



TWILLEY
SEEDS®

2022

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 (Int'l)
Fax: (864) 227-5108 www.twilleyseed.com

2022 AAS Winners.....114-115



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.

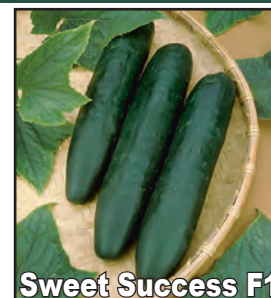
Twilley constantly reviews products from breeders worldwide, investigating attributes such as quality, stress and disease tolerance, yield potentials and market acceptability. Superior varieties are added only if they represent the best in their respective classes.

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



Indian Brave F1

Large fruit produced in abundance; Great yield potential. Resists cracking.



Sweet Success F1

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



Superpik F1

Early straightneck with solid disease resistance and precocious yellow gene.



Emperor's Jade F1

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



Corvette PMR PVP F1

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



Blue Knight F1

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



Athena F1

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



Obsession F1

Both sweet and creamy tender. Proven main-season market leader in many areas.



Savanna F1

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



Celebrity F1

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



Kingman F1

Rind light green with mid-green stripes. Crimson gene type with extremely bright red flesh. Strong vines, High potential yield.



PS 09941819 X5R® F1

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



Kestrel F1

Roots form very smooth globe shape and deep color from very early stage onward. Very high yield potential.



Blue Vantage F1

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

Choose from our Outstanding 2022 Professional Seed Series:

Variety	Page	Variety	Page	Variety	Page	Variety	Page
Beet Kestrel.....	09	Onion Bunching Feast	43	Sweet Corn Honey 'N Pearl	20	Turnip Alamo.....	80
Cabbage Blue Vantage.....	12	Pea Sugar Sprint.....	46	Sweet Corn Summer Sweet®	20-24	Watermelon Kingman.....	82
Cantaloupe Athena	38	Pea Super Sugar Snap	46	Brand Series	19-24	Watermelon PS 11018330.....	86
Cucumber Dasher II	27	Pepper PS 09941819	48	Sweet Corn SuperSeedWare®	20	Watermelon Revolution.....	82
Cucumber Summer Dance.....	28	Pumpkin Casper.....	57	Brand Series	72	Watermelon Summer Flavor®	84
Cucumber Sweet Success	28	Pumpkin Corvette.....	57	Sweet Corn Obsession.....	72		
Cucumber Vlasstar.....	29	Pumpkin Mustang	56	Tomato Amelia	73		
Kale Blue Knight.....	36	Squash Indian Brave	68	Tomato Celebrity	74		
Mustard Savanna.....	42	Squash Superpik.....	63	Tomato Mountain Merit			
Pak Choi Joi Choi	14	Squash Zucchini Ambassador.....	64	Tomato Tasti-Lee			

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

2022 NEW VARIETIES



**Sweet Corn
Catalyst XR F1**

Earliest SuperSweet on the market. Sweet, tender bicolor ears. See page 20.



Collard Top Chop F1

Large, upright, deep green leaves. High bolt tolerance. See page 17.



Lettuce Meridian

The first Iceberg ever available with tolerance to Fusarium Race 1. See page 35.



**Shallot
(Echallion) Creme Brulee F1**

Easy to grow "banana shallot." Mostly single center mild flavored bulbs. See page 44.



Spinach Plymouth F1

Quick growing spade shaped leaves, slightly savoyed. Medium dark green, erect stems. See page 62.



**Tomato
Better Boy Plus F1**

All the original Better Boy genetics with broader disease protection and higher brix. See page 75.



**Marigold
NoSento Lime Green F1**

No Marigold scent. Eye catching greenish yellow flowers on tall, cutflower length stalks. See page 99.



Asparagus Grande F1

Improved dioecious variety for extra high yields. Resistant to Fusarium Wilt. See page 7.



Zinnia Magna Mix

Large Dahlia-flowered double blooms in a rich color range including a bright green and a deep ruby red. See page 110.

Look For this Symbol!



Pepper Pathfinder F1

Spicy serrano pepper adaptable to both hot and cool weather. Smooth, shiny green fruits. See page 53.



**Pepper
SVPB8415 X10R F1**

Beautiful large, blocky bell pepper developing from green to yellow. See page 49.



Pumpkin Hulk F1

The name says it all. Extra large Howden shaped pumpkins perfect for large jack-o'-lanterns. See page 56.



Tomato Jolene F1

Noted best in class for heat set in trials throughout the Eastern U. S. Firm, meaty flesh and deep red interior. See page 73.



**Tomato
Rubee Dawn F1**

57 days from transplant. Very early for a large fruited tomato. Great acid/sweet flavor balance. See page 76.



Basil Newton

Bright green leafed basil with clean, refreshing Genovese flavor. Resistant to fusarium. See page 32.

Explanation of Symbols in this Catalog



Listed for the first time in the Twilley catalog. Some of these are newly introduced for 2022.

F1

Indicates a hybrid variety

U

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.



PVP

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



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



Particularly popular or attractive for fresh market sales.



Well-suited for cut flower production.



Well-suited for greenhouse production.



Novelty market items.

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.



HARVEST COLLECTION



Pg. 9

Beet Touchstone Gold



Pg. 76

Tomato Rubee Dawn



Pg. 60

Pumpkin Toad



Pg. 11

Broccoli Green Magic



Pg. 17

Collard Flash



Pg. 62

Spinach Seaside



Pg. 10

Broccoli Aspacroc



Pg. 12

Cabbage Bobcat



Pg. 51

Pepper Arapaho



Pg. 17

Collard Top Chop



Pg. 52

Pepper Jalafuego



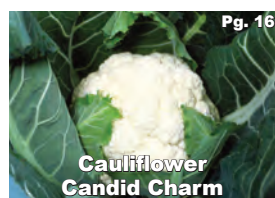
Pg. 83

Watermelon Eclipse



Pg. 72

Tomato Charger



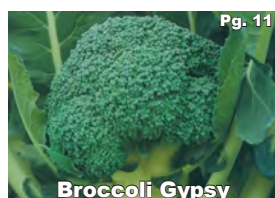
Pg. 16

Cauliflower Candid Charm



Pg. 58

Pumpkin Hijinks



Pg. 11

Broccoli Gypsy



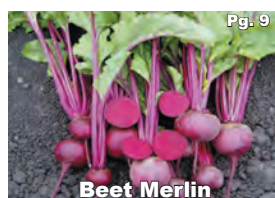
Pg. 15

Carrot Fuerte



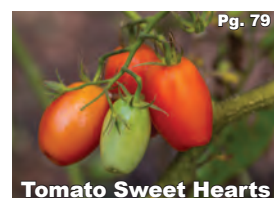
Pg. 70

Squash Tivoli



Pg. 9

Beet Merlin



Pg. 79

Tomato Sweet Hearts



Pg. 48

Pepper Majestic Red



Pg. 42

Okra Jambalaya



Pg. 62

Swiss Chard Peppermint



Pg. 41

Cantaloupe Lilliput



Pg. 28

Cucumber Slice More



Serengeti PVP

Artichokes

About 500-600 sd/oz.

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

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

Asparagus Perennial

(*Asparagus officinalis*)

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

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

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

Beans (Phaseolus vulgaris humilis)

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

French Filet Beans

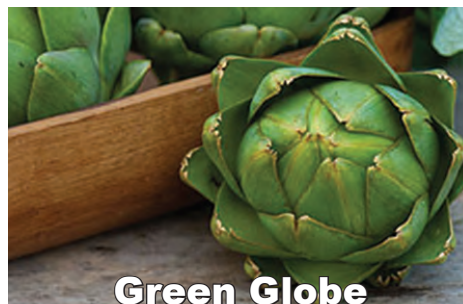
About 2000-3000 sd/lb.

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, Containers, Home Gdn.

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

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

Walker Deluxe F1



Green Globe

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

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

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



Grande F1



Outlaw



Bush Blue Lake 274



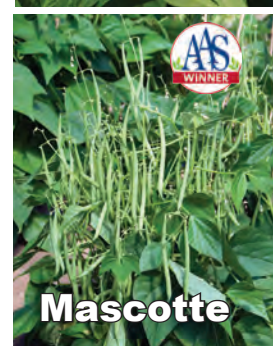
Roma II



Cabot



Bush Kentucky Wonder #125 PVP



Mascotte

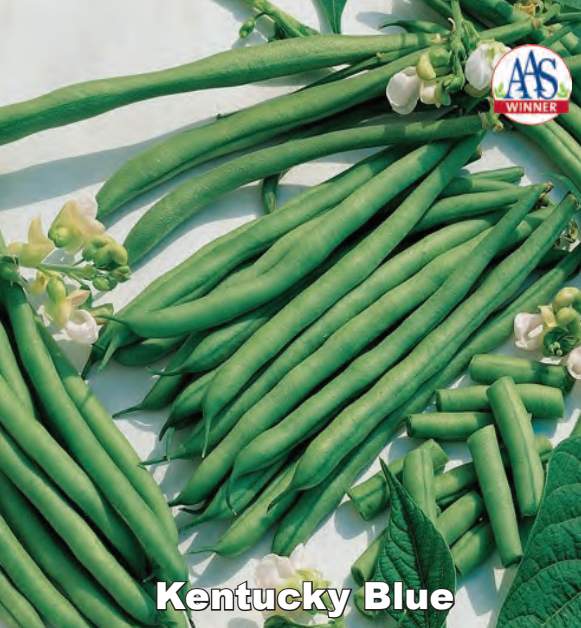
Cat#	Artichoke	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)
2005U	Green Globe	1.55	5.85	19.20	33.00	60.00	55.00	51.00
2010U	Romanesco	2.35	14.45	47.50	83.00	145.00	134.00	124.00

Cat#	Asparagus (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)
2019U	Grande	3.20	9.70	38.75	65.00	57.00
2028U	Walker Deluxe	3.35	10.15	40.30	67.60	59.30

Cat#	Bean	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)	50 lb (per lb)	100 lb (per lb)	500 lb (per lb)
1012U	Bush Kentucky Wonder #125 PVP	2.35	3.60	5.40	4.20	3.85	3.45	3.05	2.70	2.50
1007U	Bush Blue Lake 274	2.20	3.45	5.35	4.20	3.85	3.45	3.05	2.70	2.50
1057	Roma II	2.20	3.45	5.35	4.20	3.85	3.45	3.05	2.70	2.50

Cat#	Bean (M=1000)	250 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)	500 M (per M)
1014	Cabot	3.15	5.00	7.80	6.20	5.90	5.50	5.15	4.95
1050U	Mascotte	3.50	5.45	8.60	6.80	6.50	6.00	5.70	5.45
1055	Outlaw	2.35	3.65	5.35	4.05	3.80	3.55	3.30	3.15
1063	Serengeti PVP	2.95	4.60	7.20	5.75	5.45	5.05	4.70	4.45

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



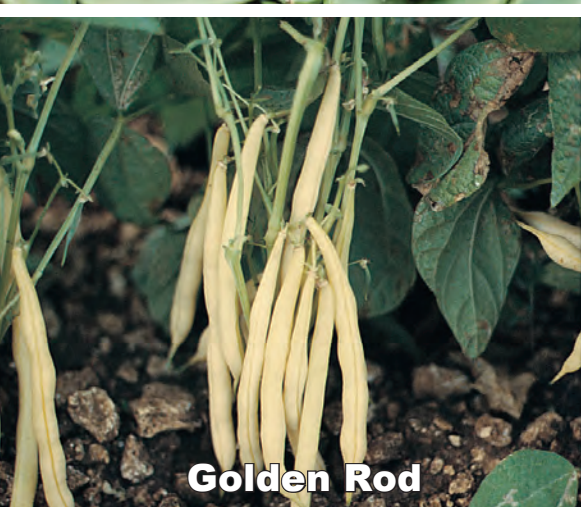
Kentucky Blue



Seychelles



Fordhook #242 [Bush]



Golden Rod



Orient Wonder

Bush Purple Pod Bean

About 1000-2000 sd/lb.

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

Bush Wax Pod Bean

About 1000-2000 sd/lb.

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

Lima Bean

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

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

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



Royal Burgundy

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.

Yard Long Bean (*Vigna unguiculata*)

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

Soybean (Edamame)

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

Cat#	Bean	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)	50 lb (per lb)	100 lb (per lb)	500 lb (per lb)
1081U	Fordhook #242	3.00	4.60	7.20	5.65	5.15	4.65	4.15	3.60	3.35
1086U	Henderson Bush	2.30	3.55	5.50	4.20	3.85	3.45	3.05	2.70	2.50
1091U	King Of The Garden	3.80	5.90	9.15	7.20	6.60	5.95	5.30	4.60	4.25
1053	Orient Wonder	34.40	54.60	87.50	70.80	55.75	41.90	--	--	--
1110	Kentucky Blue	6.25	9.60	14.95	11.75	10.80	9.70	8.60	7.55	6.95
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 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)	500 M (per M)	
1118U	Seychelles	8.15	12.70	19.95	15.85	14.20	12.40	10.65	9.35	
1143	Golden Rod	3.90	6.15	9.50	6.90	6.55	6.25	5.80	5.50	
Cat#	Soybean	1/4 lb	1/2 lb	1lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)	50 lb (per lb)		
1329U	Midori Giant		12.00	18.50	30.40	26.20	23.40	21.40	20.00	



**Detroit Dark Red
Medium Top**



Detroit Golden



Kestrel F1



Red Ace F1



Merlin F1



Detroit Supreme

Beets *(Beta vulgaris)*

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

Hybrids

2058 Falcon F1 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 Start F1 25-35 days baby leaf harvest. Deep green, smooth round-oval leaves with distinct red veins and dark red stems, this beetless beet has excellent appearance for spring greens and mixes. Upright habit helps keep leaves clean and undamaged until harvest. Reaches baby-leaf size very quickly. Good disease traits. Highly bolt resistant. Resistant DM. Baby Leaf.

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

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

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

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

Open Pollinated

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

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

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

2045U Cylindra 55 days. Long shape, more equal slices per root. Dark red quality roots 5" x 1½". Fresh Mkt.

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

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

2055 Detroit Supreme 59 days. Refined Detroit type.

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

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

2084 Rainbow Mix 60 days. Bright ornamental edible blend of colored beet roots. Includes 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	3.35	4.65	8.00	14.35	13.20	12.35
2053U	Detroit Golden	2.00	7.85	26.90	46.40	82.80	75.80	70.80
2055	Detroit Supreme	1.80	3.30	5.95	10.25	18.55	16.95	15.85
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)	50 M (per M)	100 M (per M)	500 M (per M)	1000 M (per M)
2035	Avalanche	1.55	5.95	4.80	4.00	3.65	3.35	--
2058	Falcon	1.60	2.10	1.65	1.35	1.25	1.15	1.10
2061U	Fresh Start	1.45	1.15	0.88	0.71	0.65	0.59	--
2065	Kestrel	1.60	2.05	1.65	1.30	1.20	1.15	1.10
2075	Merlin	1.60	2.25	1.80	1.35	1.25	1.20	1.10
2084	Rainbow Mix	1.70	5.20	2.50	1.80	1.65	1.45	--
2085	Red Ace	1.65	2.05	1.65	1.30	1.20	1.15	1.10
2090	Red Cloud	1.60	2.95	2.35	1.85	1.75	1.65	1.55
2099	Touchstone Gold	2.25	8.70	7.15	6.15	5.50	5.00	4.70

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



Destiny F1



Castle Dome F1



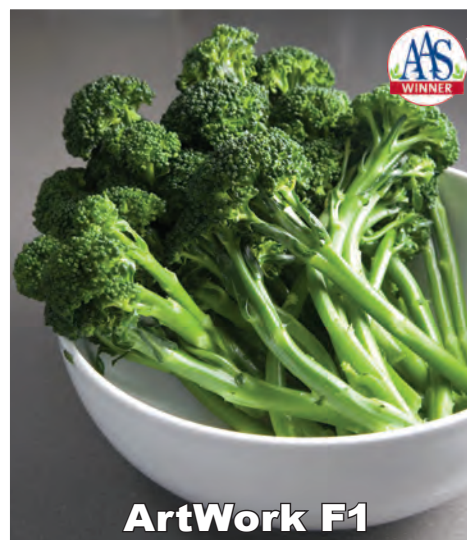
Burney F1



Asprabroc F1



Emerald Jewel F1



ArtWork F1

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

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

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

Broccoli

(*Brassica oleracea*, *Botrytis* Group)



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

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

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

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

2106 Burney F1 65-70 days. Warm weather tolerant. Part of the Eastern Broccoli Project. 5-6" domed heads for premium crown cuts. Crops in spring, late summer or fall. Mid green heads, uniform medium bead. Large frame plant about 24-30". Resists purpling under stress. Dense heads promote high pack-out weight. Consistent in trials all over the eastern US including Georgia and other high temp areas. Crown and bunching 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 grow in the hot, humid climate and variable weather conditions of the eastern United States. Success would result in a boon to the increasing interest in a ready supply of locally grown food.

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

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.

Cat#	Broccoli (M=1000)	100 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
2103	ArtWork	3.40	25.60	20.50	14.15	12.80	11.55
2104U	Asprabroc	4.15	36.45	36.30	36.15	--	--
2106	Burney	1.95	15.50	12.40	10.05	8.85	7.80
2108	Castle Dome	2.15	16.90	13.55	9.15	8.25	7.40
2120	Destiny	1.85	13.65	10.95	8.05	7.25	6.55
2130	Emerald Jewel	2.15	14.90	11.95	9.65	8.70	7.85



Gypsy F1

More Broccoli

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

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

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

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

Broccoli Raab

(*Brassica Rapa*, *Rutab Group*)

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

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

Brussels Sprouts

(*Brassica oleracea*, *Gemmifera Group*)

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

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

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



Lieutenant F1

2203U Igor F1 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"-1½" 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 F1 90 days. Extra early, can be sown later than most varieties and still matures well in early frosts. Shorter stalks than most varieties, less prone to lodging or other wind damage. High yield of medium firm, round, 1" diam, deep green, well wrapped sprouts spaced closely on stalk. Tolerant of heat stress. Widely adapted.

2209 Jade Cross E F1 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. Tolerant Botrytis. Fresh market, processing and home garden.



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

Brussels Sprouts Disease Code	
FY	Fusarium Yellows



Jade Cross E F1



Hestia F1



Green Magic F1

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	13.70	11.00	8.90	8.00	7.20
2135U	Gypsy	1.60	12.85	10.30	8.30	7.50	6.75
2138	Lieutenant	2.20	17.20	13.80	9.15	8.25	7.40
2140	Marathon	1.80	11.65	9.35	7.40	6.65	6.00

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

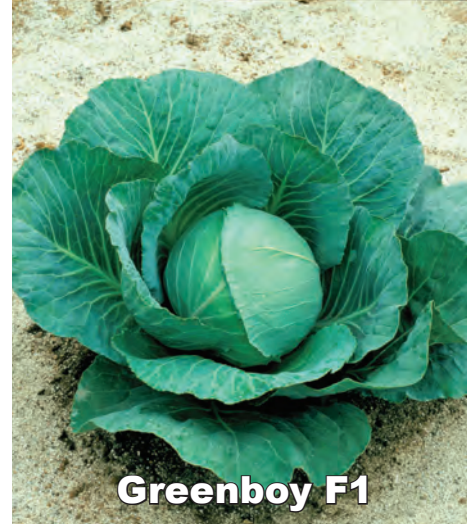
Cat#	Brussels Sprouts (M=1000)	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)
2192	Confidant	5.15	19.45	31.15	26.25	23.15	21.15
2206	Hestia	6.20	23.25	37.60	28.80	24.00	22.85
2203U	Igor	4.00	15.30	24.65	20.50	18.15	16.65
2209	Jade Cross E	1.85	6.15	9.80	8.30	6.55	6.30
2204	Jade Cross	2.15	7.60	12.35	10.40	9.15	8.30



Bobcat F1



Katarina F1



Greenboy F1



Blue Vantage F1



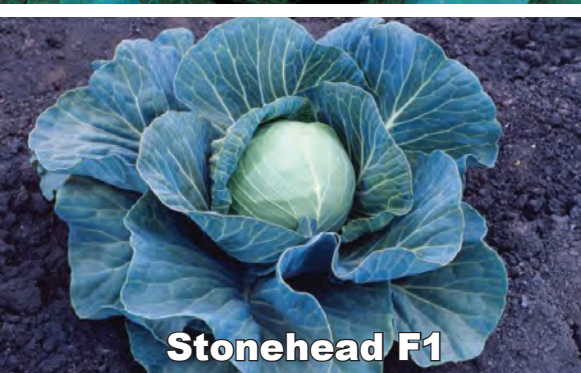
Fast Vantage F1



OS Cross F1



Charmant F1



Stonehead F1

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

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

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

2259 Katarina F1 45 days. Very sweet, crisp, early, and mild, with much less bitterness than comparisons. Small tight 4" heads for baby cabbage that 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 Ct; Restaurant, Roadside.

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

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

Main Green

2219 Blue Vantage F1 67-80 days. Ball head type. Deep blue-green heads weigh 3½-4 lbs and 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 Bobcat F1 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 FY 1. Tolerant AL, BR. BSP, TB, TT. Fresh Mkt, Shipping, Shredding.

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

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

2274 OS Cross F1 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
TB	Tip Burn
TT	Thrip Tolerant

Cat#	Cabbage (M=1000)	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
2259	Katarina	2.50	9.80	15.55	12.45	11.50	10.50	9.65

Cat#	Cabbage (M=1000)	200 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
2219	Blue Vantage	2.05	8.05	6.45	5.20	4.75	4.30
2225	Bobcat	2.15	8.25	6.55	5.05	4.60	4.15
2229	Charmant	2.60	10.25	8.20	6.65	6.05	5.50
2233	Fast Vantage	2.60	10.35	8.30	6.70	6.10	5.55
2241	Gallican	2.85	11.30	9.05	7.35	6.50	5.70
2252	Greenboy	2.55	9.70	7.75	5.90	5.40	4.90
2274	OS Cross	1.95	7.65	6.15	4.95	4.50	4.10
2284	Quick Start	2.05	8.25	6.60	5.35	4.85	4.40
2348	Stonehead	2.45	9.80	7.85	5.65	5.10	4.65
2360	SuperStar	3.15	12.60	10.10	8.15	7.40	6.75



Ruby Perfection F1



Vantage Point F1

More Cabbage

Midlate Green

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

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

2362 & 2362U Vantage Point F1 82 days. Large, dense, dark blue-green 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

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

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

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



Red Jewel F1



Super Red 115 F1

2314 Ruby Perfection F1 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 F1 115 days. First true storage red cabbage that is Fusarium Yellow race one resistant. Medium sized round heads are nice red color with fancy wrapper leaves. Strong vigor with very good yields. Resistant FY 1, TT. Fresh Mkt, Storage.

Savoy

2319 Savoy Ace F1 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 Deacon F1 105 days. Attractive red headed savoy cabbage. Large solid 3-5 lbs. heads develop shiny red appearance which intensifies at mature stages and is strongest in cool autumn weather. High beta carotene for extra health kick. Glossy reddish leaves are veined lavender purple. Smooth, sweet taste. Excellent choice for mixed salad. Fresh Mkt, Shipping.

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

Beira Tronchuda listed on page 37



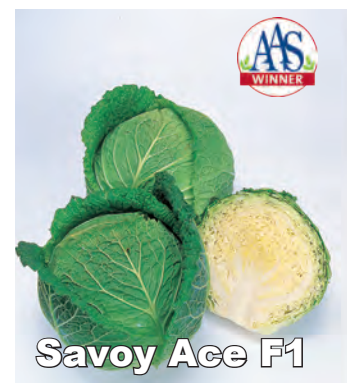
Gunma F1



Red Dynasty F1



Harvest Mist F1



Savoy Ace F1



Ruby King F1



Melissa F1

Cat#	Cabbage (M=1000)	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
2256	Gunma	4.65	18.25	28.95	23.20	21.55	20.05	18.85
Cat#	Cabbage (M=1000)	200 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)	
2258	Harvest Mist	2.25	8.35	6.70	4.85	4.30	3.75	
2287	Red Dynasty	4.95	19.15	15.30	10.15	9.15	8.25	
2289	Red Jewel	4.00	15.80	12.65	10.25	9.30	8.45	
2309	Ruby King	3.35	13.25	10.60	8.60	7.80	7.10	
2314	Ruby Perfection	3.40	13.40	10.75	8.70	7.90	7.15	
2319	Savoy Ace	3.75	14.95	12.00	9.70	8.80	8.00	
2322	Savoy Deacon	10.55	39.95	32.00	21.85	19.75	17.80	
2325	Savoy Melissa	6.25	24.85	19.90	14.25	12.90	11.60	
2358	Super Red 115	5.60	21.25	17.00	12.95	11.80	10.70	
2362 & 2362U	Vantage Point	2.00	7.95	6.30	5.10	4.65	4.20	



Joi Choi F1



Asian Delight



Mei Qing Choi F1



Emiko F1



Optiko F1



Apollo F1



Blues F1



New Nabai F1

Chinese Cabbage

(*Brassica rapa*, *Pekinensis* Group) ★

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

Michihili Type

Narrow Cylindrical Shape

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

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

Napa Type Barrel Shape

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

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

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

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



Green Rocket F1



China King F1

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

Pak Choi

Traditional Shape

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

2740 Joi Choi F1 55 days. Extremely well adapted to fall and winter planting. Highly adaptable for 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 F1 40 days. First hybrid Pak Choi with green petioles—produces highly marketable plants. Easy to grow, attractive heads are tender, excellent eating quality. Vigorous, early, uniform plants are upright, compact and slow to bolt. Well adapted to spring/fall sowings; tolerant to heat and cold. Fresh Mkt.

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

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	4.10	3.30	2.65	2.40	2.20
2693 & 2693U	Blues	1.60	4.35	3.35	2.70	2.45	2.25
2695	China King	2.25	8.40	6.75	5.35	4.85	4.40
2703	Emiko	2.10	8.40	6.75	5.45	4.80	4.20
2707	Green Rocket	1.75	3.75	3.00	2.45	2.20	2.00
2713	Monument	1.75	3.95	3.20	2.55	2.30	2.15
2718	Optiko	2.30	8.20	6.55	5.15	4.55	4.00
2728	Asian Delight	1.45	5.75	4.60	3.70	3.25	2.90
2740	Joi Choi	1.70	5.95	4.80	3.85	3.50	3.20
2745	Mei Qing Choi	1.65	6.25	5.00	3.85	3.50	3.20
2748U	New Nabai	1.55	2.25	1.80	1.55	1.35	1.25

Chinese Cabbage Disease Codes

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



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

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

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

Baby Nantes Types

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

2549U Little Finger 50-68 days. OP Baby nantes type. Roots color quickly, can be pulled early at 3" x 1/2". Blunt cylindrical roots, smooth skin, very small core. Somewhat small tops. Must be harvested early for quality baby carrots. Baby Fresh Carrots, Canning, Pickling.

Nantes Types

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

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

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

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.



Tall Utah Improved



Hadrian TZ 9077 F1

Celery

(*Apium graveolens dulce*)

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

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

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 Fusarium 1-2. 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
----	--------------------------



Fuerte F1



Scarlet Nantes



Rainbow F1



Ingot F1



Envy F1



Danvers #126 Improved

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	2.15	7.85	2.45	2.25	1.90	1.75
2538	Envy	1.60	4.75	1.50	1.00	0.85	0.75
2540	Fuerte	2.55	9.75	3.15	2.70	2.30	2.15
2543 & 2543U	Ingot	1.70	2.15	0.70	0.60	0.55	0.50
2550	Neptune	1.70	2.15	0.70	0.60	0.55	0.50
2566	Rainbow	2.45	9.40	2.90	2.50	2.25	2.00
2588	Yellowstone	2.15	5.35	1.75	1.30	1.20	1.00

Cat#	Celery	1/32 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
2678U	Tall Utah Improved	1.95	3.35	5.55	9.00	15.65	24.55	23.40

Cat#	Celery (M=1000)	500 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)
2665	Hadrian TZ 9077	8.15	12.25	9.80	8.20	7.20
2673	Starlet	2.25	3.40	2.70	2.30	2.00

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



Snow Crown F1



Candid Charm F1



Fujiyama



Multi-Head White F1



Steady F1



Graffiti F1



Amazing



Cheddar F1

Cauliflower

(*Brassica oleracea*, *Botrytis* Group)



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

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

2610 Baby F1 45-55 days. Novelty item for container plant produc-tion. 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 Candid Charm F1 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 Cheddar F1 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 moder-ate temperatures. Leave head untied for maximum orange color. In warmer regions, plant later to assure head development for fall harvest. Excellent flavor cooked or raw (color deepens when cooked). Specialty, Fresh Mkt, Salad Mix.

2627 Fioretto 60 days. Heat tolerant. Special type produces long, slender florets in great abundance. 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.



Fioretto

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

2635 Multi-Head White F1 50-60 days. Dual use. Produces a cen-tral 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 Crown F1 68 days. Earlier, more uniform Snowball type. The high quality, well-rounded, pure-white heads measure up to 8" across, have good depth and stay tight several days after harvest. Vigorous plants with potential for big yields. Fine raw or cooked.

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

Cat#	Cauliflower (M=1000)	100 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
2608	Amazing	2.75	20.40	16.60	12.00	11.40	11.00
2613	Candid Charm	2.60	20.70	16.60	13.15	12.45	11.70
2630	Fujiyama	1.60	11.90	9.60	8.15	7.20	6.60
2653	Snow Crown	2.35	18.45	14.80	11.95	11.40	10.85
2654	Steady	3.50	26.20	21.00	14.95	13.50	12.15

Cat#	Cauliflower (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)
2610	Baby Cauliflower	2.65	7.80	31.20	49.50	44.70	40.25
2623	Cheddar	5.00	15.55	62.20	86.30	77.90	70.15
2627	Fioretto	2.70	8.35	33.85	57.40	50.90	46.60
2638	Graffiti	4.05	12.45	49.95	80.85	73.00	65.75
2635	Multi-Head White	2.65	7.80	31.20	49.50	44.70	40.25



Vates

Collards

(*Brassica oleracea*, *Acephala* Group)

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

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

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



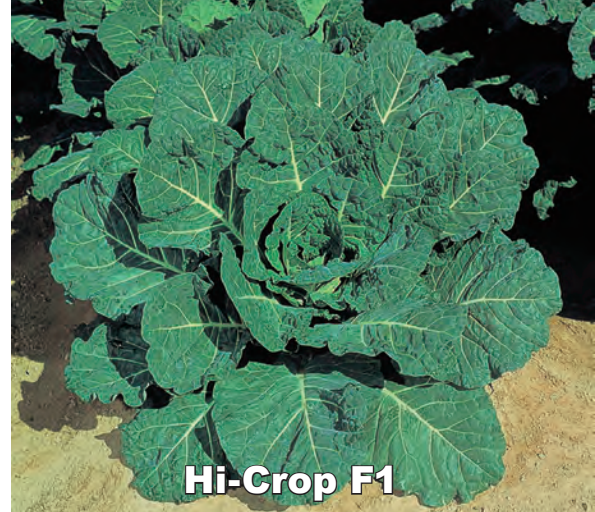
Morris Heading

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

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

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

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



Hi-Crop F1



Flash F1



Top Chop F1



Top Bunch 2.0 F1

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	9.75	11.60	12.25	21.35	38.75	35.85	34.00	32.55

Cat#	Collard	1/32 oz	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb
2777	Flash	5.15	17.00	42.15	89.90	160.30	287.50
2798	Top Bunch 2.0	1.70	10.15	26.15	88.20	157.35	282.20
2799	Top Chop	1.70	10.35	25.65	86.40	154.15	276.45

Cat#	Collard	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
2792	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 M (per M)	10 M (per M)	50 M (per M)
2789	Hi-Crop	1.90	2.90	4.70	3.45	3.15	2.80

Sweet Corn... A Taste of Summer Sunshine

Avalon F1

Selecting Sweet Corn Varieties

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

Sh2 corn avg 3,500 sd/lb

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







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

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

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

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

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

Genotype	General Information
Normal Sugary Gene Type (su)	The standard sweet corn for many years. This type has creamy corn flavor and mild sugars. They are best used very soon after picking, as conversion of sugar to starch is rapid.
Homozygous Sugary Enhancer Gene Type (se)	100% of kernels are sugary enhanced. Each kernel has higher sugar content than Normal Sugary Gene types but also has comparable levels of starch. This makes the corn both sweet and creamy with a tender pericarp. The higher sugar levels result in hybrids that maintain their quality over a longer period of time. Homozygous denotes that both parents are se. Isolation required.
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®. Isolation required.
Synergistic Types	Also known as Heterozygous Shrunken 2 Gene Type (sh2 + se), this class contains 75% se kernels and 25% sh2 kernels on each ear. These are not recommended for long distance shipping or processing. These can be found under the Synergistic headings by color. Isolation required.
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°. Isolation required.
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. Isolation required.
 or 	Thicker foliage that stays deep green all the way to harvest. Extra ear protection from broad, healthy flag leaf, stronger photosynthesis, extra market appeal.
	Bright glossy pericarp that gives eye catching kernel color at market and on the table.



SuperSeedWare®

**Multisweet®
SSW2742 F1**

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®'s also have dramatically improved seed storage and shelf life.

Patent No.'s: 8,796,504 and 8,822,756 and 6,184,438.



Packout F1



**SSW® Bicolor
Early Riser F1**



**HiGlow®
SS3880MR F1**



**HiGlowMS®
SS3778R F1**



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 sh² varieties.

Fuller, More Durable Seeds!

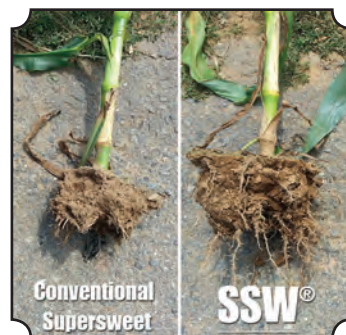
Seed Density and Appearance

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

Proper Handling and Storage

SSW® seed is denser and less susceptible to physical damage than conventional sh²s. 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 Root Systems!

Stronger Stalks!

More Corn Flavor!



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®

HiGlow® and MultiGlow® sweet corns have really intense 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 MultiSweet® eating quality and HiGlow® kernel color.

HiGlow®, SRG®, SSW®, and the following symbols are registered trademarks of Abbott & Cobb, Inc.



SuperSeedWare®



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



Serendipity F1



Obsession F1



Honey 'N Pearl

Sweet Corn

HiGlow STAYS GREEN **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



Bicolor	Days	Ear Size	Kernel Rows	Height	Disease	Description
SSW® 						
1590 Summer Sweet® Bicolor Early Riser F1	68	7.5"	14-16	6'	Tolerant NCLB	Great combo of earliness and SSW seed vigor make this good for early market slots. Strong bicolor kernel contrast, bright white on deep golden yellow. Good husk protection. Strong flags. Fresh local mkt, Shipping, Early slots.
1474 Packout F1  HiGlow	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. 1 ear per plant at close spacing; 2 per plant at wide spacing. Fresh Mkt.
1695 Summer Sweet® Multisweet® SSW2742 F1  HiGlow	75	7.5" - 8"	16-18	6.5'	Resistant CR, Rp 1, G 1; Tolerant NCLB	Plenty of extras. The brilliance of HiGlow® makes the color contrast really pop. Rich flavor of se+sh2. Strong stalks. Uniform vigor. Strong disease package.
Sh²						
1378 American Dream F1 	77	7"-7.5"	16-18	6'	Tolerant NCLB	AAS Gold Medal 2018. IFSI Reserve™ eating quality. Tender sweet kernels, excellent tip fill. Good husk protection and flags.
1360 Anthem XR F1  	73	8" x 1.8"	16-18	5'	Tolerant CR, NCLB	Early supersweet; avg. ear height 20". Deep green husk and multiple flag leaves with medium short shank. Fresh Mkt, Shipping.
1377 Catalyst XR F1 	66	8" x 1.75" diameter		6'	Tolerant CR	66 days! Earliest SuperSweet on the mkt. Sweet, tender ears borne 27" above ground. Mid green husk and flag provide good protection. Excellent ear size and tip fill. A must have for early mkt window.
1401 Enchanted F1	78	8" x 2" diameter	18-20		Tolerant CR, NCLB, SW	Augmented SuperSweet. Combines sh2, se & su genes for exceptional combo of sweet flavor, tender kernels, strong seed vigor and emergence. High yield potential. 3" ear ht. Easy to pack with great holding power from field to consumer. Fresh mkt, Shipping.
1419 Honey 'N Pearl F1 	78	9"	16-18			An industry standard. Super sweet type with excellent holding ability. Great tip-fill. Nice, straight rows of flavorful shiny yellow & white kernels. Fresh Mkt, Shipping, Processing.
1448 Kickoff XR F1	69	8" x 2" diameter	16-18	6'	Resistant CR, NCLB	Xtra-Tender gene combo for super eating quality and seedling vigor. Excellent ear size for a first-early. Deep green husk and robust flags. 28" ear ht. Quick emergence & large ears provide potential for very high yields. Fresh mkt, Shipping.
1480 Obsession F1 	81	8.5" x 1.7"	18-20		Resistant CR; Tolerant NCLB, SW	Proven main-season mkt leader in many areas. Sh2+se genetics result in sweet, creamy tender kernels. Ears held 2' above ground.
1506 Signature XR F1	72	8" x 1.9" diameter	16-18	6.5'	Resistant CR	New-generation breeding from Illinois Foundation, selected for the very best of tender and sweet eating. Excellent husk protection and holding ability in field. Ears 27" above ground. Shaft is compact for easy pack and ship.
Synergistic (75% se + 25% sh ² unless noted)						
1358 Alto F1	72	8.5" x 2"	14-16	5.5'		Earliest TripleSweet synergistic bicolor. Strong emergence in cool soils gives potential for early mkt windows. Works well in northern areas. High quality eating. Tender, creamy and sweet. Fresh Mkt, Shipping.
1402 Espresso F1	70	8.5" x 2"	14-16		Tolerant CR, SW	Large kernels & strong husk cover make a good combo for mkt appeal. Stalk very tall for an early variety. Near main-season quality in a 70-day corn. Breeder recommends planting as as first-early. Fresh Mkt, Shipping.
1489 Primus F1 (60% se + 40% sh ²)	81	8-8.5" x 2.2"	14-16		Resistant SCLB; Tolerant SW	Sweeter than other triple sweets. Wonderful flavor. Avg. ear height 24". Disease package gives potential for high yield. Medium green plant. Mid-sized husks. Fresh Mkt, Roadside, Local Shipping, Cello.
1504 Serendipity F1	82	8.5" x 2"	16-18	8'	Tolerant SCLB	An industry leader. TripleSweet. Superb eating ears with extra shelf life.



