

# STOKES®

SEEDS

*- Quality Seed Since 1881 -*

*Habanero  
Primerro Red*

**Heat Up  
Your Garden  
with Hot Peppers!**

**See Page 43**

**2019 Gardening Guide**



Hot Pepper - Charger



Pumpkin - Specter



Onion - Rubillion



Corn - Vista XR



Bean - Desperado



Pepper - Snackabelle Red



Broccoli - Hydra



Squash - Butterbaby



Brussels Sprouts - Confidant

Vegetables of Merit

NEW VEGETABLES OF MERIT 2019

BEAN - Desperado: 53 days. High quality 4 sieve medium green bean with straight pods. Well adapted for heat and stress tolerances. Brown seed with excellent germination and plant vigor.

BRUSSELS SPROUTS - Confidant: 130 days. High-quality dark green round 1.2 in/ 3 cm sprout with high yields and ring counts between 16-19. Perfect for mid-early planting.

BROCCOLI - Hydra: 102 days. Medium green smooth domed heads are easy to harvest and are suitable for the bunching and crown markets. Performs best in temperate summer climates.

CABBAGE - Hazelton: 120 days. Round 2 kg/ 4.5 lb easy growing cabbage suitable for long storage.

COLLARDS - Top Bunch 2.0: 70 days. The new generation of Top Bunch! Earlier and more uniform than OP's with vigorous, rapid regrowth. Wavy, lightly savoyed leaves suitable for fresh market bunching and machine harvesting.

CORN - Freedom MXR: 73 days. Widely adapted with great 7.5-8 in/19-20 cm ear appearance and high yield potential. Excellent option for high quality shipping markets. Vista XR: 69 days. First early hybrid with great husk protection and 7.75-8.25 in/19.5-21 cm ear length. An incredible choice for the high quality roadside market.

ONION - Rubillion: 105 days. F1 hybrid. Red, long-day storage type onion. Medium-large bulbs have a flat-globe shape and are medium dark red internally and externally. High percentage of single centers. Stores well.

PEPPER - Snackabelle Red: 70-75 days. Mini 2-2.25 in/5-6 cm sweet bell pepper. Rich, sweet flavor that's great for fresh eating green to red. Excellent for grilling and stuffing. Easy-out stem and seeds allows for quick cleaning. Skyhawk: Early maturing smooth, attractive jumbo sized fruit with a perfect blocky shape and mid-green color.

HOT PEPPER - Charger: Main season variety with an erect vigorous plant and excellent foliage cover. Smooth 7.5x1.5 in/19x 3.8 cm two lobed fruit with thick flesh that matures from green to brilliant red. El Senor: 70 days. Pungent with a great aromatic flavor and taste. Fruit are 10x1.5 in/25x 4 cm with a crinkled top and long cylindrical shape. Turns from medium green to bright red. Don Matias: Dark green, tapered 6x 4 in/16x10 cm, two lobed Mexican type. Vigorous plant and root allows this hybrid to adapt to many regions. Produces high quality large fruit with high yield potential. Dante: Early maturing large Jalapeno, 4x1.5 in/ 10x3.8 cm smooth fruit with an attractive deep green color. High performance plant that holds up in almost any environment and offers early continuous set.

PUMPKIN - Specter: 95 days. F1 hybrid. Medium round 9-12 in/23-30.5 cm white pumpkin with large, firmly attached handles. Uniform shape and size and semi-hard shell that keeps color longer. High yield potential. Miniwarts: 110 days. This frighteningly warted variety is perfect for pumpkin patches and roadside stands. Orange 6x6 in/15.25x15.25 cm shell with green warts, strong handle and a very uniform shape and size.

SQUASH - Cream of the Crop: 75 days. Unique creamy white fruit that stores well and has excellent baking qualities. Compact bush habit, with uniform 6x5 in/15.25x12.75 cm fruit. AAS Winner. Butterbaby: 100-105 days. Plants produce an abundance of sweet 1 lb/454 g personal-size mini butternuts with light tan skin color. Uniform fruit on a restricted vine with excellent storage quality. Can be grown on a trellis.

TOMATO - Roadster: 70 days. Early maturing 8-12 oz/227-340 gr scarlet red, deep globe shaped fruit. Very firm and smooth shouldered with superior flavor. Concentrated set, high yield potential.



Tomato - Roadster



Pumpkin - Miniwarts

VEGETABLE SEED INDEX (FLOWER SEED INDEX PG. 2)

Table with 4 columns listing vegetable and seed names and their corresponding index numbers. Includes items like Asparagus, Beans, Broccoli, Cabbage, etc.



St. Catharines, Ontario - Trial Gardens



Thorold, Ontario - Offices, Warehouse & Retail Store



Buffalo, New York



Vineland, New Jersey

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CHECK



MONEY ORDER



## METRIC WEIGHTS

Since Stokes is a major supplier of flower and vegetable seed in both Canada and the U.S.A., we have had to provide Imperial and Metric weight measurement to serve both customer groups. The following list of equivalents may help you:

1/512 oz. = .06 g	1/64 oz. = .44 g	1/4 oz. = 7 g
1/256 oz. = .11 g	1/32 oz. = .89 g	1/2 oz. = 14 g
1/128 oz. = .22 g	1/8 oz. = 3.6 g	oz. = 28 g

## PLEASE READ THIS LIVE PRODUCT WARRANTY BEFORE ORDERING OUR SEED

NOTE: Seed is a live product which depends on many important related grower skills such as proper planting time, seed depth, type of soil, irrigation, proper use of fertilizers, weed controls, fungicides, insecticides, disease free soil, and reasonable weather conditions during the growing period. These factors are totally out of the seedsman's control and are the growers responsibility and risk. Our seed cannot be unconditionally guaranteed to perform properly - regardless of weather conditions or the growers methods or mistakes.

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Under the seed laws of several states, arbitration, mediation or conciliation is required as a prerequisite to maintaining a legal action based upon the failure of seed to which this notice is attached to produce as represented. The consumer shall file a complaint (sworn for AL, AR, CO, FL, IN, MN, MS, SC, TX, WA; signed only CA, GA, ID, MT, ND, NV, RI, SD) along with the required filing fee (where applicable) with the Commissioner/Director/Secretary of Agriculture, Seed Commissioner, or Chief Agricultural Officer within such time as to permit inspection of the crops, plants or trees by the designated agency and the seedsman from whom the seed was purchased. A copy of the complaint shall be sent to the seller by certified or registered mail or as otherwise provided by state statute.

## CONDITIONS OF SALE

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**CROP FAILURES AND SUBSTITUTIONS:** We are dealing with live products, many of which are harvested after our catalog has been printed. If a crop fails or develops a shortage, we reserve the right to pro-rate the item, substitute another item or refund your money. Please indicate your preference on your order.

**TESTED FOR GERMINATION:** All seed is tested for germination and vigor each year, before being sold. We maintain our own seed testing department, to ensure that only seeds of high germination will be supplied to our customers. Results of the most recent germination test of each stock are marked on all packages of flower and vegetable seed. Germination varies each year.



Bees



Butterflies



Edible



Scented



Containers



Small Pot



Hanging



Hummingbirds



Dried



Cutting



Shade



Full Sun

Flower Symbols

* Celsius	Zone	* Fahrenheit
Below -45.6	1	Below -50
-42.8 to -45.5	2a	-50 to -45
-40.0 to -42.7	2b	-45 to -40
-37.3 to -39.9	3a	-40 to -35
-34.5 to -37.2	3b	-35 to -30
-31.7 to -34.4	4a	-30 to -25
-28.9 to -31.6	4b	-25 to -20
-26.2 to -28.8	5a	-20 to -15
-23.4 to -26.1	5b	-15 to -10
-20.6 to -23.3	6a	-10 to -5
-17.8 to -20.5	6b	-5 to 0
-15.0 to -17.7	7a	0 to 5
-12.3 to -14.9	7b	5 to 10
-9.5 to -12.2	8a	10 to 15
-6.7 to -9.4	8b	15 to 20
-3.9 to -6.6	9a	20 to 25
-1.2 to -3.8	9b	25 to 30
1.6 to -1.1	10a	30 to 35
4.4 to 1.7	10b	35 to 40
Above 4.5	11	Above 40

Average Annual Minimum Temperature Hardiness Zone Map



USDA Plant Hardiness Zones

Zone Map: Included in the index below are the approximate zones of hardiness for each perennial and biennial. Zone 3-6 = 3a-6b.

