. Strong vines with high yield potential.
4921 SuperSeedless® Brand Variety 7167	90	14-18 lbs		Tolerant A	High yield potential of quality deep red-fleshed fruit. Vines have very large leaves for good sun protection.
4923 SuperSeedless® Brand Variety 7197HQ F1	93	16-20 lbs		Tolerant A	Good size for a seedless melon. Suitable for commercial production. Deep red flesh, small pips. Med. length vigorous vine.
4915 SVØ241WA <sup>F1</sup>	80	12-13 lbs		Resistant A-1, 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.
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















#### **Watermelon Disease Codes**

A Anthracnose & race #'s

F Fusarium Wilt

GSB Gummy Stem Blight

4945U

Triple Baby

PM Pov	vdery Mildew & race #'s	100	No.	7	E 338 F 15	STATE OF		No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa
Cat#	Watermelon (M=1000)	10 sd	50 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)
4885	Arcadia	5.75	22.80	36.50	147.60	241.15	229.70	
4874	Belmont	5.90	23.30	37.35	151.15	247.00	239.40	
4883	Charismatic	3.10	12.25	19.65	79.55	130.00	126.00	
4872	Eclipse	7.00	27.70	44.40	179.65	293.55	284.50	
4876	Fascination	14.65	58.15	93.20	377.00	336.95	312.00	
4877	Harvest Moon	5.45	21.55	34.50	139.55	227.50	220.50	
4875	Joy Ride	7.30	28.95	46.40	187.70	298.25	265.15	
4879	Kingman	6.15	24.15	38.35	153.55	248.45	244.45	240.80
4880	Lamar	5.75	22.80	36.50	147.60	241.15	229.70	
4886	Melody	7.80	30.90	49.55	200.45	327.50	303.25	
4892	Revolution	8.30	32.95	52.80	213.50	320.95	311.05	
4893 & <mark>4893U</mark>	Ruby	5.75	22.80	36.50	147.60	241.15	229.70	
4894	Secretariat	6.15	24.15	38.35	153.55	248.45	244.45	240.80
4895	Summer Breeze	7.15	28.35	45.45	183.60	292.15	259.70	
4921	SuperSeedless® Brand 7167	7.55	29.90	47.90	193.75	275.85	267.40	
4923	SuperSeedless® Brand 7197HQ	8.30	32.95	52.80	213.50	326.55	316.50	
4920	SuperSeedless® Brand 7387	8.30	32.95	52.80	213.50	327.95	317.85	
4915	SV0241WA	6.80	27.00	43.20	174.70	276.95	246.20	
4918	Sweet Eat'n	4.50	17.95	28.75	116.30	141.40	137.05	

5.45

21.55





139.55

195.00

189.00

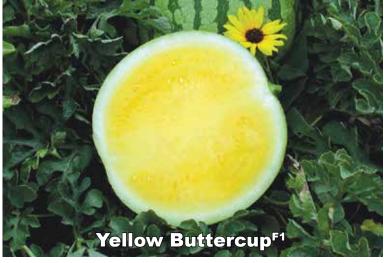
34.50



## **More Watermelon Triploid**

Approx. 400-500 seeds/oz = approx 7,200 / lb

(Citrullus lanatus)



Fax: 864-227-5108

Variety	Days	Size	Shape and Color	Disease	)		Descrip	otion	
Yellow Fleshed									
4881 Lemon Ice F1	85	10-12 lbs		Tolerant F <sup>1</sup>	<sup>2</sup> , PM <sup>1</sup>	Ice Box size. Firm rind pattern. Good			• .
4954 Yellow Buttercup F1	90	14-16 lbs				Bright yellow flesh, Jub	ilee rind type with si	harply defined dark	green tiger stripe.
Cat#		ermelon =1000)		10 sd	50 sd	100 sd	500 sd	1000 sd	5 M (per M)
4881	Len	non Ice		7.15	28.40	45.55	184.20	287.65	278.80
4954	Yellow	Buttercup		8.05	31.65	50.20	201.20	325.50	315.50

## **Watermelon Diploid**

#### See page 85 for photos and prices

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;  $3\frac{1}{4}$  lb produces approx. 10,000 plants ( $1\frac{1}{2}$ -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
Allsweet Types -	Red	Fleshed			
4679U Allsweet	90	25-30 lbs		Tolerant A <sup>1-3</sup> , F	A classic, Bright red flesh, high sugar content, exceptional firmness.
4737 Estrella <sup>F1</sup>	80	20-24 lbs		Tolerant A, FW	Vigorous vines, large leaves for great protective canopy. Has performed well in all water-melon areas needing early maturity. Can be use in frost-free winter production
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.
4794 & <mark>4794U</mark> Sangria <sup>F1</sup>	85	20-26 lbs		Tolerant A <sup>1</sup>	Sweet and refreshing. Dark red flesh with unsurpassed eating quality.
4835 Summer Flavor® Brand Variety 720 F1	<b>n</b> 85	28-30 lbs		Tolerant A <sup>1</sup>	Excellent shape and size. Medium to large vines with high yield potential. Sweet, bright red flesh.
4839 Summer Flavor® Brand Variety 790 HQ	<b>n</b> 85	24-28 lbs		Tolerant A <sup>1</sup>	Sweet deep red flesh. Vigorous large vine. Good yield potential. Very shippable.
4841 Summer Flavor® Brand Variety 840 F1	<b>n</b> 93	22-26 lbs		Tolerant A1, F1	Deep red flesh. Large vigorous vine. Potential for high yield.
<b>Charleston Grey</b> -	Red	Fleshed			
4708U Charleston Grey	83	26-33 lbs		Tolerant A, F	Rind characterized by distinctive, marbled light green color. Bright red flesh is very sweet. Good shipper.

Email: twilley@twilleyseed.com

84













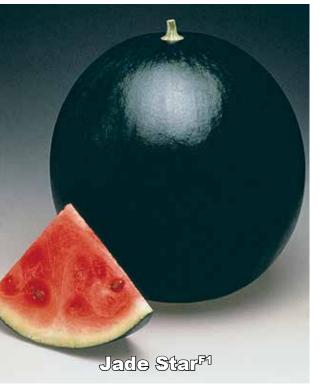
Cat#	Watermelon	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)
4679U	Allsweet	1.65	4.20	8.85	15.30	27.30	25.00	23.30
4708U	Charleston Grey	1.65	3.85	5.75	9.95	17.75	16.15	15.15
Cat#	Watermelon (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	30 M (per M)
4737	Estrella	5.30	14.50	58.15	94.10	83.35	72.85	
4749	Jamboree	4.60	14.30	57.30	92.70	82.10	71.75	
4794 & <mark>4794U</mark>	Sangria	4.65	14.60	58.55	94.70	83.90	73.30	
4835	Summer Flavor® Brand 720	10.25	26.80	106.40	166.30	155.30	144.25	135.10
4839	Summer Flavor® Brand 790 HQ	6.65	17.45	69.20	110.85	103.50	96.15	90.10
4841	Summer Flavor® Brand 840	6.65	17.45	69.20	110.85	103.50	96.15	90.10

## **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;  $3\frac{1}{4}$  lb produces approx. 10,000 plants ( $1\frac{1}{2}$ -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
Crimson Types -	Red	Fleshed			
4730 Compadre F1	84	20-25 lbs		Tolerant A, F, 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, F	Very popular shipping type. Delicious deep red firm flesh has high sugar content. Small seeded.
4769 PS11018330 F1	75-85	30 lbs			Shiny red flesh. Small seeded. Compact vigorous vine has tight sun cover over fruit. CA and Southeast trails very positive. Capable of jumbos as wide spacing.
4796 Shiny Boy <sup>F1</sup>	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.
Ice Box Types -	Red	Fleshed			
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
4764U Mini Love F1	70	6-9 lbs		Tolerant A	AAS trials reported good yield fo 4-6 melons per vine, shiny exterior with Crimson Sweet pattern. Thin but strong rind reported as not prone to cracking. Compact vinces spread 3-4'. <b>No sales to South Carolina.</b>
4799 Smile F1	80	6-8 lbs			High sugar and outstandingly tough rind. Excellent for long distance shipping. Withstands rough handeling and wet ground prior to harvest. Stores up to 12 days after harvest.
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 pollenizer we supply with most triploids.





Email: twilley@twilleyseed.com Fax: 864-227-5108











	Smile <sup>F1</sup>
W	latermelon Disease Codes
A	Anthracnose & race #'s
F	Fusarium Wilt
GSB	Gummy Stem Blight
PM	Powdery Mildew & race #'s



4769	PS 11018330	4.65	14.3	50 5	7.15	79.55	74.75	5 70.3	30	
4796	Shiny Boy	1.80	5.25	5 2	0.95	35.70	31.50	28.8	85	26.50
4799	Smile	2.20	6.75	5 2	7.00	39.65	37.90	36.3	30	
Cat#	Watermelon		1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 I (per I	
4719U	Crimson Sweet		1.65	3.90	5.85	10.00	17.95	16.30	15.0	0 14.00
4809U	Sugar Baby		1.60	2.70	9.00	15.85	28.50	26.00	24.2	.5
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	/	1.65	7.2	0 11	.80 4	1.00	61.00	78.00	71.00

500 sd

46.20

83.50

125.60

1000 sd

66.00

109.55

186.95

Watermelon (M=1000)

Compadre

Jade Star

Mini Love

25 sd

3.75

6.75

10.80

100 sd

11.55

20.85

31.35

Cat#

4730

4744

4764U

5 M (per M)

59.55

102.95

168.75

10 M

(per M)

53.65

96.85

151.90

50 M

(per M)

## **More Watermelon Diploid**

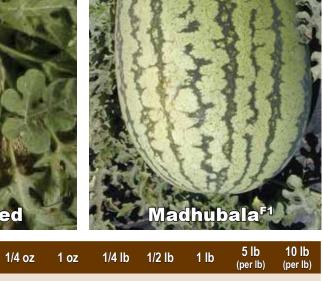
Approx. 200-300 sd/oz for large-seeded types (500 sd/oz for small-seeded types). F1 packets contain 25 sd; o.p. packets produce 6-10 hills;  $3\frac{1}{4}$  lb produces approx. 10,000 plants ( $1\frac{1}{2}$ -2 lbs if small-seeded). Germs in about 8 days. Set plants 24-36" apart in rows 72-96" apart (closer for bush types). **Days to maturity are from transplant**.