**Multisweet®
SSW2742 F1**



Catalyst XR F1



**SSW® Bicolor
Early Riser F1**



Alto F1



Signature XR F1



Kickoff XR F1



Packout F1



Anthem XR F1



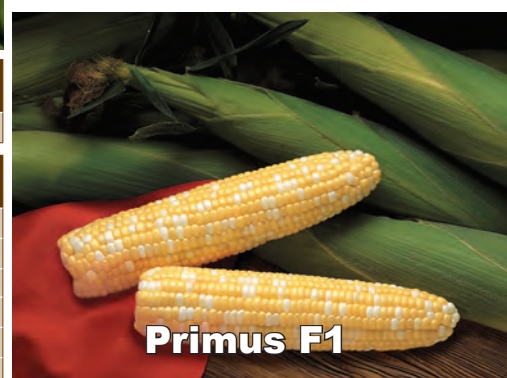
Enchanted F1



American Dream F1

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)
1504	Serendipity	9.80	15.15	23.55	18.30	17.60	16.90	16.20	15.55	15.15

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)
1358	Alto	12.15	47.60	15.15	9.55	9.00	8.50	8.00
1378	American Dream	14.25	56.00	17.75	14.25	13.65	13.00	12.45
1360	Anthem XR	18.15	69.85	23.00	15.15	14.50	13.80	13.20
1377	Catalyst	14.80	56.90	18.70	16.15	14.40	13.15	12.30
1401	Enchanted	9.80	38.60	12.25	9.80	9.45	9.00	8.60
1402	Espresso	11.15	43.75	13.90	10.15	9.70	9.25	8.85
1419	Honey 'N Pearl	10.50	40.65	12.90	9.10	8.75	8.35	8.00
1448	Kickoff XR	14.25	56.00	17.75	14.25	13.65	13.00	12.45
1480	Obsession	14.65	57.65	18.30	9.75	9.15	8.60	8.20
1474	Packout	9.55	37.60	11.95	9.25	8.70	8.25	7.85
1489	Primus	11.20	44.10	14.00	11.10	10.40	9.80	9.30
1506	Signature XR IFSI Reserve	14.30	56.25	17.85	14.30	13.75	13.05	12.50
1590	Summer Sweet ® Brand Bicolor Early Riser	10.90	41.55	13.30	9.10	8.35	7.60	--
1695	Summer SWeet ® Multisweet ® 2742	12.65	49.75	15.75	12.65	11.90	11.20	10.65



Primus F1

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

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



Ambrosia F1



Silver Queen F1



Peaches 'N Cream Early EH F1

More Sweet Corn

HIGlow STAYS BRIGHT GREEN **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



Bicolor, cont.	Days	Ear Size	Kernel Rows	Height	Disease	Description
SE						
1359 Ambrosia F1	75	8-8.5" x 2.2"	16	7.5'	Tolerant SW	Exceptionally tender and delicious. Plants may have some resistance to smut. Fresh Mkt, Regional Shipping.
1384 Delectable RM F1	84	8.5" x 2"	18		Tolerant CR, NCLB, SW	Homozygous SE. Widely adapted to all areas. Strong, dark-green husks. Fresh Mkt, U-Pick, Shipping.
1451 Luscious F1	75	8.5" x 2"	16-18	6'	Tolerant NCLB, SCLB, SW	The name says it all. Large, blunt ears have sweet, tender eating quality with Galinat's TABLESWEET® homozygous SE genetics. Produces well even under stressful conditions. The husk offers good tip coverage and classy flags. Fresh Mkt, Roadside, Garden.
SU						
1481 & 1481U Peaches 'N Cream Early EH F1	70	8.5" x 2"	14			First early roadside variety that delivers great sweet creamy flavor for locally grown market. Long medium green flags. Fresh Mkt, Roadside, Garden.
White						
Sh²						
1398 Eden F1	76	8" x 1.8"	16-18	7'	Intermediate Resistance CR, SW	Augmented supersweet. Combines sh2, se and su genes for exceptional sweet flavor, tender kernels and strong seed vigor and emergence. High yield potential. 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	Kernels have an extra shiny glow. Large cylindrical ears. Excellent husk protection and striking flags. Stalk is medium short. Fresh Mkt, Shipping.
1412 Summer Sweet® Multisweet® glACial F1	76	8.5" x 1.9"	16-18	6'		High quality. Stays bright white past harvest. Fat cylindrical ears with excellent tip fill. Mid sized plant. Fresh Mkt.
1715 SV 1580SC F1	76-80	8.5" x 1.7"	18-20	6.5'	Resistant CR, NCLB	Easy harvest either by hand or mechanical means. Avg. ear height 24". Multiple disease package promotes high yield potential. Fresh Mkt, Roadside, Shipping, Cello.
Synergistic (75% se + 25% sh²)						
1369 Avalon F1	82	8.5" x 2"	16		Tolerant NCLB, SCLB, SW	Superior eating quality compared to white se types. Medium green husks with compact flags. Fresh Mkt, Regional Shipping.
1430 Illusion F1	72	8.5" x 2"	14-16		Tolerant CR, SW	Bright white kernels with excellent tip fill. Deep green husks, outstanding flags, excellent eating quality. A Seneca early white. Fresh Mkt, Shipping.
SE						
1364 Argent RM F1	86	8.5" x 2"	16-18	7'	Tolerant CR, NCLB, SW	Heterozygous SE. Extra luxurious. Avg. ear height 23". High yield potential.
1509 Silver King F1	82	8-8.5" x 2.2"	16	6.5'	Tolerant CR, NCLB, SW	Heterozygous SE. Popular variety with wide adaptability. Very good tip fill. Extra broad disease package.
1724 Whiteout F1	74	8.5" x 2"	16	6.5'		Excellent eating quality. Sturdy, vigorous plants have great ear conformation. Fresh Mkt, Shipping.
SU						
1529 & 1529U Silver Queen F1	88	8.5" x 2"	14-16	7'	Resistant NCLB, SW; Tolerant SCLB	A well-known favorite. Uniform large ears. Dark green husks and flags. Vigorous plants. Fresh Mkt, Regional Shipping.



Avalon F1



Silver King F1



**Summer Sweet®
Multisweet® glACial F1**



Illusion F1



Whiteout F1



**Summer
Sweet®
HiGlowMS®
White 7401 F1**



Eden F1



Delectable RM F1



Luscious F1



Argent RM F1

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	8.75	13.45	21.00	16.50	15.85	15.25	14.60	14.00	13.65
1364	Argent	8.50	13.15	20.50	16.10	15.50	14.90	14.30	13.70	13.35
1369	Avalon	15.15	23.40	29.25	18.55	17.85	17.15	16.45	15.75	15.35
1384	Delectable	8.70	13.40	20.85	16.40	15.80	15.15	14.55	13.90	13.60
1481	Peaches 'N Cream Early EH	7.75	11.95	18.60	14.60	14.05	13.50	12.95	12.40	12.10
1509	Silver King	9.10	14.10	21.95	17.25	16.60	15.95	15.30	14.65	14.30
1529	Silver Queen	7.50	11.55	18.00	13.90	13.40	12.85	12.35	11.80	11.55

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	9.90	37.20	12.00	10.00	8.75	--	--
1451	Luscious	8.30	32.80	10.40	7.30	7.00	6.70	6.45
1621	Summer Sweet® HiGlowMS® White 7401	11.25	44.20	14.05	11.25	10.55	9.95	9.45
1412	Summer Sweet® Multisweet® glACial	11.10	43.60	13.85	11.10	10.40	9.80	9.30
1715	SV 1580SC	16.35	64.35	20.40	13.60	12.75	12.00	11.40
1724	Whiteout	10.30	40.35	12.80	10.30	9.90	9.35	8.95

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



Honey Select F1



**Summer SWEET®
HiGlow® SS3880MR F1**



**Summer SWEET®
HiGlowMS® SS3778R F1**




Supersweet Jubilee F1

More Sweet Corn

HiGlow® STAYS GREEN **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



Yellow	Days	Ear Size	Kernel Rows	Height	Disease	Description
SSW®						
1680 Summer SWEET® HiGlowMS® SS3778R F1	<i>HiGlow®</i> 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.
1681 Summer SWEET® HiGlow® SS3880MR F1	<i>HiGlow®</i> 80	1.9" diam.	16-18	6'	Medium 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.
Sh²						
1705 Supersweet Jubilee F1	83	8.5" x 1.9"	16-18	7		Jubilee type but with super sweet flavor and outstanding holding ability. Consistent high yield and excellent recovery. Best results in warmer soil.
1795 Xtra-Sweet® Northern Yellow F1	67	8" x 1.9"		5.5'	Tolerant NCLB, SCLB	Xtra Early Super-sweet with excellent cold soil emergence. Very large for first early. Avg ear ht 15". Fresh Mkt, Roadside, Shipping.
Synergistic						
1424 & 1424U Honey Select F1	 79	8.5" x 2"	14-16		Resistant SW	Our top selling yellow. High quality product with enhanced flavor and nice fat ears. Good holding ability. Fresh green husks with good flags. Fresh Mkt, U-Pick.

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 & 1424U	Honey Select	9.70	14.95	23.25	18.30	17.60	16.90	16.20	15.55	15.15
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)		
1680	Summer SWEET® HiGlowMS® SS3778R	12.80	50.15	15.90	11.80	11.05	10.40	9.90		
1681	Summer SWEET® HiGlow® SS3880MR	12.60	49.50	15.70	12.15	11.35	10.65	10.15		
1705	Supersweet Jubilee	8.80	34.65	11.00	8.70	8.15	7.65	7.30		
1795	Xtra-Sweet® Northern XtraSweet Yellow	10.90	42.85	13.60	10.15	9.70	9.25	8.85		

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



Bodacious RM F1



Kandy Korn EH F1



Early Sunglow F1



Jubilee F1



Incredible RM F1

More Sweet Corn

Yellow, cont.	Days	Ear Size	Kernel Rows	Height	Disease	Description
SE						
1370 Bodacious RM F1	75	8-8.5" x 2.2"	16	7'	Resistant CR, MDMV; Tolerant SW	Super dependable. Improvement on the original Bodacious, with highly resistant traits in its 3-way disease pkg.
1432 Incredible RM F1	85	8-8.5" x 2.2"	18	8'	Medium Resistant CR, NCLB, SW	Homozygous SE. Main season. A widely adapted market leader. Avg. ear height 30". Fresh Mkt, Roadside, Shipping.
1442 Kandy Korn EH F1	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 for locally grown market. Fresh Mkt, Garden.
1434 Jubilee F1	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 F1 120 days. Bright reddish purple kernels with high popping percentage. Delicious nutty flavor and smooth, crunchiness texture. Red and yellow are sister lines. Kernels can be layered in jars for attractive sales presentation. 6" x 1-1.5" ears produce about 700 kernels. Ears slightly tapered. Good tip fill. 7' stalks. Ornamental Edible, Farm Mkt, Cornucopia.

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



Dream Pop Red F1



Dream Pop Yellow F1

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)
1370	Bodacious RM	8.30	12.80	19.95	15.70	15.10	14.50	13.90	13.35	13.00
1396	Early Sunglow	5.20	7.75	12.25	10.30	--	--	--	--	--
1432	Incredible RM	8.30	12.80	19.90	15.65	15.05	14.45	13.85	13.30	12.95
1434	Jubilee	8.40	13.00	20.25	14.00	13.50	12.95	12.45	11.95	11.65
1442	Kandy Korn E.H.	7.70	11.85	18.50	14.55	14.00	13.45	12.90	12.35	12.05

Cat#	Popcorn	1/4 lb	1 lb	5 lb (per lb)	10 lb (per lb)
1255U	Dream Pop Red	12.90	39.80	25.75	23.30
1256U	Dream Pop Yellow	10.15	30.25	23.55	22.45

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



Wilda's Pride



**Broom Corn/Sorghum
Colors Medley**



Carousel F1



Fiesta F1



Strawberry Corn



Bloody Butcher



Mini Blue

Ornamental Corn & Sorghum

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

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

Farm markets make ideal outlets for cheerful, festive bundles.

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

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

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

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



Earth Tones Dent

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

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

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

Cat#	Ornamental Corn	1/4 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)	50 lb (per lb)
1184U	Bloody Butcher	9.95	30.30	24.40	16.85	15.15	14.55
1224U	Broom Corn & Sorghum Colors Medley	17.85	54.00	43.50	36.90	32.70	30.00
1189	Carousel	7.15	21.60	17.35	14.55	12.65	11.65
1194U	Earth Tones Dent Corn	7.50	26.20	22.00	17.30	15.30	14.70
1199	Fiesta	5.95	17.95	14.45	12.25	10.90	10.00
1209U	Mini Blue	15.50	43.15	37.60	32.00	26.50	24.85
1229	Strawberry Popcorn	14.25	40.00	30.00	25.00	22.00	20.00
1239	Wilda's Pride	7.25	21.90	17.45	14.00	12.20	11.00



Saladmore Bush F1



Iznik F1



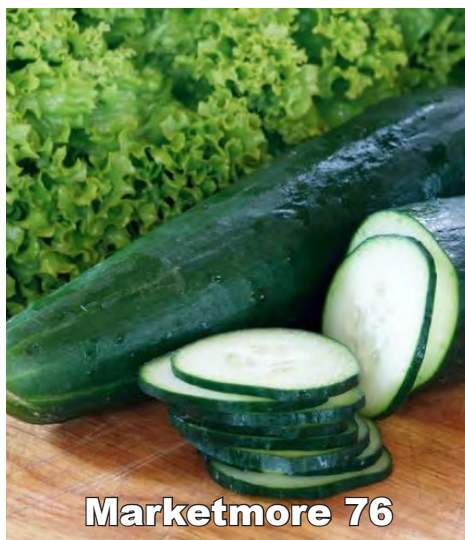
Bristol F1



Dasher II F1



Salad Bush F1



Marketmore 76



Green Light F1

Cucumber (Cucumis sativus)

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

Slicing

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

2832 Dasher II F1 58 days. Premium gyn with high yield potential.



Vigorous plants, straight, uniform, dark-green 8.5" x 2.5" fruit. Strong disease package. Tolerant A, ALS, CMV, PM, S. Fresh Mkt, Garden, Commercial.

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

2871 Green Light F1 40 days from sowing. 2020 AAS Gold Medal



Winner. Beautiful and highly productive minislicer. Flavorful, mild sweet, crisp & seedless. Smooth, spineless, tender skin that needed no peeling. Harvest at 4".

Wonderful eaten whole as a snack or sliced. Trial notes indicate yield of 3-4 fruit daily over long season. Season yields were reported as 40 or more fruit per plant. No bitterness found in our trial. Trellised nicely. Plant about 20" apart on trellis. Vigorous vines can reach to 80" on ground. Fresh Mkt.

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

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

2890 Salad Bush F1 57 days. Early slicer with compact bushy habit.



Glossy dark green fruit are uniform, cylindrical with slight taper, 8" x 2¼". Adaptable to compact spacing. Resistant CMV, S. Container, Fresh Mkt.

2893U Saladmore Bush F1 55 days. Semi-bush habit spreading about



2' across. Deep green slicers 7-8" x 2", slightly tapered cylindrical, with crisp sweet 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. Southeast.



General Lee F1

Cucumber Disease Codes

A	Anthrachnose & 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

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	17.15	15.95	14.80	
2832	Dasher II	1.60	2.20	8.15	12.10	11.25	10.45	
2862	General Lee	2.60	4.00	9.80	15.15	13.35	11.75	
2871	Green Light	1.95	5.65	22.95	38.80	34.45	31.50	
2872U	Iznik	10.55	28.15	113.85	169.05	137.50	--	
2890	Salad Bush	6.00	18.30	73.30	92.25	83.30	75.05	

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



Sweet Success F1



Tasty Green F1



Summer Dance F1



Diva F1

More Slicing Cucumbers

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

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



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



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

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

Burpless

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

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



Taurus F1



Calypso F1



Swing F1

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

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

Pickling

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

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

Parthenocarpic, or "Seedless" Varieties:

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

Cat#	Cucumber	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
2827U	Calypso	1.95	2.75	9.35	16.15	28.90	23.45	21.30
2828U	Carolina	2.25	3.30	11.15	19.25	32.90	26.60	25.35

Cat#	Cucumber (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (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	7.95	12.90	11.75	10.65
2902	Summer Dance	2.85	8.55	34.40	58.80	44.90	37.80
2912	Sweet Success	8.15	24.95	99.75	155.15	140.10	126.20
2918U	Swing	2.65	7.00	28.00	45.30	40.90	36.85
2922 & 2922U	Tasty Green	3.60	5.90	20.85	29.10	26.45	24.00
2925	Taurus	2.25	6.75	27.20	46.00	40.80	37.45



Citadel F1



Vlasstar F1



Diamant F1

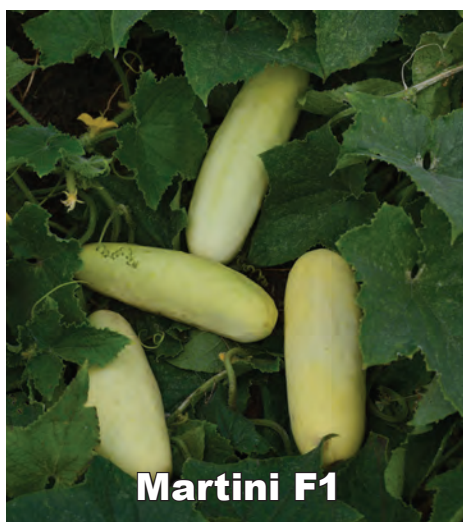
More Pickling

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

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

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

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



Martini F1

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

Specialty

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

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



Pick A Bushel F1



Gherking F1

Cat#	Cucumber	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
2881U	Lemon	1.80	2.80	9.60	16.45	29.60	27.00	25.15
2891U	Pick A Bushel	1.75	10.35	35.55	61.40	109.00	100.40	93.90

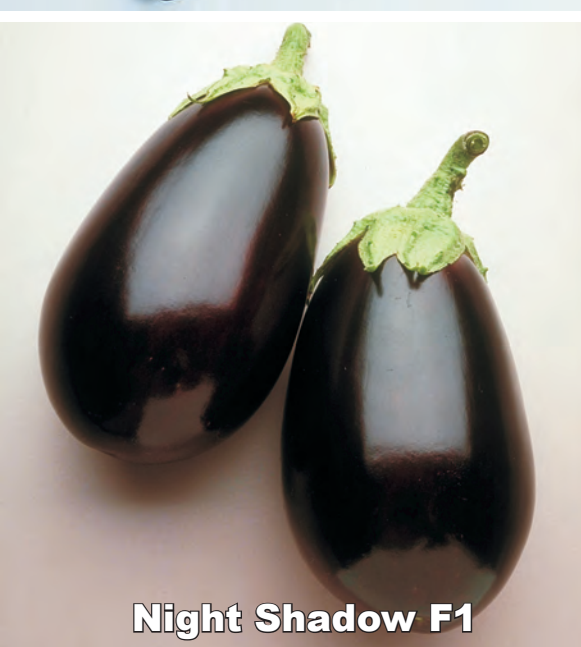
Cat#	Cucumber (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)
2830	Citadel	1.50	1.95	5.50	8.90	8.25	7.65
2835	Diamant	2.90	8.80	35.25	45.30	40.90	36.85
2863	Gherking	2.50	7.65	30.70	45.50	41.05	37.00
2888	Martini	3.20	8.50	34.05	55.05	49.75	44.80
2935	Vlasstar	1.55	2.40	5.65	6.75	6.25	5.80



Rhapsody F1



Millionaire F1



Night Shadow F1



Gaudi F1



**Money Maker
No. 2 F1**



Black Beauty



Fond May F1

Eggplant

(*Solanum melongena esculentum*)

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

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

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

2975 Fond May F1 77 days. Rich glossy purple fruit and calyx with tender white flesh. Ten-inch cylindrical fruit averages 6 oz. This is the popular long, thin oriental type. Tolerance to bacterial wilt makes it suitable for southern production. Fresh Mkt, Gdn, Roadside.

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

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

Gourds listed on page 34

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	95.00	161.15	142.80	131.00

Cat#	Eggplant (M=1000)	100 sd	500 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	Black Shine	2.15	7.85	12.50	10.45	9.20	--
2975	Fond May	1.90	2.65	4.20	3.25	2.75	2.20
2977	Gaudi	14.90	55.90	89.50	75.00	65.80	--
2997U	Millionaire	2.30	8.50	13.60	11.55	10.25	9.40
3002	Money Maker No. 2	2.50	9.50	15.20	12.45	10.80	--
3003	Night Shadow	3.45	13.15	20.95	16.65	14.50	--
3005U	Rosa Bianca	1.60	2.45	3.95	3.30	2.90	--
3015U	White Star	1.95	4.00	6.15	5.15	4.65	--

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

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

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

Specialty Eggplant

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

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



**Mustard Braising
Greens Mix**

Greens Mixed Greens

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

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

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

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

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



Mesclun Mix

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 46.

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



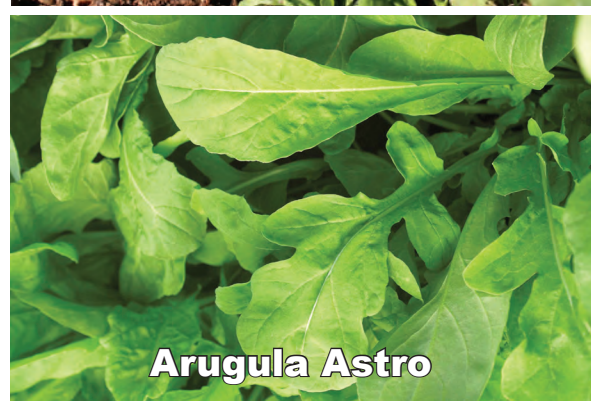
Gourmet Salad Blend



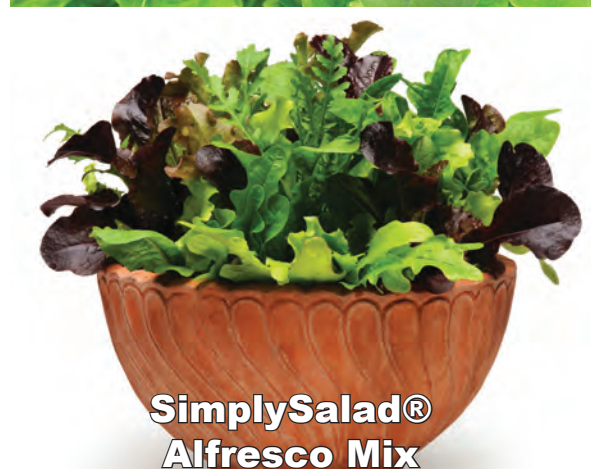
**SimplySalad®
Summer Picnic**



Arugula (Rocket) Slow Bolt



Arugula Astro



**SimplySalad®
Alfresco Mix**

Cat#	Arugula	1/64 oz	1 oz	1/4 lb	1/2 lb	1 lb			
5213	Astro	1.65	3.00	10.20	17.15	30.00			
5214U	Slow Bolt	1.85	3.15	4.25	7.95	13.60			
Cat#	Corn Salad	1/16 oz	1 oz	1/4 lb	1/2 lb	1 lb			
2812U	Large Seeded (Mache)	1.65	2.45	8.25	13.85	24.25			
Cat#	Greens	1/64 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	
3017U	Gourmet Salad Blend	1.75	2.90	4.75	17.00	30.50	56.00	52.00	
3019U	Mesclun Mix	1.75	2.90	4.75	17.00	30.40	55.65	52.00	
3020U	Mustard Braising Mix	1.75	2.90	4.75	17.00	30.40	55.65	52.00	
Cat#	Greens (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)			
3023	SimplySalad Alfresco Mix	4.20	10.30	47.00	85.45	72.35			
3024	SimplySalad Summer Picnic Mix	3.20	7.60	35.25	65.15	54.65			
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)
1277U	Pea Parsley	1.75	2.70	4.20	3.35	2.65	2.20	1.80	1.40
Cat#	Tatsoi (M=1000)	200 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)		
4344	Oriental Green	2.00	2.75	1.70	1.00	0.60	0.25		



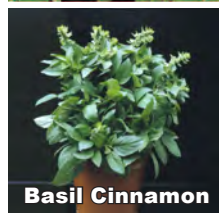
Cilantro Santo



Basil Sweet Large Leaf Italian



Fennel Antares F1



Basil Cinnamon

Annual Herbs

Arugula listed on page 31

***All Herbs are untreated unless otherwise stated.**

5205 Anise (*Pimpinella anisum*) About 11,000 sd/oz. Leaves and seeds have flavor of licorice. Flavor cakes, cordials and sausage. Ht. 2'.

1/32 oz	1 oz	1/4 lb	1/2 lb	1 lb
1.90	2.15	6.95	11.60	20.35

5238 Basil British 60-90 days. A Basil with tolerance to cool, damp growing conditions. Selected for field production in a British climate, this variety is worth testing for fall and spring performance in the U.S., to extend the season for both fresh cut and container basil. Will not stand freezing conditions.

100 sd	500 sd	1000 sd	5 M	10 M
2.15	5.00	4.85	2.85/M	2.10/M

5241 Basil Cinnamon About 23,000 sd/oz. Scented Basil.

1/32 oz	1/8 oz	1/4 oz	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.

100 sd	500 sd	1000 sd	5 M	10 M
2.15	3.55	5.70	4.80/M	4.20/M

5246 Basil Dolce Fresca 60 days from sowing to harvest. 12" tall in pot, 14" tall in gdn. Short internodes keep plants bushy and manageable. Regrows neatly after cutting. Traditional sweet basil flavor.

100 sd	500 sd	1000 sd	5 M	10 M
1.55	2.35	3.35	1.45/M	1.20/M

5250 Basil Genovese About 16,000 sd/oz. Bright green, savoyed leaves. Uniform, tall, 24" plants are slow to bolt. Heavy, spicy taste and smell. Use in pesto sauce.

1/32 oz	1/4 oz	1 oz	1/4 lb	1 lb
1.60	1.95	2.50	7.15	25.00

5277 Basil Lemon About 16,000 sd/oz. Scented Basil.

1/32 oz	1/8 oz	1/4 oz	1 oz
1.60	2.35	3.55	12.00

5286 Basil Lemon Sweet Dani About 14,000 sd/oz. Leaves burst with lemon fragrance when lightly touched. Bushy 26" plant. Useful as a bedding plant in 8-10 weeks from seed. Excellent culinary variety.

100sd	500sd	1000sd	5M
1.55	4.35	7.50	5.25/M



Basil Newton

5295 Basil Licorice About 23,149 sd/oz. Scented Basil.

1/32 oz	1/8 oz	1/4 oz	1 oz
1.60	2.15	2.75	5.00

5300 Basil Newton 21" pot spreading 10", 30" gdn spreading 16"; Bright green crinkled leaves. Fast growing, just 7-10 weeks to 1st harvest. High resistance to fusarium. Clean Genovese flavor, no licorice aftertaste. For Fresh Mkt, Container, Field.

100 sd	500 sd	1000 sd	5 M	10 M
1.65	2.20	3.15	2.30/M	1.70/M

5313 Basil Purple Ruffles About 20,000 sd/oz. Shiny, dark purple, ruffled leaves. Purple flowers. Provides fine flavoring for culinary use. Ht. 18-24".

100 sd	500 sd	1000 sd	5 M	10 M
1.55	4.35	7.50	5.25/M	3.95/M

5316 Basil Red Rubin About 19,000 sd/oz. 12", Strong purple bronze foliage, intense fragrance and fine flavor. Suitable for professional production.

1/32 oz	1/8 oz	1/4 oz	1 oz	1/4 lb
2.15	4.30	5.25	14.00	55.00

5318 Basil Rutger's Obsession DMR Vigorous growth, high leaf-to-stem ratio, deep green, excellent disease resistance to both Downy Mildew and Fusarium Wilt, for long, prolific, clean harvest. Performs well in field and potted plant production. Fresh mkt/drying. Resistant DM, FW. Fresh Mkt, Drying.

1/32 oz	1/8 oz	1/4 oz	1 oz
1.95	2.95	4.45	15.00

5320 Basil Rutger's Passion DMR Vigorous growth, high leaf-to-stem ratio, deep green, the strongest resistance Downy Mildew in Rutger's program, for long, prolific, clean harvest. Long 3" fancy leaves. Has shown excellent regrowth allowing many harvests. Performs well in field and potted plant production. Fresh mkt/drying. Resistant DM. Fresh Mkt, Drying.

1/32 oz	1/8 oz	1/4 oz	1 oz
1.95	3.35	5.15	16.85

5322 Basil Siam Queen About 20,000 sd/oz. Outstanding anise flavor and fragrance. Beautiful, lush, bright green leaves 3-4" long and 1.5-2" wide. Can be picked 4 or more months. Ht. 30".

1/32 oz	1/8 oz	1/4 oz	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.

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



Dill Bouquet



Basil Rutger's Passion DMR

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

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

5358 Borage (*Borago officinalis*) About 1,000 sd/oz. Produces tiny blue and pink flowers from late spring to frost. Used in salads, soups or cool drinks. Commercially grown for its seed oil. Attracts bees. Ht. 1.5-2'.

1/16 oz	1/4 oz	1 oz	1/4 lb	1 lb
1.60	2.15	3.00	12.00	35.00

5380 Cat Grass Tabby About 857 sd/oz. Bright white, green and some variegated foliage. Attractive to cats and famous in health-food recipes. Reaches about 6" high 2 weeks after sowing. Final height 24" for green leaves and 4-6" for variegated. Softly textured, provides vitamins and fiber for cats.

1/4 oz	1 oz	1/4 lb	1 lb	5 lb
1.65	4.20	13.95	46.90	41.35/lb

5412 Chamomile German (*Matricaria recutita*) About 395,000 sd/oz. Apple-scented plants that like sun. Plants flower profusely. Used in teas. Ht. 1.5'.

1/256oz	1/4oz	1/2oz	1oz	1/4lb
2.15	4.15	4.90	8.20	30.00

5448 Cilantro Santo (*Coriandrum sativum*) About 2,000 sd/oz. (Chinese Parsley) Used in Asian and Mexican cuisine. Broad, deep green, parsley-like, pungent foliage. Slow to bolt. Ht. 2'.

1/32 oz	1 oz	1/4 lb	1/2 lb	1 lb
2.70	4.15	5.25	8.50	16.00

5457 Coriander Slo-Bolt (*Coriandrum sativum*) About 2,000 sd/oz. 45 days. Well known and reliable variety. Fresh cut leaf, dry leaf or ground seed for spice.

1/32 oz	1 oz	1/4 lb	1/2 lb	1 lb
1.60	2.35	3.60	6.15	10.65

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

1/64oz	1oz	1/4lb	1/2lb	1lb
1.65	3.00	10.20	17.15	30.00

5511 Dill Bouquet About 16,000 sd/oz. Delicate, soft green, feathery foliage used fresh on fish and salads; seed heads are a favorite pickling spice. Ht. 28-30".

1/32 oz	1 oz	1/4 lb	1 lb	5 lb
1.80	5.15	8.25	18.55	15.75/lb



Basil Purple Ruffles



Basil

Rutger's Obsession DMR

5520 Dill Dukat About 19,000 sd/oz. Produces very strong-flavored, pungent foliage with high oil content. European strain used for warm weather. Ht. 48".

1/32 oz	1 oz	1/4 lb	1 lb	5 lb
1.55	2.00	3.25	10.95	9.60/lb

5529 Dill Fernleaf About 13,000 sd/oz. Extremely compact, basal-branching; deep green, finely-cut foliage with the flavor of larger types but also quite ornamental. Ht. 18".

100 sd	500 sd	1000 sd	5 M	10 M
1.60	3.55	5.70	4.80/M	4.20/M

5538 Dill Mammoth About 15,000 sd/oz. Larger yellow flower heads than Bouquet. Leaves for soup or stews. Stalks and seeds for pickles. Ht. 2'.

1/32 oz	1 oz	1/4 lb	1 lb	5 lb
1.65	2.75	4.40	14.75	12.95/lb

5554 Fennel Antares F1 68 days from sowing. Nationwide trials reported uniform, 4-5" pure white bulbs, ferny fragrant. Bolt resistant in the summer. Sow away from dill.

100 sd	500 sd	1000 sd	5 M	10 M
2.60	9.30	14.85	12.45/M	10.90/M

5556 Fennel Florence (*Foeniculum dulce*) About 7,000 sd/oz. Enlarged leaf bases, somewhat like celery with distinctive anise-like flavor. Will form a bulb if harvested before seed sets. Sow away from dill. Leaves/seeds used in soups, eggs, sauces. Ht. 2.5' tall.

1/16 oz	1/2 oz	1 oz	1/4 lb
2.15	3.95	6.50	9.90

5646 Marjoram Sweet (*Origanum majorana*) About 126,000 sd/oz. Sweet flowers in purple spikes used for flavoring meats, poultry, soups, dressing and salads. Ht. 2'.

1/32 oz	1/4 oz	1/2 oz	1 oz	1/4 lb
1.95	3.40	4.15	6.85	18.00

5727 Savory Summer (*Satureja hortensis*) About 44,000 sd/oz. Leaves and young stem-tips used fresh or dried for flavoring meats, stuffings and teas. Ht. 1'.

1/32 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb
1.65	2.20	3.30	9.90	17.60	32.25

5768 Stevia rebaudiana About 77,000 sd/oz. 12"; Sub-tropical herb produces white flowers with a sweet scent. Leaves can be used fresh or dried as an alternative to sugar.

25 sd	100 sd	500 sd	1000 sd	5 M
3.30	7.80	36.30	67.20	55.70/M



Lavender Hidcote Blue



Thyme Creeping



Catnip



Oregano Greek



Rosemary



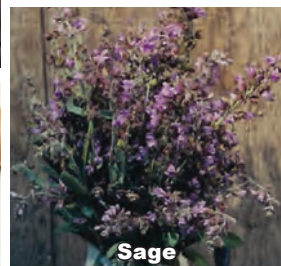
Lavender Munstead Strain



Rue



Lovage



Sage



Peppermint



Oregano Italian

Perennial Herbs

**All Herbs are untreated unless otherwise stated.*

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

1/256 oz	1/8 oz	1/4 oz	1 oz
1.80	3.40	5.15	17.35

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

1/256 oz	1/2 oz	1 oz	1/4 lb
1.95	3.30	6.00	21.45

5430 Chives Common (*Allium schoenoprasum*) About 23,000 sd/oz. Onion flavored grass-like leaves. Chop greens for flavoring meats, vegetables and salads. Ht. 1'.

1/16 oz	1 oz	1/4 lb	1 lb
2.30	5.15	17.00	57.25

5439 Chives Garlic Oriental (*Allium tuberosum*) About 6,000 sd/oz. Use chopped leaves to add mild garlic flavor to salads, soups or stir-fry recipes. Flowers are white. Ht. 12".

1/16 oz	1 oz	1/4 lb	1 lb
2.45	4.70	13.65	41.15

5440 Chives Quattro F1 Overwintering. Sow summer, harvest spring til hard freeze. New leaves are very thick, .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.

25 sd	250 sd	500 sd	1000 sd	5 M
3.45	23.85	38.15	63.95	56.15/M

5493 Cress Upland (*Barbarea verna*) About 24,000 sd/oz. Dark green, glossy, rounded leaves similar to water cress; peppery flavor. Ht. 6-8".

1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb
1.60	2.20	5.15	8.55	15.00

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

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



Chives Quattro F1

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

100 sd	500 sd	1000 sd	5 M	10 M
1.55	3.55	6.15	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'.