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Asparagus Millennium



Soy Bean Beer Friend



Pole Bean Seychelles



Pole Bean Kentucky Wonder Wax



Pole Bean Blue Lake

## ASPARAGUS

Asparagus is a perennial vegetable that thrives almost anywhere in Canada and throughout the USA as far south as southern Georgia. Select a well drained site where it will not interfere with annual crops. Protect the growing area with a heavy hay or straw mulch which should be pulled away in the spring. Each fall add a blanket of manure or compost as asparagus is a heavy feeder (4 lbs/2 kg of 5-10-10 per 100 sq ft/9 sq m). Plants are quite spindly and should not be harvested until the second year. A 50 ft/15 m row containing 35 hybrid plants should yield about 20-25 lbs/9-11 kg of spears by the third year. 4461 lbs per acre/2,023 kg per hectare.

**CULTURE:** Sow as early as possible. One packet should produce about 15 roots; Approx. 18,000 seeds should produce enough roots for an acre. Soak seed for 48 hrs. at 85-90°F/29-32°C, before sowing. Prepare a seed bed and sow rows 18-24 in/46-61 cm apart, 3-5 in/8-13 cm apart in the rows, about 1.5 in/4 cm deep. Don't bother to thin plants. Some radish seed mixed in helps to mark the rows and makes cultivation easier. Transplant the resulting roots the following spring. **HARVESTING:** By cutting conservatively the second year, heavy cutting is possible the third year. Begin cutting when tender spears are about 4-6 in/10-15 cm high, just before the scales at the tips begin to open. Snap spears at ground level or cut spears just below the ground. Snapping instead of cutting - helps limit the spread of fusarium by contaminated knives. End harvesting when the shoots are less than .5 in/13 mm in diameter (about July 1st) and allow shoots to form a bushy plant 5-8 ft/1.5-2.4 m high. Trim back to ground level in late September.

**1J WALKER DELUXE F1 hybrid.** Early season, very high yield potential, adapted to warm and cool climates. An all-male plant with medium green spears/purple bracts that feature a tight head for a smooth look. Used for fresh market and processing. High resistance to Rust and Fusarium.

**1A MILLENNIUM F1 hybrid.** Replaces Viking KB3 with a high yielding Canadian all male hybrid. Because they are adapted for cold winters and cool springs, overwintering plants experience less winter kill than most US hybrids. Fresh market spears are very uniform and have a very high "Rutin" content, a natural bioflavonoid which is believed to have anti-inflammatory properties. Moderate resistance to Rust.

## SOY BUSH BEANS

**Culture:** Sow about the same time as you would lima beans (June 1st-15th) depending on latitude. For far northern climates start seeds indoors in 2.25 in/6 cm peat pots. May 1st-15th. Transplant outdoors after danger of frost 5-8 in/13-20 cm apart in rows 24 in/60 cm apart. Roast dried beans like peanuts. High protein value without cholesterol build up. Average protein value is twice that of lima beans (16% picked fresh or 40% used dry). Plant fresh seed each spring for best germination.

**11B BEER FRIEND 70 days.** Early, large podded high yielding Japanese type. Likes cool conditions - sow May 15th, harvest July 1st. Dark green leaves, deep green pods with white pubescence, 2-3 seeds per pod. Long shelf life. Excellent taste salted and dried as a snack.

**11C BESWEET 2001 94 days.** One of the best flavored varieties of food grade, edible soy beans. Plants average 24 in/61 cm in height and produce extra large greenish yellow beans at approx. 1,100 seeds per lb. Very high in protein and have a very high soluble sugar level (brix) averaging 13.2%. If pods are stored in cold storage, in air-tight containers, the beans will hold their sugar for 2 days. Use for tofu or dried and salted. Product of USA.

## KIDNEY BUSH BEANS

**CULTURE:** 1 lb/454 g will plant approximately 150 ft/46 m of row. See page 5 for Runner and Horticultural/Borlotto dry beans.

**5 CALIFORNIA RED KIDNEY 100 days.** Large, light red kidney-shaped beans. Our stock is quite hardy and high yielding. Bush Plant. Brown seed. Untreated seed.

NEW	HYBRID ASPARAGUS		# seeds per pkt	Pkt	250 seeds	1,000 seeds	10 M per M	50 M per M	POLE/BUSH BROAD BEANS								
	(M = 1,000 seeds)								2 oz 57 g	1/2 lb 227 g	1 lb 454 g	5 lb @ per lb	25 lb @ per lb	100 lb @ per lb	500 lb @ per lb		
	1A	Millenium	10	4.50	31.25	78.50	74.00	72.50									
	1J	Walker Deluxe	10	4.50	18.75	47.10	44.40	43.50									
BUSH KIDNEY, SOY										Pkt	2 oz 57 g	1/2 lb 227 g	1 lb 454 g	5 lb @ per lb	25 lb @ per lb	100 lb @ per lb	500 lb @ per lb
	5	California Red Kidney			1.65	3.20	4.40	2.65	2.12	1.70	1.58						
	9	Blue Lake			2.20	4.35	6.00	3.60	2.88	2.31	2.15						
	9C	Seychelles	25	2.75	6.25	16.65	22.20	14.70	11.77	9.44	8.77						
	11B	Beer Friend	25	4.35	15.20	36.30	49.45	40.70	38.02	33.93	33.73						
	11C	Besweet 2001	25	2.75	4.45	10.65	14.50	11.95	11.16	9.96	9.90						
	26	Kentucky Wonder Green			2.20	4.30	5.90	3.55	2.84	2.28	2.12						
	27	Kentucky Wonder Wax			2.20	4.40	6.05	3.65	2.90	2.33	2.16						
	28	Scarlet Runner			3.20	6.25	8.65	5.20	4.16	3.33	3.10						
	30	Broad Windsor Long Pod			2.45	4.85	6.65	4.00	3.20	2.57	2.39						
	30B	Aquadulce			5.20	10.25	14.15	8.50	6.78	5.44	5.06						

## POLE BEANS

One of the nice things about pole beans is that you can grow a lot of beans in very little space. Pole beans live up to their name. They will only grow vertically up poles or trellises. If you try to support them horizontally or leave them unstaked, they will wind around each other and choke each other out. They seem to grow faster up vertical strings than poles. Use rough poles or a trellis, keeping to a reasonable height of 6 ft/2 m, and place them where they will not cast a shadow on the rest of the garden. Two ounces of seed planted in 50 ft/15 m of 36 in/90 cm spaced hills will produce about 25 lbs/11 kg of beans. **CULTURE:** 2 oz/56 g sows 25 hills at 5-6 beans per hill; .5 lb/227 g will plant 100 hills. Sow 5 or 6 beans, 1 in/25 mm deep, around each, then thin to the 3 strongest plants. If you are using a fence for support, thin vines 6-8 in/15-20 cm apart. Pick frequently and keep well fertilized. 2 oz/56 g contains approx. 150-200 seeds. The color of each bean is indicated in the variety description. We list a number of UNTREATED BEANS by signifying UT in the last lines of the description.

**9C SEYCHELLES 55 days.** Dark green 5-6 in/13-15 cm, uniform, straight stringless pods with excellent flavor. Produces high yields in multiple picks in the garden or containers. Vigorous vines can grow up to 6 ft/1.8 m and should be staked. Resistance against Bean Common Mosaic Virus. AAS Winner.