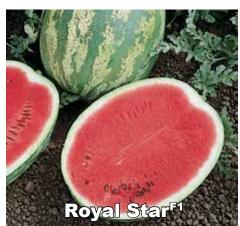
Variety	Days	Size	Shape and Color	Disease	Description
Jubilee					
4739U Georgia Rattlesnake	90	38-50 lbs			A southern heirloom customers have requested. Highly prized for size & eating quality. Firm, sweet, bright rose flesh. Vigorous vines.
4762 Julibee Improved	90-100	26-38 lbs		Tolerant A, F	90-100 days. Elongated. 26-38 lbs. The original Jubilee has been a favorite for many years. The rind in medium thick, light green with dark green stripes. The bright red flesh is sweet and fine textured. Large black seeds. Good shipper.
4768 Madhubala <sup>F1</sup>	80	22-26 lbs		Tolerant A1	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 A1	Good combo of fruit size, color, shape. Flesh is bright red, very fine flavor. Strong plant vigor.
4788 Royal Star <sup>F1</sup>	84	21-26 lbs		Resistant A <sup>1</sup> Tolerant F <sup>1</sup>	Attractive fruit is well protected by strong, healthy vines, making potential for high yield. Firm red flesh has small seeds. Thick rind is good for shipping.
4804 Starbrite F1	85	22-31 lbs		Resistant A <sup>1</sup> , F <sup>1</sup>	Capable of producing high percent Jumbos for roadside markets. Vigorous vines. Uniformly sweet deep red flesh. Good shipper.







Cat#	Watermelo	n	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)
4739U	Georgia Rattlesi	nake	1.70	3.20	11.00	18.90	33.80	30.90	28.90
4762	Jubilee Improv	red	1.55	1.75	5.70	9.85	17.55	16.00	15.00
Cat#	Watermelon (M=1000)	25 sd	100 s	d 50	0 sd 1	000 sd	5 M (per M)	10 M (per M)	30 M (per M)
4768	Madhubala	9.70	25.40	) 10	0.80	144.00	134.45	124.90	117.00
4766	Madhuri	9.35	24.45	5 96	5.90	144.00	134.45	124.90	117.00
4788	Royal Star	4.90	15.00	) 60	0.00	75.50	70.95	66.75	
4804	Starbrite	4.50	13.95	5 55	5.60	76.20	71.60	67.35	







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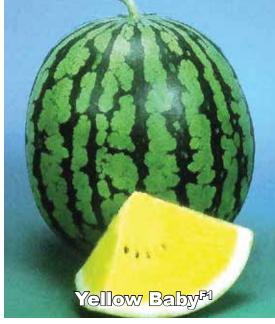








Cat#	Watermelon	1/32 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
4694U	Baby Doll	1.65	14.30	23.55	84.50	150.95	276.00	258.00
4868	Yellow Baby	3.45	40.75	66.95	240.50	429.65	785.85	734.40
Cat#	Watermelon (M=1000)	25 sd	100 sd	500 sd	1000 s	d 5 M (per M	10 M ) (per M)	50 M (per M)
4742	Gold in Gold	3.25	8.65	34.60	56.00	50.55	45.50	
4765	Lemon Krush	4.20	11.10	44.50	72.00	65.00	58.50	
4767	Orange Krush	4.30	11.30	44.95	72.00	67.25	62.45	58.50
4863	Verde Grande	2.45	6.50	26.00	37.50	35.85	34.30	
4869	Yellow Doll	7.15	21.60	86.55	115.80	108.8	0 102.35	





## **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;  $3\frac{1}{4}$  lb produces approx. 10,000 plants ( $1\frac{1}{2}$ -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**.

#### **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
Watermelon Oth	er Red	Fleshed			
4863 Verde Grande F1	85	20-25 lbs			Striking solid dark green rind. Distinctive appearance lends itself to use as pollinizer for triploids, providing a quality diploid product to sell alongside.
Non-Traditional Fle	sh				
4694U Baby Doll F1	70	6-8 lbs	0		Bright yellow crisp, sweet flesh. Best sub for Yellow Doll F1 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, F, PM <sup>1, 2</sup>	Large fruit much requested by customers. Firm, sweet yellow flesh. Popular Crimson Sweet Rind pattern
4767 Orange Krush <sup>F1</sup>	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

# Business is Blooming!

Locally grown cut flowers are a blossoming trend. There has been an increase in demand for them, whether for grand occasions such as weddings or for simple home table settings. They are fresher, brighter, more fragrant, more economical, and longer lasting than imported varieties. Local cuts save on shipping and leave a much smaller carbon footprint.

Both large and small farms are expanding their flower operations, as cut flower sales can strengthen and compliment income from locally grown fruits, vegetables and herbs. Flowers also attract honeybees and other beneficial pollinators, and this helps farm production.

In addition to zinnias, sunflowers, orlaya, and gomphrena, cut flowers can include ornamental grasses, herbs (such as basil or dill), foliage, or grains. Twilley Seed is delighted to offer many varieties of cut flower seed; look for this symbol throughout our flower section:

For an even more extensive selection of cut flower seeds, please contact us.









Symbols
FYF = First Year Flowering
A = Annual
P = Perennial

suitable for cut flower production

suited for growing in packs for bedding plant sales

#### Achillea (A. millefolium)

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".

100sd 2.00 500sd 8.55 1000sd 14.30 5M 12.05/M **Agastache** (*A. foeniculum*)

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".

100sd 4.15 500sd 19.15 1000sd 35.15 5M 26.30/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<sup>F1</sup> 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 preformance. For packs, pots, bedding.

100sd 2.05 500sd 8.80 1000sd 14.65 5M 12.00/M 10M 10.80/M





**6085 Blue Horizon** <sup>F1</sup> **→** Pelleted. 20"; Superb cutflower variety, also landscaping. Mid-blue.

100sd 2.15 500sd 9.15 1000sd 15.15 5M **Alyssum** (*Lobularia maritima*)

Alyssum (Lobularia maritima) \*\*\* 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.

**6107 Clear Crystals White** FilmCoat. Large, durable flowers with tetraploid vigor and strong, thick texture. Extra early and showy at sale and in the garden. 6" spreading to 12".

100sd 1.55 500sd 2.20 1000sd 3.15 5M 2.50/M 6157 New Carpet of Snow Dwarf, spreading plants are uniform and compact. Pure white flowers. Ht. 3".

100sd 1.55 500sd 2.10 1000sd 3.00 5M 1.15/M 6214 Wonderland Mix Ideal for bedding plant use. Compact and early to bloom. Ht. 3". 100sd 1.55 500sd 2.10 1000sd 3.00 5M 1.15/M

100sd 1.55 500sd 2.10 1000sd 3.00 5M 1.15/N

#### **Amaranthus** (A.caudatus)

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** ( San tr.) Coral-pink tassels droop and cascade from atop sturdy stems. Superb filler material for arrangments and bold annual land-scape hedger.

100sd 1.55 500sd 2.20 1000sd 3.15 5M 2.35/M





6246 Hot Chili > 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.

100sd 1.55 500sd 3.15

#### Amaranthus (A.cruentus)

Oeschberg 40"; Whole plant is ornamental. Tall spikes of crimson purple flowers rise above dense 20" mass of bronze purple foliage. Panicles make nice fieldgrown cutflowers, whole plant is ornamental in border or mass landscape. Easy annual, can be direct sown.

100sd 1.55 500sd 2.20 1000sd 3.15 5M 2.60/M

Ammi (A. majus)

6248 Select White \$\sime 3\$ ft; White umbels, good fieldgrown filler and specialty cut.

100sd 1.55 500sd 2.30 5M 1 40/M

#### **Aster** (Callistephus chinensis)

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 > 20" pot, 36" gdn; Premium professional cutflower, 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.

100sd 1.55 500sd 4.75 5M 6.60/M







6258 Julie Mix 24-30"; Semidouble with tight petals and golden centers. 2-4 weeks earlier blooming than comparable varieties. Medium tall. Branching very low to ground. Can be raised for harvest as whole plant bouquet or at tighter spacing can be used for single-stem cuts. Strong disease tolerance. Blend of Blue, Pink, Rose & White. Professional

quality cutflower. For high tunnel or field growing. 100sd 7.15 500sd 33.15 1000sd 61.15 5M 40.50/M 6268 Matsumoto Mix Lupright flowering habit. Medium-sized flowers with distinct yellow center. Strong, sturdy stems with 2" blooms. Heat and disease resistant. Ht. 21/2'.

1000sd 3.30 100sd 1.55 500sd 2.30 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".

500sd 2.95 1000sd 4.20 100sd 1.55 **6288 Powderpuffs Mix** Lovely bouquet-type habit. Profuse, 3" double flowers, good range of colors. Wilt resistant. Ht. 2'.

#### 500sd 1.90 1000sd 3.00 5M 1.75/M 100sd 1.45 Begonia Fibrous-Rooted

(B. semperflorens)

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.

6360 Ambassador Mix F1 Green foliage. One of the earliest green-leaf types, with blooms of rose, scarlet and white.

100sd 1.55 500sd 3.70 1000sd 6.20 5M 5.10/M 10M 4.65/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.

100sd 1.55 500sd 3.80 1000sd 6.50 5M 5.25/M 10M 4.90/M

Cocktail F1 Series Deep bronze foliage. Sun-tolerant. 100sd 1.55 500sd 3.20 1000sd 5.35 5M 4.40/M 10M 4.00/M **Begonia Tuberous-Rooted** 

(B. x tuberhybrida)

Α

Grow the same as fibrous-rooted types. Large, showy blooms excellent for pots, mixed planters and hanging baskets in

6428 Nonstop Mix F1 Double blooms 31/2-41/2". Compact basal branching plants. Ht. 8".

100sd 3.50 500sd 16.05 1000ed 20 25

5M 24.00/M

### **Begonia** (B. x benariensis)

Grow the same as fibrous-rooted types. Large, showy blooms excellent for pots, mixed planters and hanging baskets in

Big Series 14" pot, 20" gdn; Extra large 2-3" flowers are produced on upright, arching plants. Handsome 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 6399 Rose Bronze Leaf F1

25sd 4.70 100sd 11.15 500sd 53.25 1000sd 101.60







### Bupleurum (B. rotundifolium)

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 30"; Yellow flowers in small 2" umbels. Classic bouquet filler.

100sd 1.55 500sd 2.25 1000sd 3.20

Calendula (C. officinalis)

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 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 readymade bouquet.