100 sd	500 sd	1000 sd	5 M	10 M
1.55	5.50	10.15	7.60/M	6.15/M

5619 Lavender Vera (*Lavandula angustifolia vera*) About 28,000 sds/oz. Pungent leaves and flowers used in potpourri, wreaths, scenting linens, perfumes. Hardy plants with aromatic lavender-blue flowers. Ht. 2'.

1/32 oz	1/4 oz	1/2 oz	1 oz	1/4 lb
2.15	7.50	9.00	15.00	55.00

5621 Lavender Vicenza About 30,000 sds/oz. Benary's Apex conditioned to overcome dormancy. First year flowering and needs no vernalization. Thick spikes of deep blue flowers over silver foliage.

100 sd	500 sd	1000 sd	5 M	10 M
3.25	12.75	18.65	15.90/M	14.35/M

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

1/256 oz	1/64 oz	1/16 oz	1/4 oz
1.75	2.75	5.00	7.00

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

1/256 oz	1/64 oz	1/32 oz	1/16 oz	1/8 oz
1.55	3.25	3.90	6.55	12.50

5637 Lovage (*Levisticum officinale*) About 9,000 sd/oz. All plant parts are edible and have a celery-like flavor. Used in soups, salads and cakes. Ht. 6'.

1/16 oz	1/4 oz	1/2 oz	1 oz	1/4 lb
1.75	3.00	3.65	5.35	19.20



Tarragon

5655 Mint Peppermint (*Mentha x piperita*) About 358,000 sd/oz. Excellent beverage mint, strong cooling menthol aroma. Oil from plants flavors candies and desserts. Ht. 24".

1/256oz	1/16 oz	1/8 oz	1/4 oz	1/2 oz	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".

1/256oz	1/16 oz	1/8 oz	1/4 oz	1/2 oz	1 oz
2.15	6.00	9.35	14.00	22.00	40.00

5673 Oregano Greek (*Origanum heracleoticum*) About 248,000 sd/oz. This strain has a small leaf and a stronger, more pungent flavor than other strains. Leaves used fresh or dry in sauces and soups. Ht. 2.5'.

1/64 oz	1/16 oz	1/8 oz	1/4 oz	1/2 oz	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".

1/64 oz	1/16 oz	1/8 oz	1/4 oz	1/2 oz	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 in teas & sauces. Ht. 6".

1/128 oz	1/32 oz	1/16 oz	1/8 oz	1/4 oz
1.65	2.00	3.25	5.95	10.00

5700 Rosemary (*Rosmarinus officinalis*) About 20,000 sd/oz. Wonderfully fragrant, grayish-green plants attractive in borders or containers. Tasty for seasoning meats, eggs and vegetables. Ht. 2-2.5'.

1/32 oz	1/8 oz	1/4 oz	1/2 oz	1 oz	1/4 lb
4.80	13.25	20.80	37.45	54.15	202.80

5709 Rue (*Ruta graveolens*) About 13,000 sd/oz. Lacy blue-green foliage is highly ornamental. Salads and flavoring cheese dishes. Ht. 2'.

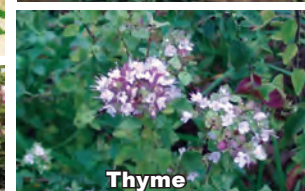
1/64 oz	1/16 oz	1/8 oz	1/4 oz	1 oz
1.55	2.00	2.65	4.30	15.00



Chives Garlic Oriental



Lavender Vera



Thyme

5718 Sage (*Salvia officinalis*) About 3,000 sd/oz. Gray-green leaves and violet flower spikes. Use leaves and young stem tips to flavor poultry, meats, sausage, chowders and sauces. Ht. 1-2'.

1/32 oz	1/8 oz	1/4 oz	1/2 oz	1 oz
1.80	2.40	3.80	6.35	11.15

5763 Sorrel (*Rumex acetosa*) About 30,000 sd/oz. Long slender leaves with a distinctive citrus tang. Used to flavor soups, sauces, salads and other vegetables. Ht. 6-8".

1/32 oz	1/4 oz	1/2 oz	1 oz	1/4 lb
1.90	3.15	3.70	6.25	22.85

5781 Tarragon (*Artemisia dracunculifolia*) 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	1/2oz
1.60	2.25	3.85	6.20	10.90

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

1/32 oz	1/4 oz	1/2 oz	1 oz	1/4 lb
2.00	5.00	6.30	10.40	31.50

5799 Thyme Creeping (*Thymus serpyllum*) About 213,000 sd/oz. Tiny, rounded, blue-green leaves with purple flowers. Use in rock gardens, pathways or groundcover. Leaves are used in teas, salads, rice and fish dishes. Ht. 2-6".

1/256 oz	1/16 oz	1/8 oz	1/4 oz	1/2 oz
1.55	2.00	3.55	5.70	10.00

5817 Wormwood (*Artemisia absinthium*) About 471,000 sd/oz. Aromatic foliage is silvery-gray and aromatic. Use commercially in cosmetics, vermouth and absinthe. Ht. 1'.

1/128oz	1/16 oz	1/8 oz	1/4 oz	1/2 oz	1 oz
1.55	1.75	2.85	4.60	8.20	15.00



Small Assorted Professional Warted Mix



Lunch Lady



Shenot Crown of Thorns



Harvest Wings F1

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

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

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

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

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

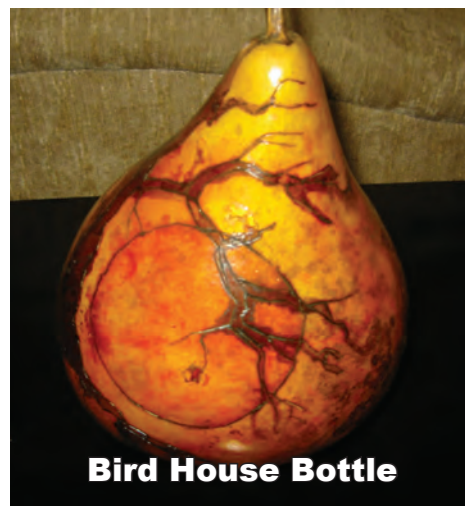
5034U Lunch Lady 110 days. Unique LARGE WARTED gourd mix. Broad range of shapes, colors and patterns, all with sizable fruit in the 3-10 lb. range, all with hard shells and warts. Strong, heavy vines.

5036U Martin Bird House The genuine Martin Bird House, 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 snail, oval base bearing a goose neck with a head at end.



Goblin Eggs



Bird House Bottle

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, Cornucopia.

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

5053U 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.

Cat#	Gourd	1/8 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb
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	2.65	6.25	10.15	35.85	63.45	116.50
5025	Large Assorted	2.15	3.55	5.75	15.15	24.20	42.30
5032	Luffa	3.70	5.20	8.90	27.80	46.15	78.65
5034U	Lunch Lady	2.65	7.20	11.55	37.80	67.25	128.20
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	2.60	6.75	10.75	36.30	64.50	118.30
5060U	Small Assorted	2.45	5.45	6.15	14.80	23.50	41.85
5088	Speckled Swan	2.00	3.00	5.95	16.65	26.15	49.80
Cat#	Gourd (M=1000)	100 sd	500 sd	1000 sd	5 M (per M)		
5019	Goblin Eggs	20.55	76.15	120.60	101.35		



New Red Fire M.I.



Meridian



Buttercrunch

Lettuce (*Lactuca sativa*)

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

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

Butterhead Type

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

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

Cos/Romaine Type

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

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

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

Lettuce Disease Codes

BR	Brown Rib
DM	Downy Mildew
F	Fusarium
TB	Tipburn



Simpson Elite

Iceberg Type

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

Leaf Types

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

3138U Red Sails 40-65 days. Full rosette of intense red foliage, bronzed at tips, extra ruffly and deeply lobed. Flavor is mild, tends to be free of bitter tones. Reaches cutting quality early, but holds well up to cutting. Good shelf life. High content of Vitamins A, C. **Not available until December 2022.**

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

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

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



Vivian



Osterley

Cat#	Lettuce	1/64 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
3108U	Buttercrunch	1.80	2.50	3.50	5.00	8.95	16.25	15.30
3134U	Osterley	1.65	6.40	10.50	37.65	67.30	123.00	115.00
3137	Parris Island COS	2.15	2.80	3.95	5.65	10.15	18.40	17.25
3138U	Red Sails	1.75	4.00	6.50	22.60	39.75	64.25	55.55
3144U	Speckles	1.60	2.60	4.30	15.20	27.00	49.75	46.50
3150U	Tango	1.70	2.35	3.90	14.00	25.00	45.75	42.75
3152U	Vivian	1.60	2.60	4.30	15.20	27.00	49.75	46.50

Cat#	Lettuce (M=1000)	1000 sd	5000 sd	10 M (per M)	25 M (per M)	100 M (per M)
3133	Meridian	5.65	21.25	3.40	2.85	2.50
3132	New Red Fire	1.75	6.60	1.00	0.85	0.75
3142	Simpson Elite	1.60	3.85	0.61	0.51	0.45
3153U	Vulkan	2.15	8.15	1.30	1.15	0.95

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



Blue Knight (Darkibor) F1



Blue Armor (Winterbor) F1



Red Bor F1



Black Magic



Prizm F1

Kale

(*Brassica oleracea*, *Acephala* Group)

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

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

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

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

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

Cat#	Kale	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (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)	10 M (per M)	50 M (per M)	100 M (per M)
3028U	Black Magic	1.75	3.70	3.00	2.50	2.25	2.00
3029U	Blackjack	1.95	14.75	11.90	10.00	8.95	8.20
3032	Blue Armor (Winterbor)	2.15	15.90	12.90	10.85	9.65	8.85
3037	Blue Knight (Darkibor)	2.70	20.60	16.60	14.15	12.50	11.45
3070U	Casper	2.00	9.35	7.55	6.40	5.65	5.20
3051	Prizm	2.90	22.15	17.80	15.15	13.45	12.30
3052	Red Bor	6.00	45.25	36.50	31.00	25.25	23.15
3065	Roulette	1.65	9.60	7.75	6.60	5.85	5.35
3067	Scarlet	1.95	7.00	5.65	4.80	4.25	3.90



Red Russian

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

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

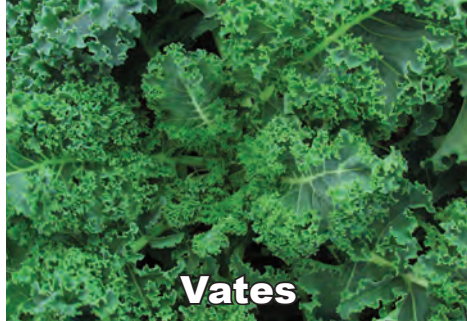
3051 Prizm F1 50-60 days. Densely branching plants sufficiently compact for container cultivation but also adapted to open ground. Short, tightly ruffled foliage is clean green, tightly ruffled and tender. Flavor unusually mild with nutty overtones. Aggressive re-leafing after cut, for early and prolonged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

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

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

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

3067 Scarlet 35-40 days baby leaf, 55-60 days full leaf. Vigorous plant, grows 2-3' tall x 2' wide. 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 long-standing, 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.



Vates



Starbor F1



Autumn Star F1



Zermatt

More Kale

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

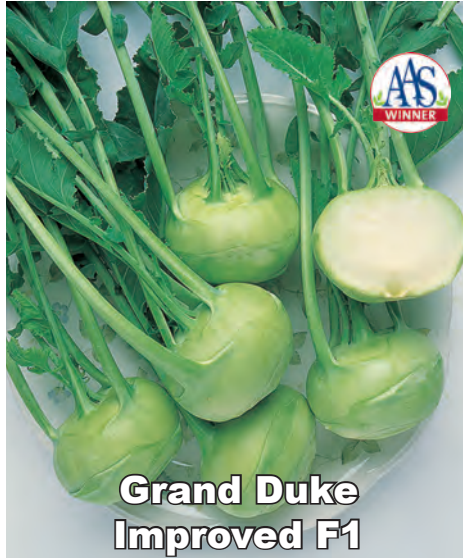
3062U Vates 55 days. Well-known variety with attractive, curled leaves which resist yellowing. Upright hardy plants.

Kalette®

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

Tronchuda Leaf Cabbage

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



Grand Duke Improved F1

Kohlrabi

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



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

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



Konan F1

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 ½" deep, 1-4" apart in rows 16-24" apart. Seeds germ in about 10 days. **Days to maturity are from sowing.**

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

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

Leek Disease Codes

R Rust

Cat#	Kale (M=1000)	100 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)	
3068	Starbor	2.75	20.65	16.60	14.15	12.50	11.45	
Cat#	Kale	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)
3062U	Vates	1.85	2.30	8.15	13.95	25.00	22.90	21.35
Cat#	Kalette® (M=1000)	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	
2211U	Autumn Star	24.20	91.60	147.60	125.20	110.95	101.80	
Cat#	Cabbage (M=1000)	200 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)	
2215	Beira Tronchuda	6.35	23.85	19.15	14.30	13.40	12.95	
Cat#	Kohlrabi (M=1000)	100 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)	
3077	Grand Duke Improved	1.85	3.75	6.15	5.15	4.55	4.20	
3081	Konan	5.95	22.50	36.25	30.75	27.25	25.00	
3080 & 3080U	Quickstar	2.00	6.90	11.20	9.50	8.30	7.70	
3082 & 3082U	Winner Improved	1.85	4.00	6.40	5.50	4.80	4.45	
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	31.90	27.00	24.00	22.00
3099U	Zermatt		2.20	3.60	5.80	4.95	4.35	4.00



Athena F1



Carousel F1



Avatar F1



Duchess F1



Ambrosia F1



Aphrodite F1

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

Melons

(*Cucumis melo*) (Muskmelon)

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



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, Garden.

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

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

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

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

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

Cat#	Cantaloupe (M=1000)	25 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	81.50	79.05	77.15	75.25	73.95
2371	Aphrodite	5.20	13.55	53.20	74.55	72.30	70.55	68.80	67.65
2374 & 2374U	Athena	4.90	12.15	47.80	75.90	73.55	71.80	70.05	68.85
2375U	Avatar	4.35	11.85	46.55	73.90	70.40	66.95	63.45	61.00
2381	Carousel	3.15	8.40	33.00	52.35	49.65	46.35	43.00	40.65
2386	Duchess	3.75	9.75	38.25	57.20	54.30	50.65	47.05	44.45



Infinite Gold F1



Orange Sherbet F1



Rockstar F1

More Eastern Types

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

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

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

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



Goddess F1

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

2429U Minerva F1 78 days. 6-7 lb. 7 x 7.5". Recommended where early size, sugar and holding ability 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 vigorous. 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 0-2, PM 1. Tolerant PM 2. Fresh Mkt, Shipping.

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

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

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



El Gordo F1



Verona F1



Minerva F1



Halona F1

Milan F1

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
2421	Halona	2.75	7.70	30.20	47.95	45.45	42.45	39.40	37.20
2485	Infinite Gold	8.50	22.00	86.55	129.00	122.50	116.00	109.50	104.90
2428	Milan	3.70	9.85	38.60	61.30	58.15	54.25	50.40	47.60
2429U	Minerva	4.00	12.25	50.20	66.30	64.25	62.70	61.15	--
2440	Orange Sherbet	2.70	7.20	28.40	45.05	42.75	39.90	37.05	35.00
2451	Rockstar	3.95	10.30	40.60	64.40	61.10	57.00	52.95	50.00
2479	Verona	3.80	9.95	39.00	61.95	58.75	54.80	50.90	48.10

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

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



Primo F1



Honeycomb F1



Tweety F1



Dove F1



Dulce Nectar F1



Earli-Dew F1



Citrino F1

Western Types

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

Sensation Series

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

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

Orange Flesh Honeydew

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



San Juan F1

Honeydew

2484 Dulce Nectar F1 90 days. 4-6 lbs. Grows well through cool periods and transitions smoothly to warm seasons, providing potential for high yield, low stress, and cropping versatility. Large smooth round oval melons with creamy white rind, light green flesh, medium closed cavity for high weight. Maturity is early main season. Resistant FW 2. Tolerant PM 1,2.

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

2493 Honeycomb F1 78 days. Best disease package to date in an early Honeydew. High quality and uniform. Large 5.5 lb melons with thick, medium firm, very sweet flesh. Creamy white skin, small neat seed cavity & high 11-13% Brix rating. Excellent potential for high yield due to quick maturity and disease package. Several growers we've spoken to have praised its performance. Resistance FW 0-2. 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 F1 75 days. Ultra-early. 5 lb, Ivory colored flesh is sweet, aromatic with spicy tones. Reaches fully sweet stage while still firm and slightly crispy. Rind is very attractive, golden yellow and finely netted, strong vigorous vines. Tolerant FW 0-2, PM 1-2. Fresh Mkt, Shipping.

Canary

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

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

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	15.25	59.85	95.05	90.15	84.10	78.10	73.80
2480	Citrino	3.35	8.70	34.15	52.80	50.30	47.80	45.35	43.55
2484	Dulce Nectar	3.55	9.50	37.45	59.40	56.60	53.80	51.00	49.00
2486	Earli Dew	5.25	15.30	60.20	82.10	79.60	77.70	75.80	74.50
2493	Honeycomb	3.65	11.30	44.30	70.35	67.00	63.70	60.35	58.05
2444	Primo	2.20	5.70	22.50	30.95	30.00	29.30	28.55	28.05
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



Tasty Bites F1



Passport F1

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

Christmas

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

2422 Lambkin F1 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 FW 0-1, Tolerant FW 2. Gourmet Melons.

Crenshaw

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

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



Lilliput F1

Galia

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

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

Personal Size Melons ★

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

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

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



Sugar Cube F1



Lambkin F1



Lilly F1



Oui F1

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	8.15	32.15	51.00	48.35	45.15	41.90	39.60
2473U	Sugar Cube	4.20	11.70	45.90	72.85	69.10	64.45	59.85	56.55
2475	Tasty Bites	5.10	13.30	52.20	82.90	78.60	73.35	68.10	64.35



Jambalaya F1



Savanna F1



Florida Broad Leaf



Clemson Spineless #80



Clemson Spineless #99



Candle Fire



Green Fingers F1



Southern Giant Curled



Tendergreen

Okra (*Abelmoschus esculentus*)

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

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

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

3198 Clemson Spineless #99 50-55 days. OP Prolific & early. 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".

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

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

3202U 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.

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.**

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

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

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

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

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

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

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

Cat#	Mustard	1/32 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)
3167	Savanna	2.00	13.30	45.25	76.70	139.50	118.20	113.95
3177	Tendergreen	1.95	4.15	6.20	10.70	19.15	17.50	16.35

Cat#	Mustard	1/16 oz	1 oz	1/4 lb	1 lb	5 lb (per lb)	10 lb (per lb)
3157U	Florida Broad Leaf	1.60	2.55	3.80	8.15	6.30	4.55
3159U	Green Wave	2.00	4.40	6.45	21.50	19.00	17.50
3162U	Red Giant	1.75	4.40	6.60	22.40	19.85	18.20
3172U	Southern Giant Curled	1.70	2.70	4.00	8.60	6.65	4.80

Cat#	Mustard	250 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)
3161	Mizuna Miz America	1.75	2.50	0.55	0.40	0.30

Cat#	Okra	1/8 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
3191	Candle Fire	5.25	15.45	25.35	91.30	163.15	298.20	278.75
3199U	Green Fingers	5.20	15.15	24.35	86.15	152.60	280.00	--
3200	Jambalaya	3.35	9.75	16.15	57.65	94.25	180.75	173.15

Cat#	Okra	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	50 lb (per lb)
3197	Clemson Spineless #80	1.70	2.00	2.75	4.15	6.15	5.70	5.40	5.15
3198	Clemson Spineless #99	1.75	2.15	2.90	4.25	6.35	5.90	5.60	5.35
3202U	Red Burgundy	1.55	1.75	2.45	4.15	7.35	6.75	--	--



Blush F1



Red Carpet F1



Century F1



Candy F1



Sapelo Sweet F1



Feast

Onion (*Allium Cepa*)

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

Intermediate Day

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

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

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

Long Day

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

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

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

Short Day

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

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

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

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

Bunching Types (Scallions)

3232U Evergreen White 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 (*Allium cepa*) 60 days. Winter hardy type with good capability for both fall and spring harvest. Leafier and milder than many bunching varieties and may produce a small attractive bulb if grown past the usual harvest stage. Can develop into a larger, bolder salad onion, especially if allowed to overwinter into spring growth season.

Cat#	Onion	1/16 oz	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb
3232U	Evergreen White Bunch	1.95	2.95	3.80	10.85	19.15	35.00
3239 & 3239U	Feast	2.50	4.45	10.75	36.75	64.55	116.85

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	5.85	9.30	7.45	6.90	6.30	5.75
3221	Candy	0.75	2.95	4.65	3.75	3.45	3.15	2.95
3223	Cartier	1.65	4.25	6.75	5.40	5.00	4.55	4.20
3226	Century	1.55	3.45	5.45	3.95	3.65	3.35	3.10
3225	Chianti	1.55	3.25	5.15	3.65	3.40	3.10	2.85
3240	Great White	0.72	2.85	4.50	3.60	3.35	3.05	2.80
3246U	Ramrod	1.35	2.00	3.00	2.65	2.40	2.25	2.00
3249	Red Carpet	1.65	5.00	7.95	6.35	5.90	5.35	4.95
3257	Saffron	1.55	2.60	4.15	3.30	3.05	2.80	2.55
3258	Sapelo Sweet (1039)	1.55	2.70	4.30	3.30	3.05	2.80	2.55
3276	White Phantom	1.45	2.60	4.15	3.30	3.05	2.80	2.55



Clancy F1



Walla Walla



Warrior F1



Ambition F1



(Echallion) Creme Brulee F1



Innovator F1

More Bunching Types

(Scallions)

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

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

Pearl Onion

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

Sweet Spanish Types

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

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

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

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

Shallots

Plant shallots at a rate of 14 seeds per foot.

3986 Ambition F1 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.

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

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

Potato

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

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



Cat#	Onion	1/16 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 Walla	2.50	4.55	10.90	38.30	62.40	120.00
3274	Warrior	1.65	2.45	5.85	20.75	36.80	67.50
3277U	Yellow Sweet Spanish	2.50	3.65	6.00	19.55	30.95	47.15

Cat#	Onion (M=1000)	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)	100 M (per M)
3218	Almagro	1.05	4.05	6.45	5.15	4.75	4.35	4.00
3241	Lasso	1.45	3.05	4.80	3.65	3.40	3.10	2.85
3247	Red Baron Bunching	2.20	3.75	6.15	5.15	4.60	3.90	3.55

Cat#	Potato (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)
3701	Clancy	2.45	7.40	29.85	50.70	44.90	41.20

Cat#	Shallots (M=1000)	100 sd	1000 sd	5 M (per M)	10 M (per M)	100 M (per M)
3986	Ambition	1.85	14.00	11.20	9.40	8.15
3983U	(Echallion) Creme Brulee	2.20	16.58	13.26	11.12	9.75
3989	Innovator	2.20	16.49	13.19	11.06	9.70

Onion Disease Codes

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



Javelin F1



Starlett

Parsley (*Petroselinum crispum*)

Approx. 18,500 sd/oz. Pkt plants 30' of row; 1/4 oz sows 100'. Sow 3-4 lbs/acre, 1/4" deep, 4-12" apart in rows 12-36" apart. Germ in about 21 days. **Days to maturity are from sowing.**

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



Triple Curled

3316U Starlett 80 days, depending on sowing season. Very fast crop time and extra dark green "moss-curved" foliage. 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.



Dark Green Italian

Parsnip (*Pastinaca sativa*)

Approx. 12,000 seeds/oz. Pkt plants 30' of row; 1/2 oz sows 100'. Direct-sow 3-5 lbs/acre. Sow seeds 1/4-1/2" 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.

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



QuickPick Pinkey

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.

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

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

1175 QuickPick Pinkeye Non-vining erect bush type habit. Uniform early high yield with pod set well synchronized in clusters of 2 to 3 pods per node, carried high on the plant, above the foliage. Easy harvest by machine or by hand. Straight 8" pods avg 11 peas per pod. Pod matures to dark purple. Fresh peas are green with pink eye, drying to cream with maroon eye. Resistant BLCMV.

Please see prices on pg 46



Mississippi Pinkeye II Purple Hull

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.



Top Pick Pink Eye

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
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	23.65	42.00	38.50	36.00
3312	Triple Curled		1.60	2.00	3.70	4.65	8.30	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	5.80	10.30	9.40	8.80
Cat#	Parsnip (M=1000)	100 sd	500 sd	1000 sd			5 M (per M)	10 M (per M)	50 M (per M)
3335U	Javelin		1.70	1.95	3.25	2.75	2.45	2.25	

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



Super Sugar Snap PVP



Green Arrow



Oregon Sugar Pod II



Mr. Big



Sugar Sprint PVP

Garden Peas (*Pisum sativum*)

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

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

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

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

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

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

Snap Peas (Edible-Podded Peas)

(*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 sativum* var. *saccharatum*)

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

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

Cat#	Cowpea	1/4 lb	1/2 lb	1 lb	5 lb	10 lb	25 lb	50 lb	100 lb
		(per lb)	(per lb)	(per lb)	(per lb)	(per lb)	(per lb)	(per lb)	(per lb)
1164U	Mississippi Pinkeye II Purple Hull	3.60	5.55	8.75	6.95	5.55	4.65	3.75	3.00
1166U	Mississippi Purple Brown Crowder	3.25	5.05	7.95	6.30	5.05	4.20	3.40	2.70
1168	Pinkeye Purple Hull	2.40	3.70	5.85	4.65	3.70	3.10	2.50	2.00
1175	QuickPick Pinkeye	3.55	5.50	8.65	6.85	5.50	4.60	3.70	2.95
1177U	Top Pick Brown Crowder	3.50	5.45	8.55	6.80	5.45	4.55	3.65	2.90
1180U	Top Pick Pinkeye	3.50	5.45	8.55	6.80	5.45	4.55	3.65	2.90

Cat#	Pea	1/4 lb	1/2 lb	1 lb	5 lb	10 lb	25 lb	50 lb	100 lb	500 lb
		(per lb)	(per lb)	(per lb)	(per lb)	(per lb)	(per lb)	(per lb)	(per lb)	(per lb)
1271U	Green Arrow	2.65	4.10	6.40	5.00	4.00	3.50	3.00	2.50	2.15
1312U	Little Purple	7.20	11.15	17.35	13.45	8.15	7.55	7.15	6.90	6.70
1276	Mr. Big	6.80	10.50	16.35	12.85	10.20	8.95	7.65	6.35	5.45
1282U	Patio Pride	15.90	24.55	38.20	30.05	23.85	20.95	17.90	14.90	12.80
1277U	Pea Parsley	1.75	2.70	4.20	3.35	2.65	2.20	1.80	1.40	--
1278U	PLS 595	1.60	2.40	3.75	3.00	2.40	2.00	1.60	1.30	--
1280U	Strike	1.70	2.40	3.75	3.00	2.40	2.00	1.60	1.30	--
1295	Sugar Sprint	5.40	8.35	13.00	10.20	8.10	7.15	6.10	5.10	4.35
1300	Super Sugar Snap	4.70	7.25	11.30	8.90	7.05	6.20	5.30	4.40	3.80
1324U	Oregon Sugar Pod II	2.30	3.55	5.55	4.35	3.20	2.80	2.40	2.00	1.70
1281	Wando	2.40	3.75	6.05	4.90	4.00	2.15	--	--	--

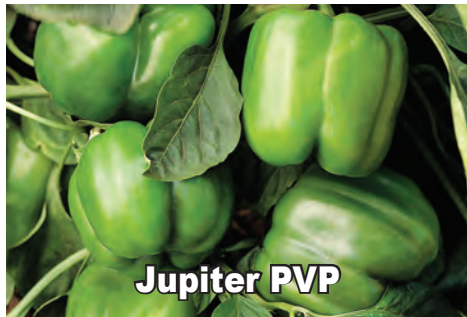
Cowpea/Pea Diseases

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 Bell Peppers

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

Summer Sweet® is a registered trademark of Abbot & Cobb, Inc. All varieties in the Summer Sweet® series are also part of our Professional Seeds Series.



Jupiter PVP



Antebellum X10R® F1

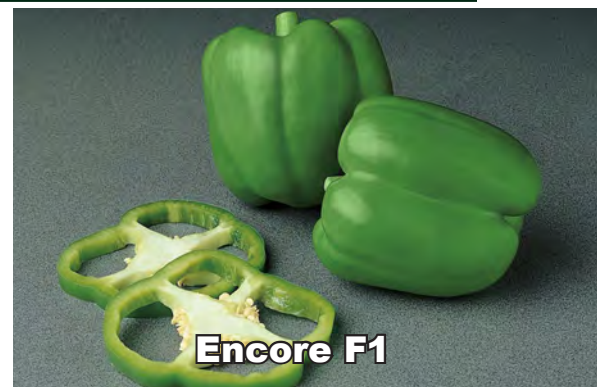


King Arthur F1

Variety	Days	Shape and Color	Disease	Description
3345 Antebellum X10R® F1	74		Resistant TMV; Tolerant BLS 1-10, TSWV	Southeast trials marked this as a must-have for the region. Mostly 4-lobed. Capable of jumbo sizes up to 4.5"-5". No anthocyanin purpling. Dense foliage provides good protection. 22-30" plants. Fresh Mkt, Shipping.
3373 Bayonet F1	70 green, 80 red		Resistant BLS 1-5,7,8,9; TMV, Tolerant TSWV 0	Highly commercial bell with unique traits important to growers. 3.5 x 3.5" fruit sets continuously on 2 ft plants. Open plant structure makes harvest easier. Tight leaf canopy provides good sun cover for fruit. Good tolerance against cold and drought stress. Fresh mkt, Shipping.
3377U California Wonder #300 TMR	74		Resistant TMV	OP. Selected mosaic resistant strain. Avg size 4" x 4". Mostly 4-lobed. Compact 24-28" plants. Fresh Mkt, Commercial.
3394U Chablis F1	60		Resistant BLS, TMV	4" x 3" mostly 4-lobed fruit matures from cream to orange to red, growing ever sweeter. Can be harvested at any of these stages for color pepper. Thick walled. Compact 12" plants. For bedding or pot sales.
3410U Encore F1	50-60		Resistant PMV, PVY 0-2	High % extra-large grade, blocky peppers 5.75" X 5.75" in size. Fruit are firm and smooth. Plant is medium ht, 24" tall and provides very strong foliage cover to protect fruit from sun-scaud. Fresh mkt, shipping, fancy extra-large stuffing.
3425U Golden California Wonder	70			Yellow version of the famous California Wonder 300. Large 5" x 4" thick walled fruit matures light green to golden yellow. Long harvest season.
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	Large fruited Florida Giant type, capable of producing mostly 4-lobed 4.5 x 3 3/4" fruits. Deep green, thick walled. 30" tall plants with pendant habit and thick stems. Capable of continuous harvest.
3472 King Arthur F1	72		Tolerant BLS 2, PVY, TEV, TMV	Large blocky 4.5" x 4.5", 3-4 lobed fruit. Upright habit. Widely adapted. Fresh Mkt, Commercial.

Cat#	Pepper (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3345	Antebellum X10R®	7.60	19.80	77.65	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	5.15	15.80	66.50	116.00	104.00	97.00	92.00	87.50
3410U	Encore	2.80	7.85	30.75	48.85	47.60	46.30	45.00	44.15
3472	King Arthur	5.25	13.45	42.85	57.55	56.00	53.65	51.30	49.55

Cat#	Pepper	1/32 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
3377U	California Wonder #300	2.75	3.15	5.00	18.60	33.25	62.15	58.85	56.00
3425U	Golden California Wonder	2.30	7.45	12.50	45.20	81.55	143.15	123.50	117.45
3467U	Jupiter	2.15	8.15	13.70	49.50	84.00	155.00	144.00	140.00
3468U	Keystone Resistant Giant #3	2.35	6.40	10.30	36.20	65.30	113.60	106.50	102.25



Encore F1

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



PS 09941819 X5R® F1



Summer Sweet® 8610 F1



Orange Sun



Muscato F1



Majestic Red F1



Ninja S10 F1

More Sweet Bell Peppers

Variety	Days	Shape and Color	Disease	Description
3475 Majestic Red F1	75 green, 85 red		Resistant BLS 0-3, 5,7-8; TMV; Tolerant Pc	Fruit can reach 5.5" x 3.5" and avg 4-6 oz, thick walled and meaty. Intense candy apple red at maturity. 2-3 ft. plants provide dense leaf cover for good protection. Widely adapted.
3489U Muscato F1	75		Tolerant TMV	5 x 4", 4-lobed, dark green to orange. Heavy yields of blocky, very thick wall, pendant fruits are produced on vigorous 24" plants with thick stems. Continual bearing, widely adapted.
3492 Ninja S10 F1	75 green, 89 red		Resistant TMV, Tolerant BLS 0-10	Well suited to production where BLS is a concern. High yield potential with mostly 4.5" x 4" diam fruit reported in trial. Thick walls have been measured at .25". Strong plants, good setting ability, full leaf canopy. Very good for Eastern US.
3497U Orange Sun	70 green, 80 orange			Excellent flavor, thick flesh, 3-4 lobed. Avg size is 4-5".
3499 Playmaker X10R® F1	56 green, 70 red		Resistant TMV, Tolerant BLS 0-10, Pc	Northeast trials gave especially high marks for high yield potential, also a standout in NC Mountain areas. Compact 20-24" plants bear concentrated set of heavy, smooth, blocky 8.5-oz fruit, 4" wide x 4.5". Anthocyaninless, so fruit keeps nice, clear color to market. Can be a game-changer for all growers where BLS is present. Worth trying throughout Eastern US.
3500 PS 09941819 X5R® F1	74		Resistant BLS 1-5,7,9; TMV 0, Tolerant Phytophthora	3-4 lobed blocky 5" x 4.5" jumbo bell with super disease pkg. Fruit sets continuously on 22-28" plants. Anthocyaninless gene, so fruit keeps clean color. No dark streaks even under stress.
3502U Purple Beauty	65 green, 70 purple, 80 red			Thick walled, meaty 3-4 lobed fruit with crispy, tender texture. Heavy leaf coverage protects from sun scald.
3524 Samurai S10	70 green, 84 red		Resistant TMV, Tolerant BLS 0-10	Well suited to production where BLS is a concern. High yield potential with mostly 4" x 3.5" fruit in trial. Thick walls measured at .25". Strong plants, good setting ability, good leaf canopy. Very good for Eastern US. Fresh Mkt, Shipping
3572 Summer Sweet® 8610 F1	73 green, 83 yellow		Tolerant BLS 1-3, TMV, PVY	Top quality, deep blocky 4.5" x 5" fruit. Solid, thick-walled, mostly 4-lobed. Very sweet flesh at yellow maturity. Good leaf canopy protection.