**9 BLUE LAKE 55 days.** A straight, stringless, unusually smooth, dark green bean. Famous for its freezing and canning qualities. Pods are round, tender and meaty, 6-7 in/15-18 cm in length, on vigorous, heavy yielding plants. For untreated seed, order **UT9**. White seed.

**26 KENTUCKY WONDER GREEN 58 days.** (Old Homestead) An old favorite and still our most popular pole variety. Brittle, fibrous pods are 8 in/20 cm long, almost round and silvery green in color. Brown seed.

**27 KENTUCKY WONDER WAX 61 days.** Later-maturing than the green-podded strain, but the same quality, shape and size in butter-yellow pods. Brown seed.

**28 SCARLET RUNNER 65 days.** Brilliant scarlet flowers on 12 ft/3.5 m vines to cover arbors and fences. 6 in/15 cm tender green beans are excellent when cooked. Black seed. Approx. 400 seeds per lb.

## BROAD/FAVA BUSH BEANS

**CULTURE:** 1 lb/454 g will plant approximately 75 ft/23 m of row. Extra large lima-like beans love cold soil and must be planted early in the spring - late April or May, so that plants will mature in early summer when the days and nights are still cool. 2 oz/56 g contains approx 35-40 seeds.

**30 BROAD WINDSOR LONG POD 65 days.** Broad, 8 in/20 cm light green pods contain 6 or 7 large, greenish white seeds. Upright, 24 in/60 cm plants. Use for dried shell beans, fresh market or freezing.

**30B AQUADULCE 65 days.** Larger pods 10 in/26 cm than Broad Windsor. Contains 7 or 8 big greenish seeds per pod. Vigorous 24 in/60 cm plants are very hardy. Use for fresh market, freezing or shell beans.



Oakley



Lasalle



Desperado



Pike



Wyatt

## GREEN BEANS BUSH

**SOWING RATE:** 2 oz/57 g sows 18 ft/6 m of row; .5 lb/227 g sows 75 ft/23 m; 60-80 lbs/27-36 kg per acre depending on variety. Most growers plan for 100,000-105,000 live plants per acre by sowing 110,000-115,000 seeds per acre @ 90% germ. **CULTURE:** Sow every 10 days - from May 20th (use treated seed for early sowings) providing the soil temperature is 60°F/16°C until July 30th. Untreated seed should not be planted until ground temperature reaches an average daytime temperature of 65°F/18°C. Space seeds 2-4 in/5-10 cm apart, in rows 24-30 in/61-76 cm apart. Sow beans fairly shallow - about 1 in/25 mm deep (1.5 in/3 cm maximum). Most commercial growers fertilize before sowing. Seed must not touch concentrated fertilizer. **GERMINATION:** Beans require a minimum soil temperature of 60°F/16°C and a maximum of 75°F/24°C. They will not germinate properly if planted too deeply or too early in cold wet ground. **CULTIVATION:** Do not cultivate after a rain or too early in the morning when plants are wet. This causes Bean Rust, Anthracnose or Blight and helps to spread Mosaic. **TREATED SEED:** Due to the cold soil conditions during May and early June, which prevail in Canada and the Northern parts of the USA, we find it necessary to offer treated seeds. "G" prefixed seed is treated with Cruiser™ seed treatment in addition to standard fungicide products. Contains the class ingredient neonicotinoids. Cruiser™ protects plants from a broad spectrum of seed, soil and foliar chewing and sucking insects to help get crops off to a healthy, vigorous start for a short period. Organic gardeners may choose from those varieties where we indicate that untreated seed is also available - these are marked **UT**. **SHIPPING BEANS** have extra fibre to prevent breakage during the long journey to market and to keep their appearance (less lumpiness). They are never used for processing, freezing or canning, but can be used for the first and last sowings for PYO (pick your own) operations. Chain stores prefer this type - they stay "beautiful" for extended periods. This type can be machine harvested. **FRESH MARKET BEANS F** and **GOURMET BEANS PG** have less fibre and some very tender types will get lumpy fast, if you don't harvest on a regular basis during hot weather. **pvp** Plant variety protected.

## FRESH MARKET PYO AND GOURMET

**18B PROVIDER** 52 days. Standard variety for cool soil, early or late sowings. Medium green 6 in/15 cm round pods. Tolerant to CBMV, NY-15 and PM. Black seed. **S**

**G15G BRONCO** 53 days. The most popular bean in North America during the 1990's and early 2000's. Pods have just enough tender fiber to prevent the round straight 5.5 in/14 cm medium green pods from getting lumpy or overmature too fast. Great choice for PYO growers and smaller growers. Make several sowings two weeks apart for fresh market beans all summer long. Tolerant to CBMV. White Seed. **S, F**

**20 STRIKE** 54 days. Popular continuous set type for "Pick-your-own" market. High yields of 5 in/13 cm, round green pods. Tolerant to CBMV. White seed. **S, F**

**G16F OAKLEY** 55 days. Upright plants carry dark green 4.5 in/11.5 cm 100% 2 sieve pods well off the ground. Tolerance to CBMV, BCTV, Rust and Brown Spot. Some HB tolerance. Very uniform, outstanding flavor, texture. Patented Variety. White Seed. **S, F, PG**

**9B BUSH BLUE LAKE 274** 55 days. Unique flavor and low fiber and seed development in the pod make this strain popular for fresh market or processing. Dark green, round pods average 6 in/15 cm, dwarf bushy plants are tolerant to BV-1; NY-15. White seed. **S, F, PG**

**G20J JADE II** 60 days. Regular Jade with very dark green 5-6 in/13-15 cm 4 sieve oval/round pods. Excellent for three different purposes - freezing, shipping or fresh market. Good tolerance to CBMV. White seed. **S, F, PG pvp**

## FRESH MARKET AND SHIPPING GREEN BEANS

**G15N BA0999** 50 days. An excellent medium green, 5.5 in/14 cm 65% - 3 to 4 sieve; 35% - 5 to 6 sieve, mechanical harvest Storm type for first early sowings only. Good tolerance to CBMV, intermediate tolerance to Brown Spot. High yield potential. White Seed. **S, F**

**G25E DESPERADO** 53 days. High quality 4 sieve medium green bean with straight pods. Well adapted for heat and stress tolerances. Brown seed with excellent germination and plant vigor. Replaces Prevail. High tolerance to BCMV. **S, F**

**G15K VALENTINO** 53 days. Quality, low fibre, 3 sieve, Grenoble type for fresh market. Straight dark green pods set well in heat. Tolerant to CBMV. White seed. **pvp S, F, PG**

**G15P COLTER** 53 days. Upright vigorous plant with excellent root system. Medium dark green 5.5 in/14 cm straight round 3-4 sieve pods hold well in the field. Consistent set, reliable yields. High tolerances to CBMV, BCTV and Rust. White seed. Patented Variety. **F**

**G15V SV1137GF** 53 days. High pod placement, upright plant with excellent medium green 5.5 in/14 cm straight, 3-4 sieve pods. High tolerance to CBMV, ANTH and Root Rot. Good yield potential. White seed. **F**

**G15H LEWIS** 53 days. Medium dark green, straight pods average 5.5 in/14 cm in length, 3-4 sieve. Upright plants have an excellent disease package with strong tolerances to CBMV; BCTV; HB; Rust and intermediate tolerance to Brown Spot. White seed. Patented Variety. **S, F**

**G15W LASALLE** 54 days. High yielding, dark, easy to harvest 3-4 sieve bean with high consistent yields. Good heat resistance. Tolerant to CBMV, Halo Blight and Brown Spot. **S, F**

**G15M WYATT** 54 days. Dark green 5.75 in/14.5 cm 4 sieve pods. Plants are tolerant to Root Rot, CBMV, HB, Brown Spot, Curly Top, Common Blight. White Seed. Patented Variety. **F**