100sd 1.90 500sd 7.70 1000sd 11.85 5M 9.95/M







6519 Pacific Beauty Mix → Large, graceful blooms on long stems in clear bright orange and yellow shades. Somewhat heat-resistant. Ht. 24". 100sd 1.55 500sd 2.65 1000sd 3.80 5M 1.65/M

Campanula *(C. medium)* 

Approx. 30,000 pels/oz. Blooms early to late summer. Suitable for light and medium well-drained soil. Germ in 14-21 days.

**6522 Champion Pro Mix**  $^{\rm F1}$   $\stackrel{>}{>}$  Pelleted. 4 ft; Produces masses of valuable filler material for cutflower work. More densely branched than Champion, with a very large number of slightly smaller flowers that tend to clothe the entire plant. Excellent filler or stunning whole-plant bouquet. 50sd 3.40 100sd 4.85 500s

500sd 22.30 1000sd 40.70 Canna

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,

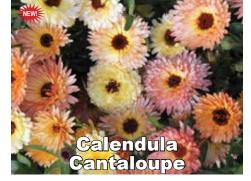
beds & borders. 10sd 8.05 50sd 31.25 100sd 44.65 500sd 204.85 1000sd 373.55

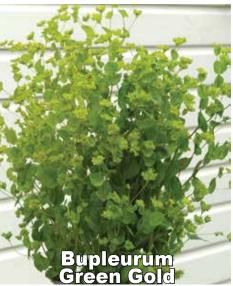
Carnation (Dianthus caryophyllus)

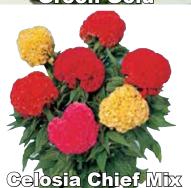
Approx. 14,000 sd/oz. Sow sd 10 weeks before sale. Germ in 14-28 days at 70°F. Grow cool for cut flower production. Beds, borders and containers in sun. Excellent for bouquets. Space 12-18" apart.

6591 Chabaud Florist Mix >< 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".

100sd 1.55 500sd 2.20 1000sd 3.15







#### Celosia

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)

Brainiac Series 6"; Large crested flower heads on short, densely branching plants. This flower type, shaped like a mohawk haircut, has become very popular among cutflower growers. Brainiac's dwarf habit makes it now available for bedding and container sales. Very early, heat tolerant, for full sun to very light shade, suitable for bench run production. Works well in landscapes.

6656 Lightning Yellow 6658 Mad Magenta 6659 Mix 6660 Raven Red 6661 Think Pink 100sd 4.30 500sd 19.70 1000sd 35.95 5M 29.65/M 6655 Bombay Mix☆ Pelleted. 3 ft; Exotic fan

shaped strong cutting stems. crests. 100sd 8.65 50sd 6.05 500sd 39.80 1000sd 72.90

Chief Series 40"; Crested flowers bred especially for cut flowers with strong single stems. Mix is full color range including bicolors.

6665 Gold 6666 Mix 6667 Red 500sd 3.50 100sd 1.55 1000sd 6.00 5M 4.95/M







6700 Kurume Mix 48"; Tall strong stems with large

globular brilliant color combs. 100sd 1.55 500sd 3.45 1000sd 4.90 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". 100sd 1.55 500sd 3.50 1000sd 5.95 5M 4.75/M 10M 4.40/M

6755 Toreador Huge 12" scarlet combs make it excellent for cutting. Ht. 18-24".

100sd 1.55 500sd 2.10 1000sd 3.00 5M 1.15/M 10M 0.80/M

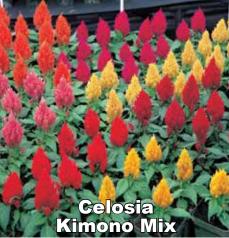
#### Plume Types (C. plumosa)

6663 Century Mix Extra-large plumes up to 12" long on semi-dwarf plants. Bright, long-lasting colors. Ht. 28".

500sd 4.75 1000sd 7.95 5M 6.45/M 6697 Dragon's Breath > 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. 25sd 5.50 100sd 13.15 500sd 60.40 1000sd 110.40 6670 Fresh Look Red Pelleted. Bright fresh greenleaved companion to the well known New Look. Broad plumes on vigorous branching habit. Ht 14". 100sd 1.55 500sd 3.80 1000sd 6.40 5M 5.20/M 5M 5.20/M 1000sd 6.40 6692 Kimono Mix Very uniform, dwarf plant habit. Bright colors do not fade under strong summer sun. Ht. 8".

5M 4.75/M 100sd 1.55 500sd 3.50 1000sd 5.95







6709 New Look® FilmCoat. Large, glowing, deep red plumes on bushy, basal-branching plants. Fine dark foliage. Ht. 15".

500sd 3.80 1000sd 6.40 5M 5.20/M **6752 Sunday Mix** 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 2.80 100sd 6.65 500sd 30.40

1000sd 55.15 Cleome (C. hassleriana)

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. 100sd 1.55 500sd 2.10 1000sd 3.00

6799 Sparkler Blush F1 First dwarf hybrid that flowers at 14"; 6" containers. Garden height reaches 48" by summer's end.

25sd 3.95 100sd 9.45 500sd 43.85 1000sd 81.00 5M 65.40/M

Coleus (C. blumei)

Approx. 100,000 sd/oz. Sow 8-10 weeks before spring sales under light. Germ in 10-15 days at 70-75°F. Ornamental foliage showy for beds, borders, mass plantings, containers. Shade or sun. Space 8-10" apart.

6828 Premium Kong Empire Mix Giant leaves up to 8" broad. Mix is four brightest varieties of series with multicolor foliage and a broad range of lively colors. Basal branching. Needs full shade. Ht. 18".

25sd 6.00 100sd 14.30 500sd 65.40 1000sd 118.90 5M 96.90/M















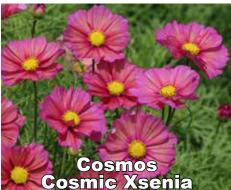












6829 Superfine Rainbow Color Pride Brilliant rose leaves. edged in green, mottled with bronze-red. Ht. 12".

6830 Superfine Master Blends Rainbow Mix 🛰

Prices for Rainbow Color Pride & Master Blends: 100sd 1.55 500sd 4.45 1000sd 7.45 5M 6.15/M 10M 5.60/M Wizard® Series Compact habit needs no pinching and resists stretching. Slow bolting. Ht. 10".

6843 Mix 6844 Red Velvet 500sd 4.55 1000sd 7.60 100sd 1.55 5M 6.20/M

Coreopsis (C. grandiflora)

Approx. 11,000 sd/oz. Sow 6-8 weeks before sale in packs/ 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 → 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". 100sd 1.55 500sd 5.25 1000sd 8.75 5M 7 20/M

Cosmos (C. bipinnatus)

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.

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.

500sd 13.95 100sd 3.25 1000sd 23.40 5M 19.70/M 6883 Early Sensation Mix Colors White, pink and rose shades. Ht. 31/2-4'.

500sd 2.90 1000sd 4.15 6908 Sonata™ Mix (4colors) 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 13.55 1000sd 21.70 5M 17.65/M 6930 Cosmic Xsenia 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.

25sd 1.80 100sd 4.25 500sd 19.75 1000sd 36.50 5M 29.25/M





COSMOS (C. sulphureus)

6876 Cosmic Mix Stocky, free flowering well branched habit good for packs, containers & garden. Ht. 12".

6878 Cosmic Orange Compact, well-branched, free flowering plants produce 2" double to semidouble golden-orange blooms all season. Packs, Pots or Bedding. Ht. 12".

Prices for Cosmic Mix and Cosmic Orange:

1000sd 8.75 100sd 1.55 500sd 5.25 5M 7.20/M

Dahlia (D. pinnata)

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.

6953 Bishop's Children 40"; Vibrant mixed colors, intense purple foliage & stems, impressive cutflower or border plant.

500sd 5.50 1000sd 9.50 100sd 1.55 6955 Bloody Mary Mix Dwarf bronze leaved strain, extra compact, double & semi-double flowers. Ht. 15".

1000sd 8.20 500sd 4.75 100sd 1.55 6973 Figaro Mix Early blooms for commercial production. Dwarf plants; single, semi-double blooms. Ht. 1'. 100sd 2.50 500sd 10.70 1000sd 17.85 5M 14.50/M 6989 Harlequin Mix Single blooms with two-tone solid colors and

bicolors. Ht. 12". 100sd 3.25

500sd 13.70 1000sd 22.35

Daucus (D. carota)

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. 100sd 2.35 500sd 10.10 1000sd 16.95 5M 1

5M 13.40/M

### **Delphinium** (D. cultorum)

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'. 1000sd 9.85





**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'.

100sd 1.55 500sd 5.50 1000sd 9.55 5M 7.85/M

#### **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.

7101 Carpet Snowfire F1 (Dianthus chinensis) Annual. Uniform, dense mounds covered in blooms of cherry-red with white margins. Silver-blue foliage. Ht. 6".

50sd 2.30 100sd 3.25 500sd 12.95 1000sd 19.45 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".

100sd 2.20 500sd 9.55 1000sd 16.15 10M 10.50/M

100sd 2.20 500sd 9.55 1000sd 16.15 10M 10.50/M Super Parfait F 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 2.30 100sd 3.30 500sd 15.00 1000sd 27.15 5M 22.00/M 7117 Telstar Mix Fi (Dianthus chinensis) Annual. Early flowering dwarf variety which continues to bloom until frost; heat resistant. Excellent for pot, pack and bedding. Ht. 10". 50sd 2.30 100sd 3.25 500sd 14.25 1000sd 24.60 5M 20.15/M

50sd 2.30 100sd 3.25 500sd 14.25 1000sd 24.60 5M 20.15/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'.

7099 Rockin' Red F1 (Dianthus barbatus) 

Pelleted.

18" spreading 10" pot, 24" spreading 12 " gdn; FYF. Long lived perennial. Vivid deep red. Durable lacy fragrant flowers crowd in clusters atop lushly branched plants. Lots of color on a very sturdy frame. For quarts to gallon, and in field or high tunnel as fresh local cut flower for bouquets.

25sd 5.30 100sd 12.60 500sd 57.95 1000sd 105.90









7074 Sweet Mix F1 (Dianthus barbanus)
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.
25sd 1.80 100sd 4.30 500sd 20.00 1000sd 37.00

### **Dusty Miller**

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. Silverywhite with serrated leaves. Ht. 6-8".

100sd 1.45 500sd 1.90 1000sd 3.00 5M 1.75/

#### Echinacea hybrida

7170 Cheyenne Spirit 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.

25sd 9.85 100sd 23.45 500sd 108.45 1000sd 199.70 5M 169.95/M

### Echinacea purpurea

**7174 Bravado** See Showy flowers with broad horizontal petals. Bright rosy purple blooms on strong stems. Garden plant and long lasting, productive cut flower. Ht. 32".