Pepper Disease Codes		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)
BLS	Bacterial Leaf Spot & race #'s	3475	Majestic Red	4.00	11.20	44.10	70.00	67.85	66.25	64.60	63.50
N	Nematode	3489U	Muscato	2.00	6.15	24.70	42.25	36.40	31.20	27.30	24.70
Pc	Phytophthora Blight	3492	Ninja S10	5.80	15.25	60.00	95.20	92.30	90.10	87.85	86.35
PMV	Pepper Mottle Virus	3497U	Orange Sun	1.75	2.30	3.55	5.30	4.75	4.45	4.20	4.00
PMMV	Pepper Mild Mottle Virus	3499	Playmaker X10R®	6.25	17.15	67.00	104.35	101.65	97.35	93.15	89.90
PVY	Potato Virus Y & race #'s	3500	PS 09941819 X5R®	8.30	21.60	78.95	102.65	100.00	95.80	91.55	88.50
Stp	Stip	3502U	Purple Beauty	1.60	2.00	2.80	4.20	3.80	3.55	3.35	3.20
TEV	Tobacco Etch Virus	3524	Samurai S10	5.30	15.25	60.00	95.20	92.30	90.10	87.85	86.35
TMV	Tobacco Mosaic Virus & pathogen types	3572	Summer Sweet® 8610	3.90	10.15	39.65	46.55	45.35	44.15	42.95	42.15
ToMV	Tomato Mosaic Virus										
TSWV	Tomato Spotted Wilt Virus										



Sweet Banana



SVPB8415 XR10 F1



**Banana
Bounty F1**



Touchdown F1

















Turnpike X5R® F1



Sweet Sunset X3R® F1

More Sweet Peppers

Variety	Days	Shape and Color	Disease	Description
3603 SVPB8415 X10R F1 	85 days green, 95 days yellow	 	Resistant TMV; Tolerant BLS 1-10	Large, blocky, 4.5" diam thick-walled fruit borne on vigorous 36" plant. Very sweet especially at yellow-ripe stage. High yield potential enabled by broad disease pkg. Color shifts from green to yellow quickly & uniformly and holds well after turning color.
3612U Sweet Chocolate	58 green, 86 chocolate	 		Early medium 3-4 lobed pepper with thick walls and unusual, intense chocolate color at full maturity.
3631 Touchdown F1	70 green, 76 red	 	Resistant TMV 0, BLS 0-5, 7-9	Trials avg. 4.5-6" X 4-4.5" extra large blocky bells. Fruit is thick walled and uniform. Med. sized plants are 24-30", vigorously branched. Tight protective foliage canopy. Continuous setting ability.
3633 Turnpike X5R® F1	55 green, 65 red	 	Resistant BLS 0-5, 7-9, Pc	Large 8-9 oz, 5.5" x 4" fruit. Vigorous 22-26" plants. Strong multi-disease resistance. Excellent hot/humid performance.
Sweet Banana				
3372 Banana Bounty F1	65			Smooth fruits 8"x2" taper to a point. Thick, sweet light yellow flesh. Turns red at full ripe stage. Vigorous 2ft plants; high yield potential. Fresh Mkt, Processing.
3607U Sweet Banana	68			Hungarian wax type. 6"x1.5" with sweet flesh. Bright yellow fruits turn red at maturity. Fresh Mkt, Commercial.
3615 Sweet Sunset X3R® F1  	85		Tolerant BLS 0-3, 7-8	Compact, upright habit with vigorous branching, with high yield potential and concentrated fruit set. Compact plant needs no staking. Grows well in container for greenhouse harvest or bedding plant sales. Early for its class; capable of extended harvest. Fresh Mkt, Processing, Bedding Plant Sales. <i>Southeast, Heartland, West/Northwest.</i>

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	4.95	12.90	47.75	62.80	61.15	58.55	55.95	54.00
3603	SVPB8415	6.55	17.00	66.80	106.00	103.35	98.95	94.55	91.40
3612U	Sweet Chocolate	1.95	3.00	8.15	12.25	10.15	8.55	6.70	5.45
3615	Sweet Sunset X3R®	4.80	14.90	51.45	73.70	71.75	68.75	65.70	63.50
3631	Touchdown	4.00	10.45	41.00	53.90	52.25	51.00	49.75	48.90
3633	Turnpike X5R®	7.90	20.40	74.80	104.35	101.70	97.35	93.15	89.90
Cat#	Pepper	1/32 oz			1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb
3607U	Sweet Banana	2.45			4.35	7.00	24.75	43.95	81.25

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



Mama Mia Giallo F1



Escamillo F1

















Takara F1



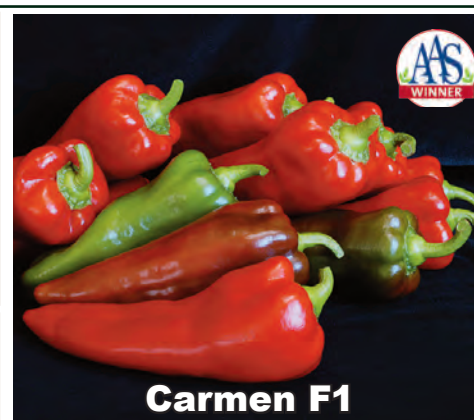
Marconi Red

Sweet Specialty Peppers

Variety	Days	Shape and Color	Disease	Description
3387U Carmen F1 	60 green, 80 red			Classic Italian bull horn shape. 5 oz fruit is 6" x 2.5". Very sweet from first show of red pigment. Upright plant 28" tall x 16" wide. Good protective leaf canopy. Fresh Mkt, Roadside, Garden.
3395 Cherry Pick F1	68 green, 82 red		Resistant TMV	Early. Uniform 1.5". Cherry shaped fruits mature glossy green to bright red. 20" plants with strong stalks, strength and good cover. Concentrated set, easy harvest. Fresh Mkt, Restaurant.
3396U Cornito Giallo F1 	75			Italian frying type with sweet fruity flavor. Cone shaped 6" x 2" peppers avg 5 oz. Nationwide AAS trials reported 25-35 fruits per plant. Plant is 24" tall x 18" wide. Specialty, Restaurant, Garden Center.
3411U Escamillo F1 	77			Italian roasting pepper, also good raw or fried. Fruit are 8" x 2.5" and avg 6 oz. Plant is 24" tall x 18" wide. Fresh Mkt, Specialty, Garden Center.
3426U Grenada F1	75 green, 82 red		Resistant BLS 0-3, 7-8	Long, blocky cubanelle with shallow shoulders and smooth exterior. Plant 2-3 ft apart. Dense protective canopy. Widely adapted. Fresh Mkt, Shipping, Garden Center, Bedding Plants.
3476U Mama Mia Giallo F1 	85		Tolerant TMV	Early, sweet Marconi type. Horn shaped 7-9" long fruit. Avg. weight 2-4 oz. Bushy 24" tall x 20" wide plants can bear 25-30 fruit. Fresh Mkt, Cello, Chef Specialty, Bedding Plant.
3479 Marconi Red	70-91			Fruit up to 12" long x 3" diam at shoulder. Ripens red early. Plant is 24"-30" tall x 24"-30" wide. A choice Italian heirloom. Fresh mkt, Restaurant, Specialty.
3498U Pimiento	65 green, 90 red			Robust plant to 30". High yields of smooth, thick walled heart shaped fruit, 3 x 2.5". Extra sweet when red ripe. Fresh Mkt, Canning.
3509U Right On Red F1	58 green, 65 red			Eye catching. Numerous deep red flat-round 2.5"-3" fruit atop compact 18-24" tall plant. Good in container. Fresh Mkt, Bedding Plants, Containers.
3620 Takara F1	60			Shishito type, much in demand. Some citrusy and some hot fruits on each plant. Dark green, crinkly, 3.5" x 1" with blunt tips, thin walls and tender cavity. Fresh Mkt, Specialty, Restaurant, Garden Center.

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)
3387U	Carmen	6.40	17.95	70.60	112.00	106.25	99.20	92.15	87.00
3395	Cherry Pick	4.90	12.70	46.70	61.30	59.70	57.15	54.60	52.80
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
3509U	Right On Red	3.75	9.90	39.15	58.45	56.25	54.45	53.00	--
3620	Takara	4.80	12.50	46.90	69.45	67.30	65.70	64.10	63.00

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



Carmen F1



Poblano



Sahuaro F1



Arapaho F1

Hot Peppers

Variety	Days	Shape and Color	Disease	Description
Ancho/Poblano				
3487U Mulato Isleno	85-95			Thick, tasty flesh. Full ripe "ancho" stage used for drying. 6" x 3" heart shaped with mild heat. 1000-3000 Scovilles. Fresh Mkt, Rel-lenos, Drying, Salsa, Processing.
3506U Poblano	73			Dinstinctive large heart shaped fruit are peeled and stuffed for chiles relenos 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 F1	80-85		Resistant TMV 0	High yield potential. Extra large, tapering 2-lobed 6.5 x 3.5" fruit, avg 5 oz. Shiny, dark green to red. Mild heat (250-1500 Scovilles). Widely adapted. Good dry weight. Fresh mkt, Drying, Stuffing, Restaurant.
Cayenne				
3397 Arapaho F1	60-65			Long, narrow fruit colors quickly to vibrant red with medium pungency. Compact but robust plant habit. Fresh Mkt, Processing, Shipping.
3393U Cayennetta F1	69			Prolific 3-4" mildly spicy fruit. Compact, bushy plant 24" tall x 20" wide. Good in container. Requires no staking. Hot and cool weather tolerant. Fresh Mkt, Bedding, Container, Ornamental edible.
3392 Cayenne Large Red	74			6-7" x 1.25" fruits with medium, thick hot flesh. Plants avg 24". Fresh mkt. Drying, Processing, Salsa.
Chili				
3342U Anaheim Chili	77			Pungent 7-8" x 1.5" fruit with medium thick flesh. Plants 28-34". Fresh Mkt. Drying, Processing.
3415 Flaming Flare F1	55 green, 65 red		Resistant Tobamovirus P 0	Fresno chili type. Brilliant red triangular fruit, 4" x 1", broad at base, tapering to a pointed tip. 500-1000 Scovilles. Vigorous plant, 2 ft tall x 2 ft wide.
3419 & 3419U Garden Salsa F1	73-75		Resistant PMMV, PVY 0-1	8.5 x 1" mildly pungent fruit, 2500-3500 Scovilles. 28" tall, holds fruit well above ground. Trials noted excellent yield potential. Fresh Mkt, Rings, Salsa.
3424U Giant Ristra F1	80		Tolerant TMV	Very large chili, 6-7" avg length, 4 oz avg weight. Size & long horn shape like Marconi, but very hot at 30,000 Scovilles. Bushy deep green plants, 24" tall x 16" wide. Can produce 15-18 fruit per plant. Fresh Mkt, Processing, Bedding. <i>Mountain/Southwest</i> .
3508 Sahuaro F1	68		Resistant PMV	Large chili, up to 9" long with thick walls. Mildly pungent at 500 Scovilles. Strong plants with dense canopy. Good fruit protection. Trials noted high yield potential. Fresh Mkt.

Cat#	Pepper (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3397	Arapaho	4.25	11.95	46.90	64.40	62.45	60.95	59.45	58.40
3393U	Cayennetta	14.15	36.55	143.75	93.25	90.85	88.40	86.00	84.30
3415	Flaming Flare	5.25	13.65	51.65	69.50	67.70	64.80	61.95	59.85
3419 & 3419U	Garden Salsa	5.25	13.65	45.70	60.00	58.45	55.95	53.50	51.65
3424U	Giant Ristra	1.55	4.70	19.75	34.30	30.95	28.85	27.30	26.00
3508	Sahuaro	5.55	14.50	51.70	68.65	66.85	64.00	61.20	59.15

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	1.95	3.95	6.35	22.50	39.90	73.15
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



Garden Salsa F1

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



Hot Sunset X3R® F1



Jalafuego F1



Habanero



Felicity F1



Emerald Fire X3R® F1



Paquime F1



Jalepeño M

More Hot Peppers

Variety	Days	Shape and Color	Disease	Description
Habanero				
3398 Chicken Itza F1	115-120		Resistant Tobamovirus	Classic crinkled fruit 2.5" x 1.25", firm walled and medium large. Hybrid habanero with more robust plant than OP. 15,000-18,000 Scoville units.
3427U Habanero	90			Wrinkled, thin walled 1" x 2" fruit, tapering to a point. Extremely pungent at up to 200,000 Scoville units. Fresh Mkt, Processing.
3512 Roulette F1	85			HEATLESS Habanero. All the flavor with no heat. Tests nationwide noted no off-types. Handsome erect 3.5 ft plant bears 100 or more 1 oz (3" x 1.5") fruit over long harvest season.
Hot Banana				
3436 Hot Sunset X3R® F1	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 ft plants can yield an avg of 15-20 fruit. <i>Great Lakes, Heartland, Southeast.</i>
Jalapeño				
3409 Emerald Fire X3R® F1	55 green, 65 red		Resistant BLS 0-3,7-8	Mega 1 oz jalapeño, 4" x 1.5", with thick walls and bullet shape. Very little checking. Good heat even at green stage. 1300-2000 Scovilles. Vigorous 2 ft x 2 ft plants.
3412 Felicity F1				Heatless Jalapeño. Lots of flavor, no heat. Continuous fruit set for potentially high yields of thick walled large fruits. 18-24" plant is semi upright & medium strong.
3450U Jalafuego F1	70		Resistant BLS 1-3, PMV, PVY 1-2	High percentage of long jumbos. Gives good length even under stress. Large, smooth, thick-walled fruit avg 3" x 1". Quite hot (4000-6000 Scovilles). Vigorous plant with broad disease pkg enhances potential for high yield. Fresh Mkt. Shipping, Poppers, Processing.
3462U Jalepeño M	72			Bright red fruits 3.5" x 1.5" with thick, pungent flesh. Upright plants 26"-36". Fresh Mkt. Processing.
3496U Paquime F1	50-70		Resistant PMV 0, Tolerant N	Very large thick-walled. Fruit 4.75" L x 1.5" W at shoulder. Vigorous 24" plants set fruit high in plant, provide strong sun cover. Fresh mkt, Shipping, Poppers.

Pepper Disease Codes		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)
BLS	Bacterial Leaf Spot & race #'s	3398	Chichen Itza	6.70	17.50	66.65	66.90	65.20	62.40	59.65	57.65
N	Nematode	3409	Emerald Fire X3R®	5.15	13.25	50.15	69.15	67.30	64.45	61.60	59.50
Pc	Phytophthora Blight	3412	Felicity	2.80	7.30	28.35	43.45	42.10	41.10	40.10	39.40
PMV	Pepper Mottle Virus	3436	Hot Sunset X3R®	5.35	13.70	52.35	69.00	67.20	64.35	61.50	59.40
PMMV	Pepper Mild Mottle Virus	3450U	Jalafuego	3.80	9.95	39.20	50.95	49.40	48.25	47.05	46.25
PVY	Potato Virus Y & race #'s	3496U	Paquime	3.20	9.00	35.25	55.90	54.45	53.00	51.55	50.55
Stp	Stip	3512	Roulette	5.45	14.45	56.90	85.65	81.45	77.25	73.75	--
TEV	Tobacco Etch Virus										
TMV	Tobacco Mosaic Virus & pathogen types	Cat#	Pepper								
ToMV	Tomato Mosaic Virus	3427U	Habanero			5.00	22.45	36.20	115.85	152.90	278.00
TSWV	Tomato Spotted Wilt Virus	3462U	Jalapeño M			2.30	4.50	7.00	25.20	44.70	81.70



Spicy Slice F1



Cocula F1



Flaming Jade X3R® F1



Pathfinder F1



Thai Hot Culinary

More 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, 4.5" x .8". Excellent slicer with high L/D ratio, blunt cylindrical shape and firm texture. Stays smooth and clean well into maturity. Slow to check. Medium pungency, good flavor. Widely adapted. Vigorous prolific plants provide good cover.
3622U Tam Jalapeño #1	85			For those who enjoy the flavor of jalapeños with less heat. Fruit is 3" x 1" and plant is 24" tall. Perfect for pickling or salsa.
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 F1	75 green, 80 red		Resistant PVY 0, Tolerant Pc	Concentrated set of cylindrical fruit, slightly tapered at tip. Medium thick walls. Mildly pungent at 800-1000 Scovilles. Fresh Mkt, Processing.
3416 Flaming Jade X3R® F1	75		Resistant BLS 1-3, 7-8, N, Tobamovirus	Very hot cylindrical 4" x 1" fruit average 0.75 oz. Vigorous plants 2 ft tall x 2 ft wide. High yield noted in nationwide AAS trials. Avg 60-65 fruit per plant. Fresh Mkt, Specialty, Garden Ctr, Processing. <i>Heartland/Great Lakes.</i>
3495 Pathfinder F1	60-75		Resistant BLS 0-3, 7, 8	Abundant, shiny deep green serranos, 4.5" to 5" long x 0.25" diam, borne on strong, compact 18-24" plants. Well adapted to both hot and cool weather. Capable of big crops in less space. Dense foliar canopy offers excellent protection against sun scald and helps the fruit stay smooth and shiny green over long season. Fresh mkt, shipping, processing.

Cat#	Pepper (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3404	Cocula	4.95	12.95	51.50	60.35	57.40	54.35	51.90	--
3416	Flaming Jade X3R	5.25	13.65	47.65	59.65	58.15	55.70	53.20	51.40
3495	Pathfinder	2.80	7.30	28.70	45.55	44.20	43.15	42.10	41.35
3534	Spicy Slice	4.60	12.00	47.00	61.40	59.55	58.10	56.70	55.70
3625U	Thai Hot Culinary	1.65	2.60	10.75	18.70	16.80	15.70	14.85	14.15

Cat#	Pepper	1/32 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb
3622U	Tam Jalapeño #1	1.85	3.40	5.45	19.40	34.45	63.15

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



Cajun Bell F1



Buffy F1

Specialty Hot Peppers

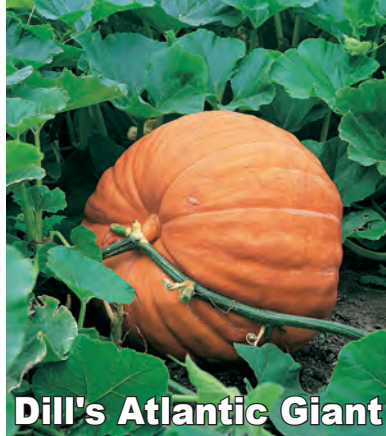
Variety	Days	Shape and Color	Disease	Description
3380U Buffy F1	70			Capsicum frutescens. Deep green to red. Beautiful, fiery pepper with delicious aromatic undertones scored high in nationwide trials. Fruit are hot with great flavor, very thick walls. Robust plants 18-25" tall x 25" wide bore 250-280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



Ghost (Naga Jolokia)

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	2.00	7.35	11.85	36.85	63.00	105.75
3507U	Red Cherry Large Hot	1.75	4.20	6.70	23.60	41.80	77.75
3617U	Tabasco	1.75	11.45	18.45	65.25	115.65	212.15

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)
3380U	Buffy	2.25	6.90	28.90	50.15	45.20	42.20	39.90	38.00
3371U	Cajun Belle	4.00	12.25	49.30	83.65	74.15	68.00	--	--
3420	Ghost (Naga Jolokia)	3.25	11.00	51.00	85.50	75.00	--	--	--
3434	Holy Mole	4.50	13.65	46.00	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	6.60	17.15	49.15	78.00	76.00	72.80	69.55	67.20
3638	Witch Stick	2.90	8.70	35.25	60.00	53.00	48.50	--	--



Dill's Atlantic Giant



Early King F1



Howden Biggie PVP



Early Giant F1

PUMPKINS (Cucurbita Pepo)

About 100-200 sd/oz. large seeded; approx. 200-300 sd/ oz. small seeded. Hybrid packets contain 15 seeds; OP packets produce 10 hills; 1/2 oz sows 100' of row. Sow 1lb/acre. Sow 1" deep, about 3 ft. apart in rows 7.5 ft. apart. Germ in about 7 days. **Days to maturity are from sowing. For Pumpkins designed to reach 30 lbs or more: to maximize fruit weight, provide wider spacing. Up to 75 sq. ft. per plant for show size pumpkins.**






Big Moose



New Moon F1




Captain Jack F1

GIANTS - Display or Competition	Days	Weight	Shape	Color	Disease	Description
3735U Big Max	120	100	Round	Pink Orange		OP. Prize winning up to 100 lb. fruit. Distinctive pinkish-orange rind. Bright yellow-orange flesh. Good cooking quality. Fresh Mkt, Harvest Fairs, U-Pick.
3738 Big Moose	120	50-125	Round	Red Orange		OP. Giant Jack-o-Lantern with yield almost like a hybrid. Fruit size ranges 50-125 lbs. Uniform size & shape. Jack-O'-Lantern, Cornucopia, Harvest Fairs.
3766U Dill's Atlantic Giant	120	100-600	Round	Classic Orange		OP. Capable of producing giant show pumpkins in the range of 100-600 lbs. Slightly rough, nicely ribbed rind. Large vine.
LARGE - Jack-O'-Lanterns						
3751 Captain Jack F1	100-110	30+	Howden	Deep Orange	Tolerant 	Thick flesh & flat bottom enable fruit to stand on its own & not collapse under its own weight. Medium deep ribbing. Thick embedded handle. Vigorous vines support several fruits.
3763 Early Giant F1	95	25-30	Howden	Deep Orange	Tolerant 	Early, mostly tall face shaped fruit. Imposing brow and wide flat base make it a premium carving variety. Deeply ribbed. Earliness means more chances to make the sowing window for Halloween mkts. Full, strong vine supports growth of sizeable fruit.
3767 Early King F1	90	25-30	Tall Round	Deep Orange	Tolerant 	Very early with PM trait. Round to slightly tall fruit are great for carving. Earliness provides more chances to make the sowing window for Halloween markets. Full heavy vine supports large fruit development. Smooth ribbed orange globes with broad stable base and thick dark carrying handle.
3794 Howden Biggie PVP	115	40	Howden	Deep Orange		OP. Capable of extra large classic shaped fruit. Raised from elite stock seed Durable scratch resistant skin. Firm thick flesh. Sturdy handles.
3813 Large Marge F1	105	30-40	Round	Deep Orange		Very large round pumpkin. Capable of multiple fruit set per plant while maintaining large size. Avg size is 30-40 lb and 13"x 13" diam. Exterior is deep orange, ribbed and wrinkled. Very strong & large dark green embedded handle, about 5" long, supports fruit size well. Vigorous indeterminate vines. Not available until June 2022.
3837 New Moon F1	80-90	25-35	Round	White		White flesh & rind is a breakthrough in appearance in the novelty pumpkin. Uniform 16" diameter. Firm flesh holds for weeks but fades to ivory over time.

Cat#	Pumpkin	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)
3735U	Big Max	2.65	6.25	13.00	20.40	31.15	25.40	18.55	16.50
3766U	Dill's Atlantic Giant	6.40	18.75	65.55	113.85	205.25	191.50	181.15	172.50

Cat#	Pumpkin (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3738	Big Moose	15.35	47.15	197.35	343.35	309.85	288.70	273.15	259.70
3751	Captain Jack	5.80	15.75	61.85	98.15	95.95	92.50	89.00	86.45
3763	Early Giant	5.50	14.95	58.75	93.30	86.50	80.20	73.95	69.55
3767	Early King	4.70	12.30	48.25	70.00	67.35	65.15	62.90	61.35
3794	Howden Biggie	10.15	31.45	132.75	228.15	185.60	178.80	173.75	165.20
3813	Large Marge	5.85	15.75	61.85	98.15	95.95	92.50	89.00	86.45
3837	New Moon	14.85	38.70	152.00	226.80	215.35	203.95	192.50	184.45

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

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



Camaro PMR F1



Hulk F1



Howden



Mustang PMR F1

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



Super Moon F1

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)
3755U	Connecticut Field	1.75	2.55	4.60	8.00	14.45	13.45	12.75	12.15
3795U	Howden	1.70	2.50	6.40	11.20	20.15	18.25	15.15	12.90
3896	Super Moon	6.50	18.90	61.95	98.25	98.45	91.90	85.95	81.00

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)
3749	Camaro PMR	5.90	15.25	60.00	74.25	71.45	68.15	64.85	62.45
3770	Early Prince	5.60	15.20	59.85	94.95	88.05	81.65	75.30	70.80
3798	Hulk	6.05	15.75	61.95	98.30	96.10	92.65	89.15	86.60
3811	Jason	5.20	15.90	62.35	95.60	88.60	82.20	75.75	71.30
3832	Mr. Wrinkles	4.85	13.05	51.35	81.55	79.75	76.85	73.95	71.80
3834	Mustang PMR	5.90	15.25	60.00	74.25	71.45	68.15	64.85	62.45
3899	Ugly Mugly	4.10	10.65	41.80	66.40	61.55	57.05	52.60	49.50



Hobbit PMR F1



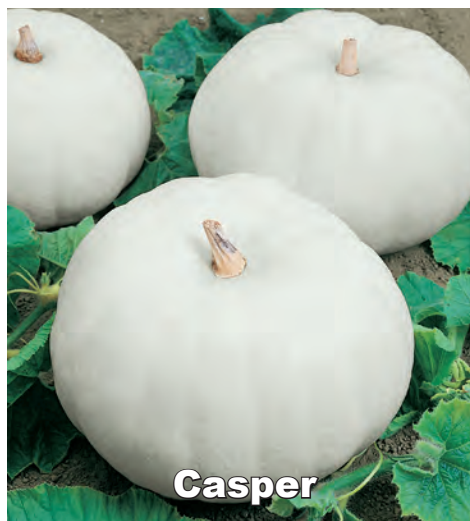
Lumina



Corvette PMR F1








Dark Knight F1



Casper



Cougar PMR F1

LARGE - Jack-O'-Lanterns	Days	Weight	Shape	Color	Disease	Description
3750U Casper 	90	10-15	Round	White		OP. Improved to minimize bluing under stress, which affects some white pumpkins. Thick orange interior. Distinct tan, corky handles. Good for eating. Fresh Mkt.
3758 Corvette PMR F1 	110	11-14	Round	Classic Orange	Resistant 	Slightly ribbed with very strong handle attachment. Semi-bush habit and strong disease package improve chances for plenty of pumpkins.
3759 Cougar PMR PVP F1	80	10-12	Round	Classic Orange	Resistant 	Earliest of the PMR series. Nice ribbing and strong, dark green handles. Vigorous large vines. Earliness allows for later sowing toward the Halloween mkt window and/or better insurance against bad weather at the end of season.
3764U Dark Night F1	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 F1	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.

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	3.15	9.25	32.20	56.15	101.20	94.60	90.20	85.80
3790	Hobbit PMR	17.75	51.45	168.60	267.50	153.15	142.95	133.65	126.00
3815	Lumina	4.80	14.20	49.65	86.75	122.80	115.45	112.90	110.40

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	4.20	12.45	49.85	83.60	73.35	--	--	--

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



Cinderella's Carriage F1



Neon F1



Darling F1



Early Abundance F1





Rouge Vif d'Etampes



Autumn Gold F1

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 F1	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 F1	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 F1 	100	7-9	Round	Classic Orange	Tolerant 	Consistent, square shouldered shape great for carving. Medium ribbing. Dark green durable handles are good for carrying. Vigorous vines up to 15'.
3835 Neon F1	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 F1 	100	23-33	Flat Round	Red Orange	Tolerant 	First hybrid Cinderella pumpkin. Magical, luminous reddish-orange with higher yield than OP varieties, up to 5-7 per plant. Tested well across many areas of the US. Sweet, nutty, yellow flesh. Cornucopia, Jack-O'-Lantern, Culinary. Southeast, Great Lakes, Mountain/Southwest.
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.



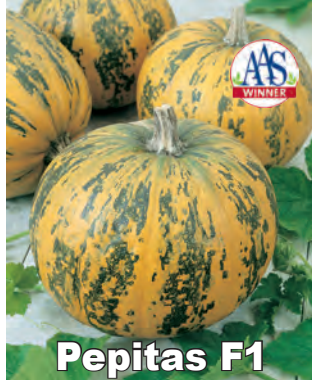
Hijinks F1

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)
3720	Autumn Gold	6.00	14.65	48.00	65.70	105.25	98.30	91.90	86.60
3754	Cinderella's Carriage	7.00	17.15	55.95	88.90	98.45	91.90	85.95	81.00
3780U	Halloween in Paris	3.65	10.70	37.45	65.15	117.60	109.20	103.60	98.00
3880U	Rouge Vif d'Etampes	2.00	5.80	20.75	35.85	65.00	48.50	41.65	38.35

Cat#	Pumpkin (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	25 M (per M)	50 M (per M)
3761	Darling	5.80	16.20	63.75	101.15	93.80	87.00	80.20	75.45
3762	Early Abundance	5.50	15.00	59.05	93.70	86.90	80.60	74.25	69.90
3788	Hijinks	5.35	14.10	55.50	88.10	86.10	83.00	79.85	77.60
3835	Neon	4.00	10.50	41.25	58.15	55.95	53.35	50.80	48.90



Baby Bear PVP



Pepitas F1



Goosebumps F1



Snowball F1



Sanchez




Grey Ghost F1



Sunlight F1

DECORATIVE & CORNUCOPIA	Days	Weight	Shape	Color	Disease	Description
3725 Baby Bear PVP 	105	1.5-2	Round	Classic Orange		Irresistible baby pumpkins, sized for children's hands. Shallow ribs. Vining plants produce 8-10 fruits. Good for pack sales. Fresh Mkt, Carving, Painting, Pie.
3778 Goosebumps F1	95	8-12	Round, Warty	Classic Orange		Eerie appearance, heavily encrusted with warts. Attracts a lot of attention. Hard, durable warts resist damage in handling. Warts start green and mature to orange or tan. In some conditions, warts may stay green longer than the rest of the pumpkin. 1-3 fruit per plant, sometimes 4 under favorable conditions.
3779U Grey Ghost F1	95-100	11-17	Round	Grey	Tolerant 	Grey rind & deep orange flesh. Early maturity. Very good flavor. Fruit shape slightly flattened & smoothly ribbed. Outstanding storage potential.
3850 Pepitas F1 	90	9-12	Round	Golden w/ Green Streaks	Tolerant SRR 	Dual use: hullless 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, Warty	Classic Orange		OP. Totally warty, squatty fruit. Very cool novelty pumpkin. Vigorous full vine. May contain 3% longer off-types.
3893 Snowball F1	85-90	2-4	Round	White		Smooth pure white fruit with contrasting deep green handles. Vigorous vines with potential for 10 or more fruits under favorable conditions.
3894 Sunlight F1	90	8-10	Round	Yellow	Tolerant 	Matures to intense bright yellow. Children have been seen making a beeline to this pumpkin, attracted by the cheerful color. Deep green handle. Semi-bush habit. Fresh Mkt, Cornucopia, Roadside, Shipping, Home Garden.

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)
3850	Pepitas	7.85	19.10	62.50	61.45	98.45	91.90	85.95	81.00
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)
3725	Baby Bear	1.75	4.20	17.20	29.85	27.00	25.20	23.85	22.70
3778	Goosebumps	6.35	18.70	73.60	116.80	108.30	100.45	92.60	87.10
3779U	Grey Ghost	4.40	11.45	45.00	60.20	55.80	51.75	47.70	44.90
3892	Sanchez	3.60	11.00	46.00	80.15	71.80	67.65	63.45	60.35
3893	Snowball	6.65	17.30	68.00	107.95	100.10	92.85	85.60	80.50
3894	Sunlight	6.65	18.70	73.60	116.80	108.30	100.45	92.60	87.10

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

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



Casperita F1



Jack Be Little








Wee-B-Little



Gooligan F1



Batwing

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 F1	85	4-8oz.	Flat Round	Classic Orange	Tolerant 	Mini pumpkin with PM tolerance. Deeply ribbed. Cute & very productive. Small seeded, about 300-400 per oz. Semi-bush habit. Cornucopia, Decoration.
3753 Casperita F1	77	8oz.-1lb.	Round	White	Tolerant WMV, 	Beautiful for cornucopia as mini white pumpkin. Deeply ribbed. Edible sweet golden flesh comparable to acorn squash. Semi bush habit. Mini-White, Face Painting, Cornucopia, Table Squash, Fresh Produce, Shipping.
3777U Gooligan F1	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 	Small round sugar pie pumpkin. Excellent for cooking, crafts or carving.
3797U Hooligan F1	95	4oz.	Flat Round	Bicolored Orange	Tolerant 	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 F1	85	1.5-2.5	Round, Warty	Classic Orange		Aptly named, hand-sized pumpkin covered in warts and bumps. Semi-hard shell. Embedded handle for easy carrying. Bush habit allows close spacing and works well in gardens. Warts may disappear in stressed growing condition. Fresh Mkt, Cornucopia, Roadside, Shipping, Home Garden.
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.



Hooligan F1

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)
3727U	Batwing	3.60	12.00	42.50	74.00	132.00	124.00	115.00	111.00
3747	Bumpkin	8.80	21.40	70.20	111.35	142.15	132.65	124.00	116.95
3777U	Gooligan	8.00	19.50	63.85	101.35	142.15	132.65	124.00	116.95
3782	Harvest Prince	6.90	16.80	55.05	87.35	87.50	81.70	76.40	72.00
3797U	Hooligan	8.00	19.50	63.85	101.35	142.15	132.65	124.00	116.95
3800U	Jack Be Little	1.70	5.00	17.50	30.40	53.25	36.90	33.65	31.65
3900U	Wee-B-Little	4.40	13.40	45.75	78.00	133.00	102.00	88.00	80.00
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)
3753	Casperita	4.25	12.35	48.50	77.00	71.40	66.20	61.05	57.40
3897	Toad	7.25	18.75	73.65	113.25	110.75	106.70	102.70	99.75



Crunchy Delight F1

Radish *(Raphanus sativus)*

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

Salad Types

3915 Altabelle 26 days. Bright red, medium large globe shaped roots. Very good color retention. Dark green, medium tall tops are highly tolerant to leaf diseases for fresh mkt pack. Resistant FY. Tolerant DM, RZ. Fresh Mkt, Cello Pack, Bunching.

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

3925 Cherriette F1 23 Days. Cherry Belle type. Bright cherry-red, crisp flesh, pith free, globe shaped. Bred for increased uniformity and marketable yields. When growing blended color radish, avoid thinning, as 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 F1 Large round scarlet red summer radish with clean, bright white interior. Roots and plants very uniform. Upright medium size plant. Roots maintain crispy texture well into large size range. Fresh Mkt., Bunch, Cello, Slicing.

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

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

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

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

Radish Disease Codes

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



Tae Baek F1



Crayon Colors Mix

Daikon Types

3920 April Cross F1 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 F1 50 Days. For late spring/summer planting. Large, uniform pure white roots that are up to 16" x 2.5". Very mild, sweet and juicy. Excellent raw, in salads or Asian dishes. Heat tolerant. Resistant FW.

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

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

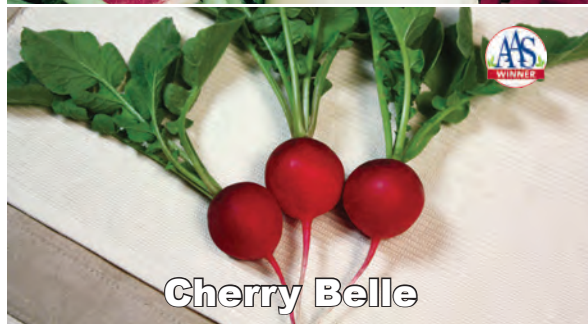
3965 Tae Baek F1 70 Days. Best suited to late summer planting. Short, blunt white roots tinged green weigh about 2 lbs each; very firm and uniform. Highly tolerant CMV, DM, and bacterial soft rot, Stores well, to 4-5 months. Kimchee, Fresh Mkt.



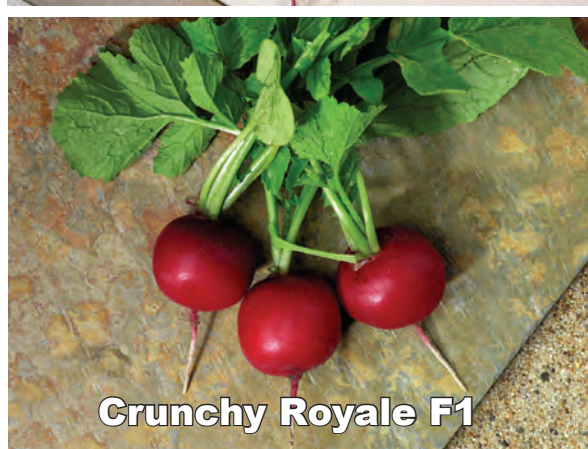
Minowase Summer Cross #3 F1



Watermelon



Cherry Belle



Crunchy Royale F1

Cat#	Radish	1/16 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
3955 & 3955U	Minowase Summer Cross #3	2.00	11.40	18.70	67.40	119.55	206.50	192.45
3962	New White Spring	2.75	11.95	19.70	70.50	126.45	231.85	215.60
3961	Relish Cross	2.55	12.15	19.85	68.15	122.65	223.80	207.80

Cat#	Radish	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
3915	Altabelle	1.55	3.00	5.35	9.25	16.55	15.15	14.15
3930 & 3930U	Cherry Belle	2.00	3.30	3.85	5.35	9.60	8.80	8.00
3934U	Crayon Colors Mix	1.65	1.75	6.00	10.35	18.45	16.80	15.75
3950	Hailstone	2.65	4.70	5.60	10.15	16.90	15.45	14.40
3969U	Watermelon	1.65	2.40	8.00	13.55	24.00	22.00	--
3970U	White Icicle	1.90	3.20	4.00	5.15	8.60	7.85	7.35

Cat#	Radish (M=1000)	500 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	10.20	9.60	9.10
3925	Cherriette	1.70	2.45	1.95	1.40	1.30	1.25
3937	Crunchy Delight	1.60	2.45	1.95	1.60	1.50	1.40
3935	Crunchy Royale	1.75	2.70	2.15	1.40	1.30	1.25
3965	Tae Baek	4.15	6.30	5.00	3.85	3.65	3.45



Bright Lights

Spinach (Spinacia oleracea)

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

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

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

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

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

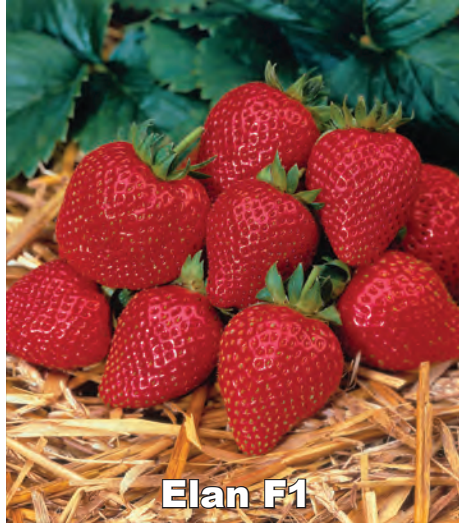
4007 Reflect F1 38 Days. Tremendous broad DM package. Deep green, round semi-savoy leaves for all seasons, fall summer and spring cropping. Suitable for whole fresh bunching, baby or clipped. Strong disease package promotes good yield potential. Improved replacement for Regiment. Resistant DM 1-11, 13, 15.

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

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

Spinach Disease Codes

DM Downy Mildew



Elan F1

Strawberry

(Fragaria x ananassa)

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

4325 Elan F1 120-150 days from sowing. 8-12" trailing; 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; 1/2 oz sows 100'. Direct sow 5 lbs/acre. Sow sd 1/2" deep, 12-15" apart in rows 24-36" apart. Open Pollinated. Germs in about 8 days.