**G20E PIKE** 55 days. Darkish green 5.25 in/13.5 cm 3 sieve very straight, slim pods. High yielding erect plants. Excellent machine harvest ability. Tolerant to CBMV, BCTV and some Brown Spot. For untreated seed, order **UT20E**. White seed. Patented Variety. **S, F**

**G15Q AFFIRMED** 56 days. Straight medium green pods, 80% 3-4 sieve size, 5.1 in/13 cm long. The plant sets well, upright off the ground. It has a high yield potential and high resistance to BCMV, Anthracnose and Halo Blight 1,2. Also has an intermediate resistance to Bacterial Brown Spot which can improve performance in cool seasons. **S, F**

**G20D ALDRIN** 56 days. High quality, dark green 5.25 in/13.5 cm glossy very straight pods. Upright plants set pods mid-high to keep bean tips well off the ground during mechanical harvesting. High yield potential and excellent disease tolerances to CBMV, BCTV and Rust make this variety great for bags or fresh market. **F**

**G15T SYBARIS** 56 days. Straight medium sized 100% 3-4 sieve size deep green pods average 5.75 in/14.5 cm. Uniform high quality Valentino type sets pods high on the plant. Tolerant to CBMV plus some Rust 90 tolerance. White seed. **F**

**G20R BOWIE** 56 days. Uniform dark green color, straight 5.5 in/14 cm pods. Upright plants are easy to harvest, 60% sieve 4. Highly tolerant to CBMV, BCTV, HB, Brown Spot and Blight. White seed. Patented Variety. **S, F**

**G15U BA0958** 57 days. Outstanding straight, smooth, medium green, 5.75 in/14.5 cm pod quality. Upright plants have improved tolerance to stress. Tolerant to CBMV plus intermediate tolerance to Brown Spot. White seed. **S, F**

NEW	GREEN BEANS BUSH	Sieve Size	2 oz 57 g	1/2 lb 227 g	1 lb 454 g	5 lb @ per lb	25 lb @ per lb	100 lb @ per lb	500 lb @ per lb
	9B Bush Blue Lake 274	4	2.05	4.05	5.55	3.35	2.67	2.14	1.99
	18B Provider	4.5	2.25	3.50	4.85	2.90	2.33	1.87	1.74
	23 Greencrop	-	2.25	3.50	4.85	2.90	2.33	1.87	1.74
NEW	GREEN BEANS BUSH	Sieve Size	250 seeds	1,000 seeds	10 M per M	50 M per M	80 M per M	500 M per M	1,000 M per M
	G15G Bronco	3-4	5.50	11.23	5.41	4.33	3.43	3.12	2.70
	G15H Lewis	3-4	6.85	13.92	6.70	5.36	4.25	3.87	3.38
	G15K Valentino	3-4	5.95	12.13	5.84	4.67	3.70	3.37	2.92
	G15M Wyatt	3-4	7.35	14.96	7.21	5.77	4.57	4.16	3.63
	G15N BA0999	3-5	6.60	13.39	6.45	5.16	4.09	3.72	3.23
	G15P Colter	3-4	6.40	13.04	6.28	5.02	3.98	3.63	3.17
	G15Q Affirmed	3-4	6.40	13.02	6.27	5.02	3.98	3.62	3.14
	G15T Sybaris	3-4	6.30	12.86	6.20	4.96	3.93	3.58	3.10
	G15U BA 0958	3-4	6.25	12.71	6.12	4.90	3.88	3.53	3.07
	G15V SV1137GF	3-4	N/A	N/A	6.41	5.13	4.06	3.70	3.21
✓	G15W Lasalle	3-4	6.50	13.28	6.40	5.12	4.06	3.69	3.22
	G16F Oakley	2	7.25	14.74	7.10	5.68	4.50	4.10	3.58
	20 Strike	4	5.80	11.76	5.67	4.53	3.59	3.27	2.89
	G20C Caprice	3-4	6.85	13.94	6.72	5.37	4.26	3.88	3.38
	G20D Aldrin	-	7.15	14.52	7.00	5.60	4.44	4.04	3.52
	G20E Pike	2-3	7.15	14.52	7.00	5.60	4.44	4.04	3.52
	G20J Jade II	4	7.15	14.52	7.00	5.60	4.44	4.04	3.00
	G20R Bowie	3-4	6.85	13.94	6.72	5.37	4.26	3.88	3.38
✓	G25E Desperado	4	5.60	11.44	5.51	4.41	3.49	3.18	2.87



Gold Dust



Velero



Sunburst



Teggia



Royal Burgundy

## FRESH MARKET GREEN BEAN

**G20C CAPRICE** 58 days. Upright plant with concentrated sets of 5.5 in/14 cm small sieve pods. Dark green beans are slender, straight and round. Excellent yields! Resistant to CBMV, Halo blight, ANTH and some Brown Spot. White seed. Patented Variety. **S, F, PG.**

## FLAT GREEN BEAN

**23 GREENCROP** 55 days. The standard flat podded snap bean. Pods are half the width of most Romano types, but much longer and just as tender. Excellent flavor, 8 in/20 cm pods. Resistant to CBMV. For untreated seed, order **UT23**. White Seed. **F.**

## WAX BEANS BUSH

**7 ROCDOR** 50-53 days. High class, extra long 6.75 in/17 cm straight, early Sungold type. Harvest young for best quality. For PYO, canning, freezing and fresh market. Resistant to CBMV and ANTH. Black seed. **F, PG**

**G10J SUNBURST** 51 days. Early wax bean to fill in rain delays and sowing gaps. Smooth 5.5 in/14 cm pods have some resistance to CBMV and HB. White seed. **F**

**G10K BSC 825** 54 days. High yields of quality good tasting, extra long 6 in/15 cm slim, round, straight pods with uniform 60% 3 sieve/20% 4 sieve size. Vibrant shiny yellow pods with no green tips that set well off the ground on tall 15 in/38 cm upright plants. Resistant to CBMV, ANTH, Brown spot and heat. Concentrated sets, hand pick. White seed. **F, PG**

**G10 GOLD RUSH** 53 days. Standard heavy yielding, main season yellow. Round, 5.75 in/14.5 cm pods (no green tips). Pods have enough fibre to hold their shape for short distance shipping, fresh market or pick your own. Hand pick or machine harvest. CBMV resistance. White seed. **F, PG**

**G10A GOLD MINE** 53 days. Shorter 5 in/13 cm, 4-5 sieve bright yellow type with less fibre for processing - PYO, fresh market, machine harvest. CBMV, Brown Spot and some HB resistance. For untreated seed, order **UT10A**. White seed. **F, PG**

**G10H GOLD DUST** 56 days. Quality yellow pods set high on upright plants. Round pods average 5.25 in/13.5 cm in length with a higher 35% of 5 sieve beans. Resistant to CBMV and Brown Spot. Hand pick or machine harvest. White seed. **pvp, F, PG**

**G10E SV1003GF** 56 days. Newest main season wax bean with a good tolerance to CBMV and an intermediate resistance to Bacterial Brown Spot. Use for cut beans and fancy packs. Medium size, upright plant, straight yellow pods are high quality. Sieve size average 3 to 4 providing nice slim 5.25 in/14 cm pods with good shelf life. Hand pick or machine harvest. White seed. **pvp, F, PG**

## GREEN BUSH ROMANO

**5L VELERO** 56 days. Long 6.25 in/16 cm medium dark green, dense, uniform pods with good quality interiors. This upright plant has mid-high pod positioning and a good yield potential. High resistance to BCMV and BCTV. **F, PG**

**G5K FURANO** 54 days. Widely adapted upright plant keeps 6 in/15 cm flat medium dark green pods well off the ground. Excellent eating quality - low fibre pods are slightly longer than Roma II. Resistant to CBMV. White seed. **pvp, SF, PG**

**1G ROMA II** 58 days. Medium green flat, wide 6 in/15 cm stringless pods have robust flavor. For roadside markets. Resistant to PRSV, BV-1 and Rust. White seed. **F, PG**

## BUSH & POLE LIMA BEANS

CULTURE: 2 oz/57 g (approx. 50 seeds) sows 20 ft/6 m of row; lb/454g will plant 100-150 ft/31-46 m depending on seed size. Space rows 30 in/76 cm apart, sow beans 5 in/13 cm apart and 1.5 in/4 cm deep. Thin vines to 8 or 12 in/20 or 30 cm apart - they need lots of room. Will not germinate in cold, wet soil. Sow June 10th.