100sd 1.55
7173 Green Twister 32" first yr, 40" 2nd yr; FYF. Wonderful new color shades. Lime green with narrow band of carmine red at base, some with yellow edges. Older blooms have a large neon-carmine zone with distinct band of green at edges. Golden cones mature to mahogany; many stems are deep burgundy. Pattern appears stable after field production of thousands of plants. For Premium Containers, Fieldgrown Cut Flowers, Perennial Borders.

ers, Fieldgrown Cut Flowers, Perennial Borders. 25sd 3.00 100sd 7.20 500sd 33.45 1000sd 61.90 5M 52.15/M 7175 PowWow Wild Berry 16-20"; FYF. Unique, intense rose-purple flowers with dark rose center.

25sd 5.80 100sd 13.75 500sd 63.60 1000sd 117.15 5M 99.65/M









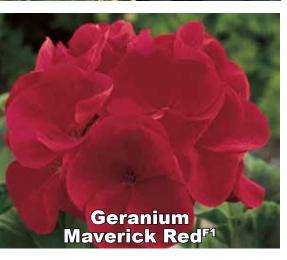


















Echinacea x hybrida 7196 Paradiso Tall Mix<sup>F1</sup> 24" pot, 32" gdn; Mostly FYF. In- terspecific crosses blended to provide a broad, unique color range of scarlet, red, yellow, white, salmon, deep rose & soft pink. Flower form varies, from downcurved to horizontal, a few with fluted petals. Excellent material for fieldgrown or high-tunnel cutflower crop, or perennial border. 25sd 3.50 100sd 8.30 500sd 38.60 1000sd 71.55 5M 59.35/M

#### Gaillardia (G. x grandiflora)

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 vern 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. 7176 Sun 7177 Apricot

50sd 2.30 100sd 3.25 500sd 14.15 1000sd 24.15 5M 20.50/M Gazania (Gazania rivens)

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.

7228 Sunshine Mix Tetraploid. Big multi-colored 4" flowers, many with 4 to 5 clearly defined colors of cream, yellow, orange, pink, bronze and red. Compact plants with silver-green foliage. Ht. 10".

100sd 1.55 500sd 5.50 1000sd 9.50 5M 8.10/M
7233 Talent Mix Compact plants with 3" blooms on silvery white foliage. Contains white, yellow, maroon, pink and orange. Ht. 8".

50sd 1.80 100sd 2.60 500sd 10.95 1000sd 17.90 5M 14.65/M





**Geranium** (Pelargonium x hortorum)

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.

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".

7306 Orange 7309 Pink 7311 Star 7310 Red 10sd 1.95 50sd 7.65 100sd 10.90 1000sd 91.20 5M 74.65/M 7334 Landscaper Red F1 (Moulin Rouge) FilmCoat. Clas-

sic 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".

10sd 1.95 50sd 7.65 100sd 10.90 1000sd 91.20 5M 75.25/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 1.95 50sd 7.50 100sd 10.70 1000sd 89.85 5M 73.55/M Pinto Premium Series F1 FilmCoat. Zoned foliage. Uniform with large round florets and overlapping petals. 14-15 weeks. Ht. 10".

7378 Deep Rose 7384 Mix 7388 Scarlet 🎎 7390 White to Rose 7389 Violet 10sd 1.95 50sd 7.65 100sd 10.90 1000sd 91.20 5M 74.65/M

Geranium Ivy Leaf (Pelargonium x peltatum)

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. 10sd 5.20 50sd 20.25 100sd 28.90 1000sd 243.80 5M 198.65/M

Gerbera (G. jamesonii)

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.

25sd 1.55 100sd 3.30 500sd 14.75 1000sd 26.15 7490 Majorette Mix<sup>F1</sup> 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.

10sd 4.35 50sd 16.95 100sd 24.20 1000sd 203.55









#### Godetia (G. Whitney)

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. 21/2

50sd 3.45 100sd 4.90 500sd 22.60 1000sd 41.40 5M 33.45/M

### Gomphrena globosa

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".

100sd 1.55 500sd 3.55 1000sd 5.95 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.

100sd 3.25 500sd 13.40 1000sd 21.15 7509 Strawberry Fair > Brilliant deep rosy-orange and red 1" blooms. Attractive in gardens or in fresh and dried arrangements. Ht. 24

500sd 2.40 1000sd 3.40 5M 2.95/M

### Gypsophila (G. muralis)

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.

Gypsy Series 10" forms neat mounds of airy semidouble to fully double delicate flowers. Gypsy White 2018 AAS Winner with markedly better branching habit, earliness and flower power.

7529 Pink

100sd 2.05

500sd 8.75

**7531 White** 1000sd 14.60









### Heliotrope (H. arborescens)

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.

100sd 1.55 500sd 2.20 1000sd 3.15 5M 2.50/M 10M 2.00/M

#### Hibiscus (H. moscheutos)

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.

7582 Pink 7586 White 7584 Rosy Red 10sd 4.90 50sd 19.05 100sd 27.20 500sd 125.65 1000sd 231.00









### Hollyhock (Alcea rosea)

7590 Chaters Double MixF1 6 ft; 100% double large

1000sd 16.60 50sd 1.60 100sd 2.30 500sd 9.90 Hypoestes (H. sanguinolenta)

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 MixF1 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 con-

tains Pink, Red, Rose and White. 50sd 1.55 100sd 1.95 500sd 8.10

1000sd 12.95









## **Impatiens New Guinea**

(Impatiens hawkerii)

Florific F1 Series Large 2" flowers borne flat on top of foliage. Uniform well-branched plants. Quick crop time about 12-14 weeks. Grows well under high density cropping. Not susceptible to DM so can be used as safe alternative where regular Impatiens have had that problem. For jumbo packs & 4" pots. Ht. 8".

7816 Mix 7817 Red 7818 Sweet Orange 🚵 50sd 3.65 100sd 5.20 500sd 23.90 1000sd 43.60 5M 35.95/M

#### Impatiens (I. walleriana)

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 7666 Lavender Blue

7671 Premium Red 7672 Red Star

7675 Premium Salmon 7677 Star Mix

7679 Premium White

7668 Premium Deep Orange

50sd 1.55 100sd 1.95 500sd 8.20 1000sd 13.30 5M 10.85/M

Beacon 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 7700 Select Mix

7680 Violet **7681** White 











Super Elfin F1 Series Best selling impatiens series. Bred for uniformity and consistent habit. Ht. 9".

7780 Bright Orange 7781 Coral XP 7783 Lipstick 7784 Mix 7786 Pink XP 7787 Red XP

7793 White XP

50sd 1.55 100sd 2.05 500sd 8.70 1000sd 14.30 5M 11.75/M

### Larkspur (Delphinium consolida)

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 🔭 Long, strong flower spikes on upright, sturdy plants. Mixture of pink,

white and blue shades. Ht. 4'. 100sd 1.45 500sd 1.90 1000sd 3.00 Lisianthus 🔀 (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 out-

door or greenhouse production. 50sd 2.90 100sd 4.15 500sd 19.05 1000sd 34.65 7877 Echo Mix F1 Pelleted. Tall with all-double blooms. Early flowering on sturdy stems. Ht. 30". 100sd 3.25 500sd 13.30 1000sd 20.90







7900 Mariachi Best Buy MixF1 Pelleted. 32-36"; large high-double camellia shaped flowers, quadra-petalled & 2-2.5" diam. Excellent summer crop from winter sowing. Thick petals, tough stems for shipping and shelf life. Group II professional cut flower.

500sd 17.05 1000sd 31.15 50sd 2.60 100sd 3.70 7880 Rosita 2 Blue Picotee<sup>F1</sup> 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.

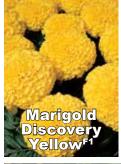
50sd 4.40 100sd 6.25 500sd 28.65 1000sd 52.15

#### Lobelia (L. erinus)

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.

7930 Cobalt Blue Multi-pelleted early flowering rich blue with uniform, vigorous and compact habit. 100sd 1.55 500sd 4.15 1000sd 6.80 5M 5.55/M 7949 Regatta Mix Free flowering habit with a wide range of colors. The dense, cascading habit is perfect for baskets and planters.

100sd 1.55 1000sd 2.45 5M 1.75/M 10M 0.45/M











# Marigold Marigold American

(Tagetes erecta)

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** FI **Series** Detailed. Day length neutral. Blooms eight weeks after sowing. Compact bushy plants produce 4" fully double blooms. Ht. 12".

7987 Gold 7988 Mix 7989 Orange 7991 Yellow

50sd 2.30 100sd 3.30 500sd 14.85 1000sd 26.40 5M 21.60/M









#### **Big Duck Series**

12" spreading 10" pot, 18" spreading 15" gdn; Robust, densely branching knee-high habit. Foilage stays fresh and deep green through all weathers . Keeps blooming 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 8002 Mix 8004 Orange 8006 Yellow

50sd 3.05 100sd 4.35 500sd 20.00 1000sd 36.50 5M 30.10/M 8009 Crackerjack Mix Tall field grown mixture, casual double flowers a classic for field grown cut flowers. 500sd 2.10 1000sd 3.00 5M 1.15/M

**Crush Series** Detailed. Large-flowered dwarf type; blooms early under short days. Plants bear ruffled 3½-4" blooms. Detailed seed. Ht. 6-8".

8007 Pineapple 8008 Pumpkin 50sd 1.55 100sd 1.95 500sd 7.90 1000sd 12.15 5M 9.95/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 3.25 500sd 13.65 1000sd 22.20 5M 18.00/M 8037 Inca Gold Huge fully double gold flowers, intermediate height, majestic garden color. A classic. Ht. 14".

 $50sd\ 2.30$   $100sd\ 3.30$   $500sd\ 15.00$   $1000sd\ 27.15$   $5M\ 22.20/M$  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 8030 II Orange 8038 II Primrose 50sd 2.30 100sd 3.30 500sd 15.00 1000sd 27.15 5M 22.00/M





















Jedi <sup>F1</sup> Series 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 8080 Orangeade 

Special deep orange color for cutflowers.