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

4333U Eldorado 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 to 2.5" across.



Plymouth F1



Bloomsdale



Reflect F1

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

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

Cat#	Spinach (M=1000)	250 sd	2500 sd	10 M (per M)	50 M (per M)	200 M (per M)	500 M (per M)	1000 M (per M)
3999U	Bloomsdale	2.15	3.90	0.80	0.70	0.60	0.55	0.50
4000	Countryside	1.65	2.20	0.70	0.60	0.55	0.50	0.45
4005U	Imperial Star	1.65	2.50	0.80	0.70	0.55	0.50	0.50
4006	Plymouth	1.55	2.55	0.84	0.72	0.64	0.59	0.55
4007	Reflect	1.60	2.15	0.70	0.60	0.50	0.45	0.40
4011	Seaside	1.70	2.25	0.75	0.65	0.60	0.55	0.50
4015	Space	1.70	2.40	0.75	0.65	0.60	0.55	0.50

Cat#	Strawberry (M=1000)	10 sd	50 sd	100 sd	1000 sd	5 M (per M)
4325	Elan	5.35	20.85	29.75	256.65	217.50

Cat#	Swiss Chard	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
4333U	Eldorado	1.85	4.00	7.90	13.25	22.95	20.70
4334U	Fordhook Giant	1.90	2.60	3.65	4.95	8.15	7.45
4339	Rhubarb	1.80	3.15	5.40	9.20	15.35	14.35

Cat#	Swiss Chard (M=1000)	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)
4329U	Bright Lights	1.95	4.55	7.30	6.20	5.50	5.00
4335U	Peppermint	1.65	3.60	5.90	4.95	4.35	4.00



Delta F1



Mabel F1

Summer Squash

(Cucurbita Pepo)

Approx. 120-400 sd/oz. Packet contains 25 sd; ½ oz sows 100' of row. Direct-sow 2-6 lbs/acre. Sow sd 1-2" deep, 24-48" apart in rows 36-60" apart. Germs in about 7 days. **Days to maturity are from sowing.**

Crooknecks

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

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

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

Straightnecks

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



Fortune F1



Grandprize F1

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

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

4098 & 4089U Lioness F1 50 days. Main season. Yellow straightneck, 7" x 2" with medium bulb. High quality fruit. Extremely high yield potential due to very strong disease package. Mid-size bush with good vigor and potential for long harvest window. Tolerant PRSV, WMV, ZYMV. Fresh Mkt, Shipping.

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

Squash Disease Codes

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



Gentry F1



Superpik F1



Enterprise F1



Lioness F1

Cat#	Squash (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)
4058	Delta	1.70	4.05	16.15	22.50	21.30	20.00	18.90
4070	Enterprise	2.20	6.10	24.20	38.75	36.60	34.45	32.65
4077	Fortune	2.00	5.20	20.80	33.45	31.55	29.70	28.25
4079 & 4079U	Gentry	1.95	5.35	21.30	34.10	32.25	30.35	28.75
4095	Grandprize	3.90	10.65	42.30	67.80	64.05	60.25	57.15
4098 & 4098U	Lioness	6.85	18.15	71.75	104.70	97.30	89.90	83.70
4100	Mabel	2.40	6.25	24.70	39.60	36.80	34.00	31.70
4173 & 4173U	Superpik	3.15	8.00	31.65	50.80	47.15	43.60	40.55



Paycheck F1



Grinch F1



Payroll F1



Obsidian F1



Noche F1



Ambassador F1



Emperor's Jade F1

Green Zucchini

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



Mkt.

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



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

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

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

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

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

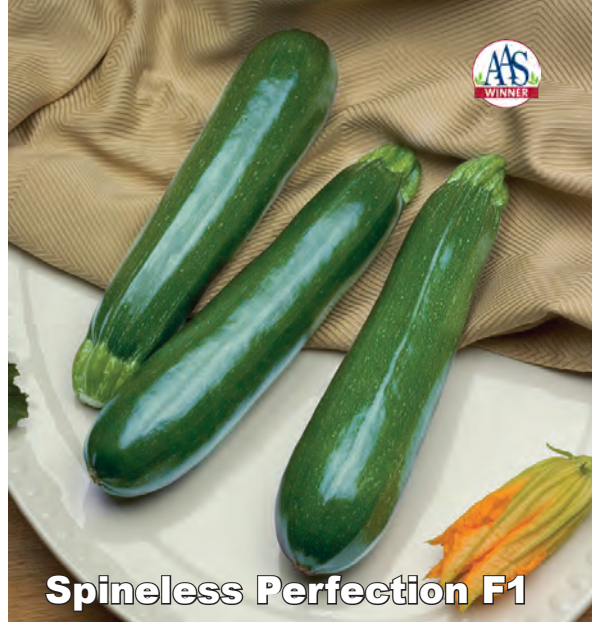
Cat#	Squash	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
4068U	Emperor's Jade	1.55	7.25	24.00	28.80	56.30	54.60	53.20
Cat#	Squash (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)
4035 & 4035U	Ambassador	4.65	12.15	48.15	64.50	60.75	57.00	53.90
4096	Grinch	4.10	10.70	42.45	68.05	63.25	58.45	54.45
4103	Noche	3.75	10.45	41.55	66.55	62.85	59.20	56.10
4105	Obsidian	2.60	6.80	27.05	43.30	40.25	37.20	34.65
4119	Paycheck	4.25	13.05	51.70	82.85	78.25	73.65	69.85
4120 & 4120U	Payroll	4.65	12.50	49.55	79.40	75.00	70.60	66.95



Scallop Yellow Bush



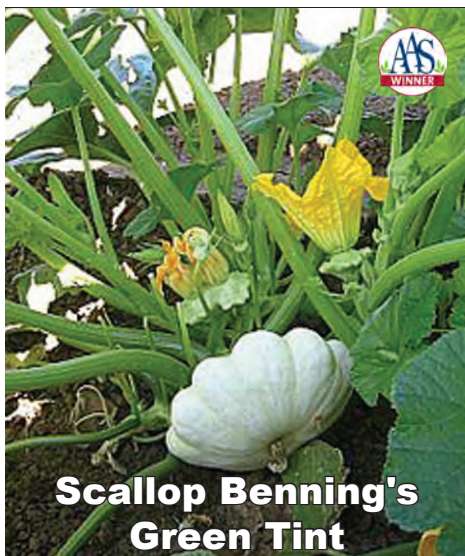
Eight Ball F1



Spineless Perfection F1



Total Eclipse F1



Scallop Benning's Green Tint



Spineless Beauty F1



Senator F1



Sunburst F1

Summer Novelties

4065 Eight Ball F1 45 days. Highly productive zucchini with round medium dark green skin color. Excellent plant vigor and uniform fruit weighing 1-1.5 lbs. Strong plant with open bush habit. Commercial, Fresh Mkt.

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

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

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

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

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

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

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

Cat#	Squash	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	2.25	13.20	44.15	39.00	75.30	72.15	--

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	53.50	50.75	47.65	45.00
4156	Senator	4.00	12.40	43.70	55.60	52.35	49.15	46.45
4160	Spineless Beauty	2.60	8.15	32.90	53.80	45.35	--	--
4161 & 4161U	Spineless Perfection	4.40	11.90	47.25	75.75	71.55	67.35	63.85
4165	Sunburst	3.15	8.70	34.45	55.25	52.20	49.10	46.55

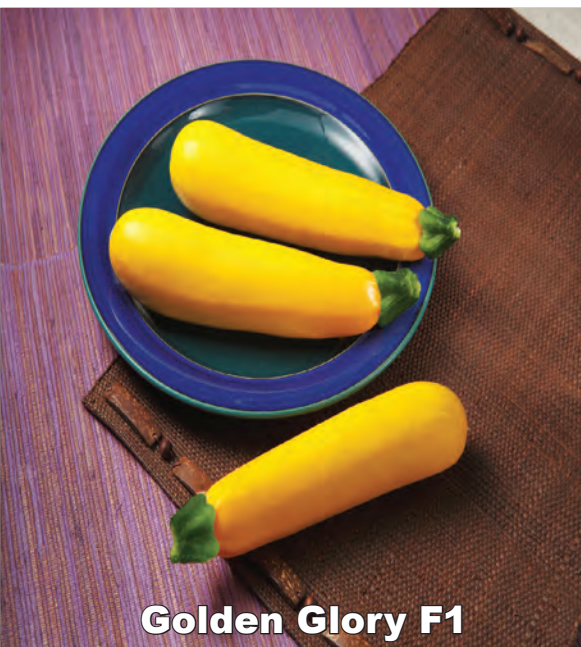
To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)



Sebring F1



Golden Delight F1



Golden Glory F1



Gold Rush F1

Golden Zucchini

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

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

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

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

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



Golden Girl F1

Cat#	Squash (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)
4080	Gold Rush	4.15	10.65	42.20	58.65	55.25	51.85	49.00
4087 & 4087U	Golden Delight	2.80	8.70	35.25	57.05	48.10	--	--
4090	Golden Girl	3.70	9.75	38.60	61.90	57.50	53.15	49.50
4091 & 4091U	Golden Glory	3.60	9.60	38.15	61.10	57.75	54.35	51.55
4145 & 4145U	Sebring	2.65	6.95	27.50	38.45	36.45	34.20	32.35

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



Table Queen Mammoth

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

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

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

4232 Cream of the Crop F1 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.

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



Cream of the Crop



Black Bellotta F1

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

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

4282U Taybelle PM F1 90 days. Unusual strength against disease. Good yields of large 6"x7" fruits. Color is deepest ebony green. Semi-bush habit. High Resistant PM.



Carnival F1



Table Ace F1



Autumn Delight F1



Taybelle PM F1



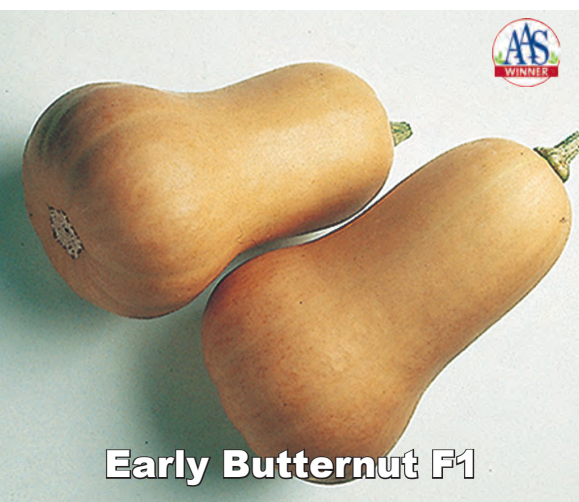
Table King

Cat#	Squash	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
4267U	Table King	2.35	5.60	8.50	14.65	26.15	23.90	22.30
Cat#	Squash (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)
4199	Autumn Delight	2.60	7.90	31.30	50.15	46.60	43.05	40.15
4200	Black Bellota	2.60	6.80	27.05	43.30	40.25	37.20	34.65
4220	Carnival	4.00	10.40	41.50	60.95	56.65	52.30	48.70
4257	Table Ace	2.30	6.65	26.30	42.15	39.20	36.20	33.75
4282U	Taybelle PM	2.60	7.00	28.25	43.60	36.40	--	--
Cat#	Squash	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
4232	Cream Of The Crop	1.60	7.70	26.35	45.00	77.40	68.40	63.00
4272U	Table Queen Mammoth	1.70	2.90	4.50	7.55	13.60	12.45	11.60

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



Indian Brave F1



Early Butternut F1



Frisco F1



Waltham Butternut



Chieftain PMR F1

Butternut Types

(*Cucurbita moschata*)

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

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

4198 Avalon F1 88 days. Large thick-necked fruit. 3.5-4 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 Chieftain PMR F1 85 days. Unusually strong against PM. Uniform 2.5 lb butternuts are attractive mkt size. Compact plant. Good keeper with fine grained flesh. Tolerant PM. Fresh Mkt, Storage, Roadside, Shipping.



Honeybaby F1

4237 Early Butternut F1 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 F1 90 days. Large size and very refined quality. Fruit is uniform, avg. 6 lb weight, measures 8" x 3.5" neck, attractive tan rind and bright orange flesh. Long thick neck provides high proportion of edible quality flesh. Very sweet, non-stringy, with smooth, firm texture.

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

4244 & 4244U Indian Brave F1 85 days. Large 4-5lb fruit, 9"x3", produced in abundance. Quality comparable to Butternut Supreme. Vigorous vine with disease tolerance, extra yield potential. Tolerant PM, resists cracking. Fresh Mkt, Shipping.

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

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

4310 Zodiac F1 105 days. 4-6lb fruit. Elongate Waltham shaped neck with shallow ribbing. Desirable type for fresh mkt. Extra long neck provides a higher proportion 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 & 4227U	Chieftain PMR	3.00	19.25	63.75	46.80	91.55	88.90	86.50
4239	Honeybaby	2.85	17.35	57.45	46.80	91.55	88.90	86.50
4244 & 4244U	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)
4191U	Autumn Crown	2.80	7.80	30.90	49.50	46.00	42.50	39.60
4197	Autumn Frost	3.60	9.65	38.30	61.40	57.05	52.75	49.10
4198	Avalon	3.40	8.85	35.10	56.25	53.35	50.10	47.35
4237	Early Butternut	2.50	6.60	26.15	35.75	33.70	31.60	29.90
4238 & 4238U	Frisco	2.90	7.50	29.80	47.00	44.55	41.80	39.55
4254U	Sweet Max	3.20	8.45	33.45	49.50	46.00	42.50	39.60
4310	Zodiac	3.35	9.35	37.05	59.40	55.20	51.00	47.50



Heavenly Hubbard F1

Hubbard Types *(Cucurbita maxima)*

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

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

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

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.

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



Red Kuri

Kabocha/Buttercup Types

(Cucurbita maxima)

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

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

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

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



Bonbon F1



Sweet Mama F1



Sunshine F1



Red October F1

Cat#	Squash	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb (per lb)	5 lb (per lb)	25 lb (per lb)
4212U	Buttercup (Burgess Strain)	2.65	6.20	8.90	13.00	18.85	14.90	13.60
4222U	Chicago Warty Hubbard	1.60	2.35	8.00	13.80	24.65	22.50	21.00
4242U	Hubbard Golden	2.15	4.95	7.45	13.15	23.45	21.45	20.00
4253	Red Kuri	1.85	4.20	14.55	25.00	44.65	40.80	38.35

Cat#	Squash	1/8 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	25 lb (per lb)
4247	Sunshine	3.25	18.90	63.45	107.65	190.75	175.00	--
4252	Sweet Mama	3.75	23.05	76.20	115.35	225.55	218.80	213.10

Cat#	Squash (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)
4202	Bonbon	9.25	24.20	76.95	123.30	114.60	105.90	98.65
4243	Heavenly Hubbard	8.70	22.80	90.50	139.80	132.60	124.45	117.60
4250	Red October	4.25	11.15	44.30	70.95	65.95	60.95	56.75



Pinata F1



Bush Delicata



Vegetable Spaghetti



Tivoli F1



Pinnacle F1



Turk's Turban

Mixed Types

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

3760U Cushaw Orange Striped 110 days. (*Cucurbita mixta*) Also called Cushaw Pumpkin. Pear shaped with crookneck, 25-30 lb fruit. Hard thin smooth rind, marked with golden orange stripes over creamy white background. Fine grained sweet golden flesh is excellent for baking or pies, good keeper. Roadside, Cornucopia, Ornamental Gourd, Pie.

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

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



Cushaw Orange Striped

Vegetable Spaghetti

(*Cucurbita Pepo*)

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

4287 Tivoli F1 100 days. New bush-vine habit; fine for smaller home garden. Plants bear 3-5 uniform, oblong fruits each; average 3-4 lbs. each, 8-10". crunchy texture. High-yielding, vining plants. Long storage ability. Commercial, Fresh Mkt.

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

Cat#	Squash	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)
3760U	Cushaw Orange Striped	2.00	5.95	20.90	36.30	65.45	61.00	57.75	55.00
4292	Turk's Turban	1.55	3.90	13.25	22.90	40.90	37.45	--	34.95
4297U	Vegetable Spaghetti	1.95	3.45	5.40	9.20	16.65	15.00	--	14.20

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		1.95	11.90	39.25	41.30	80.80	78.40
4287	Tivoli		2.70	16.75	55.35	82.10	160.50	155.70

Cat#	Squash (M=1000)	25 sd	100 sd	500 sd	1000 sd	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	11.30	44.90	71.90	68.20	64.00	60.50

Plus Series

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

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

Better Boy Plus (see page 75) has added disease resistance, higher brix, firm fruit and lower possibility of radial cracking.

Big Beef Plus (see page 75) offers improved color for market appeal, a wider range of disease resistance and larger fruit.

Celebrity Plus (see page 72) offers improved wide-spectrum disease resistance, better crack resistance, larger fruit and higher brix.

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



Celebrity Plus F1



Big Beef Plus F1



Better Boy Plus F1

Selecting Tomato Varieties

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

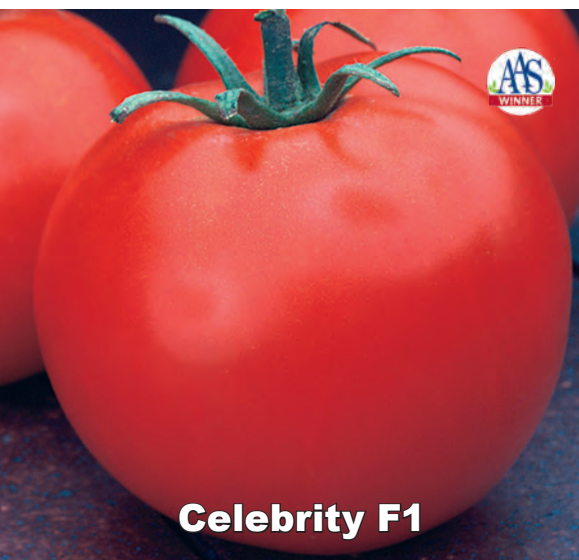
Many new varieties have been improved for a broader range of disease traits, as new research results become available for commercial use. As part of your disease management, you may choose varieties that are strong against the diseases that make the most problems in your area. It is recommended that you contact 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.



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



Celebrity F1



Celebrity Plus F1



Dixie Red F1



Bella Rosa F1



Amelia F1

Tomato

(*Lycopersicon esculentum*)

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

Large Round Determinates

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

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

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

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

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



Biltmore F1

4419 Celebrity F1 72 days. Mid-early variety for main crop; widely adapted, with wide-spectrum disease resistance. Large, red, deep oblate fruits are firm, flavorful, average 8 oz; show crack resistance.

Medium size, strong plants. Grow on ground, caged or staked. Pruning not recommended. Resistant ASC, FW 1-2, N, ToMV 0-2, V. Fresh Mkt, Commercial, Gdn.

4410 Celebrity Plus F1 72 days. Mid-early variety for main crop. Widely adapted, with wide-spectrum disease resistance. Large, red, deep oblate fruits with bright red flesh are firm, flavorful, average 8 oz. & show crack resistance.

Medium size, strong determinate plants. Grow on ground, caged or staked. Pruning not recommended. Vigorous plants with good fruit protection. Highly productive. All the original original Celebrity genetics but with modernized disease resistance, higher brix and improved uniformity of shape & size. Resistant ASC, FW1,2, N, TMV, TSWV, V. Fresh mkt, UPick, Gdn.

4420U Charger F1 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 1-3, V 1. Tolerant St, TYLC. Fresh Local Specialty, Restaurant, Garden & Container Plant Sales.

4437 Dixie Red F1 85 days from sowing, 65 days from transplant. Quite early 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 hot-set 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 medium-determinate vines form good leaf canopy for sunburn protection. Recommendation: DO NOT PRUNE. Dixie Red bodes well to become a workhorse tomato. Resistant TSWV, ASC, F 1-3, St, VW 1. 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 & 4359U	Amelia	10.95	71.20	111.90	134.40	133.15	129.90	126.65	124.25
4371	Bella Rosa	4.30	33.30	40.55	58.90	58.40	57.05	55.70	54.70
4380	BHN1021	11.40	73.95	116.25	132.00	130.80	127.60	124.40	122.00
4386	Biltmore	7.45	48.20	70.55	88.85	87.95	85.65	83.35	81.55
4409	Carolina Gold	4.00	26.85	41.20	52.00	50.65	49.30	47.95	47.00
4419	Celebrity	3.00	22.00	28.70	37.65	37.30	36.30	35.30	34.60
4410	Celebrity Plus	3.30	21.50	33.85	53.70	53.20	51.75	50.40	49.30
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



Red Pride F1

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

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

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

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

Tomato Disease Codes

A	Anthraxnose
ASC	Alternaria Stem Canker
BSp	Bacterial Speck
EB	Early Blight (<i>Alternaria Solani</i>)
FR	Fusarium Crown & Root Rot
FW	Fusarium Wilt & race #'s
LB	Late Blight (<i>Phytophthora Infestans</i>)
LM	Leaf Mold
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
V	Verticillium Wilt & race #'s



Florida 91 F1



Jolene F1

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

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

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

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



Mountain Gem F1



Mountain Fresh Plus F1



Mountain Spring F1



Mountain Merit F1

Cat#	Tomato (M=1000)	25 sd	250 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
4450	Florida 91	6.90	53.40	79.70	93.25	92.30	89.85	87.40	85.60
4486	Jolene	4.35	28.40	44.60	70.80	68.95	67.65	66.40	65.50
4534 & 4534U	Mountain Fresh Plus	6.60	44.95	70.70	103.45	99.65	95.95	92.15	89.45
4536	Mountain Gem	6.80	44.55	69.90	84.80	82.60	81.00	79.45	78.40
4537U	Mountain Gold	1.65	2.60	4.25	3.65	3.25	3.00	2.80	--
4542	Mountain Merit	7.50	56.15	68.80	86.80	84.50	82.90	81.35	80.30
4544	Mountain Spring	3.65	23.60	37.15	42.15	41.00	39.90	38.80	38.00
4568	Red Pride	1.50	10.40	16.35	24.50	24.30	23.70	23.15	22.75

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



Tasti-Lee® F1



Top Gun TSWV F1



Saybrook F1

More Large Round Determinates

4570 Sanibel F1 75 days. Large 8 to 12 oz fruit borne in concentrated set on 3 1/2' vines. Great flavor from high acid/sugar balance. Main crop comes on in a 14 day window. Excellent disease package. Pruning not recommended. *Pelleted seed only*. Resistant V, FW 1, FW 2, N, ASC, St.

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

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



Sunny Boy F1



Stellar F1



Sanibel F1

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

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

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

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

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

Cat#	Tomato (M=1000)	10 sd	50 sd	250 sd	500 sd	1000 sd	5 M (per M)		
4612	Tasti-Lee®	4.35	10.75	37.45	34.35	66.35	63.60		
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)
4570	Sanibel	4.85	37.95	59.70	89.80	88.95	--	--	--
4574	Saybrook	5.55	36.15	56.85	90.20	89.35	86.95	84.60	82.80
4576	Stellar	5.60	41.90	65.85	104.50	100.70	96.90	93.10	90.40
4580U	Sunny Boy	2.30	5.55	8.30	14.20	25.45	23.15	21.25	19.90
4604	Top Gun TSWV	6.30	40.95	64.40	66.15	65.45	63.70	61.95	60.65



Carmello F1

Large Round Indeterminates

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

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

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



Gdn.



Big Beef Plus F1



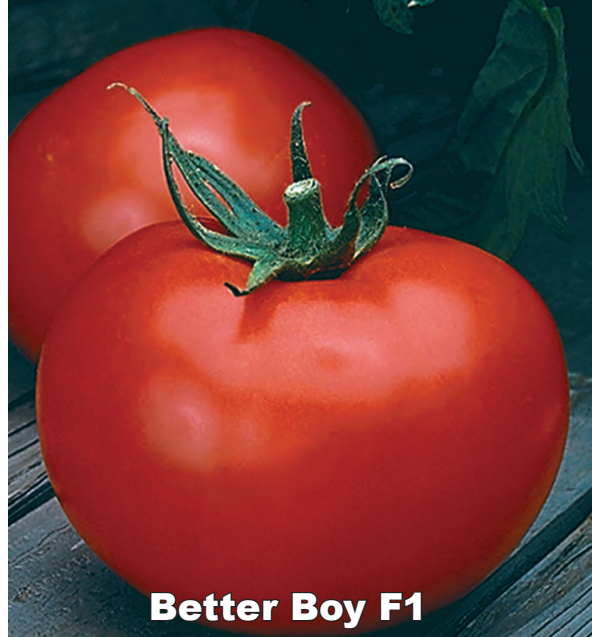
Burpee's Big Boy® F1

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



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

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



Better Boy F1



Better Boy Plus F1



Big Beef F1

Cat#	Tomato (M=1000)	25 sd	250 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
4374 & 4374U	Better Boy	2.25	15.30	23.15	30.35	30.00	29.20	28.40	27.85
4375	Better Boy Plus	2.65	17.35	27.30	43.30	42.85	41.70	40.60	39.75
4384 & 4384U	Big Beef	3.00	21.35	32.60	38.80	38.45	37.45	36.40	35.65
4387	Big Beef Plus	3.40	22.20	34.90	55.40	54.85	53.40	51.90	50.85
4404	Burpee's Big Boy®	2.90	18.00	22.45	28.15	27.90	27.15	26.40	25.85
4407	Carmello	2.75	18.55	22.65	25.90	25.20	24.55	23.85	23.40

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



Mountain Rouge F1



Pamella F1



Rubee Dawn F1



Rubee Goddess F1



Chef's Choice Black F1



Chef's Choice Yellow F1

More Large Round Indeterminates

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

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

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

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

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

4543 Mountain Rouge F1 73 days. Truly wow! taste. Full of robust flavors, lots of acid, sugar and rich undertones. Nationwide trial sites reported consistent, large harvests of big, 12-14oz pink beefsteak tomatoes. 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. Tolerant FW, LB, N, V. Fresh mkt. *Northeast, Southeast, Heartland.*

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

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

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

Tomato Disease Codes

A	Anthraxnose
ASC	Alternaria Stem Canker
BSp	Bacterial Speck
EB	Early Blight (<i>Alternaria Solani</i>)
FR	Fusarium Crown & Root Rot
FW	Fusarium Wilt & race #'s
LB	Late Blight (<i>Phytophthora Infestans</i>)
LM	Leaf Mold
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
V	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)
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	18.35	18.20	17.80	17.35	17.05
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

Cat#	Tomato (M=1000)	10 sd	50 sd	250 sd	500 sd	1000 sd	5 M (per M)
4572	Rubee Dawn	2.60	10.40	41.55	67.25	129.20	124.30
4573	Rubee Goddess	2.60	10.40	41.55	67.25	129.20	124.30



Marinara F1

Cluster Types

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

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

Campari Type

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

Plum/Roma/Saladette Types

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

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

4507 Marinara F1 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. Tolerant FW 1,2. N, ToMV, TSWV, TYLC, V.

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

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



Plum Regal F1



Mountain Magic F1

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

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

Cherry Types

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

4406 Candyland Red F1 55 days. Current type. Very small 0.5" fruit is dark red, very sweet and rich flavored. Prolonged harvest. 2-3' vine with tidy habit bearing numerous fruit near perimeter of plant for easy picking. Fresh Mkt, Specialty, Restaurant, Garden Ctr Sales.



Juliet F1



Shelby F1



Red Torch F1

Cat#	Tomato (M=1000)	10 sd	50 sd	250 sd	500 sd	1000 sd	5 M (per M)
4372	Bellini	5.15	19.50	78.00	107.60	206.70	198.85
4540	Mountain Magic	2.60	10.15	40.30	48.65	93.95	90.00

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	15.60	25.15	36.85	33.50	32.30	--	--
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	55.50	53.50	51.45	49.45	48.00
4479	Hybrid 46	3.45	22.50	35.35	36.45	36.15	35.15	34.15	33.45
4494	Juliet	1.80	12.60	21.25	37.00	33.35	29.90	28.85	27.80
4507	Marinara	3.55	23.15	36.35	57.70	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
4558	Plum Regal	7.20	54.15	75.60	86.75	84.45	82.90	81.30	80.25
4565U	Red Torch	5.50	35.60	55.95	88.80	85.55	82.30	79.10	76.80
4578	Shelby	4.20	27.60	43.80	70.20	68.10	66.50	65.20	--



Super Sweet 100 VF F1



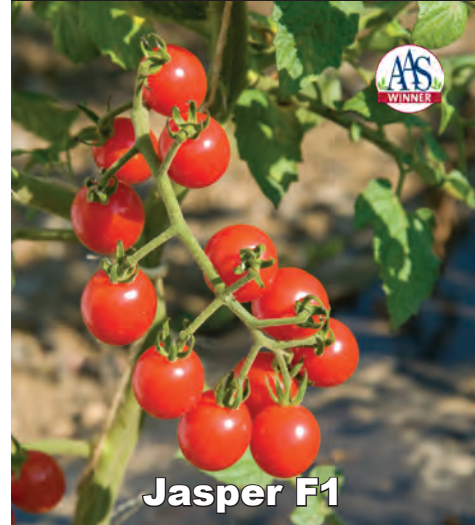
Gabrielle F1



Fantastico F1



Lizzano F1



Jasper F1

More Cherry Types

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

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

4503U Lizzano F1 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 F1 68 days. Indeterminate indigo tomato ripens from red to glossy black-purple at maturity when grown in strong light. Color is due to high levels of anthocyanin pigment, a healthy antioxidant. 5-6 ft vines produce large trusses. Fruits avg 0.5 oz and 1.5" diam. Up to 100+ fruit per plant were counted in nationwide trials. Ripens all season long with sweetly balanced, juicy flavor. Fresh Mkt, Restaurant, Gourmet Salad.

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

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

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

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

4617 Yellow Canary F1 55 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

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

4454U Gabrielle F1 60 days. 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#	Tomato (M=1000)	10 sd	50 sd	250 sd	500 sd	1000 sd	5 M (per M)		
4481U	Jasper	5.65	21.55	86.30	122.30	235.00	226.10		
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)
4441U	Fantastico	7.45	56.35	88.60	140.60	135.45	130.35	125.20	121.60
4454U	Gabrielle	2.65	12.00	20.30	35.30	31.80	29.65	27.95	26.75
4470U	Honeybee	1.60	10.80	17.40	29.50	26.15	24.00	--	--
4503U	Lizzano	7.45	55.55	87.30	138.60	137.35	134.00	130.60	128.10
4512	Midnight Snack	5.05	32.90	51.70	75.00	72.25	69.50	66.75	64.85
4552	Patio Choice Yellow	1.60	14.15	24.00	44.00	38.00	32.00	27.00	24.00
4569	Red Robin	2.65	17.15	26.95	39.35	39.00	38.10	37.20	36.55
4584	Super Sweet 100 VF	1.85	14.15	20.55	26.30	25.65	24.95	24.30	23.80
4606	Sweet Treats	14.25	96.00	152.40	244.20	236.45	230.50	225.70	--
4617	Yellow Canary	3.00	23.15	38.85	67.50	60.75	56.25	53.75	51.20



Sweet Canary F1

More Grape Types

4462 Gold Spark F1 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 hydroponics. Breeder's advice is to prune ground suckers 2" from ground. Resistant ToMV 0-2.

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

4586 Sweet Canary F1 62-65 days. Semi-determinate, deep gold .5oz grape tomato. Early sweet & firm.

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

Heirloom Trait Hybrid

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

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



Mortgage Lifter



Brandywine Red

OP Heirlooms

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

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

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

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

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

Tomatillo

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



Sweet Hearts F1



Purple Boy F1



Gold Spark F1



Sun Bliss F1

Cat#	Tomato (M=1000)	10 sd	50 sd	250 sd	500 sd	1000 sd	5 M (per M)
4462	Gold Spark	5.50	21.90	87.70	141.90	272.60	262.30
4602	Sweet Hearts	16.40	65.00	125.00	127.40	244.70	235.45

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
4563	Purple Boy	5.60	36.60	57.60	91.40	90.45	88.15	85.70	83.90
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#	Tomato (M=1000)	250 sd	500 sd	1000 sd	5 M (per M)	25 M (per M)	50 M (per M)	100 M (per M)
4394U	Brandywine Red	1.65	2.60	4.25	3.65	3.25	3.00	2.80
4399U	Brandywine Yellow	1.65	2.60	4.25	3.65	3.25	3.00	2.80
4456U	German Johnson	1.65	2.60	4.25	3.65	3.25	3.00	2.80
4523U	Mortgage Lifter	1.65	2.60	4.25	3.65	3.25	3.00	2.80
4545	Mr. Stripey	1.65	2.60	4.25	3.65	3.25	3.00	2.80

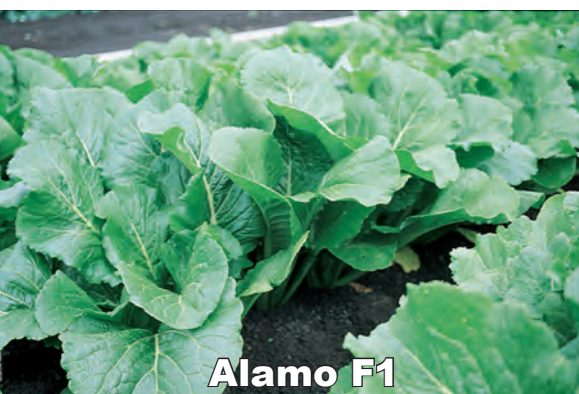
Cat#	Tomatillo	1/256 oz	1/4 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb
4349U	Toma Verde	3.20	15.60	25.60	44.00	158.00	290.00	540.00



Topper F1



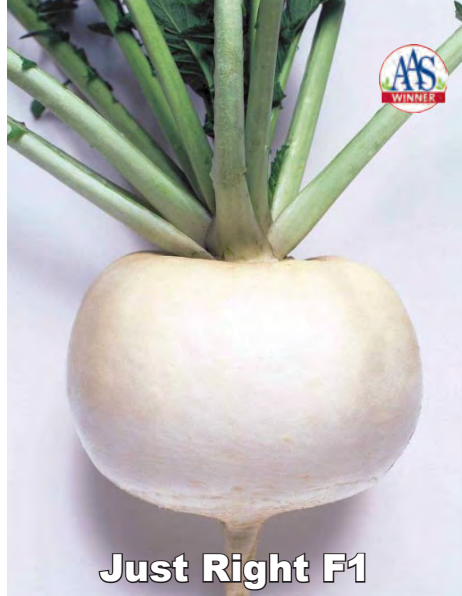
Royal Crown F1



Alamo F1



White Lady F1



Just Right F1



Tokyo Cross F1

Rutabaga

(*Brassica napus*, *Napobrassica* Group)

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

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

Turnip

(*Brassica rapa*, *Rapifera* Group)

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

Hybrids

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

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

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



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

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

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

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

Open Pollinated

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

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

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	American Purple Top	2.60	3.95	5.90	8.85	13.20	9.25	6.25	5.45

Cat#	Turnip	1/16 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	25 lb (per lb)
4619	Alamo	1.70	13.35	46.70	81.00	146.15	136.30	128.95	122.80
4624	All Top	1.85	10.50	36.70	64.15	114.75	106.50	101.30	96.15
4629	Just Right	1.75	16.15	56.35	97.95	176.55	164.60	155.70	148.30
4644	Royal Crown	1.65	12.75	44.65	77.50	139.70	130.30	123.30	117.40
4659 & 4659U	Tokyo Cross	1.95	23.00	80.45	139.70	251.90	235.00	222.30	211.70
4664	Topper	1.70	13.75	47.95	83.25	150.15	140.00	132.45	126.15
4669	White Lady	1.95	23.00	80.40	139.60	251.70	234.70	222.15	211.55

Cat#	Turnip	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)
4634U	Purple Top White Globe	1.75	2.20	2.65	3.85	5.15	4.85	4.55	4.35
4649U	Seven Top	1.60	2.05	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 seed-borne from the original seed lot, or result from other host infection. The disease has attacked many varieties of watermelon from different seed producers.

Although new testing procedures are currently under development, it is impossible to conduct any test procedures that will give 100% reliable results with regard to the identification of any seed-borne watermelon fruit blotch infections. Work is being done by public and private researchers, seed companies and growers, to determine improved identification and control measures and to develop statistically reliable testing procedures.

Work is also being done to determine if different varieties of watermelon, both diploid and triploid, have any level of resistance or tolerance to this disease. No varieties to date have been identified as having any significant level of resistance.

The symptoms on young seedlings appear as dark water-soaked lesions on the lower surfaces of the cotyledons or the true leaves. These initial water-soaked lesions later turn necrotic and may also have chlorotic halos surrounding the dead tissues. The lesions will also often appear on the hypocotyls of young seedlings, resulting in the wilting and death of these young plants. The most dramatic and destructive phases of this disease are the fruit infections that occur much later in the growing cycle. The lesions on the top surface of the fruits appear as small, water-soaked areas, which under the right conditions of high temperature and humidity, enlarge rapidly to cover most of the surface of the fruits. Fruit decay often follows. This later condition of the disease cycle could lead to significant economical losses to the grower.

In cases where the pathogen is carried in the seed, the typical lesions described above will appear on the young seedlings within 7 days after seedling emergence. If no symptoms are observed on the young seedlings within three weeks after emergence, it is unlikely that the bacterium is carried on the seed and that any subsequent infection is most likely from other sources. It is imperative that each grower inspect the young plants during this early stage, in order to determine the presence or absence of these symptoms and to mitigate any potential economical losses.