**2 FORDHOOK BUSH 242** 70 days. Standard bush lima. Tolerant to heat, pods 3.5-4 in/10 cm long, with 3 or 4 thick beans per pod. Excellent flavor. For untreated seed, order **UT2**. White seed. **F, PG**

**29 KING OF THE GARDEN** 85 days. Better quality than bush types if properly staked. A vigorous climber on fence or trellis. 8-10 ft/2-3 m tall at maturity. Pods are broad, 4-6 in/10-15 cm long, smooth and flat. For untreated seed, order **UT29**. White seed.

## WAX BUSH ROMANO

**G5B CAPITANO** 56 days. Replaces Romano Gold. Bushy upright 20 in/51 cm plants hold loads of extra long 6 in/15 cm by 0.75 in/2 cm wide, flat 0.75 in/2 cm thick butter yellow straight pods well off the ground during harvests. Approx. 5-6 beans per plant. Resistant to CBMV and Halo Blight.

## HORTICULTURAL/BORLOTTO BEANS

CULTURE: Horticultural types change colors at different stages of maturity. Picked in the early stages, 30-40 days from seeding, flat green pods are used like Lima beans. The fully mature pod will become slightly lumpy and change from green to red, with creamy yellow streaks. These are sold or used as dried beans in Sept/Oct. An interspecies cross between pole and bush types, it will always throw runners with its more vigorous bush plant habit.

**6 FRENCH HORTICULTURAL BUSH** 68 days. Although this strain produces lots of runners, it is not usually staked. Pods are 6-8 in/15-20 cm long, nearly straight, with splashes of red and yellow. For untreated seed, order **UT6**. Beige/Brown seed.

**G6C TEGGIA** 68 days. Improved Volcano type with better red/yellow contrast at full maturity. Growers report better 7 in/18 cm pod length, stronger bush plants without runners and improved yields than other Borlotto or Horticultural types. Rust and CBMV resistance. Buff/red seed. 100 seeds \$5.75; 500 seeds \$18.15; 1,000 seeds \$29.18; 10,000 seeds @ \$14.06 per M; 50,000 seeds @ \$11.25 per M; 80,000 seeds @ \$8.91 per M; 500,000 seeds \$8.12 per M; 1,000,000 seeds \$7.11 per M.

## NOVELTY BEAN

**21 ROYAL BURGUNDY** 51 days. Upright plants yield long straight, round purple pods with bright green foliage. Purple pods turn bright green after 2 minutes of boiling, a "built in" blanching timer for freezing! For untreated seed, order **UT21**. Brown seed. **F**

NEW	WAX BEANS BUSH (M = 1,000 seeds)		250 seeds	1,000 seeds	10 M per M	50 M per M	80 M per M	500 M per M	1,000 M per M	
	7	Rocdor	8.65	17.66	8.51	6.81	5.39	4.91	4.29	
G10	Gold Rush	5.25	10.73	5.17	4.13	3.28	2.98	2.47		
G10A	Gold Mine	6.25	12.78	6.16	4.92	3.90	3.55	3.08		
G10E	SV1003GF	6.60	13.39	6.45	5.16	4.09	3.72	3.23		
G10H	Gold Dust	6.30	12.82	6.17	4.94	3.91	3.56	3.09		
G10J	Sunburst	6.45	13.18	6.35	5.08	4.03	3.67	3.18		
G10K	BSC 825	5.00	10.18	4.90	3.92	3.11	2.83	2.83		
ROMA BEANS			250 seeds	1,000 seeds	10 M per M	50 M per M	80 M per M	500 M per M	1,000 M per M	
G5B	Capitano	5.40	11.00	5.30	4.24	3.36	3.20	3.20		
G5K	Furano	7.95	16.23	7.82	6.25	4.96	4.51	4.07		
5L	Velero	9.40	19.14	9.22	7.38	5.85	5.32	4.64		
NOVELTY/ROMA BEANS			2 oz 57 g	1/2 lb 227 g	lb 454 g	5 lb per lb	25 lb per lb	100 lb per lb	500 lb per lb	1,000 lb per lb
1G	Roma II	2.20	4.30	5.95	3.60	2.86	2.30	2.13		
21	Royal Burgundy	2.20	4.30	5.95	3.60	2.86	2.30	2.13		
HORTICULTURAL/BORLOTTO BEANS										
6	French Horticultural Bush	2.95	5.55	7.65	4.60	3.67	2.94	2.73	2.63	
LIMA BEANS										
2	Fordhook Bush 242	2.60	5.10	7.05	4.25	3.39	2.72	2.53	2.43	
29	King of the Garden (Pole)	2.35	4.65	6.40	3.85	3.07	2.47			



Brussels Sprouts Confidant



Swiss Chard Celebration



Swiss Chard Silverado



Swiss Chard Bright Lights



Brussels Sprouts Cobus

## HYBRID BRUSSELS SPROUTS

**CULTURE:** 1 pkt. of hybrid seed will produce about 50-75 plants; oz/28 g 3,000 plants; acre requires approx. 7,200 plants. For transplanted crops, sow outdoors May 10th-25th, as thinly as possible (3 or 4 seeds per in/25 mm), .25 in/6 mm deep. Cover seeds with fine soil. Transplant from seedling beds to the field in 4 or 5 weeks, when plants are 5 in/13 cm tall. Space transplants 2 ft/60 cm apart in rows 3 ft/91 cm apart. **HARVEST:** As sprouts form at the base of the plant, remove lower leaves and stems. Pinch out the center or growing point, at the top of the plant about Sept. 15th. This encourages rapid development of the upper sprouts. Plants are harvested from the bottom up as the sprouts reach about 1 in/25 mm in diameter in approx. 4-5 pickings. European hybrids may be harvested in one or two picks. Sprouts harvested after moderate freezes are much sweeter in taste. Twenty five plants should produce about 25 lbs/11 kg of sprouts. Germ. 78% -88% in soil. **MATURITY DATES:** Calculated from transplants to harvest.

**45 JADE CROSS** 95 days. Earlier, shorter plant, dark green oval sprouts. Use for bedding plant sales only.

**UT44E HESTIA** 100 days. Bright green round 1 in/3 cm sprouts have delicious yellow interiors - with a higher brix (soluble sugars) at 30°F/-1°C than other hybrids. Harvest about 100 sprouts per plant. Remove plant tops as bottom sprout reaches 1 in/2.5 cm round for uniform top sprouts. AAS Winner. Untreated Seed.

**44G GUSTUS** 117 days. Replaces Oliver with a dark green, round/globe shaped sprout which averages 1 in/3 cm in size. Excellent choice for Canada and Northeastern USA. Exclusive.

**44L CAPITOLA** 125 days. A top variety for sprout quality in the USA. Used for fresh market, processing and machine harvesting. High yield potential.

**NEW 44K CONFIDANT** 130 days. High-quality dark green round 1.2 in/3 cm sprout with high yields and ring counts between 16-19. Perfect for mid-early planting.

**44D COBUS** 130 days. Plant in May or June to mature in Oct-Nov. Medium green 1 in/3 cm round sprouts have good flavor after fall frosts. Compact 30 in/76 cm upright plant provides high field density and averages 70 smooth medium sized sprouts per plant. Exclusive.