100sd 1.55 500sd 3.35 1000sd 4.80 5M 4.15/M 10M 3.30/M 8097 Narai Orange F¹ 3 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.
50sd 3.00 100sd 4.25 500sd 19.75 1000sd 36.55 5M 30.90/M

50sd 3.00 100sd 4.25 500sd 19.75 1000sd 36.55 5M 30.90/M 8040 Savannah Ivory SC Detailed. Creamy nearwhite 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'
50sd 1.55 100sd 1.90 500sd 7.80 1000sd 12.15 5M 10.25/M







### 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".

8146 Bee 8149 Gold 8150 Mix 8151 Orange 8152 Yellow 100sd 1.55 500sd 3.20 1000sd 5.25 5M 4.30/M 10M 3.90/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".

100sd 1.55 500sd 3.20 1000sd 5.35 5M 4.35/M 10M 4.00/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 8222 Mix

100sd 1.55 500sd 4.35 1000sd 7.25 5M 5.95/M 10M 5.45/M 8236 Red Cherry A true classic unexcelled for color intensity. Large 1½" double crested flowers. Ht. 12". 100sd 1.55 500sd 2.10 1000sd 3.00 5M 1.15/M 10M 0.75/M Safari Series Detailed. Bushy, vigorous plants provide an abundance of fully double 2" flowers. Ht. 8-10."

8250 Mix 8251 Orange 8257 Red PVP 8256 Yellow 100sd 1.55 500sd 3.50 1000sd 5.00 5M 4.20/M 10M 3.45/M **Marigold Triploid** 

Earliest blooming of all marigolds because they are sterile. They bloom abundantly all season and they do not require dead-heading.

**Zenith Series** Detailed. Huge, double flowers measuring 3" on compact plants. Ht. 12".

8280 Lemon Yellow 8281 Mix 100sd 3.50 500sd 16.15 1000sd 29.60 5M 24.00/M







### Melampodium (M. paludosum)

Cover seed lightly and keep uniformly moist. Grow under high light intensity.

**8304 Jackpot Gold** 10", Larger flowet, better, denser branching, with more color than 'Million Gold'. Compact & early, golden flrs, works well as commercial pot crop and performed very well in garden endurance trails. Color all summer to frost. 50sd 2.75 100sd 3.95 500sd 18.10 1000sd 32.95

### Moluccella 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**  $\sim$  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.

100sd 1.55 500sd 2.30 1000sd 3.25 5M 2.80/M

### Morning Glory(Ipomoea purpurea) A

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

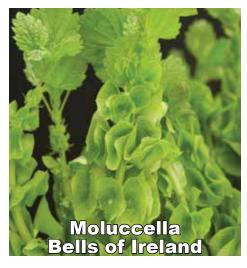
1000sd 3.50

favorite. 100sd 1.55 500sd 2.45

5M 3.00/M







#### Nasturtium (Trapaeolum majus)

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.

**28325 Tip Top Mixture** 10"; Dwarf, early, top flowering. **100sd 2.30 500sd 9.85 1000sd 16.50 5M 12.45/M** 

#### Nicotiana (N. alata)

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".

#### 100sd 2.30 200sd 3.25 500sd 7.10 1000sd 12.20 Ornamental Cabbage & Kale

(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 foilage. Chill ornamental cabbage for 3 days in a dark refridgerator 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 (2) Cut flower type with round heads on clean, strong stems.

100sd 2.55 500sd 10.80 1000sd 17.85 5M 14.60/M 10M 13.45/M



King

Ornamenta<mark>l Cabbage</mark> Crane Feather Mix<sup>F1</sup>







8354 Ornamental Cabbage Crane Feather Mix<sup>F1</sup> 
24-36"; Feather leafed version of the Crane series. Strongly colored heads with deeply cut ruffly 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 bounders.

Cutflower, Winter bouquets. 25sd 2.75 100sd 6.60 500sd 30.35 1000sd 55.55 5M 45.15/M 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 2.50 500sd 10.50 1000sd 17.15 5M 13.95/M 10M 12.60/M















8366 Ornamental Kale Black Leaf<sup>\*1</sup> 30-34"; Cutflower type with near-black, purple-bronze leaves and dark bronze stems. Large round-leaf heads. Extremely cold tolerant. For high tunnel production, fall, winter, or spring. Worth testing as fieldgrown crop.

100sd 8.50 500sd 39.50 1000sd 73.20 5M 60.00/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°E.

100sd 9.15 500sd 41.95 1000sd 76.50 5M 62.30/M 8882 Ornamental Kale Maribor F1 Unique foliage is vibrant purple at base and tipped with deep, bluegreen ruffled fringe. Robust, edible or ornamental for garden or container. Ht. 15".

100sd 3.25 500sd 13.60 1000sd 21.90 5M 18.10/M 10M 16.40/M
Ornamental Kale Nagoya F1 Series Long lasting cool
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.

100sd 1.90 500sd 7.65 1000sd 11.65 5M 9.55/M 10M 8.55/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 with

8407 Red 8408 White 100sd 3.25 500sd 13.55 1000sd 21.85 5M 17.85/M 10M 16.50/M





#### **Ornamental Millet**

**8309 Jester** <sup>F1</sup> 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 land-scapes.

25sd 6.40 100sd 15.25 500sd 71.65 1000sd 134.25
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. Cornucopia, landscape, large container. Ht. 4.51

25sd 6.40 100sd 15.25 500sd 71.65 1000sd 134.25 **Ornamental Pepper** 

(Capsicum annuum)

Δ

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.

25sd 1.55 100sd 1.80 500sd 4.80 1000sd 8.25 5M 6.55/M 8428 Black Pearl Fantastic Foliage®. Unique, black-

leafed 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<sup>TM®</sup> program advertised nationally.

Ht. 15". 25sd 5.95 100sd 14.15 500sd 65.15 1000sd 119.30 5M 96.35/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".

25sd 3.95 100sd 9.45 500sd 43.40 1000sd 79.35 5M 64.95/M 8443 Onyx Red 9" tall spreading 12"; Unique show-

stopper with true "wow" value. Shiny, pure deep black foliage and large numbers of small .5" oval fruit that start black and turn

blazing red. 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.

## 25sd 6.95 100sd 16.55 500sd 75.95 1000sd 138.50 5M 113.40/M **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** > 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 & cornucopia.

100sd 1.55 500sd 3.50 1000sd 6.15 5M 4.15/M 8459 Silver Tip Wheat 3 ft; Long heads, pure, lighttan 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 & cornucopia.

100sd 1.55 500sd 3.50 1000sd 6.15 5M 4.15/M

### Osteospermum A

Germ 7-10 days at 70 F. Flowering type ranges from about 110 days if sown mid-September to 80 days if sown in April. Use a well drained soil mix and keep on the dry side. The cooler the temperature, the higher the bud count and the more compact the plants will be.

8462 Passion Mix Blend of 2" daisy-like flowers in pink, rose, purple and white. Adaptable to 4 or 6" pots as well as containers and combination planters. Somewhat disease and pest free. Excellent for winter annual color. Ht. 12-18".

25sd 14.65 50sd 19.00 100sd 27.15 250sd 62.55 1000sd 229.25







### Pansy & Viola

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** <sup>F1</sup> 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.

50sd 1.55 100sd 1.95 500sd 8.15 1000sd 13.15 5M 10.70/M 8542 Pansy Jolly Joker Unusual bicolor of velvety purple with orange face, some with purple veining. Compact plants produce 2" to 3" heat tolerant blooms.

100sd 1.55 500sd 3.90 1000sd 6.55 5M 5.35/M 10M 4.95/M 8544 Pansy Majestic Giants II Mix  $^{\rm F1}$  World's most popular pansy. Giant blotched flowers up to 4 inches. Ht. 7".

50sd 2.60 100sd 3.70 500sd 17.05 1000sd 31.15 10M 25.10/M 8591 Pansy Swiss Giants Mix Large-flowered mix with velvety texture in a wide color range, all with blotch.

100sd 1.55 500sd 2.20 1000sd 3.15 5M 2.15/M 10M 1.60/M 8596 Pansy Ultima Morpho F1 Unique bicolor neon blue and pure yellow, named for the butterfly. Superb color show of big flowers. 50sd 2.55 100sd 3.65 500sd 16.80 1000sd 30.70 10M 25.15/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". 50sd 1.80 100sd 2.60 500sd 11.00 1000sd 18.15 5M 14.85/M

#### Pentas (P.lanceolata)

Graffiti Series<sup>F1</sup> 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) 8615 Bright Red 25sd 2.90 100sd 6.95 500sd 31.80 1000sd 57.90 5M 49.90/M

#### Petunia

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 grandiflora

Daddy F1 Series Pelleted. Big, ruffled blooms have distinctive dark vein patterns. Early blooming and uniform with outstanding weather tolerance. Ht. 10".

8717 Blue

8718 Mix

8719 Orchid rosy lavender with darker veins

8723 Sugar deep wine-red veins.

100sd 1.55 500sd 3.90 1000sd 6.55 5M 5.35/M 10M 4.90/M Dreams F1 Series Pelleted. Outstanding disease tolerance. Free flowering, branching habit with excellent garden performance. Blooms 3-31/2" across. Ht. 10".

8772 Appleblossom 8773 Midnight 8776 Pink 8777 Red 8774 Mix 8779 White 100sd 1.55 500sd 3.90 1000sd 6.55 5M 5.35/M 10M 4.90/M







8815 Frost Mix<sup>F1</sup> Pelleted. Richly textured, white trimmed edge. Frosted bicolor patterns remains stable throughout

the season. Mix is blend of 4 picotees. Ht. 12-14". 100sd 1.55 500sd 4.30 1000sd 7.25 5M 6.00/M 10M 5.40/M 8840 Limbo GP Heather's Mix <sup>F1</sup> 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.

500sd 9.45 1000sd 15.75 5M 13.10/M 8887 Sophistica Lime Bicolour<sup>F1</sup> 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'

50sd 6.30 100sd 9.00 500sd 41.30 1000sd 75.25 5M 61.65/M 8871 Prism Sunshine F1 Pelleted. Extra early, compact

golden-yellow 3" blooms with creamy edges. Plants remain very uniform and compact.

100sd 1.55 500sd 3.85 1000sd 6.50 5M 5.25/M 10M 4.75/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 1.55 500sd 3.90 1000sd 6.55 5M 5.35/M 10M 4.90/M 8939 TriTunia ProFormula Mix<sup>F1</sup> 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 1.55 500sd 3.85 1000sd 6.40 5M 5.25/M 10M 4.85/M







### Petunia grandiflora double

8740 Cascade Mix F1 Pelleted. Early flowering with excellent cascading habit. Ht. 10-15".

100sd 2.25 500sd 9.55 1000sd 15.65 5M 12.85/M Pirouette F1 Series Pelleted. Truly double picotee great for hanging baskets, containers and bedding. Bicolor blooms, 3½-4" across. Dwarf, compact plants. Ht. 15".