Caution: Symptoms that appear on plants in the early stages of growth, and especially those symptoms caused by secondary infections, may not be evident on new foliar parts as the plants develop. The pathogen, however, may still be alive in infected tissues, and may infect the fruits if favorable conditions of temperature and humidity prevail. Do not retain any plants that show any symptoms at any time.

Growing Triploids

If you grow for fresh market, triploid F1 watermelons are a crop you can count on to attract plenty of attention. They are waxier than diploid varieties, and bring high prices wherever they're marketed. The flesh is absolutely tops in eating quality, market preference and consumer demand. No seeding necessary! And cut fruit displayed in shrink wrap is a sure seller.

Sometimes incorrectly referred to as "seedless", triploids are sterile hybrids which, because of their genetic makeup, characteristically produce fruit with few or no true seeds. Sometimes cultural practices or weather conditions may result in fruit with some vestigial seeds or empty white seed coats. Because of this, triploid F1 watermelons are not guaranteed to produce seedless fruit.

A special note to growers of triploid F1 watermelons: Please follow careful practices to grow triploid F1 watermelons successfully. We supply detailed growing instructions with your seed. For best results, we suggest starting seed in the greenhouse in peat pellets (on page 113) 3 weeks before outdoor planting time. Because of their genetic makeup, triploid F1 watermelons must be planted with a diploid (regular hybrid or open-pollinated) variety as a pollinizer in order to assure fruit set. Approximately 600 pollinizer per acre.

Days to maturity are from transplant.


Special Limitation of Warranty

TRIPLOID HYBRID WATERMELONS

A. NOTICE: Hybrid triploid watermelons are sterile, or true, hybrids which characteristically produce fruits with few or no true seeds. Because the absence, or relative absence, of "hard" or true seeds in the fruit of the melon is its chief distinguishing characteristic, the hybrid triploid watermelon is often referred to as a "seedless" watermelon. Despite the popular perception, hybrid triploid watermelons are not true "seedless" watermelons. The first melons to ripen in a field of hybrid triploid watermelons often contain small, vestigial seeds. In addition, certain genetic, cultural and climatic factors are known to cause the formation of empty seed coats, small, white, immature seeds and/or hard seeds in the flesh of the melons. Due to the wide variety of possible causes of hard seed or ovule formation, Hybrid triploid watermelons are not guaranteed to produce seedless fruit.

Hybrid triploid watermelon production requires a high level of grower sophistication. Hybrid triploid watermelons require a pollen source and bees to serve as pollen vectors. The general rule is one pollinizer plant for every 3-4 seedless plants. Hybrid triploids also require special care for satisfactory germination. Growers are encouraged to contact university extension personnel for government publications and information concerning recommended cultural practices. Otis S. Twilley Seed Co., Inc. can also supply certain information on request. Growers are encouraged to develop expertise in growing hybrid triploid watermelons prior to instituting large-scale commercial production.




















B. SPECIAL LIMITATION OF WARRANTY: All hybrid triploid watermelon seeds are sold pursuant to Otis S. Twilley Seed Co., Inc.'s standard terms and conditions of sale. Descriptions and illustrations of hybrid triploid watermelons appearing (in the seed catalog and elsewhere) represent hybrid triploid watermelons as grown under favorable growing conditions in favorable growing areas. Appearance and performance may vary in other geographic locations and under different growing conditions. Otis S. Twilley Seed Co., Inc. expressly excludes any warranty of conformity to description, illustration or sample and extends no warranty that the hybrid triploid watermelon seed sold will produce "seedless" fruit. All implied warranties, including but not limited to any implied warranties of merchantability and fitness for a particular purpose, are expressly excluded.

C. For Nunhems triploid watermelons marked with the following symbol:  There is a Nunhems triploid waiver agreement in the centerfold of this catalog and also available for download from our website: www.twilleyseed.com. You can also contact us for a copy.

Watermelon Triploid (Citrullus lanatus)

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

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

Variety	Days (from transplant)	Size	Shape and Color	Disease	Description
Red Fleshed					
4885 Arcadia F1	88-90	23 lbs		Tolerant A 1-3, F 0-1	Flesh is dark red, very crisp. Sweet, rich flavor. Extra firm makes it an excellent candidate for cut melon market. High yield potential reported. Fresh Mkt, Shipping, Contract Growing.
4874 Belmont F1	90	6-10 lbs			Miniature size range. Round-oval fruit weighs 6-10 lb. Vivid deep red flesh is extra firm & crispy, with very small pips. Highly contrasting rind is clean bright white. Crimson Sweet type rind appearance, mid green with broad deep stripes. Vine is vigorous growing and strong with high yield potential of multiple fruit per plant. Use an early pollinator variety. Fresh local mkt, Garden Plant Sales, Sale wrapped.
4883 Charismatic F1	83	16-20 lbs			New generation breeding from Sakata. Early, consistent yields with good cold-setting ability. Flesh very crisp, dense, sweet and bright red with inconspicuous pips. Rind has dark green stripes on mid-green background, with bright white shell providing sharp demarcation around flesh. Widely adapted. Major market appeal. Use an early pollinizer for best results. Strong vigorous vines provide excellent yield potential. Best sub for Affirmed when needed.
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, F1	Crimson Sweet type rind. Interior is dark red and firm with small pips. Performed well in yield trials across major watermelon areas of U.S. Good uniformity of size and shape. Fresh Mkt, Fresh Cut, Cello Pack, Shipping.
4877 Harvest Moon F1	80-100	18-20 lbs			This is a seedless hybrid with the mottled rind pattern of the old "Moon & Stars" heirloom. Crisp flesh can hold well on vine and after harvest. Compact 3-5' vines. Averages 3-4 fruit per plant.
4875 Joy Ride F1	80-85	19 lbs		Tolerant F1	Widely adapted. 2015 Southeast & Midwest trials resulted in superior avg scores for sweetness, firmness, recorded yield and low percent Hollow Heart. Uniform fruit set. Vigorous vine makes dense canopy for sun protection. Fresh Mkt, Shipping, Cut Fruit Cello Pack.
4879 Kingman F1	85	18-22 lbs			Top performer in university trials, including highest total and highest 36-count yields at UGA. Crimson gene type with extremely bright red flesh. Firm and crisp with small pips.
4880 Lamar F1	83	12 lbs		Resistant FW	Sugar Baby type. Flesh is bright red, sweet, clean flavored. Sharp boundary between flesh and hard white inner rind creates appealing look. Vigorous vines give potential for heavy crops. Excellent For Cut Fruit Sales. Fresh Mkt, Roadside, Shipping.
4886 Melody F1	60	14-16 lbs		Tolerant A 1	Growers have been asking for this variety. Great earliness. Deeper color than most triploids. Breeder trials indicate capability for heavy, concentrated fruit set under cool conditions. Good eye appeal. Fresh mkt, Shipping.
4892 Revolution F1	84	18-24 lbs		Tolerant A 0-1, FW 0-1	Classic Allsweet rind pattern. Interior is intense dark red with texture. High brix levels. Vigorous vines with broad dense foliage provide strong fruit protection. Melons handle well in local mkt and in shipping. Fresh Mkt, Shipping, Cut Fruit Cello Pack.
4893 & 4893U Ruby F1	85	15 lbs		A 0-1, FW 1-3	Crisp, sweet red flesh. Small pips. Sharp internal contrast at flesh-rind boundary. Strong waxy rind improves retention of color and quality. Commercial, Fresh Mkt.
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 FW	Tests from 2015 SE trial locations recorded high readings for sugar and firmness as well as high yield potential. Has the desirable combo of rind traits: thin but very strong for shipping
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. Fresh Mkt, Fresh Cut, Shipping.
4921 SuperSeedless® Brand Variety 7167	90	14-18 lbs		Tolerant A 1	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 1	Good size for a seedless melon. Suitable for commercial production. Deep red flesh, small pips. Med. length vigorous vine.
4915 SV0241WA F1	80	12-13 lbs		Resistant A 1, Tolerant FW 1	Excellent yield among triploids at 2012 NC State trial. Vibrant, deep shiny red flesh. Firm, sweet & crisp. Very small pips. Vigorous vines are strong against disease & provide late-season cover to protect fruit. Fresh Mkt, Fresh Cut, Shipping.
4918 Sweet Eat'n F1	85	18-24 lbs		Tolerant A, F	Very large for a seedless variety. High indexes for sugar and fiber content result in firm, extra sweet eating. Thin but tough rind makes it an excellent shipper.
4945U Triple Baby F1	75	5-7 lbs			Sugar Baby type in size and color but with triploid advantages of high sugar and long shelf life. To achieve small personal sized fruit, transplant small plants 20-24" apart with a pollinator every 5th or 6th plant. Any oval diploid variety is recommended as the pollinator.



Eclipse F1



Sweet Eat'n F1



Charismatic F1



Harvest Moon F1



Melody F1



Fascination F1



Revolution F1

Watermelon Disease Codes	
A	Anthrachnose & race #'s
F	Fusarium Wilt
GSB	Gummy Stem Blight
PM	Powdery Mildew & race #'s

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	5.95	23.60	37.80	152.90	249.85	242.15	--
4883	Charismatic	3.25	12.90	20.65	83.55	136.50	132.30	--
4872	Eclipse	7.00	27.70	44.40	179.65	293.55	284.50	--
4876	Fascination	14.65	58.15	93.20	377.00	346.40	320.75	--
4877	Harvest Moon	5.45	21.55	34.50	139.55	227.50	220.50	--
4875	Joy Ride	7.45	29.55	47.35	191.45	307.20	273.00	--
4879	Kingman	6.15	24.15	38.35	153.55	136.50	134.30	132.30
4880	Lamar	5.75	22.80	36.50	147.60	241.15	229.70	--
4886	Melody	8.00	31.85	51.05	206.45	337.30	312.30	--
4892	Revolution	8.30	32.95	52.80	213.50	320.90	311.05	--
4893 & 4893U	Ruby	5.75	22.80	36.50	147.60	241.15	229.70	--
4894	Secretariat	6.15	24.15	38.35	153.55	136.50	134.30	132.30
4895	Summer Breeze	7.30	28.90	46.35	187.25	300.90	267.45	--
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	6.95	27.55	44.00	178.20	285.25	253.50	--
4918	Sweet Eat'n	4.50	17.95	28.75	116.30	141.40	137.05	--
4945U	Triple Baby	5.45	21.55	34.50	139.55	195.00	189.00	--



**SuperSeedless®
Brand Variety 7167**



Yellow Buttercup F1





Lemon Ice F1

More Watermelon Triploid

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

(*Citrullus lanatus*)












Variety	Days	Size	Shape and Color	Disease	Description
Yellow Fleshed					
4881 Lemon Ice F1	85	10-12 lbs		Tolerant F 1-2, PM 1	Ice Box size. Firm crispy sweet yellow flesh. Attractive tiger stripe rind pattern. Good Disease tolerance gives chance of high yield. Fresh Mkt, Shipping, Garden Ctr Sales, Restaurant.
4954 Yellow Buttercup F1	90	14-16 lbs			Bright yellow flesh, Jubilee rind type with sharply defined dark green tiger stripe.

Cat#	Watermelon (M=1000)	10 sd	50 sd	100 sd	500 sd	1000 sd	5 M (per M)
4881	Lemon Ice	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; 3/4 lb produces approx. 10,000 plants (1½-2 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 1-3, FW	A classic, Bright red flesh, high sugar content, exceptional firmness. Shipping.
4737 Estrella F1	80	20-24 lbs		Tolerant A, FW	Vigorous vines, large leaves for great protective canopy. Has performed well in all watermelon areas needing early maturity. Can be use in frost-free winter production. Fresh mkt, shipping, cut & wrapped.
4749 Jamboree F1	88	23-27 lbs		Tolerant A, F	Allsweet type with advantages for cool season production or when growing conditions limit size. Bright red flesh, firm texture. Rind has a waxy exterior and skin is somewhat grey, making it more tolerant to sunburn. Fresh Mkt, Roadside, Shipping, Garden.
4794 & 4794U Sangria F1	85	20-26 lbs		Tolerant A 1, Resistant FW	Sweet and refreshing. Dark red flesh with unsurpassed eating quality. Fresh Mkt, Garden, Shipping.
4835 Summer Flavor® Brand Variety 720 F1 	85	28-30 lbs		Tolerant A 1	Excellent shape and size. Medium to large vines with high yield potential. Sweet, bright red flesh.
4839 Summer Flavor® Brand Variety 790 HQ 	85	24-28 lbs		Tolerant A 1	Sweet deep red flesh. Vigorous large vine. Good yield potential. Very ship-pable.
4841 Summer Flavor® Brand Variety 840 F1 	93	22-26 lbs		Tolerant A 1, F 1	Deep red flesh. Large vigorous vine. Potential for high yield.
Charleston Grey - Red Fleshed					
4708U Charleston Grey	83	26-33 lbs		Tolerant A, FW	Rind characterized by distinctive, marbled light green color. Bright red flesh is very sweet. Good shipper.



Summer Flavor® 790 HQ F1



Summer Flavor® 720 F1



Sangria F1



Jamboree F1



Summer Flavor® 840 F1



Estrella F1

Cat#	Watermelon	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)
4679U	Allsweet	2.00	5.25	11.00	19.15	34.15	31.25	29.15
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	15.35	61.55	99.60	88.20	77.10	--
4749	Jamboree	5.70	15.00	60.15	97.35	86.20	75.35	--
4794 & 4794U	Sangria	5.85	15.45	61.95	100.20	88.75	77.60	--
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

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



PS 11018330 F1



Shiny Boy F1

More Watermelon Diploid

Approx. 200-300 sd/oz for large-seeded types (500 sd/oz for small-seeded types). F1 packets contain 25 sd; o.p. packets produce 6-10 hills; 3¼ lb produces approx. 10,000 plants (1½-2 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.



Mini Love F1

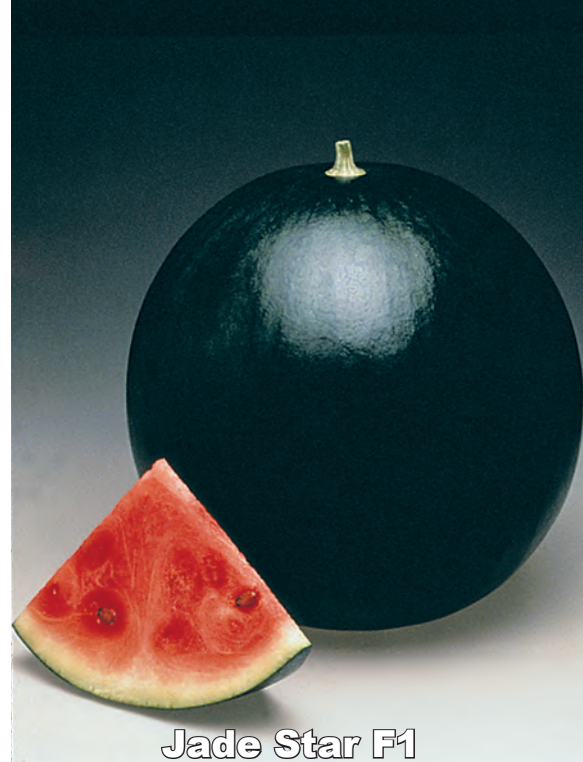


Crimson Sweet F1

Variety	Days	Size	Shape and Color	Disease	Description
Crimson Types - Red Fleshed					
4730 Compadre F1	84	20-25 lbs		Tolerant A, FW, GSB	Firm red flesh. Strong vines have shown ability in trial to produce heavy set of quality fruit.
4719U Crimson Sweet	85	25 lbs		Tolerant A, FW	Very popular shipping type. Delicious deep red firm flesh has high sugar content. Small seeded. Shipping.
4769 PS11018330 F1	75-85	30 lbs			Shiny red flesh. Small seeded. Compact vigorous vine has tight sun cover over fruit. CA and Southeast trails very positive. Capable of jumbos as wide spacing.
4796 Shiny Boy F1	90	20 lbs			Beat out comparisons in AAS taste tests. Sweet, tropical flavor with shiny rind. Vigorous vines can grow up to 12". AAS judges noted plants produce high yields tolerant of severe weather.
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. Fresh Mkt, Commercial, Shipping, Roadside, Garden.
4764U Mini Love F1	70	6-9 lbs		Tolerant A	AAS trials reported good yield for 4-6 melons per vine, shiny exterior with Crimson Sweet pattern. Thin but strong rind reported as not prone to cracking. Compact vines spread 3-4'. Fresh Mkt, Shipping, Garden Ctr Sales. No sales to South Carolina.
4799 Smile F1	80	6-8 lbs		Tolerant Fruit Cracking	High sugar and outstandingly tough rind. Excellent for long distance shipping. Withstands rough handling and wet ground prior to harvest. Stores up to 12 days after harvest. Long Distance Shipping, Garden, Roadside.
4809U Sugar Baby	84	6-7 lbs			Very popular type with good keeping quality. Distinctive dark rind is thin but fairly tough. Small seeded. This is the pollenizer we supply with most triploids.



Sugar Baby



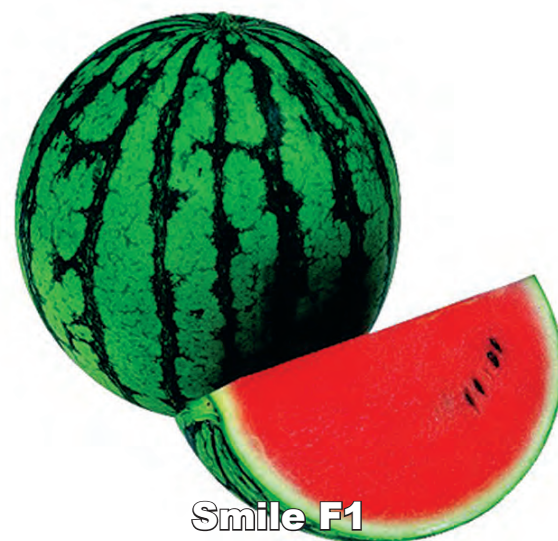
Jade Star F1



Bush Sugar Baby



Compadre F1



Smile F1

Cat#	Watermelon (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	50 M (per M)
4730	Compadre	3.75	11.55	46.20	66.00	59.55	53.65	--
4744	Jade Star	6.75	20.85	83.50	112.85	106.05	99.75	--
4764U	Mini Love	11.25	32.60	130.60	196.35	177.20	159.55	--
4769	PS 11018330	4.65	14.30	57.15	81.90	77.00	72.40	--
4796	Shiny Boy	1.80	5.25	20.95	35.70	31.50	28.85	26.50
4799	Smile	2.20	6.75	27.00	39.65	37.90	36.30	--

Cat#	Watermelon	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)	50 lb (per lb)
4719U	Crimson Sweet	2.40	5.55	8.30	14.20	25.45	23.15	21.25	19.90
4809U	Sugar Baby	1.60	2.70	9.00	15.85	28.50	26.00	24.25	--

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	7.20	11.80	41.00	61.00	78.00	71.00

Watermelon Disease Codes	
A	Anthrachnose & race #'s
F	Fusarium Wilt
GSB	Gummy Stem Blight
PM	Powdery Mildew & race #'s

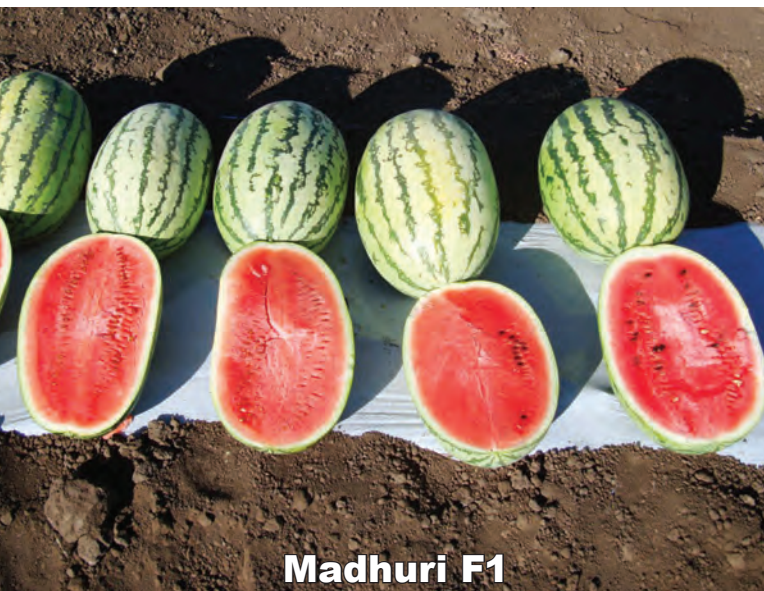
To Order Call: 800-622-7333 (USA) or 864-227-5140 (Int'l)



Starbrite F1



Jubilee Improved








Madhuri F1



Madhubala F1

More Watermelon Diploid

Approx. 200-300 sd/oz for large-seeded types (500 sd/oz for small-seeded types). F1 packets contain 25 sd; o.p. packets produce 6-10 hills; 3¼ lb produces approx. 10,000 plants (1½-2 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 Jubilee Improved	90-100	26-38 lbs		Tolerant A, F	The original Jubilee has been a favorite for many years. The rind is medium thick, light green with dark green stripes. The bright red flesh is sweet and fine textured. Large black seeds. Good shipper.
4768 Madhubala F1	80	22-26 lbs		Tolerant A 1	Very early for this size class. Similar in shape and rind to SummerFlavor 710. Although growers have reported that fruit size is often smaller. Flesh is bright red. Strong, vigorous vines.
4766 Madhuri F1	85-90	22-26 lbs		Tolerant A 1	Good combo of fruit size, color, shape. Flesh is bright red, very fine flavor. Strong plant vigor. Fresh Mkt, Shipping.
4804 Starbrite F1	85	22-31 lbs		Tolerant A 1, F 1	Capable of producing high percent Jumbos for roadside markets. Vigorous vines. Uniformly sweet deep red flesh. Good shipper. Fresh Mkt, Garden, Roadside, Shipping.

Cat#	Watermelon	1/4 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)	10 lb (per lb)
4739U	Georgia Rattlesnake	1.70	3.20	11.00	18.90	33.80	30.90	28.90
4762	Jubilee Improved	1.60	1.80	5.90	10.20	18.15	16.55	15.50

Cat#	Watermelon (M=1000)	25 sd	100 sd	500 sd	1000 sd	5 M (per M)	10 M (per M)	30 M (per M)
4768	Madhubala	9.70	25.40	100.80	144.00	134.45	124.90	117.00
4766	Madhuri	9.35	24.45	96.90	144.00	134.45	124.90	117.00
4804	Starbrite	4.50	13.95	55.60	78.50	73.75	69.40	--



Georgia Rattlesnake



Verde Grande F1



Gold in Gold F1



Yellow Baby F1



Yellow Doll F1



Orange Krush F1



Lemon Krush F1

More Watermelon Diploid

Approx. 200-300 sd/oz for large-seeded types (500 sd/oz for small-seeded types). F1 packets contain 25 sd; o.p. packets produce 6-10 hills; 3¼ lb produces approx. 10,000 plants (1½-2 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 Other 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 Flesh					
4694U Baby Doll F1	70	6-8 lbs			Bright yellow crisp, sweet flesh. Best sub for Yellow Doll if needed.
4742 Gold in Gold F1	70	11-16 lbs			Eye-catching and fun. Unique yellow rind with golden stripes encases golden orangy flesh. AAS judges reported good performance in national trials. 6-7" diam. Fruit can be used in icebox category while the long shape adds weight and value.
4765 Lemon Krush F1	85	16-18 lbs		Tolerant A, FW, PM 1, 2	Large fruit much requested by customers. Firm, sweet yellow flesh. Popular Crimson Sweet Rind pattern
4767 Orange Krush F1	75-78	17-20 lbs		Tolerant F	75-78 Days. Flesh is golden orange, sweet and crispy with overall good clean flavor. Round-oval fruit avg 17-20 lb. External rind pattern is Crimson Sweet type with distinctly delineated bands of deep green and light green.
4868 Yellow Baby F1	65	8-9 lbs			Pure yellow, sweet flesh. Rind is thin but tough with sharp dark green stripes. Fewer seed than most diploids of this size.
4869 Yellow Doll F1	68	5-8 lbs			Earliest yellow-fleshed fruits in our selection. Semi compact vines

Cat#	Watermelon	1/32 oz	1/2 oz	1 oz	1/4 lb	1/2 lb	1 lb	5 lb (per lb)
4694U	Baby Doll	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 sd	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	11.35	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	119.25	112.05	105.45	--



Baby Doll F1

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

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, celosia, 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.



Ageratum Aloha Blue F1



Ageratum Blue Horizon F1



Agastache Golden Jubilee



**Alyssum
New Carpet of Snow**

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*)

A

Approx. 170,000 sd/oz. Sow sd 8-12 weeks before spring sales. Germ in about 10 days at 65-75°F. Great for cutting, drying, or in sunny gardens. Hardy in zones 4-8. Aromatic blooms compliment fern-like foliage. Space 1-1½' apart.

6040 Summer Pastels Mix Blooms first year if planted early. Compact plants bloom in a wide range of shades including pink, rose, apricot, cream, beige, lavender and white. Ht. 30".
 100sd 2.00 500sd 8.55 1000sd 14.15 5M 11.95/M

Agastache (*A. foeniculum*)

P

6050 Golden Jubilee Unique golden foliage shifting towards lime on lower leaves. Massive color display in landscape or container. Crowned with dense spikes of contrasting lavender blue. Quick flowering in four months from sowing. Hardy and heat loving. Grows well in full sun and partial shade. Ht. 18".
 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 F1 4" spreading 6" pot, 8" spreading 8" gdn; Large ocean blue flower clusters stay low over deep green foliage. Early flowering, dense branching, lots of flower color, excellent vigor, durability & gdn performance. For packs, pots, bedding.
100sd 2.15 500sd 9.15 1000sd 15.25 5M 12.50/M 10M 11.25/M



**Achillea
Summer Pastels Mix**



**Alyssum
Wonderland Mix**

6085 Blue Horizon F1 ☞ Pelleted. 20"; Superb cut-flower variety, also landscaping. Mid-blue.

100sd 2.25 500sd 9.55 1000sd 15.65 5M 13.30/M

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 2.70 1000sd 3.85 5M 3.15/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 1.20/M

Amaranthus (*A. caudatus*)

A

Sow direct seed after last frost; transplant 4-6 weeks before last frost. Germ in 7-10 days at 70-75°F. Prefers sun. Space 12-15" apart.

6238 Coral Fountain ☞ 3 ft; Coral-pink tassels droop and cascade from atop sturdy stems. Superb filler material for arrangements and bold annual landscape hedger.

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



**Aster
Powderpuffs Mix**



**Ammi
Select White**



**Amaranthus
Oeschberg**

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 1000sd 4.75 5M 3.45/M

Amaranthus (*A. cruentus*)

A

6240 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*)

A

6248 Select White ♂ 3 ft; White umbels, good field-grown filler and specialty cut.

100sd 1.55 500sd 2.30 1000sd 3.25 5M 1.40/M

Aster (*Callistephus chinensis*)

A

Approx. 12,000 sd/oz. Sow sd 6-8 weeks before spring sales. Germ in 10 days at 70°F. Excellent for greenhouse cut flower/pot production. Great for borders and pots in full sun. Blooms midsummer to frost. Space 6-12" apart.

6250 Bonita Mix ♂ 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.

100 sd 1.55 500 sd 4.95 1000 sd 8.30 5M 7.10/M



**Begonia
Big Red Bronze Leaf**



**Begonia
Ambassador Mix F1**

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.

100 sd 2.00 500 sd 7.45 1000 sd 11.80 5M 9.90/M

6268 Matsumoto Mix ♂ Upright flowering habit. Medium-sized flowers with distinct yellow center. Strong, sturdy stems with 2" blooms. Heat and disease resistant. Ht. 2½'.

100sd 1.55 500sd 2.30 1000sd 3.30 5M 2.85/M

6283 Milady Mix Dwarf series. Neat mounded habit makes this one of the most durable Asters for bedding and container use. Blooms midsummer to frost. Ht. 12".

100sd 1.55 500sd 2.95 1000sd 4.20 5M 1.80/M

6288 Powderpuffs Mix ♂ Lovely bouquet-type habit. Profuse, 3" double flowers, good range of colors. Wilt resistant. Ht. 2'.

100sd 1.55 500sd 2.00 1000sd 3.00 5M 1.75/M

Begonia Fibrous-Rooted

(*B. semperflorens*)

A

Pelleted. Approx. 56,000 pels/oz. Sow Dec.-Jan. for spring sales. Germ in 2-3 weeks at 70°F. under light. Excellent for bedding, borders and containers. Performs in shade or sun. Blooms late spring until frost. Space 6-12" apart. Ht. 6-8" unless otherwise stated.

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

100sd 1.55 500sd 3.90 1000sd 6.55 5M 5.60/M 10M 5.00/M



Aster Bonita Mix



Begonia Non Stop Mix F1



**Amaranthus
Hot Chili**

Cocktail F1 Series Deep bronze foliage. Sun-tolerant.

6379 Gin 6382 Vodka

100sd 1.55 500sd 3.20 1000sd 5.40 5M 4.60/M 10M 4.15/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 4.00 1000sd 6.85 5M 5.50/M 10M 5.15/M

Begonia Tuberous-Rooted

(*B. x tuberhybrida*)

A

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

6428 Nonstop Mix F1 Double blooms 3½-4½". Compact basal branching plants. Ht. 8".

100sd 3.65 500sd 16.75 1000sd 30.55 5M 26.00/M

Begonia (*B. x benariensis*)

A

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

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 5.75 100sd 13.65 500sd 63.10 1000sd 116.15



Canna
South Pacific Scarlet F1



Celosia Brainiac Mix



Celosia Chief Mix

Bupleurum (*B. rotundifolium*)

A

Approx. 12,000 sd/oz. Excellent cut or dried. Sow direct seed as soon as soil can be worked. Germ in 14-21 days at 55-60°F. Space 10" apart.

6500 Green Gold ♂ 30"; Yellow flowers in small 2" umbels. Classic bouquet filler.

100sd 1.55 500sd 7.70 1000sd 3.20 5M 2.75/M

Calendula (*C. officinalis*)

A

Approx. 3,500 sd/oz. Also known as Pot Marigold. Sow sd about 6 weeks before sale as green plants. Germ in about 10 days at 70°F. Bedding, borders, pots and window boxes in full sun. Bloom best in cool weather.

6515 Cantaloupe ♂ 24" spreading 12"; Shades of apricot, pink and cream. Large double flowers with dark or yellow centers. Erect habit. Good for borders or planter. As specialty cutflowers, produces a very pretty pastel mix, a ready-made bouquet.

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
Champion Pro Mix



Calendula
Cantaloupe

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 F1 ♂ 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 3.60 100sd 5.15 500sd 23.40 1000sd 42.20

Canna

P

6599 South Pacific Scarlet F1 24" spreading 10" in 2-gallon, 4 ft spreading 18" in gdn; The first F1 Canna, with extra vigor and more & larger blooms than older varieties. Brilliant 4" hot scarlet flowers in clusters of 6-7 per spike, on sturdy stems held well above broad statuesque foliage. Top quality for container, planter, beds & borders.

10sd 8.20 50sd 31.90 100sd 45.55 500sd 208.95 1000sd 381.00

Carnation (*Dianthus caryophyllus*)

A

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

6591 Chabaud Florist Mix ♂ 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 5M 2.35/M



Carnation Chabaud
Florist Mix



Calendula
Pacific Beauty Mix



Bupleurum
Green Gold

Celosia

A

Approx. 36,000 sd/oz. Sow sd 4-6 weeks before sale as green plants. Germ in 10-12 days at 70°F. Dwarf for bedding. Others excellent for borders and cutting; flowers dry easily. Best in full sun. Bloom summer to frost. Space 12-18" apart.

Crested Types (*C. cristata*)

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**

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

6666 Mix **6667 Red**

100sd 1.55 500sd 3.80 1000sd 6.45 5M 5.45/M



**Cleome
Queen Mix**



**Celosia
Fresh Look Red**

6700 Kurume Mix ♂ < 48"; Tall strong stems with large globular brilliant color combs.

100sd 1.55 500sd 3.60 1000sd 5.15 5M 4.30/M

6680 Neo Mix ♂ < 28"-40"; Improved, less daylength sensitive, with vivid, unique new colors and smaller leaves. Easy to arrange, eye catching in shop. Premium quality cut-flower for greenhouse or field.

50sd 6.20 100sd 8.85 500sd 40.70 1000sd 74.35

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 3.85 1000sd 6.40 5M 5.25/M 10M 4.85/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".

100sd 1.55 500sd 5.30 1000sd 9.00 5M 7.30/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 5.65 100sd 13.45 500sd 62.20 1000sd 114.40

6670 Fresh Look Red Pelleted. Bright fresh green-leaved companion to the well known New Look. Broad plumes on vigorous branching habit. Ht. 14".

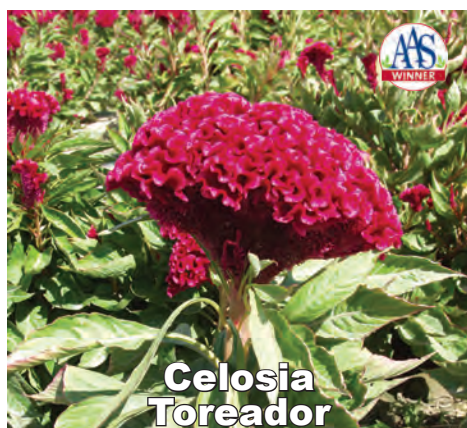
100sd 1.55 500sd 3.80 1000sd 6.40 5M 5.20/M

6692 Kimono Mix Very uniform, dwarf plant habit. Bright colors do not fade under strong summer sun. Ht. 8".

100sd 1.55 500sd 3.85 1000sd 6.40 5M 5.30/M



**Celosia
Prestige Scarlet**



**Celosia
Toreador**

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

100sd 1.55 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 6.70 500sd 30.80 1000sd 56.30

Cleome (*C. hassleriana*) **A**

Approx. 13,000 sd/oz. Also known as Spider Plant. Sow March-April for May sales. Pre-chill sd for 5 days before sowing. Drought and heat tolerant.

6780 Queen Mix Cherry, rose, violet, mauve and white.

100sd 1.55 500sd 2.10 1000sd 3.00 5M 1.20/M

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

25sd 4.55 100sd 10.85 500sd 50.35 1000sd 93.15 5M 75.20/M

Coleus (*C. blumei*) **A**

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".

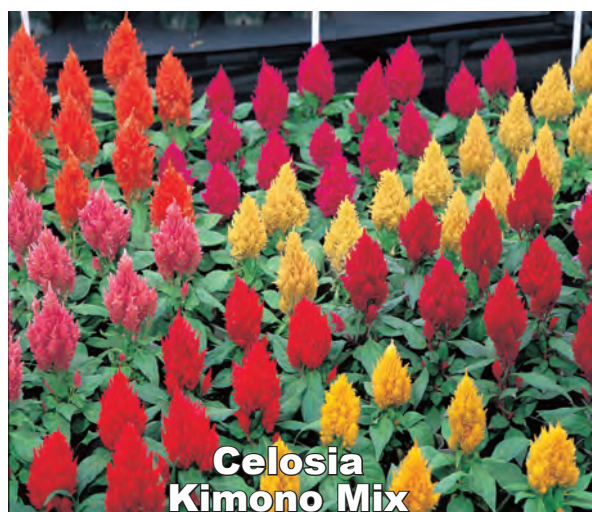
25sd 6.05 100sd 14.40 500sd 66.55 1000sd 122.35 5M 104.10/M



**Celosia
Dragon's Breath**



**Coleus
Premium Kong Empire Mix**



**Celosia
Kimono Mix**



**Celosia
Century Mix**



**Cleome
Sparkler Blush F1**



Cosmos Double Click Mix



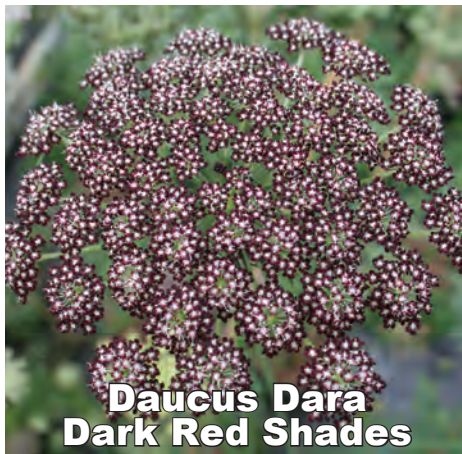
Coleus Wizard Mix



Dahlia Figaro Mix



Cosmos Sonata™ Mix



**Daucus Dara
Dark Red Shades**

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 4.95 1000sd 8.45 5M 6.85/M 10M 6.25/M
Wizard® Series Compact habit needs no pinching and resists stretching. Slow bolting. Ht. 10".