**44J REDARLING** 140 days. Striking red-purple obovate-shaped 1.2 in/3 cm buttons. Firm and well-filled sprouts with a unique mild taste. An innovative option for fresh and processing markets.

NEW	HYBRID BRUSSELS SPROUTS (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	10 M per M	25 M per M	50 M per M	100 M per M
	44D Cobus	50	4.25	32.15	28.67	27.14	21.30	20.18
	UT44E Hestia	50	4.25	34.32	30.61	28.97	22.73	21.54
	44G Gustus	50	4.25	33.01	29.44	27.87	21.87	18.09
	44J Redarling	50	5.25	76.65	68.35	64.70	50.77	48.11
✓	44K Confidant	50	4.25	31.30	27.91	26.42	20.73	17.62
	44L Capitola	50	4.25	33.01	29.44	27.87	21.87	18.09
	45 Jade Cross	50	2.70	11.06	9.87	9.34	7.33	6.59
SWISS CHARD		# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	½ lb 454 g	5 lb per lb	100 lb per lb
	40 Burpee's Rhubarb Chard	150	2.70	4.80	10.00	16.85	15.95	14.39
	41B Silverado	150	2.70	3.65	7.60	12.80	12.10	7.60
SWISS CHARD (M = 1,000 seeds)		# seeds per pkt	Pkt	1 M	5 M per M	25 M per M	100 M per M	
	40P Fire Fresh	150	3.50	7.92	5.22	4.58	3.68	
	41F Bright Lights	150	3.50	9.90	6.53	5.73	4.60	
	41J Celebration	150	3.50	8.26	5.45	4.78	3.84	
NOVELTY BEETS		# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	½ lb 227 g	1 lb 454 g	5 lb per lb
	42C Golden Beet	150	4.50	20.10	48.45		142.55	131.70
NOVELTY BEETS (M = 1,000 seeds)		# seeds per pkt	Pkt	1 M	5 M per M	25 M per M	100 M per M	
	42B Touchstone Gold O/P	150	4.25	6.60	4.35	3.82	2.83	



Brussels Sprouts Hestia



Brussels Sprouts Gustus



Beet Touchstone Gold

## SWISS CHARD

**CULTURE:** Pkt. sows 15-25 ft/5-8 m of row; oz/28 g sows 100 ft/31m of row; 6 lbs/3 kg per acre. Sow seed 0.5-0.75 in/13-19 mm deep, thin plants to 4 in/10 cm apart, pulling alternate plants for early summer use. Leaves are cooked like spinach, mid ribs like asparagus and outer leaf stalks make delicious fritters. Plants withstand hot weather, are easy to grow and suitable for freezing. Seed size varies.

**40P FIRE FRESH** 25-35 day baby leaf. The bright red petioles and medium dark green leaves make a great choice for baby leaf production or spring mixes. This upright plant has a moderate growth rate and has uniform, slightly wavy oval leaves with a slight texture. Premium disease package. Resists Bolting.

**41J CELEBRATION** 55 days. Semi savoy dark green glossy leaves with vibrant multicolored petioles which include red, yellow, pink, orange and white colors on highly uniform plants which average 20 in/51 cm in height. Also an excellent source for 30 day "baby leaf chard" with tiny pastel shaded petioles that add color to salads.

**41B SILVERADO** 55 days. More compact 16 in/41 cm plant with dark green, deeply savoyed, glossy leaves and broad white stems. Excellent taste, slow to bolt. Replaces standard large white ribbed types.

**41F BRIGHT LIGHTS** 55 days. A blend of unique Swiss Chard colors including yellow, gold, pink, crimson, orange, purple, white, green and white stripe with several intermediate pastel shaded petioles - express themselves in the seedling stage and become more intense after 5 weeks in the greenhouse or outdoors. Mature plants average 20 in/51 cm. Green savoyed leaves. Colors fade when cooked.

**40 BURPEE'S RHUBARB CHARD** 60 days. Deep crimson stalks, heavily savoyed green leaves.

## BEET (NOVELTY)

**42B TOUCHSTONE GOLD** 55 days. Bright golden color at maturity with green petioles and light green leaves. Interiors are gold slightly zoned. Retains color and sweet flavor when cooked. Uniform round roots, smooth shoulders.

**42C GOLDEN** 65 days. Bright golden orange round novelty beet with refined shoulder, very smooth skin and deep golden interior color. Leaves are light green with attractive yellow baby stems that turn green at maturity. Retains mild sweet flavor and color when cooked (does not bleed interior color like red beets when cooked). Both tops and beets are delicious! Use as a baby beet or regular size for fresh market. Stems are attractive in salads.





Kestrel



Eagle



Ruby Queen



Red Ace



Falcon

## STOKES BUNCHING AND CANNING BEETS

The beet or beetroot, as it is known in Europe, will thrive in all parts of Canada and the U.S.A. Since pests and diseases are not major concerns, it is relatively easy to grow, and can be cropped in succession every 2 weeks, from early spring (frost will not harm the seed or young plants) until midsummer. Beets become too tough and stringy if sown between July 15 and August 15. Late summer sowings are usually seeded about 10 weeks before late fall frosts. The days begin getting shorter in early Sept. and you should allow plenty of time for late crops to mature properly. Although average soil will grow excellent beets, the best crops seem to thrive in rich sandy loam, with a pH of 6.5.

**CULTURE:** Pkt. sows 15-25 ft/7 m of row; oz/28 g 100 ft/30 m; 6-8 lbs/3-4 kg per acre (slightly less if precision seeded). For a continuous supply of bunching beets sow seed every 2 weeks from early April till July 15th. On sandy loam, sow .5-.75 in/13-19 mm deep in rows 12-14 in/30-36 cm apart. When seedlings reach 2 in/5 cm in height, thin to 3 in/8 cm apart in the row. On muck or peat soils, sow at 12 seeds per ft/30 cm or row. Space rows 12-16 in/30-41 cm apart using precision seeders for better uniformity. For smaller sized canning or pickling beets, double the quantity of seed, using a spreader or scatter shoe attachment on your seed drill. Storage or processing beets should be sown about 10 weeks before late fall harvesting. **BABY BEETS** - use Kestrel.

**GERMINATION:** Most seed will germinate in 4-10 days, at 45-70°F/7-21°C soil temp. **INTERIOR COLOR:** Unsettled weather conditions and checks in growth will cause "white rings" in the best of strains. **SIZED SEED:** Most of our commercial strains of beet have been debearded (rubbed smooth) for easier sowing and sized to 1/64 in/0.4 mm increments which is suitable for most precision seeders. Seed size varies. **SPACING:** The number of live seeds per foot, sown by the grower WILL control the size and shape of the beet at harvest. **WEATHER STRESS:** Any severe temperature stress or lack of water, flooding etc., at the 5th leaf stage will cause poor color and interior white rings. **TREATED SEED:** Most of our seed is treated with a fungicide to aid germination in cold spring ground. For **UNTREATED SEED** order UT37 or UT38. **BOLTING TO SEED:** Sudden weather or temperature stress will cause early spring or late fall crops of beets to send up premature seed stalks. The same results can also be caused by sudden release of fertilizer or weed controls, during heavy rain periods - followed by hot weather. One of the initial signs of stress during the 5th or 6th leaf stage, will be white rings in beet interiors.

### HYBRID BEETS

**32D SOLO** 50 days. Provides the ability to singulate plants while direct sowing results in reduced thinning expenses and greater uniformity. Round dark red roots have good interior color, are VERY sweet (12-15% brix) with dark green 14 in/36 cm tops. For bunching or processing. Resistant to CLS, Mildew and Root Rot.

**32 RED ACE** 53 days. Detroit type. Full globe shape, extremely smooth exteriors, deep red interiors, no zoning. Shorter 14 in/36 cm tops are green with some red tinges. Resistant to CLS, PM, DM, DR, RZ and bolting. Unusual honey-sweet flavor is great for fresh market or processing.