8752 Red

8755 Purple

8756 Rose 50sd 1.60 100sd 2.25 500sd 9.55 1000sd 15.65 5M 12.85/M

#### Petunia hybrida 8910 Tickled Pink F1 Pelleted. 5 ft; pendant or climb-

ing habit. Abundant mid-size, bright rose-purple flowers. Creates a bold showy mass on trellis or hanging from basket.

50sd 6.85 100sd 9.80 500sd 45.55 1000sd 84.35 5M 70.30/M Petunia milliflora

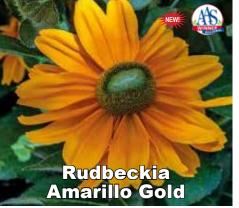
8858 Picobella Mix F1 Pelleted. Patented, miniature flowers and plants offer unique addition for retail. Easy and economical to grow under standard petunia culture and no need for PGRs. Strong vigor in garden. Ht. 8-10". 100sd 2.05 500sd 8.75 1000sd 14.55 5M 11.85/M 10M 10.80/M

#### Petunia multiflora

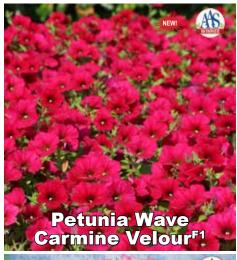
Multifloras are the best choice for long bedding display, particularly mass planting. Plants bear smaller flowers than the grandiflora types but are much more florifer-

8694 Celebrity Mix F1 Pelleted. Compact, early flowering. Withstands heat and humidity. Large, showy blooms. Ht. 10-12". 100sd 1.55 500sd 3.60 1000sd 5.15 5M 4.40/M 10M 3.55/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

**Petunia** 

Opera Supreme Pink Morn<sup>F1</sup>

Lakes, Heartland, West/Northwest. 25sd 6.55 100sd 15.55 500sd 71.20 1000sd 129.50 8844 Opera Supreme Pink Morn<sup>F1</sup> Pelleted. Spreads to 4' but stays 4-6" tall. Continues blooming along entire length of stem. Fills beds and

baskets beautifully. 50sd 10.70 100sd 15.25 500sd 70.00 1000sd 127.65 5M 104.05/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. 50sd 1.55 100sd 1.95 500sd 8.00 1000sd 12.50 10M 10.30/M

#### Petunia Wave

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 27 8791 White 8788 Yellow 50sd 10.90 100sd 15.55 500sd 71.35 1000sd 130.155M 106.55/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". 8974 Deep Purple

8977 Red 8976 Rose 50sd 10.90 100sd 15.55 500sd 71.35 1000sd 130.15 5M 106.55/M 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 🚨 8934 Red Velour 8932 Purple 8935 Silver

50sd 10.90 100sd 15.55 500sd 71.35 1000sd 130.15 5M 106.55/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 388

8967 Pink 50sd 10.90 100sd 15.55 500sd 71.35 1000sd 130.15 5M 106.55/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 gdns, borders, annual ground cover and baskets. Bloom spring to frost. Ht. about

9008 Double Flowered Mix Old-fashioned garden favorite. Double and semi-double flowers in a range of bright, sunny shades. 250sd 1.55 1000sd 2.45 10M 0.45/M 5M 1.75/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.

100sd 3.25 500sd 13.90 1000sd 23.15 5M 18.90/M 9029 Sundial Mix F1 Plants are extremely showy because flowers stay open longer.

100sd 1.55 500sd 2.40 1000sd 3.40 5M 2.85/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.

9045 Amarillo Gold 12" container, 14" gdn; Large bright flowers form a bright canopy on short stems just above the foliage. Broad overlapping golden petals,

shining green centers. Neat well branched habit for pots, bedding, mixed planters. AAS Regional Winner 2020. Southeast.

100sd 5.50 500sd 26.10 9059 Cherokee Sunset First year flowering. Double to semi-double flowers in range of sunset shades from gold, orange, bronze to mahogany. Ht. 30".

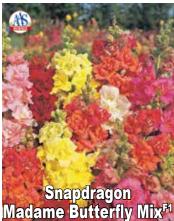
100sd 3.25 500sd 13.35 9062 Denver Daisy FilmCoat. Perfect for large landscape plantings or 1 gallon production. Large masses of golden flowers with rusty red rings cover the plant from late spring until first frost. Ht. 18-20". 50sd 2.30 100sd 3.25 500sd 13.65 1000sd 22.20 5M 17.95/M 9069 Indian Summer Large golden-yellow 6-9" flow-

ers. Single and semi-double blooms on sturdy stems require no staking. Excellent cut flower. Ht. 3-31/2'

500sd 8.30 1000sd 13.80 100sd 1.95







9060 Maya FilmCoat. Double flowered, bright yellow 4" blooms are well supported by strong stems. Over-winters to zone 7. Ht. 18".

100sd 3.30 500sd 14.75 1000sd 26.15 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".

#### 100sd 3.30 50sd 2.30 500sd 15.15 1000sd 27.70 Salvia coccinea

9099 Lady in Red Approx. 15,500 sd/oz. Distinctly different, loose flower spikes with small scarlet florets, Ht. 12-15".

100sd 1.95 500sd 8.15 1000sd 13.20 5M 10.75/M 10M 9.75/M Summer Jewel Series  $14^{\circ}$  pot,  $20^{\circ}$  gdn,  $16^{\circ}$  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.

9103 Lavender M Southeast, Heartlands, Great Lakes 9100 Red 9101 White sd 9.05 1000sd 14.75 5M 12.55/M 9102 Pink

#### Salvia farinacea

Approx. 24,000 sd/oz. Sow 4-6 weeks before spring sales (6-8 weeks for Blue). 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". 100sd 1.55 500sd 2.20 1000sd 3.15 5M 1.95/M 10M 1.60/M









### Salvia splendens

Approximately 7,500 sd/oz.

9094 Flare Tall form for mass planting and borders. Ht. 20".

100sd 1.90 500sd 7.45 1000sd 1.0.0 9109 St. John's Fire Bright red. Ht. 12' 100sd 1.55 500sd 2.90 1000sd 4.1: 1000sd 10.95 5M 8.95/M 1000sd 4.15 5M 3.50/M 9104 Vista Red Early and compact with thick spikes. Day length neutral. Ht. 12".

5M 8.00/M 100sd 1.50 500sd 5.00 1000sd 9.00 Scabiosa

Approximately 5,200 sd/oz.

9110 CutBrite Mix 32"; Strong stemmed. 7 Extra bright colors. Formula Mixture (7 colors including 'Black Knight') Excellent fieldgrown cutflower.

50sd 1.55 100sd 1.80 500sd 5.50 1000sd 9.45 5M 7.45/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" 50sd 2.70 100sd 3.85 500sd 17.70 1000sd 32.35 10M 26.50/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 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 fieldgrown. 100sd 1.90 500sd 7.60 1000sd 11.40 5M 9.10/M 9154 Floral Showers Mix F1Branching plants flower under short days. Excellent for 4" pot production. Ht.

. 100sd 1.55 500sd 3.75 1000sd 6.25 9176 Madame Butterfly Mix F1 Open, flaring blooms without the "snap". Long stems make an excellent choice for cut flowers. Ht. 21/2'.

100sd 1.95 500sd 7.90 1000sd 12.25 5M 10.00/M 9209 Rocket Mix F1 Choice for cut flowers or gorgeous garden bloom. Vigorous, uniform, heat resistant. Mix includes bronze, pink, rose, yellow, white and cherry. Ht. 30-36".

100sd 1.55 500sd 3.15 1000sd 4.80 5M 3.90/M 9198 Sonnet Mix<sup>F1</sup> 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.

100sd 1.55 500sd 3.75 1000sd 6.40 5M 5.20/M 9159 Twinny Mix F1 Dwarf, double-flowered. Compact plant habit and excellent garden performance. Ht. 8" 100sd 2.30 500sd 9.90 1000sd 16.70 5M 13.90/M

106

Email: twilley@twilleyseed.com

Fax: 864-227-5108







Approx.  $8,500 \, \text{sd/oz}$ . Sow  $8-10 \, \text{weeks}$  before spring sales. Germ in 15-20 days at  $70^{\circ}\text{F}$ . 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'.

Approximately 30,000 sd/oz.

**9234 Statice Tatarica** Also known as German statice. Long lasting, easy-to-grow filler for dried bouquets. Plants form basal rosettes and in second year produce large, mounded sprays of tiny lavender-white star-shaped florets which dry to pure white. Blooms in July-August. Ht. 12-18".

100sd 1.55 500sd 3.00 1000sd 4.30 5M 3.70/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.

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.

25sd 1.55 100sd 1.80 500sd 3.15 1000sd 5.15





**9254 Early Iron Rose Pink** 30-36"; Group 3 mid early season. "Iron" hard stems are robust, strong and provide great support for the extra tight, heavy, non-stretching flower spikes. Very fast blooming for its type. Color is a hot glowing pink. Good for spring or fall harvest. Likes lots of water. For long stems, never allow dry-down during growing season. Professional cutflower. Best under glass or high tunnel.

Ž5sd 4.70 100sd 11.15 500sd 51.80 1000sd 95.90 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.

25sd 7.10 100sd 16.90 500sd 78.65 1000sd 145.90 **Strawflower** (Helichrysum bracteatum) **A** 

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** Extra large flowers and extra double blooms on strong stems suitable for dry flower production. Blend of 8 colors. Ht. 36".

## Pot/Bedding Type

Approx. 400 sd/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.

**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.

100sd 2.20 500sd 9.45 1000sd 15.80 5M 12.80/M







**9299 Bert** <sup>F1</sup> 14-16"; Pollen free. Outstanding color show. Large 6" flowers are intense bright yellow with long, broadly overlapping 2" petals and chocolate disc about 2" across. Foilage is well proportioned, and deep glossy green. Knee-High habit. First crop, blooming 8-10 weeks from sowing.

100sd 6.40 500sd 29.60 1000sd 54.40 5M 45.80/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. 100sd 7.55 500sd 34.85 1000sd 63.95 5M 51.90/M

100sd 7.55 500sd 34.85 1000sd 63.95 5M 51.90/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.