6843 Mix 6844 Red Velvet
100sd 1.55 500sd 5.00 1000sd 8.50 5M 7.15/M

Coreopsis (*C. grandiflora*) **P**

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 2.00 500sd 8.55 1000sd 14.15 5M 12.00/M

Cosmos (*C. bipinnatus*) **A**

Approx. 4,000 sd/oz. Sow 5-7 weeks before spring sales. Germ in 5-10 days at 70-80°F. Excellent for beds, mass plantings in sun; fine for cutting. Space 12" or more apart.

6880 Double Click Mix ♂ 24"-30" spreading 18"; Delightful full double Cosmos. Very floriferous, informal mum-like blooms with strong stems. Long flowering period. Choice fieldgrown cut flower, landscape and knee-hi gdn.

100sd 3.25 500sd 13.95 1000sd 23.40 5M 19.70/M

6883 Early Sensation Mix Colors White, pink and rose shades. Ht. 3½-4'.

100sd 1.55 500sd 2.90 1000sd 4.15 5M 3.50/M

6908 Sonata™ Mix (4 colors) Large graceful blooms 3-4" across from June to late Sept. Semi-dwarf, erect plants, free-flowering habit. Showy for borders, tubs; excellent for cutting. Pack sales. Ht. 2'.

25sd 1.55 100sd 3.25 500sd 13.70 1000sd 22.45 5M 19.10/M

6930 Cosmos Xenia ♂ 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.

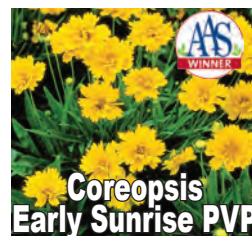
25sd 1.80 100sd 4.30 500sd 20.05 1000sd 37.25 5M 29.85/M



**Cosmos
Early Sensation Mix
Colors**



**Coleus
Superfine Masterblends
Rainbow Mix**



**Coreopsis
Early Sunrise PVP**



**Cosmos
Cosmic Mix**

Cosmos (*C. sulphureus*)

A

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 semi-double golden-orange blooms all season. Packs, Pots or Bedding. Ht. 12".

Prices for Cosmic Mix and Cosmic Orange:

100sd 1.55 500sd 5.25 1000sd 8.80 5M 7.50/M

Dahlia (*D. pinnata*) **A**

Approx. 2,900 sd/oz. Sow 4-6 weeks before sale in green packs. Germ in 7-14 days at 65-70°F. Bedding, cutting. Full sun. Bloom summer to frost. Space 12-15" apart.

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

100sd 1.55 500sd 5.50 1000sd 9.50

6955 Bloody Mary Mix Dwarf bronze leaved strain, extra compact, double & semi-double flowers. Ht. 15".

100sd 1.55 500sd 4.75 1000sd 8.20

6973 Figaro Mix Early blooms for commercial production. Dwarf plants; single, semi-double blooms. Ht. 1'.

100sd 3.25 500sd 13.00 1000sd 19.55 5M 16.60/M

6989 Harlequin Mix Single blooms with two-tone solid colors and bicolors. Ht. 12".

100 sds 3.25 500 sds 13.95 1000 sds 23.35

Daucus (*D. carota*) **A**

6995 Dara Dark Red Shades 6 ft; Ornamental carrot. Red flowers fading to shades of rose and pink. Much sought after as specialty cutflower and very nice for fieldgrown crops. Pleasantly aromatic, ferny carrot foliage. Bee and butterfly plant.

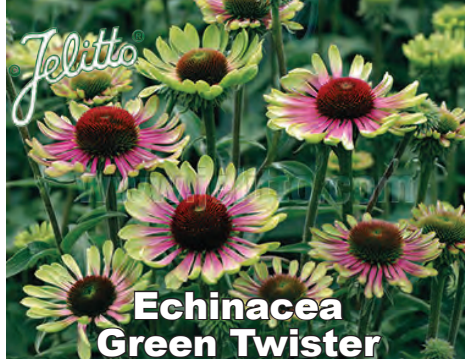
100sd 2.35 500sd 10.10 1000sd 16.95 5M 13.40/M

Delphinium (*D. cultorum*) **P**

Sow 8-10 weeks before sale as green pack plants; or sow mid-summer for blooming pot plants following spring. Germ in about 18 days at 70-75°F. Excellent for backgrounds, bedding, cutting. Full sun/partial shade. Hardy in zones 4-8. Space 24-36" apart.

6999 Giant Pacific Mix Approx. 13,000 sd/oz. Exceptional, immense spikes of large florets (95% are double). Somewhat resistant to mildew. Mix includes jewel-like pinks, roses, purples and many shades of blue; dark and light bees. Ht. 5'.

100sd 1.55 500sd 5.50 1000sd 10.00 5M 8.40/M



**Echinacea
Green Twister**



**Dusty Miller
Silverdust**



**Echinacea
PowWow Wild Berry**

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 9.50 1000sd 10.00 5M 8.40/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.

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

Super Parfait F1 Series (*Dianthus x chinensis*) Annual. Excellent varieties in dessert-delicious colors with contrasting darker eye. Flowers average 2" across. Outstanding in packs. Early, compact, branching plants. Ht. 8".

7071 Raspberry 7072 Strawberry
50sd 2.30 100sd 3.30 500sd 15.05 1000sd 27.35 5M 23.30/M
7117 Telstar Mix F1 (*Dianthus chinensis*) Annual. Early flowering dwarf variety which continues to bloom until frost; heat resistant. Excellent for pot, pack and bedding. Ht. 10".
50sd 2.30 100sd 3.30 500sd 14.55 1000sd 25.25 5M 21.50/M

Sweet William

9366 Hollandia (*Dianthus barbatus*) Perennial. Can be used for flowering any time of the year. One planting can produce flowers in a wide range of colors over a long period. Excellent for greenhouse production, in cool climates, during autumn and winter months. Color range includes pinks, reds, whites, purple, and many intermediates. Ht. 2".
50sd 3.60 100sd 5.15 500sd 23.70 1000sd 43.45 10M 33.55/M

7099 Rockin' Red F1 (*Dianthus x 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 5.35 100sd 12.75 500sd 58.50 1000sd 106.65



Dianthus Telstar Mix F1



Dianthus Sweet Mix F1

7074 Sweet Mix F1 ♂ (*Dianthus barbatus*) Pelleted. 3 ft; FYF; no vernalization required. Top quality professional cutflower traits. Uniform stem length and bloom timing. Good frost and heat tolerance. Blooms are fragrant and long lasting. For field or greenhouse production.

25sd 1.75 100sd 4.15 500sd 19.05 1000sd 34.85

Dusty Miller

♂ P

Approx. 73,000 sd/oz. Sow 10-12 weeks before spring sales. Germ in 20-25 days at 70-75°F.

7169 Silverdust (*Senecio cineraria*) Perennial. Silvery-white with serrated leaves. Ht. 6-8".
100sd 1.45 500sd 1.90 1000sd 3.00 5M 1.75/M

Echinacea hybrida

7170 Cheyenne Spirit F1 24-30"; FYF; Blazing color mix available for the first time from seed. Exceptional plant habit, flower quality and uniformity. No vernalization. Excellent in gallons, quarts & landscape. Includes shades of cream, orange, purple, red, scarlet, white and yellow.

25sd 10.15 100sd 24.15 500sd 111.70 1000sd 205.70 5M 175.05/M

Echinacea purpurea P

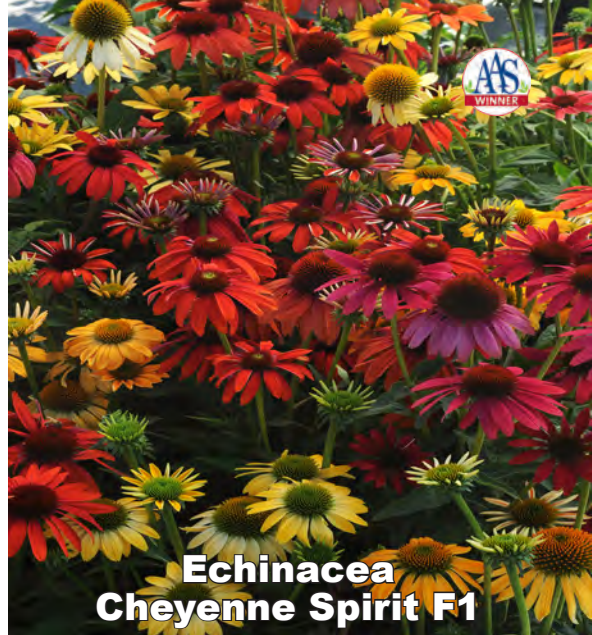
7174 Bravado ♂ Showy flowers with broad horizontal petals. Bright rosy purple blooms on strong stems. Garden plant and long lasting, productive cut flower. Ht. 32".
100 sds 1.55 500 sds 3.45 1000 sds 5.80

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.
25sd 3.20 100sd 7.60 500sd 35.35 1000sd 65.40 5M 54.70/M

7180 Magnus Superior ♂ 40"; Deep, brilliant carmine red, broad horizontal overlapping petals, red-gold cones. Dark stems and deep green leaves. Extremely sturdy plant with very durable flowers. For perennial borders, large container centerpiece, specialty cutflower, field or high tunnel, and bold mass landscape.
50sd 2.30 100sd 3.25 500sd 14.20 1000sd 24.30 5M 18.20/M

7175 PowWow Wild Berry 16-20"; FYF Unique, intense rose-purple flowers with dark rose center.

25sd 6.10 100sd 14.50 500sd 67.05 1000sd 123.50 5M 105.10/M



**Echinacea
Cheyenne Spirit F1**



**Echinacea
Magnus Superior**



**Dianthus
Super Parfait Raspberry F1**



**Sweet William
Hollandia**



**Geranium
Maverick Red F1**



**Geranium
Multibloom Mix F1**



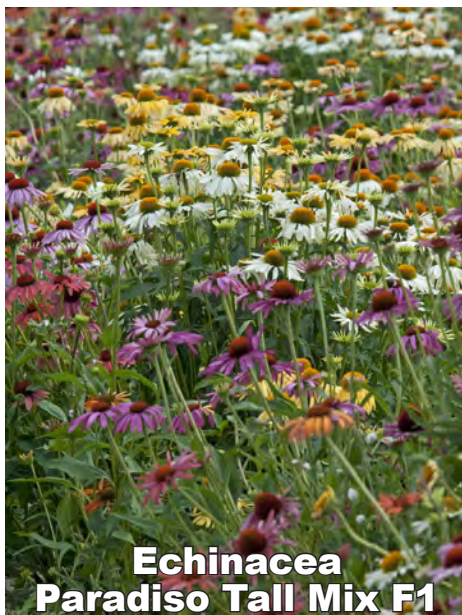
**Geranium
Landscaper Red F1**



**Geranium
Pinto Premium Violet F1**



**Gerbera
Majorette Mix F1**



**Echinacea
Paradiso Tall Mix F1**

Echinacea x hybrida 🌱 P

7196 Paradiso Tall Mix F1 ♂ 24" pot, 32" gdn; Mostly FYF. Interspecific crosses blended to provide a broad, unique color range of scarlet, red, yellow, white, salmon, deep rose & soft pink. Flower form varies, from downcurved to horizontal, a few with fluted petals. Excellent material for fieldgrown or high-tunnel cutflower crop, or perennial border.

25sd 3.50 100sd 8.30 500sd 38.60 1000sd 71.55 5M 59.35/M

Gaillardia (*G. x grandiflora*) P

Approx. 17,000 sd/oz. Also known as Blanket-Flower. Sow 6-8 weeks before sales. Germ in 7-10 days at 70-75°F. in light. Excellent for mass planting, full sun; thrives in hot, dry or poor soil. Blooms Jul.-Sept. Space 9-12" apart.

Arizona Series 12" spreading 12"; FYF; no 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 3.30 500sd 14.70 1000sd 25.80 5M 21.95/M

Gazania (*Gazania rigens*) A

Approx. 12,000 sd/oz. Start 4-6 weeks before sale. Germ in 10 days at 60-65°F. Excellent for beds and mass plantings in full sun. 12-18" spreading.

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 9.60 5M 8.20/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 11.00 1000sd 18.15 5M 15.35/M



**Gaillardia
Arizona Sun**



**Gazania
Talent Mix**

Geranium (*Pelargonium x hortorum*) A

Approx. 6,000 sd/oz. Sow 12-14 weeks before spring sales. Germ in 10-14 days at 70-75°F. Beds or containers in sun. Bloom spring-frost. Space 1' apart.

7334 Landscaper Red F1 FilmCoat. Classic fire engine red. Robust, strongly branched habit spreading to 16". Extra-large, round flower heads. Great as a premium container product. Landscapers love it. Ht. 18".
10sd 2.00 50sd 7.80 100sd 11.15 1000sd 94.20 5M 80.15/M

Maverick F1 Series FilmCoat. Superb for 4 or 6" pots. Crop time 13-14 weeks. Uniform well-branched plants with big 5-6" blooms. Ideal for beds as well as containers. Cycocel responsive. Ht. 16".

7308 Mix 7306 Orange 7309 Pink
7310 Red 7311 Star
10sd 2.00 50sd 7.80 100sd 11.15 1000sd 94.20 5M 80.15/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 7.65 100sd 10.95 1000sd 93.00 5M 79.10/M
Pinto Premium Series F1 FilmCoat. Zoned foliage. Uniform with large round florets and overlapping petals. 14-15 weeks. Ht. 10".
7384 Mix 7388 Scarlet

7389 Violet 7390 White to Rose
10sd 2.00 50sd 7.80 100sd 11.15 1000sd 94.20 5M 80.15/M

Geranium Ivy Leaf A
(*Pelargonium x petatum*)

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 5.35 50sd 20.85 100sd 29.75 1000sd 251.15 5M 204.60/M

Gerbera (*G. jamesonii*) A

Approx. 7,000 sd/oz. Sow about 5 months before sale as blooming pots. Germ in about 10 days at 70-75°F. Pots or garden in full or part shade.

7481 California Giants ♂ 18"; Long stems, bright mix. Old fashioned type for knee-hi bedding or informal cutflower work. Economical.
25sd 1.55 100sd 3.30 500sd 14.75 1000sd 26.15
7490 Majorette Mix F1 8-10" spreading 10-12"; Extreme uniformity of timing, flower form, habit and high bud count. For bench run crop in quarts or larger mixed planters. Slick-Coat Seed for easy handling.
10sd 4.30 50sd 16.65 100sd 23.75 1000sd 202.30



**Heliotrope
Mini Marine**



**Gomphrena globosa
Strawberry Fair**



Gypsophila Gypsy White



**Hibiscus
Disco Belle Rosy Red**



**Godetia
Grace Mix F1**



**Gomphrena globosa
Buddy Purple**



**Gomphrena globosa
Ping Pong Mix**

Godetia (*G. Whitney*)

A

Approx. 37,000 sd/oz. Sow Dec.-Feb. for April/May flowering. Prefer low temperatures and sun. Very cold resistant.

7489 Grace Mix F1 ♂ Lateral branches produce numerous flowers on strong stems. Highly productive cut flower. Ht. 2½'.

50sd 3.60 100sd 5.15 500sd 23.65 1000sd 43.15 5M 36.65/M

Gomphrena globosa

A

Approx. 12,000 sd/oz. Also known as Globe Amaranth. Sow 6-8 weeks before spring sales. Performs well, germ in 15-20 days at 70-75°F. Excellent everlasting. Space 8-12" apart.

7504 Buddy Purple Blooms on compact dwarf plants. Perfect for gardens in hot, humid areas. Pots and hanging baskets. Ht. 8".

100sd 1.55 500sd 13.70 1000sd 6.40 5M 5.45/M

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 13.70 1000sd 22.30 5M 18.95/M

7509 Strawberry Fair ♂ Brilliant deep rosy-orange and red 1" blooms. Attractive in gardens or in fresh and dried arrangements. Ht. 24".

100sd 1.55 500sd 2.40 1000sd 3.40 5M 2.95/M

Gypsophila (*G. muralis*)

P

Approx. 25,000 sd/oz. Also known as Baby's Breath. Germ in 7-10 days at 65-70°F. Beds and gardens in sun.

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

7529 Pink **7531 White**

100sd 2.05 500sd 8.75 1000sd 14.60



**Hollyhock
Chaters Double Mix F1**

Heliotrope (*H. arborescens*)

P

Approx. 43,000 sd/oz. Sow in Mar. for late May sales. Germ in 7-21 days at 68-78°F. under light. Blooms May-Sept. Space 12" apart.

7544 Mini Marine Fragrant deep marine-blue blooms 8-12" across on 10" bushy plants.

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

Hibiscus (*H. moscheutos*)

P

Approx. 2,100 sd/oz. Sow sd Jan.-Feb. for bloom first year. Germ in 15-30 days at 70-80°F. Blooms late summer to frost. Hardy in zones 5-9.

Disco Belle Series 20"; Basal branching habit, 9" diameter flowers.

7580 Mix **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*)

P

7590 Chaters Double Mix F1 6 ft; 100% double large flowers.

50sd 1.60 100sd 2.30 500sd 9.90 1000sd 16.60



**Hypoestes
Splash Select Mix**

Hypoestes (*H. sanguinolenta*)

A

Approx. 22,000 sd/oz. Also known as Polka Dot Plant. Sow year-round; germ in 10-12 days at 70-75°F. Novelty for bedding or foliage plant. Full sun/part shade. Treat with Cycocel for best results. Allow 8-10 weeks for 4" pot production.

7610 Splash Select Mix F1 12" spreading 14"; Compact, improved version of Splash w' more bright colors. Heat and shade tolerant. Dark green leaves with larger areas of pink, white or rose. Compact habit. Popular for bedding, patios, or indoors. Mix contains Pink, Red, Rose and White.

50sd 1.55 100sd 1.95 500sd 8.15 1000sd 13.15

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



**Impatiens Accent
Complete Premium Mix F1**



Impatiens Super Elfin Mix F1

Impatiens New Guinea

(*Impatiens hawkerii*)

A

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 3.75 100sd 5.35 500sd 24.65 1000sd 45.15 5M 38.35/M

Impatiens (*I. walleriana*)

A

Approx. 60,000 sd/oz. Sow sd 6-8 weeks before spring sales. Germ in 10-14 days at 70°F. Bedding, container and hanging baskets. Thrives in full to partial shade. Blooms spring to frost. Space 1-2' apart. Ht. 6-12".

Accent F1 Series High-Viability seed selected for rapid, uniform germination. Early-flowering with 2" flowers on compact, vigorous plants. Ht. 10".

7664 Complete Premium Mix 7665 Deep Pink
7671 Premium Red 7672 Red Star
7675 Premium Salmon 7677 Star Mix

7679 Premium White 7668 Premium Deep Orange
50sd 1.55 100sd 1.95 500sd 8.30 1000sd 13.70 5M 11.65/M

Beacon F1 Series 11" spreading 14"; Highly resistant to Impatiens Downy Mildew (P. obducens). Large 1.25-1.5" flowers. Habit, vigor, timing, flower size and colors are similar to the well known Super Elfin XP. Easy, fast filling color that now lasts all summer again.

7678 Bright Red 7680 Violet
7700 Formula Mix 7681 White
50sd 1.80 100sd 2.55 500sd 10.80 1000sd 17.75 5M 15.10/M



**Impatiens
Beacon Violet F1**



**Lobelia
Riviera Marine Blue**

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 1.80 100sd 2.60 500sd 11.05 1000sd 18.25 5M 14.80/M

Larkspur (*Delphinium consolida*)

A

Approx. 9,000 sd/oz. Sow 6-8 weeks before spring sales; or direct-sow successively for longer period of bloom. Germ in 10-20 days at 65-75°F. Excellent for cut flowers. Blooms best in cool weather and full sun. Space 1-3' apart. Ht. 4'.

7851 Giant Imperial Mix ♂ 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 5M 1.75/M

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 outdoor or greenhouse production.

50sd 3.00 100sd 4.25 500sd 19.50 1000sd 35.60
7877 Echo Mix F1 Pelleted. Tall with all-double blooms. Early flowering on sturdy stems. Ht. 30".
100sd 3.25 500sd 13.85 1000sd 23.00 5M 18.80/M



**Lisianthus
Rosita 2 Blue Picotee F1**



**Impatiens
New Guinea Florific Mix F1**



Lisianthus Echo Mix F1

7900 Mariachi Best Buy Mix F1 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 2 professional cut flower.

50sd 2.75 100sd 3.95 500sd 18.15 1000sd 33.15
7880 Rosita 2 Blue Picotee F1 Pelleted. 3-4 ft; professional cut flower. Group 2 for spring & early summer flower timing. Produces sprays of double rose-form flowers on strong stems. Thick petals, top flowering. Ships well with little botrytis problem. Long vase life, high % usable buds.

50sd 4.60 100sd 6.55 500sd 30.15 1000sd 55.15

Lobelia (*L. erinus*)

A

Approx. 800,000 sd/oz. Sow 10-12 weeks before spring sales. Germ in about 20 days at 70-75°F. Blooms late spring to frost in full sun to partial shade. Space 4-6" apart.

7949 Regatta Mix Free flowering habit with a wide range of colors. The dense, cascading habit is perfect for baskets and planters.

100sd 1.55 1000sd 2.45 5M 1.75/M 10M 1.25/M

7955 Riviera Marine Blue 5"; Extra early flowering, vigorous, compact habit.

100sd 1.55 500sd 1.32 1000sd 2.08 5M 1.75/M



**Marigold
Crackerjack Mix**



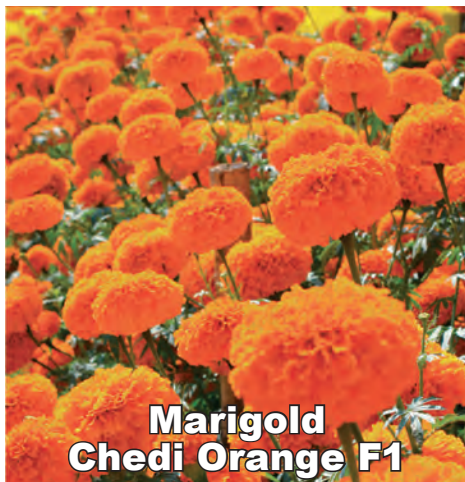
**Marigold
Discovery Yellow F1**



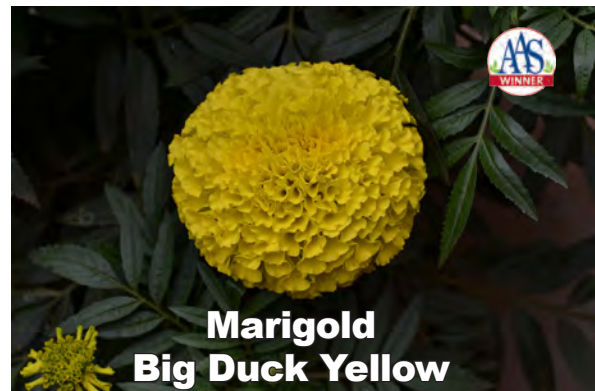
**Marigold
Inca II Yellow F1**



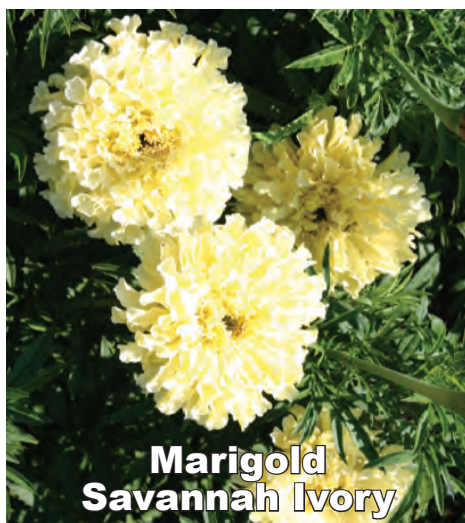
**Marigold
Narai Orange F1**



**Marigold
Chedi Orange F1**



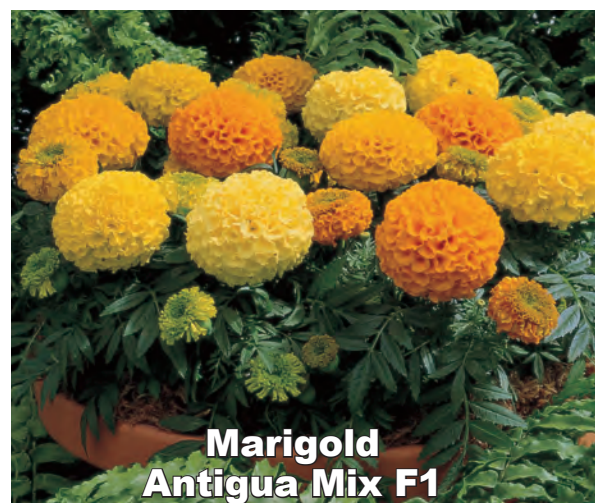
**Marigold
Big Duck Yellow**



**Marigold
Savannah Ivory**



**Marigold
NoSento Lime Green F1**



**Marigold
Antigua Mix F1**

Marigold A 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 F1 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 15.05 1000sd 27.35 5M 23.30/M

Big Duck Series 12" spreading 10" pot, 18" spreading 15" gdn; Robust, densely branching knee-high habit. Foliage 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 20.05 1000sd 36.70 5M 31.25/M

Chedi F1 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

8009 Crackerjack Mix Tall field grown mixture, casual double flowers a classic for field grown cut flowers.

500sd 2.10 1000sd 3.00 5M 1.75/M

Discovery F1 Series Detailed. Earlier flowering with abundant fully double 3" flowers on very dwarf plants. Bedding plant growers will find these plants are an ideal height for shipping. Outdoors they stay neat and clean. Ht. 6-8".

8024 Mix **8022 Orange** **8023 Yellow**

50sd 2.30 100sd 3.25 500sd 13.50 1000sd 21.65 5M 18.45/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 15.05 1000sd 27.35 5M 23.30/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 15.05 1000sd 27.35 5M 23.30/M

8097 Narai Orange F1 ♂ 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 2.90 100sd 4.15 500sd 19.00 1000sd 34.50 5M 29.00/M

8180 NoSento Lime Green F1 ♂ 28"; Scentless leaves. The Marigold odor has been bred out. Large full double bright yellow flr with greenish tint above extra dark green leaves. Harvest when flowers first open. No pinching needed but can be done to increase crop. Grow under tunnel or field in summer. Vase life about 3 weeks. Take care handling stems.

50sd 3.60 100sd 5.15 500sd 23.75 1000sd 43.65 5M 35.70/M

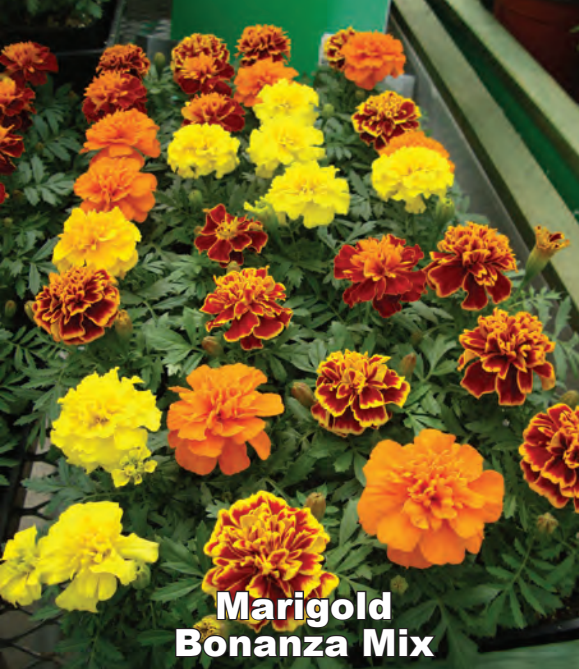
8080 Orangeade ♂ 3ft; Improved orange for xanthophyll production. Special deep orange color for cutflowers.

100sd 1.55 500sd 3.35 1000sd 4.80 5M 4.15/M 10M 3.30/M

8040 Savannah Ivory ♂ Detailed. Creamy near-white flowers have good size, about 3" diam, with cactus-style petals. Semi-double to double. For borders and worth testing as fieldgrown cutflower. Ht. 3'.

50sd 1.55 100sd 1.95 500sd 8.25 1000sd 13.55 5M 11.25/M

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



**Marigold
Bonanza Mix**



**Marigold
Super Hero Spry**



**Marigold
Safari Mix**



**Marigold
Janie Bright Yellow**



**Marigold Triploid
Zenith Lemon Yellow**



**Marigold
Red Cherry**

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

100sd 1.55 500sd 4.30 1000sd 7.30 5M 5.90/M 10M 5.40/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 3.35 1000sd 5.60 5M 4.55/M 10M 4.20/M

Janie Series Detailed. Dwarf, double crested series. Extremely heat resistant. Massive display of 1" flowers atop neat petite plants. Ht. 8".

8219 **Bright Yellow** 8220 **Deep Orange**

100sd 1.55 500sd 5.25 1000sd 8.95 5M 7.30/M 10M 6.60/M

8236 **Red Cherry** A true classic unexcelled for color intensity. Large 1½" double crested flowers. Ht. 12".

100sd 1.55 500sd 3.15 1000sd 4.90 5M 4.10/M 10M 3.70/M

Safari Series Detailed. Bushy, vigorous plants provide an abundance of fully double 2" flowers. Ht. 8-10".

8250 Mix 8251 **Orange PVP**

8257 **Red PVP** 8256 **Yellow PVP**

100sd 1.55 500sd 3.15 1000sd 4.90 5M 4.10/M 10M 3.70/M

Super Hero Series 8-10"; Improved successor to the Hero Series. AAS winning Spry is outstanding in trials for bright contrast. Robust tightly branched plant habit, most uniform in packs & gdn. Earlier to flower, just 7-9 weeks from sow to bloom. Brighter, cleaner colors with very stable flower patterns.

8261 **Deep Orange** 8267 **Deep Yellow**

8263 **Maxi Mix** 8265 **Spry**

100sd 1.55 500sd 4.30 1000sd 7.45 5M 6.15/M 10M 5.60/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 3.45 500sd 15.85 1000sd 29.00 5M 24.65/M



**Melampodium
Jackpot Gold**



**Marigold
Disco Mix**



**Morning Glory
Heavenly Blue**

Melampodium (*M. paludosum*)

A

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

8304 **Jackpot Gold** 10", Larger flower, better, denser branching, with more color than 'Million Gold'. Compact & early, golden flrs, works well as commercial pot crop and performs very well in garden endurance trials. Color all summer to frost.

50sd 2.90 100sd 4.15 500sd 18.80 1000sd 33.85

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** ♂< 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.

100sd 1.55 500sd 2.45 1000sd 3.50 5M 3.00/M



**Ornamental Kale
Maribor F1**



**Nicotiana
Perfume Deep Purple F1**

Nasturtium (*Trapaeolum majus*) **A**

Approx. 175 sd/oz. Germ in 7-12 days at 65° F. Gardens, hanging baskets, and containers. Flowers and young leaves are edible. Grows best in full sun and cool weather.

8325 **Tip Top Mixture** 10"; Dwarf, early, top flowering.
100sd 2.30 500sd 9.85 1000sd 16.50 5M 12.45/M

Nicotiana (*N. alata*) **A**

Approx. 18,000 pels/oz. Also known as Flowering Tobacco. Start 4-6 weeks before spring sales. Germ in about 15 days at 70°F. under light. Beds and borders in sun to part shade. Space 9-12" apart. Excellent heat and humidity tolerance.

8350 **Perfume Deep Purple F1** Pelleted. Upward facing fragrant flowers bloom all summer. Outstanding garden performer as well as container plant. Ht 12".
100sd 2.30 200sd 3.25 500sd 7.20 1000sd 12.50

Ornamental Cabbage & Kale

(*Brassica oleracea*) **A**

Approx. 10,000 sd/oz. Sow 4-6 weeks before late summer. Sell in pots. Ornamental cabbage generally has round-edged leaves while kale has fringed foliage. Chill ornamental cabbage for 3 days in a dark refrigerator immediately after sowing. Kale does not require chilling or darkness. Germ in 7-14 days. Excellent for late summer to fall colors in mass plantings and containers. Best in sun and cool weather. Space 1½" apart.

8353 **Ornamental Cabbage Crane Mix F1** ♂< 2' Cut flower type with round heads on clean, strong stems.
100sd 2.60 500sd 11.05 1000sd 18.30 5M 15.55/M 10M 14.10/M

8354 **Ornamental Cabbage Crane Feather Mix F1** ♂< 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 bouquets.
25sd 2.85 100sd 6.75 500sd 30.95 1000sd 56.45 5M 48.00/M

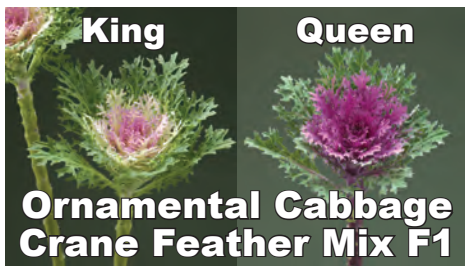
8360 **Ornamental Cabbage Pigeon Mix F1** Round leaf type. Small, uniform and extremely cold tolerant in winter flower beds. Ideal for 4-6" pot production. Colors up quickly for winter show.
100sd 2.50 500sd 10.60 1000sd 17.50 5M 14.90/M 10M 13.50/M



**Ornamental Kale
Peacock Red F1**



**Nasturtium
Tip Top Mixture**



**Ornamental Cabbage
Crane Feather Mix F1**

8366 **Ornamental Kale Black Leaf F1** ♂< 30-34"; Cut-flower 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°F.
100sd 9.30 500sd 42.75 1000sd 78.20 5M 66.55/M

8882 **Ornamental Kale Maribor F1** Unique foliage is vibrant purple at base and tipped with deep, blue-green ruffled fringe. Robust, edible or ornamental for garden or container. Ht. 15".
100sd 3.25 500sd 13.60 1000sd 21.90 5M 18.10/M 10M 16.40/M

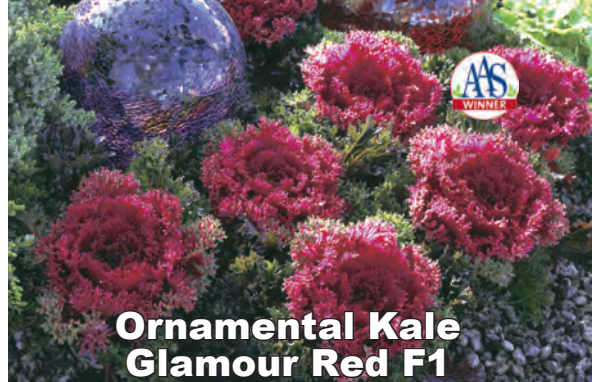
Ornamental Kale Nagoya F1 Series Long lasting cool season bedding plant with uniform habit and colorful fringed leaves. Good for autumn to winter container sales.

8391 **Red** Deep rose-red centers, burgundy outer leaves with frilled edges.

8392 **Rose** Bright rose color.

8393 **White** Ivory/blue-green.

100sd 1.95 500sd 8.10 1000sd 13.00 5M 10.55/M 10M 9.65/M
Ornamental Kale Peacock F1 Series Feather-type produces deeply notched and serrated foliage. Excellent for late summer/fall color. Large heads and sturdy stems withstand cold. Also edible garnish. Ht. 10".
8407 Red 8408 White
100sd 3.25 500sd 13.70 1000sd 22.45 5M 19.10/M 10M 17.30/M



**Ornamental Kale
Glamour Red F1**



**Ornamental Cabbage
Crane Mix F1**

Bicolor

Pink



Red



**Ornamental Cabbage
Pigeon Mix F1**

Purple

White



**Ornamental Kale
Nagoya Series F1**



**Ornamental Pepper
Black Olive**



**Ornamental Pepper
Onyx Red**



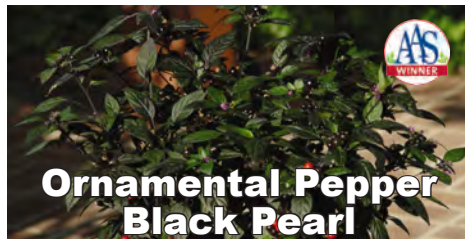
**Ornamental Millet
Jade Princess F1**



**Ornamental Millet
Purple Majesty F1**



**Ornamental Pepper
Chilly Chili**



**Ornamental Pepper
Black Pearl**

Ornamental Millet

8306 Jade Princess F1 ♂ 24" tall x 18" wide pot, 30" tall x 24" wide gdn; Vivid chartreuse foliage with rosy brown pollen-free panicles. Neat mounded shape. Fast and economical, fills a lg container in 4-5 weeks from transplant. Likes it warmer than other millets. For lg containers and landscapes.

8309 Jester F1 42"; Broad chartreuse clumps shift to burgundy blades at maturity and orange-purple foliage at flowering time, when erect maroon spikes crown the plant. Best color in full sun. Longlasting bright accent plant for large containers and landscapes.

8311 Purple Majesty F1 Transplant 14-21 days from sowing; matures 77-84 days from transplant. Fantastic Foliage®. Striking corn-like plant with deep purple foliage, stems and flower plumes. Landscape, Large Container. Ht. 4-5'.