**35C KESTREL** 53 days. Rounded globe shaped dark red beets shape up early into smooth round baby beets. Have small crowns without zoning and refined taproots. Use for early bunching. Resistant to CLS, PM, DM, DR, RZ and Bolting. Bright green, short 12 in/30 cm, semi glossy tops.

**32E EAGLE** 54 days. Darkish red interior color has no visible zoning during normal weather conditions. Small roots are very uniform for size, shape and maturity - an excellent baby beet hybrid. Medium green tops are of medium height. Tolerant to bolting. For processing and fresh market.

**32B MERLIN** 55 days. Extremely uniform round shaped beet has a refined taproot and very smooth skin. Leaf color stays dark glossy green throughout the growing season with little or no purple pigment. Erect tops are tall at 15-17 in/38-43 cm and are tolerant to DM, CLS, and drought. Roots have refined crowns, dark red interiors and a good tolerance to zoning during drought and adverse weather. Very high brix sugar content of 14-15%.

**32G FALCON** 60 days. For processing and fresh market growers. An excellent choice for those who need a heat tolerant variety. Main season, large, dark red globe shaped root with medium red interior color. Medium strength crown attachment, small tap roots and very smooth exterior. Medium sized upright tops.

### CYLINDRICAL BEETS

**35F CARILLON** 60 days. Extra long O/P. 10 in/25 cm long, 2 in/6 cm wide. Internal color is dark red without white rings - makes beautiful slices. Stores well, strong foliage is suitable for mechanical harvests.

**32V VULTURE** 63 days. F1 hybrid. Half long blocky roots mature about 4 in/10 cm in length that results in higher yields than longer Carillon and Cylindra types. Roots are smooth, very dark red with outstanding deep red interior color and little or no zoning. Crowns and tap roots are small. Flavor is better than other cylindrical varieties. Tolerant to bolting. Dark green tops.

### OPEN POLLINATED BEETS

**32F BABYBEAT** 40 days. Our best mini beet, this true baby matures 1.5-2 in/4-5 cm, round beets about 10-20 days before all other O/P and hybrid beets. Skin is dark red, smooth with a small tap root and matures perfectly round, unlike full sized beets planted closer together and harvested young which sometimes are not well proportioned when harvested. Small attractive green tops, deep red interiors. Use for fresh market.

**34A DETROIT SUPREME** 59 days. An improved Detroit Medium Top type for the quality market and commercial canning. Same green leaves with maroon tinge as regular Detroit strains. Smooth globe shape.

**38 RUBY QUEEN** 60 days. Leading canning variety in the northeast. Smooth, uniform beet. Early, round roots with small crowns and fine taproots. Deep red interiors. For untreated seed, order **UT38**.

**33F BULL'S BLOOD HEIRLOOM** 64 days. Unique 12 in/30 cm dark red tops are used in salads - nice flavor. Medium sized round red roots have red and white interior rings.

**37 GREEN TOP BUNCHING** 65 days. Multipurpose strain provides bright red, round roots and bright green, medium tops. Use for early summer or late fall harvests. For untreated seed, order **UT37**.

**33D CHIOGGIA GUARDSMARK** 60 days. Italian heritage novelty. Light red roots. Contrasting purple and white interiors. Sweet flavor. Flat globe shape. Short green tops.

NEW	BUNCHING AND CANNING BEETS	# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	lb 454 g	5 lb @ per lb	10 lb @ per lb	25 lb @ per lb
	33F Bull's Blood O/P	150	3.25	7.25	10.30	22.70	21.60	20.60	16.40
	34A Detroit Supreme	150	2.75	4.20	5.95	13.20	12.55	12.00	11.19
	37 Green Top Bunching	150	2.75	3.05	4.30	9.50	9.00	8.60	7.73
	38 Ruby Queen	150	2.75	3.80	5.40	11.90	11.30	10.80	9.00
	BEETS (M = 1,000 seeds)	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per M	500 M per M	1,000 M per M	
	32 Red Ace Hybrid	2.61	1.67	1.24	1.18	1.13	1.05	0.87	
	32B Merlin Hybrid	2.61	1.67	1.24	1.18	1.13	1.05	0.87	
	32D Solo (mono germ) Hybrid	4.16	2.66	1.98	1.89	1.80	1.68	1.42	
	32E Eagle Hybrid	2.51	1.61	1.20	1.14	1.09	1.02	0.87	
	32F Babybeat O/P	2.05	1.31	0.98	0.93	0.89	0.83	0.75	
	32G Falcon Hybrid	2.61	1.67	1.24	1.18	1.13	1.05	0.90	
	32V Vulture Hybrid	3.39	2.17	1.61	1.53	1.46	1.37	1.16	
	33D Chioggia Guardsmark	3.56	2.27	1.69	1.61	1.54	1.44	1.22	
	35C Kestrel Hybrid	2.61	1.67	1.24	1.18	1.13	1.05	0.90	
	35F Carillon O/P	1.43	0.91	0.68	0.65	0.62	0.58	0.53	



Merlin



Vulture



Hydra



Green Magic



Emerald Jewel



Ironman



Asteroid

## EARLY HYBRID BROCCOLI

**CULTURE:** 5,000 plants per oz/28 g; 7,200 plants per acre (approx. 90,000 - 120,000 seeds per lb/454 gr). Broccoli matures quickly, therefore early and late crops are possible. Our suppliers have screened their seed for seed borne diseases and have provided us with lab tests on each lot. **SIZED SEED:** Our suppliers are now grading/sizing their seed lots by specific seed counts. **SEEDLING PHASE:** About 4 weeks to sprout and reach 4 leaf stage. Transplant at 5 leaf stage. **PLANT FORMATION STAGE** is between the 6th and 11th leaf stage, during the 6th and 7th week. **DEVELOPMENT PHASE:** Central curd forms at 8th week until mature at 12th week providing about 20 leaves per plant. Plant stress at any of the critical stages or improper spacing will ruin the crop. Most varieties produce good quality heads during cool weather, but only a few are productive above 85°F/29°C. Deeper "single hook" cultivation between the rows after heavy rains helps aerate the soil and promote root growth. Broccoli needs water once a week, but will die if roots are flooded for 24 hours. **MAIN SEASON TYPES:** Not recommended for early use. For additional cultural information, see our website.

**50P CASTLE DOME** 75 days. Used primarily for extra early crown cuts in late spring or early summer. Compact plants have good holding ability and offer good heat tolerance as well as cold vigor. Uniform, medium green, heavy, deep domed heads have small, tight beads. Good tolerance to hollow stem and Brown Bead.

**50T LIEUTENANT** 80 days. Mid-early maturing type, adapted to warm seasons. Erect plants with minimal side shoots, medium size main stems with reduced hollow stem. Smooth crowns have minimal bract leaves during hot weather. Dark green crowns with medium sized beads and minimal cat eye.

**51R EVEREST** 83 days. Our best medium sized, 6 in/15 cm, dome shaped, small beaded California type for Northeastern fall harvests. Better tolerance to Downy Mildew than any main season broccoli. For fresh market or processing, medium size stems.

**50U EMERALD CROWN** 88 days. Very uniform, tight, heavy, dome-headed variety with small dark blue-green beads on a compact plant. Recommended for late summer (warm days, cool nights). Used primarily for high quality, high yielding crown cuts with a short trim. Tolerant to Anthocyanin (purpling heads). Patented Variety.

**50M GREEN MAGIC** 90 days. Use summer or fall. Medium sized semi-dome dark green heads with medium small beads – good uniformity and holding ability during summer heat. Use for crown cuts and side shoot production. Tolerant to Downy Mildew. Patented Variety.

**50J EMERALD PRIDE** 95 days. Dark green stems, good heat tolerance make this an excellent choice for processor use in the Northeast. Nice head shape, medium beads, DM tolerance. Use for fresh market, bunching or freezing.