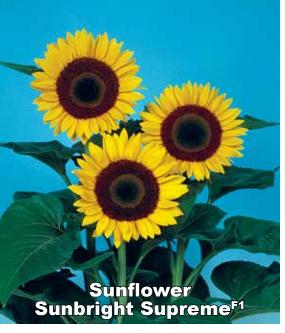
100sd 3.85 500sd 17.90 1000sd 33.15 5M 27.45/M 9306 Grey Stripe (Giganeus) 8-12 ft; Displays mammoth sized flowers measuring up to 20" across with bright-yellow petals, brown-centered, full of tasty seeds.

100sd 3.85 500sd 2.20 1000sd 3.15 5M 2.60/M

100sd 1.55 500sd 2.20 1000sd 3.15 5M 2.60/M 9311 Orange Mahogany Bicolor <sup>F1</sup> Professional pollenfree cut flower. 5" flowers are rich orange with mahogany ring. 4½'s single stem, good shipping height.

Harvest before half-open stage at about 60 days. 100sd 4.30 500sd 20.05 1000sd 37.20 5M 30.85/M 9312 Orange Sun 5 ft; Cutflower variety, fully double, golden-orange flowers on single stems.

100sd 2.05 500sd 8.75 1000sd 14.60 5M 12.45/N







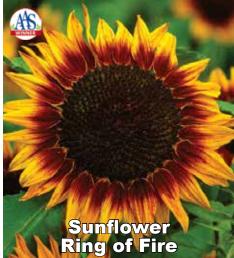












#### **More Sunflowers**

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 9348 Mix 9349 Orange 9355 OrangeDMR

100sd 3.30 500sd 14.75 1000sd 26.15 5M 22.15/M 9351 Pro Cut Plum

100sd 3.90 500sd 18.10 1000sd 33.45 5M 27.85/M

9350 Pro Cut Red

100sd 3.95 500sd 18.35 1000sd 33.90 5M 28.25/M

9356 Pro Cut White Lite

100sd 4.75 500sd 22.10 9357 Pro Cut White Nite 1000sd 40.95 5M 33.95/M

500sd 20.00 1000sd 37.15 5M 31.60/M 100sd 4.30 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.

100sd 3.25 500sd 13.30 1000sd 20.85 5M 17.35/M 9309 Rouge Royale F1 Dark red pollen free flowers with branching stems. Ht. 6'.

500sd 13.15 1000sd 20.15 5M 16.70/M 100sd 3.25 **9326 Sonja** Golden-orange blooms with dark centers produce long-lasting 4" blooms. Recommended for cut flowers or garden. Harvested seeds. Ht. 3'.

100sd 3.25 500sd 13.05 1000sd 19.75 5M 16.50/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'. 100sd 2.30

1000sd 16.65 5M 13.85/M 500sd 9.90 9337 Sunbright <sup>F1</sup> Pollen-free for professional cut flower. 4" diameter, overlapping golden yellow petals with dark center. The industry leader for summer sunflower production. Ht. 5'.

500sd 10.95 1000sd 18.30 5M 15.10/M 100sd 2.55 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'.

100sd 3.25 500sd 13.25 1000sd 20.55 5M 16.65/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 5.15 500sd 23.95 1000sd 44.45 5M 36.90/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 1000sd 27.15 5M 22.05/M 100sd 3.30

108

Email: twilley@twilleyseed.com





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 longday conditions.

100sd 3.50 500sd 16.30 1000sd 30.20 5M 25.50/M Sunrich Summer F1 Series 3-4 ft; bright colors, pollen 1000sd 30.20 5M 25.50/M 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 9292 Limoncello 9293 Orange

100sd 3.30 500sd 15.00 1000sd 27.15 5M 22.35/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.

100sd 1.55 500sd 5.20 1000sd 8.95 5M 6.65/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'. 100sd 3.25 500sd 14.00 1000sd 23.60

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. 100sd 3.25 500sd 14.25 1000sd 24.6 5M 20.30/M 1000sd 24.60 9296 Vincent's Choice DMR Deep Orange F1 Same traits as Vincent's Choice except for added disease resistance to Downy Mildew.

100sd 3.30 500sd 14.70 1000sd 25.95 5M 21.80/M





#### Sweet Pea (Lathyrus odoratus)

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; space 10" apart.

9358 Mammoth Mix Climbing variety w' long stems and extra large flowers, good for cutting. 6 ft vine. 500sd 8.30 1000sd 13.75 5M 10.80/M

#### Sweet William

See Dianthus barbatus page 95

### Thunbergia alata

(Black-Eyed Susan)

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

9386 Mix Contains orange, white and yellow in plain and bicolor (dark eye).

5M 56.30/M

9381 Orange Eye 500sd 37.15 100sd 8.00 1000sd 68.75

#### Torenia

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' \_\_100sd 3.25

. 500sd 14.10 1000sd 23.90 5M 19.50/M Verbena

Approx. 10,000 sd/oz. Sow 12-14 weeks before spring sales. Germ in about 20 days at 70-75°F. Fine for bedding, pots in hot, dry areas. Blooms late spring to frost. Space 6-12" apart. Ht. 10-12", spread 18".

9475 Quartz Mix Large flowered with stronger germ than most Verbena. Prolonged bloom and stress tolerance due to Powdery Mildew resistance. Ht. 10-12".

100sd 2.40 500sd 10.15 1000sd 16.70 5M 13.80/M 10M 12.55/M



### Verbena speciosa

9416 Imagination 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".

100sd 1.55 500sd 4.25 1000sd 7.15 5M 5.90/M 10M 5.35/M

#### Vinca (Catharanthus roseus)

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.

Cora Cascade Series<sup>F1</sup> Trails to 3 plus feet. Extra large 21/2" flowers tend to fill center of plant. Thick, dark glossy foilage, dense branching. Resistant to phytophthora. Ht. 6".

9526 Cherry 3 9525 Mix 9527 Polka Dot 3 50sd 5.00 100sd 7.15 500sd 32.75 1000sd 59.55 5M 50.70/M 9530 Cora XDR Mix<sup>F1</sup> 14" spreading18"; Extended season due to improved resistance to the Phytophora blight the 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.

50sd 3.40 100sd 4.85 500sd 22.30 1000sd 40.75 5M 33.40/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".

100sd 3.25 500sd 13.70 1000sd 22.30 5M 17.95/M 10M 16.60/M 9585 Pacifica Mix XP  $^{\rm F1}$  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 1.55 500sd 5.15 1000sd 8.80 5M 7.15/M 10M

#### 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 112

















### Zinnia angustifolia(linearis)A

9698 Crystal White Crisp white 11/4" blooms on dwarf, very uniform, compact plants. Excellent hot weather tolerance. Ht. 5"

100sd 3.25 500sd 13.95 1000sd 23.45 5M 19.20/M

### Zinnia elegans

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.

Benary's Giant Dahlia Blue Point Series 🔪 Long thick stems and large fully double blooms are great for professional cut flower production. Ht. 30"

9738 Deep Red 9801 Golden Yellow 9802 Lime 🗯 9742 Mix 9803 Purple 9804 Salmon Rose ≨ 9806 Wine 9805 White 🗯

100sd 2.65 5M 15.30/M 500sd 11.15 1000sd 18.20 9700 Cupcakes Mix 32"; Unusual fluffy crested floer 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.

25sd 1.65 100sd 3.90 500sd 18.15 1000sd 33.70 5M 28.00/M  $\textbf{Dreamland} \ ^{\textbf{F1}} \ \textbf{Series} \ \ \textbf{Combines} \ \ \textbf{the Dahlia-flowered}$ 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 9727 Rose 9726 Red 9728 Yellow 25sd 3.25 100sd 7.75 500sd 35.55 1000sd 64.75 5M 53.00/M





9744 Giant Dahlia Flowered Gold Medal Mix 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.

100sd 1.55 500sd 2.40 1000sd 3.40

Holi Series<sup>F1</sup> 6" spreading 8" pot, 8" spreading 10" gdn; Extremely heat tolerant, born & bred in hothumid tropical conditions. Large 3-3.5" full double Dahlia type flowers. Superbly branching erect plants. Foilage stayed green and clean all summer, showing no sign of bacterial disease. Sowing to bloom in 65-70 days. For bedding & containers. 9721 Bright Pink 🗯 9730 Mix

9731 Scarlet 🎎 **2018 2019 2019 2019 2019** 9733 White 🗯

25sd 4.45 100sd 10.55 500sd 48.75 1000sd 89.65 5M 72.80/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'.

1000sd 8.40 Magellan F1 Series Large, fully double Dahlia-flowered blooms 3" or more adorn dwarf, densely branched plants. Ideal for bedding & container plantings. Ht. 12".

9748 Cherry 9750 Ivory 9751 Mix 9752 Orange 9753 Pink 9755 Scarlet 9756 Yellow

25sd 5.00 100sd 11.95 500sd 54.80 1000sd 99.95 5M 82.40/M 9747 Oklahoma Mix > Prolific medium size cut flower has very bright colors and is a heavy producer all season long. The 11/2- 21/2" flowers are double with some semi-doubles. Resistant to Powdery Mildew. Ht. 30".

color 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. 25sd 1.55 100sd 2.10 500sd 9.00 1000sd 15.00 5M 12.40/M







Queen Lime Series 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

9793 Lime

9798 Lime Orange 🌇

25sd 1.95 100sd 4.70 500sd 21.85 1000sd 40.45 5M 33.70/M 9813 Short Stuff Mix<sup>F1</sup> 10"; more dwarf than other zinnias, but still show off large, fully double blooms.

Ideal for jumbo packs, pots or garden. 25sd 3.85 100sd 9.20 500sd 42.25 1000sd 77.15 5M 63.15/M 9830 State Fair Mix 4 ft; Tetraploid mix. Giant flowers, extra thick stems, less susceptible to PM & Alt. Premium selected strain for professional fieldgrown cuts.

100sd 1.90 500sd 7.45 1000sd 10.90 5M 8.85/M Swizzle  $^{\rm F1}$  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 25sd 7.30 100sd 17.40 500sd 79.75 1000sd 145.25 5M 118.95/M 9837 Uproar Rose F1 Big 4" double Dahlia-type flowers. High yield of uniform, quality flowers are perfect for big containers, the garden or cut flower operations. Ht. 32" spreading to 2'.

25sd 5.60 100sd 13.35 500sd 61.70 1000sd 113.45 5M 92.15/M 9845 Yoga Mix 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'.
100sd 1.55 500sd 2.35 1000sd 3.35 5M 1.45/M
9850 Zinnia Zowie! Yellow Flame F1 Gold with magenta centers and chocolate cone. 2' spreading to 2'. Robust spreading plants produce 4" dou-

ble, bicolor flowers. Will sell. 25sd 5.65 100sd 13.45 500sd 62.30 1000sd 114.85 5M 93.30/M





### Zinnia haageana

9690 Aztec Burgundy Bicolor 6" spreading to 10"; nearly 100% double flowers. Petals burgundy with white tips. Very high contrast for easy, showy pack and bedding.