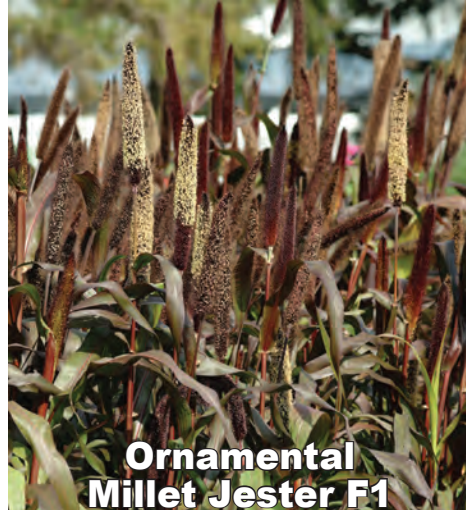
Ornamental Pepper

(*Capsicum annuum*)

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 4.25 1000sd 7.35 5M 5.95/M



**Ornamental
Millet Jester F1**



**Ornamental Wheat
Black Tip Wheat**

8428 Black Pearl ♂ Fantastic Foliage®. Unique, black-leaved plant is bushy, upright and well branched. Foliage matures from greenish to glossy black under high light and heat. Shiny black fruit matures to dark red and is very hot. Keep away from small children. Part of the Fantastic Foliage TM® program advertised nationally. Ht. 15".

25sd 6.10 100sd 14.50 500sd 67.05 1000sd 123.35 5M 104.95/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 4.10 100sd 9.80 500sd 45.35 1000sd 83.50 5M 71.00/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 till 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 7.10 100sd 16.90 500sd 77.50 1000sd 141.25 5M 115.65/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.

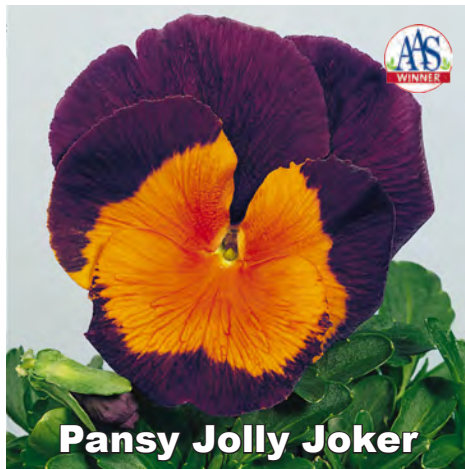
100sd 1.55 500sd 3.50 1000sd 6.15 5M 4.15/M

8459 Silver Tip Wheat ♂ 3 ft; Long heads, pure, light-tan all over with silvery sheen. This Heritage winter wheat is a hybrid of *T. aestivum* X *Secale cereale*. For floral, decorative, weaving and craft use. For Specialty Cuts.

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



Pentas Graffiti Mix F1



Pansy Jolly Joker

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 14.90 50sd 19.30 100sd 27.60 250sd 63.70 1000sd 233.85

Pansy & Viola

A

Pansy has approx. 20,000 sd/oz. Its cousin, the viola has about 34,000 sd/oz. Can winter-over in mild climates. Sow spring, 10-12 weeks before spring sales. Sow midsummer for fall sales. Germ in 8-10 days at 65-75°F. Performs best in cool weather and full sun to part shade. Ht. 4-9".

8530 Pansy Inspire DeluXXe Maxi Mix F1 6" pots, 8" garden; Extra large 3"-3.5" flowers in 'Majestic' class. Early, tight bloom window, with all colors reaching 50% bloom in 75-85 days. Large bloom size. Durable flowers in outdoor performance. Strongly branching. Covers container or ground well and stays compact, with short peduncles both fall and spring. Branches to fill a gallon. Lasts into winter in mild areas. Less daylength sensitivity than other extra-large flower types.

50sd 1.55 100sd 1.95 500sd 8.15 1000sd 13.20 5M 11.25/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.

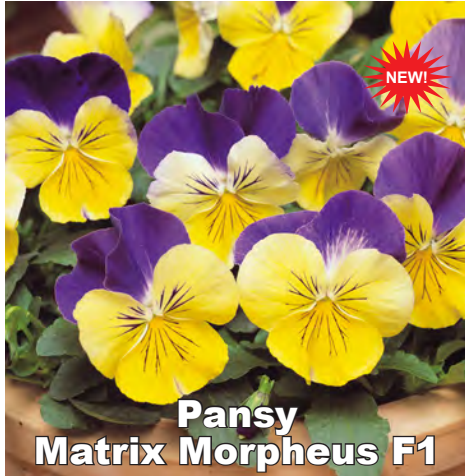
100sd 1.55 500sd 3.95 1000sd 6.60 5M 5.60/M 10M 5.00/M

8545 Pansy Majestic Giants II Mix F1 6"; Large upfacing 3.5" flrs, resists stem stretching. *Primed seed.*

50sd 3.25 100sd 4.65 500sd 21.35 1000sd 39.00 10M 33.20/M

8550 Pansy Matrix Morpheus F1 8" spreading 8"; Large 3.5" flrs. Stunning blue-violet and yellow combo. Super habit, extra uniform even even under longer, warmer days. Short stems and heavy textured petals with great long bench life. Great for fall production.

50sd 2.30 100sd 3.30 500sd 14.90 1000sd 26.65 10M 22.65/M



Pansy Matrix Morpheus F1



Viola Sorbet Mix F1

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

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 2.30 100sd 3.25 500sd 12.90 1000sd 19.30 5M 16.45/M

Pentas (*P. lanceolata*)

Graffiti Series F1 Pelleted. Large flower clusters of vibrant color. Branches strongly, forming a flat mound. Attracts butterflies. Strong performance in heat and humidity. Ht. 8".

8615 Bright Red **8620 Mix** (8 colors)
25sd 3.05 100sd 7.25 500sd 33.30 1000sd 60.90 5M 51.85/M

Petunia

A

Approx. 22,000 sd/oz. Sow 10-12 weeks before spring sales. Germ in 10-12 days at 70-75°F in light. One of the best-loved annuals for gardens and pots in full sun. Space 8-12" apart. Blooms spring to frost. Ht 12" or more

Petunia grandiflora

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

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**
8723 Sugar deep wine-red veins.

100sd 1.55 500sd 4.35 1000sd 7.35 5M 6.25/M 10M 5.65/M

Dreams F1 Series Pelleted. Outstanding disease tolerance. Free flowering, branching habit with excellent garden performance. Blooms 3-3½" across. Ht. 10".

8772 Appleblossom **8773 Midnight** **8774 Mix**

8776 Pink **8777 Red** **8779 White**

100sd 1.55 500sd 4.35 1000sd 7.35 5M 6.25/M 10M 5.65/M



Petunia Dreams Midnight F1



Pansy Inspire DeluXXe Maxi Mix F1



Petunia Daddy Mix F1



Pansy Majestic Giants II Mix F1



**Petunia
Supercascade Mix F1**



**Petunia
Pirouette Purple F1**



**Petunia
Frost Mix F1**



**Petunia TriTunia
ProFormula Mix F1**



**Petunia
Cascade Mix F1**



**Petunia
Prism Sunshine F1**

More Petunia grandiflora

8815 Frost Mix F1 Pelleted. Richly textured, white trimmed edge. Frosted bicolor patterns remains stable throughout the season. Mix is blend of 4 picotees. Ht. 12-14".

100sd 1.55 500sd 4.40 1000sd 7.40 5M 6.30/M 10M 5.70/M

8840 Limbo GP Heather's Mix F1 Pelleted. This beautiful combination of the Petunia grandiflora varieties Limbo GP Violet and Limbo GP Rose was created by Disney Horticulturist Heather Will-Browne, known for innovative use of color combinations in landscaping.

100sd 2.35 500sd 10.10 1000sd 16.95 5M 13.75/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 6.45 5M 5.50/M 10M 4.95/M

8887 Sophistica Lime Bicolour F1 Pelleted. Colors change and develop over growing season. Will appeal to the demand for all-new color. Can be used to spice up mixed container sales. Ht. 10"

50sd 6.65 100sd 9.50 500sd 43.60 1000sd 79.65 5M 67.80/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 4.35 1000sd 7.35 5M 6.25/M 10M 5.65/M

8939 TriTunia ProFormula Mix F1 12-14"; The very best of the classic Ultra, Storm & Bravo series have been combined into the TriTunia series. TriTunias were chosen for best flower power, bloom size, uniformity of compact habit and timing. Traditional, tried and true performance for packs or pots. Huge flowers are impressive in large beds, baskets, and planters.

100sd 1.55 500sd 4.15 1000sd 6.75 5M 5.75/M 10M 5.20/M



**Petunia
Sophistica Lime Bicolour F1**



**Petunia
Picobella Mix F1**



**Petunia
Tickled Pink F1**

Petunia grandiflora double

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

100sd 3.25 500sd 12.80 1000sd 18.90 5M 16.10/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

8756 Rose

50sd 2.30 100sd 3.25 500sd 12.85 1000sd 18.95 5M 16.10/M

Petunia hybrida

8910 Tickled Pink F1 Pelleted. 5 ft; pendant or climbing habit. Abundant mid-size, bright rose-purple flowers. Creates a bold showy mass on trellis or hanging from basket.

50sd 7.20 100sd 10.25 500sd 47.70 1000sd 88.50 5M 72.70/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 2.20 500sd 9.35 1000sd 15.40 5M 12.55/M 10M 11.45/M



**Rudbeckia
Indian Summer**



**Petunia
Opera Supreme Pink Morn F1**



**Rudbeckia
Cherokee Sunset**

Petunia Spreading

8800 Evening Scentsation F1 Pelleted. 5" tall spreading 30" in pot, 8" tall spreading 36" in gdn; Unique fragrance, recalling Hyacinth, Rose and Honey to the senses. Beautiful indigo blue flowers. Strong spreading stems with short internodes and prolific branching produce a tight canopy of flowers for massive color show. For bedding baskets and containers from 6" to gallon. *Great Lakes, Heartland, West/Northwest.*

25sd 6.70 100sd 15.95 500sd 73.15 1000sd 133.45

8844 Opera Supreme Pink Morn F1 Pelleted. Spreads to 4' but stays 4-6" tall. Continues blooming along entire length of stem. Fills beds and baskets beautifully.

50sd 10.85 100sd 15.50 500sd 71.15 1000sd 129.90 5M 107.15/M

Petunia Superbissima

8880 Ruffly Double Cerny Triumph Mix Pelleted. Giant tetraploid flowers up to 5" on upright robust plants. Petals are heavily textured, deeply ruffled with many doubles and semi-doubles. Packs, pots and home gardens.

50sd 1.55 100sd 1.95 500sd 8.00 1000sd 12.50 10M 10.30/M

Petunia Wave

8812 E3 Easy Wave Complete Mix F1 Pelleted. 6" tall x 25" wide pot, 12" tall x 32" wide gdn; Improved Easy Wave type. Shorter crop time in short-day. All colors flower at or under 10 hours daylength. Less PGR needed. Very uniform across the series. Holds well for sales season. Mounded spreading habit. Hot colors for hot sales. Great in beds, baskets, pots.

50sd 11.00 100sd 15.70 500sd 72.60 1000sd 133.55 5M 113.65/M
Easy Wave F1 Series Pelleted. More mounded than Wave Series with up to 3' spread. Container or small space garden. Ht. 8-12".

8781 Blue	8782 Coral Reef	8783 Mix
8786 Neon Rose		8784 Pink
8787 Pink Passion		8785 Red
8790 Red Velour	8791 White	8788 Yellow

50sd 11.10 100sd 15.85 500sd 72.75 1000sd 132.70 5M 108.70/M



**Petunia Spreading
Evening Scentsation F1**



**Petunia
Shock Wave Deep Purple F1**



**Portulaca
Happy Hour Mix F1**

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 8975 Mix
8977 Red 8976 Rose

50sd 11.10 100sd 15.85 500sd 72.75 1000sd 132.70 5M 108.70/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 8932 Purple
8934 Red Velour 8935 Silver

50sd 11.10 100sd 15.85 500sd 72.75 1000sd 132.70 5M 108.70/M

Wave F1 Series Pelleted. 3-6" spreading to 3-4'. Radiant blooms spread out in a circular fashion. Perfect for baskets and a must for commercial landscape.

8965 Carmine Velour 8966 Misty Lilac
8970 Mix 8968 Purple 8967 Pink

50sd 11.10 100sd 15.85 500sd 72.75 1000sd 132.70 5M 108.70/M

Portulaca (*P. grandiflora*)

About 280,000 sds/oz. Sow 6 weeks before spring pack sales. Germ in 10-14 days at 70-80°F. Thrives in dry, poor soils and full sun. Good for rock gardens, borders, annual ground cover and baskets. Bloom spring to frost. Ht. about 6", spreads to 18".

9008 Double Flowered Mix Old-fashioned garden favorite. Double and semi-double flowers in a range of bright, sunny shades.

250sd 1.55 1000sd 2.45 5M 1.75/M 10M 0.45/M



**Petunia
Easy Wave Blue F1**



**Petunia
Tidal Wave Red Velour F1**

9010 Happy Hour Mix F1 Multipelleted. 10"; needs 1 hr less daylight 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 14.05 1000sd 23.70 5M 20.20/M

9029 Sundial Mix F1 Plants are extremely showy because flowers stay open longer.

100sd 1.55 500sd 2.55 1000sd 3.65 5M 3.15/M

Rudbeckia (*R. hirta*)

P

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 25.80 1000sd 48.25

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 13.55 1000sd 21.85

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 13.50 1000sd 21.65 5M 18.45/M

9069 Indian Summer Large golden-yellow 6-9" flowers. Single and semi-double blooms on sturdy stems require no staking. Excellent cut flower. Ht. 3-3½'.

100sd 2.10 500sd 9.05 1000sd 15.15 5M 12.60/M

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

105



Snapdragon Rocket Mix F1



Salvia Vista Red

More Rudbeckia (*R. hirta*) **P**
 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 5M 21.80/M
 9074 Prairie Sun FilmCoat. Golden petals of light yellow with green center. Strong stems and large 5" flowers stand out in floral arrangements or landscape. Firm textured, long lasting. Blooms first summer about 4-5 months from winter sowing making it a choice perennial container plant. Ht. 30".

10sd 3.30 500sd 14.75 1000sd 26.15 5M 21.80/M
Salvia coccinea **P**

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

50sd 2.30 100sd 3.30 500sd 15.15 1000sd 27.70
Summer Jewel Series 14" pot, 20" gdn, 16" spreading. Rated above average or superior by AAS judges because of its early & abundant flowers, blooming from spring to fall. Plants are dwarf and densely branching. Bright flowers and dark-green foliage hold up to wind & rain. Attracts hummingbirds.

9103 Lavender Southeast, Heartlands, Great Lakes

9102 Pink 9100 Red 9101 White
 100sd 2.20 500sd 9.35 1000sd 15.50 5M 13.20/M

Salvia farinacea **P**

Approx. 24,000 sd/oz. Sow 6-8 weeks before spring sales. Blooms in full sun from early summer to frost. Space 12".

9119 Victoria Blue Choice tall blue with long spikes densely covered with intense violet-blue florets. Ht. 18".

100sd 1.55 500sd 3.60 1000sd 5.15 5M 4.40/M 10M 3.60/M



Snapdragon Madame Butterfly Mix F1



Snapdragon Sonnet Mix F1



Snapdragon Twinny Mix F1

Salvia splendens **A**

Approximately 7,500 sd/oz.

9109 St. John's Fire Bright red. Ht. 12".

100sd 1.55 500sd 2.90 1000sd 4.15 5M 3.50/M

9104 Vista Red Early and compact with thick spikes. Day length neutral. Ht. 12".

100sd 1.95 500sd 8.15 1000sd 13.20 5M 11.25/M

Scabiosa **A**

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 2.10 500sd 9.00 1000sd 15.00 5M 11.00/M

Shasta Daisy **P**

(*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 3.00 100sd 4.30 500sd 19.80 1000sd 36.35 10M 29.55/M



Snapdragon Chantilly Mix F1



Rudbeckia Prairie Sun



Salvia Victoria Blue

Snapdragon (*Antirrhinum majus*) **A**

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 7.65 1000sd 11.65 5M 9.90/M

9154 Floral Showers Mix F1 Branching plants flower under short days. Excellent for 4" pot production. Ht. 4".

100sd 1.55 500sd 3.90 1000sd 6.55 5M 5.60/M

9176 Madame Butterfly Mix F1 Open, flaring blooms without the "snap". Long stems make an excellent choice for cut flowers. Ht. 2 1/2'.

100sd 1.95 500sd 8.10 1000sd 12.90 5M 10.95/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 3.60 1000sd 6.15 5M 5.15/M

9198 Sonnet Mix F1 18"; Easy to grow w/ uniform growing habit, strong root system and sturdy self supporting flower stems. Great cutflower also performs well in patio containers and landscape.

100sd 1.55 500sd 3.90 1000sd 6.55 5M 5.60/M

9159 Twinny Mix F1 Dwarf, double-flowered. Compact plant habit and excellent garden performance. Ht. 8".

100sd 2.40 500sd 10.30 1000sd 17.20 5M 14.30/M



Stock Quartet Mix



Sunflower Double Quick Orange F1



Stock Anytime Mix

Statice (*Limonium sinuatum*) ✂ A

Approx. 8,500 sd/oz. Sow 8-10 weeks before spring sales. Germ in 15-20 days at 70°F. Great for cutting, fresh, dried or garden in full sun.

9224 Pacific Mix Strawy blooms in graceful sprays on stiff stems. Color mix includes apricot, three shades of blue, purple, rose, white and yellow. Ht. 2½'.
100sd 1.55 500sd 2.20 1000s 3.15 5M 2.15/M

Statice (*Limonium tatarica*) ✂ P

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*) ✂ P

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



Sunflower Bert F1



Statice Pacific Mix

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.
25sd 1.55 100sd 3.25 500sd 13.35 1000sd 20.95

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 1.90 100sd 2.40 500sd 9.50 1000sd 16.00

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".
100sd 1.55 500sd 2.20 1000sd 3.15 5M 2.15/M

Sunflower (*Helianthus annuus*) 🌱 A

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.

9299 Bert F1 14-16"; Pollen free. Outstanding color show. Large 6" flowers are intense bright yellow with long, broadly overlapping 2" petals and chocolate disc about 2" across. Foliage 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



Sunflower Sunbuzz



Sunflower Big Smile



Sunflower Orange Sun

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
9330 SunBuzz 12" in small pot, 20" in large pot or gdn; Compact pollen free hybrid, branches and re-blooms 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 7.90 500sd 36.50 1000sd 67.15 5M 54.50/M

Sunflower (*Helianthus annuus*) ✂ A

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 3.80 500sd 17.65 1000sd 32.60 5M 27.35/M

9306 Grey Stripe (*Giganteus*) 8-12 ft; Displays mammoth sized flowers measuring up to 20" across with bright-yellow petals, brown-centered, full of tasty seeds.
100sd 1.55 500sd 2.20 1000sd 3.15 5M 2.60/M

9311 Orange Mahogany Bicolor F1 Professional pollen-free cut flower. 5" flowers are rich orange with mahogany ring. 4½" 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/M



Sunflower Pro Cut Orange F1



Sunflower Pro Cut Red & Lemon Bicolor F1



Sunflower Sunbright Supreme F1



Sunflower Soraya



Sunflower Ring of Fire



Sunflower Sunfill Green



Sunflower Pro Cut Plum F1



Sunflower Pro Cut White Nite F1

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
100sd 3.30	500sd 15.15	1000sd 27.60
5M 23.20/M		
9305 Pro Cut Brilliance	9355 OrangedMR	
100sd 3.30	500sd 15.15	1000sd 27.60
5M 23.20/M		
9351 Pro Cut Plum		
100sd 4.00	500sd 18.55	1000sd 34.30
5M 28.45/M		
9315 Pro Cut Red & Lemon Bicolor		
100sd 3.30	500sd 15.15	1000sd 27.60
5M 23.20/M		
9350 Pro Cut Red		
100sd 4.00	500sd 18.55	1000sd 34.30
5M 28.45/M		
9356 Pro Cut White Lite		
100sd 4.75	500sd 22.10	1000sd 40.95
5M 33.95/M		
9357 Pro Cut White Nite		
100sd 4.85	500sd 22.55	1000sd 41.85
5M 34.70/M		
9321 Ring of Fire 5" bicolor disk, dark red at base and golden yellow at tips. 40" branching habit. Good as casual cut or garden flower.		
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'.		
100sd 3.25	500sd 13.25	1000sd 20.55
5M 17.10/M		
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	500sd 9.90	1000sd 16.65
5M 13.85/M		

9337 Sunbright F1 Pollen-free for professional cut flower. 4" diameter, overlapping golden yellow petals with dark center. The industry leader for summer sunflower production. Ht. 5'.

100sd 2.60 500sd 11.00 1000sd 18.15 5M 15.45/M
9338 Sunbright Supreme F1 Cut flower variety, pollen free with yellow flowers surrounding dark center. Grows vigorously under low temperature conditions. Manageable stem length under long days make it an excellent cut flower. Ht. 5'.

100sd 3.25 500sd 13.40 1000sd 21.15 5M 18.00/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 5.25 500sd 24.45 1000sd 45.35 5M 37.75/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
100sd 3.30 500sd 14.90 1000sd 26.70 5M 22.70/M



**Sunflower
Tiffany F1**



**Sunflower
Sunrich DMR Orange F1**



Thunbergia Susie Mix



**Vinca
Cora Cascade Mix F1**



**Sunflower
Vincent's Choice F1**

More Sunflowers

9339 Sunrich DMR Orange F1 4 ft; resistant to Downy Mildew. The world's first F1 pollen-free sunflower to have this trait. Produces cleaner crops with less chemical use. All other traits are like the original 'Sunrich Orange'. Blooms in 65-85 days from sowing, depending on weather. Suitable for sowing and growing spring to summer with long-day conditions.

100sd 3.55 500sd 16.40 1000sd 30.20 5M 25.50/M

Sunrich Summer F1 Series 3-4 ft; bright colors, pollen free cutflower type, nonbranching, midsize 5-6" flowers. Early & day-neutral 50-65 days from sowing, 5-10 days earlier than Sunrich. Superior for spring & summer sowing and growing. Sustains production better under long-day conditions, with more slender and shorter stems.

9291 Lemon 9292 Limoncello 9293 Orange
100sd 3.30 500sd 15.20 1000sd 27.80 5M 23.65/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 14.20 1000sd 24.45 5M 20.80/M

Vincent F1 Series 5-6 ft; pollen-free & day-neutral for year-round production. Short crop cycle, very early at 8-10 weeks. Broad, nicely rounded petals are strongly overlapping, giving the flower a semi-double look. Curved neck holds the flower at 45° angle for optimal color presentation. Small upper leaves for easy shipping & arranging. Professional quality cutflower.

9297 Vincent's Choice
Deep orange petals and brown centers.

9298 Vincent's Fresh
Golden petals and crisp, green centers.

100 sds 3.30 500 sds 14.70 1000 sds 25.95 5 MSd 22.10/M

Sweet Pea (*Lathyrus odoratus*) A

Approx. 300 sd/oz. Sow 4-6 weeks before spring sales or direct sow as early as ground can be worked. Germ in 10-14 days at 55-65°F. Excellent for cut flowers. Full sun; space 10" apart.

9358 Mammoth Mix Climbing variety w' long stems and extra large flowers, good for cutting. 6 ft vine.

100sd 1.95 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 baskets.

9386 Mix Contains orange, white and yellow in plain and bicolor (dark eye).

9381 Orange Eye
100sd 8.00 500sd 37.15 1000sd 68.75 5M 56.30/M

Torenia A

Approx. 26,000 pels/oz. Sow about 8 weeks before spring sales. Seeds germinate in 14-20 days at 70°F. Old-fashioned annual for beds or pots in partial shade. Blooms summer to frost. Space 6-12".

9411 Kauai Mix Pelleted. Offers the fullest range of bright, eye-catching colors. More manageable and cost effective on the bench. More compact habit, tighter 8-day bloom window and earlier than 'Clown'. Ht. 8".

100sd 3.25 500sd 14.20 1000sd 24.35 5M 20.70/M

Verbena A

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 2.50 500sd 10.65 1000sd 17.65 5M 15.00/M 10M 13.60/M

Verbena speciosa P

9417 Imagination Primed. Glowing color, lacy foliage, free-flowering habit. Violet blue blooms on spreading plants. Suggested for massing in landscape and hanging baskets. Performs in hot and dry soils. Ht. 12-24", spreading to 20".

100sd 3.25 500sd 14.15 1000sd 24.15 5M 20.50/M

Vinca (*Catharanthus roseus*) A

Approx. 20,000 sd/oz. Sow 10-12 weeks before spring sales. Seeds germ in about 15 days at 70-75°F. Heat-tolerant plants for bedding, ground covers in full sun. Blooms summer to frost. Space 12" apart.

Cora Cascade Series F1 Trails to 3 plus feet. Extra large 2½" flowers tend to fill center of plant. Thick, dark glossy foliage, dense branching. Resistant to phytophthora. Ht. 6".

9526 Cherry 9525 Mix 9527 Polka Dot
50sd 5.10 100sd 7.30 500sd 33.50 1000sd 61.20 5M 52.00/M

9530 Cora XDR Mix F1 14" spreading 18"; Extended season due to improved resistance to the Phytophthora blight that affects Vinca. Makes growing easier and extends bloom season in the gdn. Improved for branching, uniformity & flower power vs old Cora. For pots, bedding, baskets.

50sd 3.70 100sd 5.25 500sd 24.10 1000sd 44.00 5M 36.05/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 3.30 500sd 14.85 1000sd 26.45 5M 22.50/M 10M 20.35/M

9585 Pacifica Mix XP F1 Huge flower size, 2" across. Unique colors. Approximately 60 days from sowing to first flowers. Strong garden and pack performance. Takes heat and poor, dry soil. Ht. 12".

100sd 1.90 500sd 7.30 1000sd 10.25 5M 8.75/M 10M 7.90/M

Wildflowers

The ideal solution for a natural look where grassy lawns cannot be maintained. Once established, wildflowers are virtually maintenance-free and increase the value of your property. Perennial wildflower mixes are also popular along highways as they return every year.

See Page 112

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

109



Zinnia Dreamland Mix F1



Zinnia Oklahoma Mix



**Zinnia
Pop Art Golden & Red**



**Zinnia Benary's Giant
Blue Point Mix**



Zinnia Holi Mix F1



Zinnia Inca



**Zinnia Giant Dahlia
Flowered Gold Medal Mix**



Zinnia Magna Mix

Zinnia elegans

A

Approx. 3,000-3,500 sd/oz. Sow 4 weeks before spring sales. Germ in 5-7 days at 70-75°F. Full sun. Space 6-12" apart.



Zinnia Cupcakes Mix

9742 Benary's Giant Dahlia Blue Point Mix Long thick stems and large fully double blooms are great for professional cut flower production. Ht. 30".

100sd 3.25 500sd 12.90 1000sd 19.25 5M 16.40/M

9700 Cupcakes Mix 32"; Unusual fluffy crested flower form, and several very unique shades. Numerous 2" blooms on upright stems. Good for fieldgrown cutflower, can be used as colorful filler among larger flowers. Also as whole-plant bouquets and mass landscaping.

25sd 1.65 100sd 3.90 500sd 18.15 1000sd 33.70 5M 28.00/M

Dreamland F1 Series Filmcoated. Combines the Dahlia-flowered class with a dwarf, compact habit. Big 4" flowers just 6 wks from sowing. Fully double flowers. Ht. 10".

9722 Coral 9723 Ivory 9724 Mix
9725 Pink 9726 Red 9727 Rose

9728 Yellow
25sd 3.30 100sd 7.90 500sd 36.35 1000sd 66.45 5M 56.55/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 5M 2.95/M

Holi Series F1 6" spreading 8" pot, 8" spreading 10" gdn; Extremely heat tolerant, born & bred in hot-humid tropical conditions. Large 3-3.5" full double Dahlia type flowers. Superbly branching erect plants. Foliage stayed green and clean all summer, showing no sign of bacterial disease. Sowing to bloom in 65-70 days. For bedding & containers.

9721 Bright Pink 9730 Mix 9731 Scarlet

9733 White 9732 Orange

25sd 4.35 100sd 10.40 500sd 48.40 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'.

100sd 1.55 500sd 4.85 1000sd 8.40 5M 6.70/M

Magna Series 36" tall x 12" wide; Large full double Dahlia-flowered blooms. Rich color range includes special bright green and a deep ruby red. For tall borders and specialty cutflowers in field or high tunnel.

9763 Gold 9766 Mix 9769 Pistachio

9770 Rose 9772 Ruby 9774 Wine

50sd 1.65 100sd 2.00 500sd 8.55 1000sd 14.30 5M 11.10/M

9747 Oklahoma Mix Prolific medium size cut flower has very bright colors and is a heavy producer all season long. The 1½- 2½" flowers are double with some semi-doubles. Resistant to Powdery Mildew. Ht. 30".

100sd 1.55 500sd 3.80 1000sd 6.40 5M 5.45/M

9775 Pop Art Golden & Red 24"; Impressive bi-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



Zinnia Short Stuff Mix F1



Zinnia Starlight Rose

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.

9793 Lime 9795 Mix

9798 Lime Orange

25sd 1.95 100sd 4.70 500sd 21.85 1000sd 40.45 5M 33.70/M
9813 Short Stuff Mix F1 10"; more dwarf than other zinnias, but still show off large, fully double blooms. Ideal for jumbo packs, pots or garden.

25sd 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 1.95 500sd 7.95 1000sd 12.30 5M 10.00/M

Swizzle F1 Series Vibrant bicolors are unique among dwarf zinnias. Produce a canopy of large fully double 4" flowers on dense and bushy plants. Ht. 10".

9820 Cherry & Ivory **9828 Scarlet & Yellow**
 25sd 7.30 100sd 17.35 500sd 80.25 1000sd 147.70 5M 125.70/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 5.55 100sd 13.25 500sd 61.25 1000sd 112.70 5M 95.90/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" double, bicolor flowers. Will sell.

25sd 5.55 100sd 13.25 500sd 61.25 1000sd 112.70 5M 95.90/M



Zinnia Profusion Mix



Zinnia Uproar Rose F1

Zinnia haageana

A

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.

100sd 3.55 500sd 16.50 1000sd 30.50 5M 25.00/M

Zinnia hybrida

A

Profusion Series Filmcoated. An interspecific cross results in uniform plants and long season color. Vivid 2" single blooms cover a dense bushy habit. Tolerant to powdery mildew and other Zinnia diseases. Ht. 12".

9704 Apricot 9705 Cherry 9706 Fire

9707 Mix 9709 Red

9714 Red Yellow Bicolor 9710 White

25sd 2.15 100sd 4.90 500sd 22.60 1000sd 41.55 5M 33.85/M

Profusion Double Series

9711 Double Deep Salmon

9712 Double Deep Hot Cherry

9713 Mix

25sd 2.15 100sd 4.90 500sd 22.60 1000sd 41.55 5M 33.85/M

Zinnia marylandica

A

Zahara Double Series Fully double 2.5" flowers. Dependable leaf-spot and mildew resistance. Ht. 16-20".

9840 Cherry Intense cherry-pink.

9843 Fire Bright, fiery orange.

9844 Mix

25sd 1.65 100sd 3.95 500sd 18.20 1000sd 33.25 5M 28.30/M

9833 Zahara Single Mix 12" tall x 12" wide pot, 18" tall x 18" wide gdn; Large flrs & bright colors., Tolerates disease well and needs less water. Long bloom season. Good in pots, planters, bedding.

25sd 1.65 100sd 3.95 500sd 18.20 1000sd 33.25 5M 28.30/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 3.95 500sd 18.20 1000sd 33.25 5M 28.30/M

Zinnia pumila

A

9703 Cut and Come Again ♂ Double 2½" flowers bloom on long stems making it a choice cut flower. Mixture includes scarlet, shades of pink, yellow, white. Ht. 2'.

100sd 1.55 500sd 3.75 1000sd 6.50 5M 4.65/M



Zinnia Queen Lime Orange



Zinnia State Fair Mix



Zinnia Zahara Double Mix



Zinnia Swizzle Cherry & Ivory F1

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

111



Wildflower Cut Flower Mix

Wildflowers

The ideal solution for a natural look where grassy lawns cannot be maintained. Once established, wildflowers are virtually maintenance-free and increase the value of your property. Perennial wildflower mixes are also popular along highways as they return every year.

Culture: Prepare seed bed as you would for any garden. For large areas, use a disc. Scatter the seeds evenly on the surface of loose soil. For fine seed, it is recommended to blend with coarse sand before sowing. Rake the seeds lightly into the soil but do not cover. In dry areas, sprinkle the seed lightly. Average germ is 80-90%.

9906 Cut Flower Mix Annual. Approx. 692,000 seeds/lb. Composed of 16 different tall annuals with colors ranging from blue, yellow/maroon, yellow, sky blue, white, pink, red. Approx. 7 lbs./acre.

9918 Northeastern Mix 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:

1/4 oz 1.55 1 oz 3.85 1/4 lb 12.85 1 lb 43.00 5 lb 37.75/lb

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 of 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 availability.

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 1/8" 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.)

\$106.25/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. \$148.20/case plus delivery

Case of 2,816 pots (weight: 27 lbs.)

9956 Pots, 3" round. \$106.70/case plus delivery

Case of 1,404 pots (weight: 27 lbs.)

9960 Pots, 2 1/4" square. \$148.20/case plus delivery

Case of 2,560 pots (weight: 27 lbs.)

9962 Pots, 3" square. \$146.70/case plus delivery

Case of 1,260 pots (weight: 26 lbs.)

Jiffy® Strips

Same pots described above; 2 1/4" square. Joined together in strips of 12 for quicker, easier handling; more economical, too.

9968 Peat Strips, 2 1/4" square.

Case of 200 strips/2,520 pots (weight: 26 lbs.)

\$146.00/case plus delivery

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 x 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" x 5/8".

9964 Pack of 200 \$16.15/each

9986 Pack of 1,000 \$87.30/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 \$10.35/each



Vegetable Sowing Guide

Vegetable	Seed Depth	Approximate Days to Germinate	Ideal Soil Temperature	Hardiness
Artichoke	1/2"	14-18	65-85	MH
Asparagus	1/4"	14-21	75-80	T
Bean, Bush/Dry/Pole/Soy	1"	6-9	60-90	T
Bean, Lima	1"	6-9	70-85	VT
Beet	1/2"	5-14	60-85	H
Broccoli	1/4"	5-10	65-85	MH
Brussels Sprouts	1/4"	5-10	65-85	H
Cabbage	1/4"	5-10	55-95	MH
Carrot	1/2"	12-15	60-85	H
Cauliflower	1/4"	5-10	55-80	MH
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	1/2"	6-10	65-95	VT
Eggplant	1/4"	7-14	75-90	T
Gourds	1/2"	3-10	70-90	T
Kale/Collards	1/4"	5-10	65-85	VH
Kohlrabi	1/4"	5-10	65-85	MH
Leek	1/2"	5-7	60-70	MH
Lettuce	1/8"	4-10	40-80	H
Melon	1/2"	4-10	75-95	VT
Mustard	1/4"	5-10	65-85	MH
Okra	1/4"	6-14	70-90	VT
Onion/Shallots	1/2"	10-12	60-70	MH
Parsley	1/4"	14-30	50-80	VH
Parsnip	1/2"	15-25	55-77	VH
Pea	3/4"	7-14	50-75	H
Pepper	1/4"	10-20	68-95	VT
Pumpkin	1"	7-10	70-90	MH
Radish	1/2"	4-10	55-85	H
Rutabaga/Turnip	1/4"	7-14	60-95	H
Spinach	1/2"	4-10	45-65	VH
Summer Squash	1"	4-12	70-90	T
Winter Squash	1"	4-12	70-90	MH
Tomato	1/4"	6-14	60-85	T
Watermelon	1/2"	4-12	75-95	VT

Hardiness rating

VT = very tender; killed by frost; could be damaged by temperatures under 40

T = tender; killed by frost

MH = moderately hardy; survives light frosts

H = hardy; survives frost usually into the low twenties

VH = very hardy; will overwinter if protected

Thank you to fedcoseeds.com for the above information

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

113

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*.



Marigold
Big Duck Orange F1
Heartland



Shallot
(Echallion) Creme Brulee F1
Southeast/Great Lakes/West/Northwest



Tomato
Mountain Rouge F1
Northeast/Southeast/Heartland



Petunia
Evening Scentsation
Heartland/Great Lakes/West/Northwest

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!



Cucumber Green Light F1



Pepper Buffy F1



Tomato Early Resilience F1



Potato Clancy F1



Tomato Red Torch F1



Basil Dolce Fresca



Zinnia Queen Lime Orange



Sweet Corn American Dream F1



Zinnia Profusion Red Yellow Bicolor F1

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

Otis S. Twilley Seed Co., Inc.
121 Gary Road
Hodges, SC 29653

CHANGE SERVICE REQUESTED

PRESORTED STANDARD
U.S. POSTAGE
PAID
OTIS S TWILLEY SEED CO INC

Zinnia
Profusion Red Yellow Bicolor F1
AAS Gold Medal Winner

Pg. 111

2022 Catalog for
Farms, Local Market and
Bedding Plant Growers



To Order Call: 800-622-7333 • 864-227-5140 • Fax: 864-227-5108
www.twilleyseed.com • email: twilley@twilleyseed.com