500sd 16.10 100sd 3.45 1000sd 29.90 5M 24.50/M Zinnia hybrida

Profusion Series 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. 123

9782 Apricot

9783 Fire 9784 Mix

9787 Red

9781 Orange 🚵 9785 White

9780 Cherry

25sd 1.65 100sd 3.90 500sd 17.95 1000sd 32.95 5M 26.75/M **Profusion Double Series** 

9788 Double Deep Salmon 脈 9799 Mix 9792 Double Hot Cherry 脈

25sd 1.65 100sd 3.90 500sd 18.05 1000sd 33.15 5M 27.00/M

### Zinnia marylandica

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.

25sd 1.65 100sd 3.95 500sd 18.20 1000sd 33.25 5M 27.05/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 1.65 100sd 3.90 500sd 17.90 1000sd 32.55 5M 26.65/M

### Zinnia pumila

9703 Cut and Come Again S→ Double 2½" flowers bloom on long stems making it a choice cut flower. Mixture includes scarlet, shades of pink, yellow, white. Ht. 2'.

500sd 3.75 1000sd 6.50 100sd 1.55

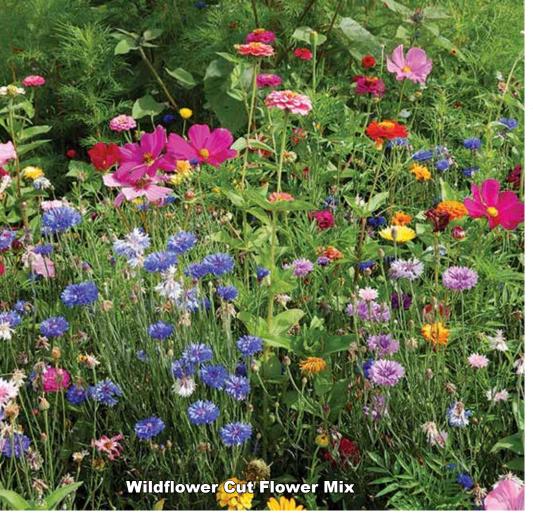












### **Wildflowers**

The ideal solution for a natural look where grassy lawns cannot be maintained. Once established, wild-flowers 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 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 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.

Prices for all Wildflower Mixes:

## Sowing Wildflower Seed

#### When to Plant Wildflower Seed

The best time to plant in your area depends on the climate and rainfall patterns, as well as the species you are planting. In cool climates plant annuals, perennials or mixtures of annuals and perennials in spring, early summer or late fall. Fall planting should be late enough so that seeds do not germinate until spring. Perennials can also be sewn in early fall provided that there are at least 10-12 weeks of growing time before the plants go dormant for the winter. Late fall plantings are advantageous when supplemental irrigation cannot be provided and adequate rainfall is anticipated in the spring. In mild climates, plant during the cooler months of the year, fall through spring, for best results. Fall plantings done prior to periods of rainfall will insure an early display of flowers the following spring.

#### **Site Preparation**

Proper site preparation is important for prompt germination of seed and healthy growth of seedlings. Best results will be obtained by planting on cleared ground. Remove existing vegetation to avoid competition from other plants. This may be done by pulling, tilling under, spraying with a general herbicide, or by a combination of these methods, depending upon the size of the area, type and density of vegetation and other factors. Loosen soil by scraping, tilling or scarifying. Tilling should be used utilized only when soil is very compacted and further weed control measures can be taken.

#### **Seed Application**

Method of application depends on the size of the area and the terrain. On small areas, broadcast seeds evenly either by hand or by use of a drop or cyclone spreader. It is helpful to mix in a carrier such as clean dry sand with the seed; sand adds volume and aids in even distribution of your seeds. We recommend using a ratio of 1 to 2 parts sand to 1 part seed. Rake in lightly covering seeds to a maximum depth of 2-3 times their thickness. Or drag the area lightly with a piece of chain length fence to mix the seed into the surface of the soil. For seeding large areas over one acre, specially designed seed drills are most effective. Drill to a maximum of 1/4 inch and firm soil with a culti-packer; this maximizes seed/soil contact.

#### Moisture

All seeds, including wildflowers, need ample moisture to germinate and to develop into healthy seedlings. Best results will be obtained by soaking the planted areas thoroughly and maintaining consistent moisture for 4 to 6 weeks -- then gradually reducing watering in non-irrigated situations, plant in the spring or before periods at anticipated rainfall. After seedlings are established, watering may be reduced depending on the climate and rainfall. In arid climates or during drought conditions, up to 1/2 inch of supplemental water per week may be required to maintain an optimal display. If weeds are present, remember that they benefit from moisture as much as the wildflowers and may dominate over watered areas.

Go to our website www.twilleyseed.com for a live link to Land Grant Universities and Colleges. You may also contact us for a printed copy.

These institutions have Cooperative Extension offices that can assist you with regional climate and growing information.

### **Commercial Growing Supplies**

Please call for shipping charges on Jiffy products which are shipped direct from Jiffy to you. Prices may change at any time of the year due to availabilty.

#### **Jiffy-7 Peat Pellets**

Pot and planting mix in one. Compressed pellets of peat moss expand when wet to form self-contained pots for direct-seeding, transplanting or sticking cuttings. Provide conditions for better root development and growth, consistent plant quality. Won't fall apart; transplant as is without disturbing roots. Expanded size  $2^{1}$ /s" x  $1^{3}$ /4" across.

#### 9978 Jiffy-7 Peat Pellets for Florists (42mm)

Larger opening for sticking cuttings; also fine for seedlings. Case of 1,000 pellets (weight: 26 lbs.)

\$92.40/case plus delivery

#### Jiffy® Peat Pots

Compressed natural sphagnum peat moss and wood fiber combined to form biodegradable, lightweight pots you can set right into ground without disturbing roots, minimizing transplant shock. Pots contain nutrients for better plant growth.

**9954 Pots, 2" round.** \$128.85/case plus delivery Case of 3,000 pots (weight: 27 lbs.)

**9956 Pots, 3" round.** \$92.80/case plus delivery Case of 1,500 pots (weight: 27 lbs.)

**9960 Pots, 2**1/4" **square**. \$128.85/case plus delivery Case of 2,500 pots (weight: 27 lbs.)

**9962 Pots, 3" square.** \$127.55/case plus delivery Case of 1,000 pots (weight: 26 lbs.)

#### Jiffy® Strips

Same pots described above; 2<sup>1</sup>/<sub>4</sub>" square. Joined together in strips of 12 for quicker, easier handling; more economical, too.

**9968** Peat Strips,  $2\frac{1}{4}$ " square. \$128.85/case plus delivery Case of 200 strips/2,400 pots (weight: 26 lbs.)

Please note: Otis S. Twilley Seed Company, Inc. does not offer any genetically engineered product in this catalog.

#### **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 -  $10 \times 43,560 = 435,560$  seeds.

Distance Btwn 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

#### **Plastic Plant Labels**

Durable, flexible, unprinted white plastic labels 4"  $\mathbf{x}^{5/6}$ "

9964 Pack of 200 \$14.00/each 9986 Pack of 1,000 \$66.00/each

#### Seeder Seedmaster

Small hand seeder dispenses seed evenly, accurately over seed flats, furrows. Lets you control exactly where and how much seed is sown.

9972 \$4.15/each

#### **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 \$9.00/each



Vegetable Sowing Guide									
Vegetable	Seed Depth	Approximate Days to Germinate	Ideal Soil Temperature	Hardiness					
Artichoke									
Asparagus	1/4"	14-21	75-80	T					
Bean, Bush/Dry/Pole/Soy	1"	6-9	60-90	T					
Bean, Lima									
Beet									
Broccoli	1/4"	5-10	65-85	MH					
Brussels Sprouts		5-10	65-85	H					
Cabbage	1/4"	5-10	55-95	MH					
Carrot									
Cauliflower									
Celery	1/8"	14-21	59-70	T					
Chinese Cabbage	1/4"	4-7	70-95	MH					
Corn, Sweet	1"	8-12	60-95	T					
Cucumber									
Eggplant									
Gourds									
Kale/Collards									
Kohlrabi	1/4"	5-10	65-85	MH					
Leek									
Lettuce	1/8"	4-10	40-80	Н					
Melon									
Mustard									
Okra									
Onion/Shallots		10-12	60-70	MH					
Parsley									
Parsnip									
Pea									
Pepper									
Pumpkin									
Radish									
Rutabaga/Turnip									
Spinach									
Summer Squash	1"	4-12	70-90	T					
Winter Squash	1"	4-12	70-90	MH					
Tomato									
Watermelon	1/2"	4-12	75-95	VT					
Hardiness rating			40						

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

Thank you to fedcoseeds.com for the above information

## **All-America Selections Trial Gardens**







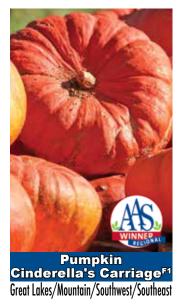
Twilley Seed owners, George and Barbara Park contribute knowledge and a passion for growing to All America Selections, the country's most prestigious home garden testing program. Independent judges across the U.S. compare blind entries to similar tried-and-true varieties and carefully score each one to determine AAS winners. Judges look for many elements of success, including total yield, disease resistance, length of harvest, novel color or flavor and overall performance. Twilley Seed is honored to have the opportunity to host a trial garden every year. Keep an eye out for the AAS Winner symbol throughout this catalog!

### **All-America Selections Winners**



## Regional

Acknowledging that geographic differences are an important part of agriculture, AAS rewards entries that have superior regional performance. A variety that performs well in a specific area or region gives the consumer greater potential for success. To keep the regional division fairly simple, North America was divided into six regions: Northeast, Southeast, Great Lakes, Heartland, Mountain/Southwest, West/Northwest,









Email: twilley@twilleyseed.com

### **All-America Selections Winners**



### **National**

For years, Twilley has been proud to offer you the AAS winners — and they have been wonderful performers. We confidently recommend these newcomers as excellent varieties for pack, pot and garden. Grow and feature them because your customers will ask for them by name due to widespread press coverage.

You'll see a difference in your profits!



Otis S. Twilley Seed Co., Inc. 121 Gary Road Hodges, SC 29653

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