## RAPINE/RAAB

**49B SORRENTO** 55 days. Extra early Spring Raab type. Dime size, delicious buds, no central head, well branched mustard-like plant.

**49E ZAMBONI** 70 days. Tasty turnip leaf Raab with a larger bud and more uniform plant than the traditional Rapine or Spring Raab. Provides higher yields and lower harvest or production costs. Clusters of spring buds on tall, erect, blue-green plants.

## MAIN SEASON HYBRIDS

**50R GYPSY** 97 days. Smooth dome heads with good holding ability in warm weather. Medium size beads, 6 in/15 cm heads, uniform plants, DM tolerance. Use for fresh market, bunching or crown cuts. Patented Variety.

**50W EMERALD JEWEL** 100 days. Use for late fall harvests. Beautiful, small beaded, smooth headed, clean-stemmed crown. Intermediate tolerance to some races of Club Root.

**50L DIPLOMAT** 100 days. Suitable for bunching, crown cut or fresh market sales. Blue-green heads are semi dome shaped with medium sized beads. Tolerant to heat, cold and DM. Patented Variety.

**NEW 50Z HYDRA** 102 days. Medium green smooth domed heads are easy to harvest and are suitable for the bunching and crown markets. Performs best in temperate summer climates.

**50X ASTEROID** 102 days. High quality dark green smooth dome head type with long stems for bunching or crown cuts. Uniform medium to small beads. Erect plant is easy to harvest, clean stems.

**50Q IMPERIAL** 102 days. Performs best during long daylength conditions, in the Northeast, under moderate heat. Heads are semi-dome shaped with tight, small dark green beads. Use for bunching, crown cuts, or processing. Patented Variety.

**51V EASTERN MAGIC** 103 days. This multi-use broccoli is showing excellent performance in the Northeast and Canada. High-domed, exceptional blue-green color and good heat tolerance. Performs well in long day length and moderate heat.

**50N MILLENNIUM** 104 days. Uniform high domed large round crown cut with extra small beads. Blue-green plants have less side shoots. Good post harvest color, will not purple. Likes cold and heat.

**51Q EMERALD STAR** 105 days. Tight-headed, fine-beaded broccoli with blue-green color that exhibits good uniformity. Best for crown-cut and short-trim (Asian Cut). Small leaf attachments make trimming easier. Works best in cool-warm and warm-cool seasons, not well-suited to hot weather.

**50F IRONMAN** 105 days. A CMS version of Iron. Plants are easy to work with and harvest. Heads are solid, deep dome shaped and provide high quality crown cuts, with less cat-eye and hollow stems.

## OPEN POLLINATED BROCCOLI

**UT53 ITALIAN SPROUTING (Calabrese)** 80 days. Produces heavy yields of large central heads and medium sized delicious side shoots and buds early in the season. Untreated Seed.

## BABY BROCCOLI

**UT48L ASPABROC** 50-60 days from transplants. Resembles broccoli raab with an asparagus-like stem, mild tasting. Plants produce tiny broccoli heads plus 3-5 side shoots in 10 days. Continues producing heads for 4 weeks. Untreated Seed. Limited.

NEW	HYBRID BROCCOLI (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	5M per M	10M per M	50M per M	100M per M	500M per M
	UT48L Aspabroc	75	5.95	63.36	56.93	LIMITED			
	50F Ironman	75	3.50	13.90	12.49	12.00	8.74	8.53	7.60
	50J Emerald Pride	75	3.00	10.91	9.80	9.42	6.86	6.69	5.65
	50L Diplomat	75	3.00	10.91	9.80	9.42	6.86	6.69	5.65
	50M Green Magic	75	3.00	11.54	10.37	9.96	7.26	7.08	5.96
	50N Millennium	75	3.00	14.17	12.74	12.24	8.91	8.69	7.35
	50P Castle Dome	75	3.00	12.50	11.23	10.79	7.86	7.67	6.60
	50Q Imperial	75	3.00	12.54	11.27	10.83	7.89	7.69	6.55
	50R Gypsy	75	3.00	10.66	9.58	9.20	6.71	6.54	5.52
	50T Lieutenant	75	3.00	12.92	11.61	11.15	8.12	7.92	6.82
	50U Emerald Crown	75	3.00	13.30	11.95	11.48	8.36	8.15	6.88
	50W Emerald Jewel	75	3.00	13.05	11.72	11.26	8.20	8.00	6.75
	50X Asteroid	75	3.25	11.03	9.91	9.53	6.94	6.77	5.75
✓	50Z Hydra	75	3.00	11.50	10.33	9.93	7.23	7.05	6.29
	51Q Emerald Star (XBC0456)	75	3.00	13.55	12.17	11.70	8.52	8.31	7.00
	51R Everest	75	3.00	11.90	10.70	10.28	7.49	7.30	5.93
	51V Eastern Magic	75	3.00	14.17	12.74	12.24	8.91	8.69	7.35
	BROCCOLI O/P & RAPINE	# seeds per pkt	Pkt	oz	¼ lb	lb	5 lb @		
	49B Sorrento (Spring Raab)	250	3.00	17.45	34.85	87.05	68.35		
	49E Zamboni (Spring Raab)	250	3.00	17.45	34.85	87.05	68.35		
	UT53 Italian Sprouting Untreated	250	2.45	3.10	6.20	15.50	12.15		



Cress Fine Curled



Radicchio Fiero



Chicory Witloof Bruxelles



Collards Top Bunch 2.0

## CHICORY

**CULTURE:** 1 pkt. of seed sows 30 ft/9 m of row at the rate of 2-3 per in/25 mm; oz./28 gr sows 250 ft/76 m; 2.5 lbs/1.1 kg per acre. Sow Witloof strain indoors in May; tops grow rapidly and resemble smooth dandelion leaves. Leaf stalks may be used for greens. The Witloof type may also be forced again during the winter at 50-60°F/10-16°C in a root cellar. After heads are harvested in the fall, dig up roots and trim to 8 or 9 in/20-23 cm. Transplant into bushels in moist sand. Best heads are 4-5 in/10-13 cm in height and weigh 2-3 oz/57-85 g.

**417A CICORIA CATALOGNA (Radichetta)** 65 days. Dark green leaves 12 in/30 cm long and 3 in/8 cm wide are deeply notched, with light green petioles. Both leaves and tender stalks are harvested in the spring. Pkt. (1,000 seeds) \$2.65; oz. \$9.75; 1/4 lb. \$22.70; 1/2 lb. \$38.60; lb. \$60.60.

**417 MAGDEBURGH (Cicoria Siciliana)** 100 days. Italian dandelion. Plants are 15 in/38 cm tall with medium green tender dandelion-like foliage. Excellent for Italian salads or leaves can be cooked like spinach. Roots are 14-16 in/36-41 cm long, tapered and white. Dried ground up roots can be used as a coffee substitute. Pkt. (1,000 seeds) \$2.45; oz. \$9.15; 1/4 lb. \$22.70; 1/2 lb. \$38.60; lb. \$60.60.

**416C WITLOOF BRUXELLES (French Endive)** 110 days. Root type. Used for commercial forcing or by small growers. Leaf stalks are very uniform, medium width, nicely shaped and excellent tasting. Pkt. (1,000 seeds) \$2.45; oz. \$9.15; 1/4 lb. \$22.70; 1/2 lb. \$38.60; lb. \$60.60.

## HYBRID RADICCHIO

A beautiful red and white gourmet salad vegetable. Heads are soft ball to bowling ball size. Leaves are slightly bitter like endive, but sweeten slightly with cooler day temperatures. **CULTURE:** Seed is similar to lettuce and for best results, should always be direct seeded about the same time as fall lettuce (June 20th-July 5th). Direct seedings improve marketable yields 20% over transplants. Space seed like lettuce. Harvest just before frost in mid Sept, 50,000 plants per acre. Approx. 250,000 - 300,000 seeds per lb/454 g.

**417G PRESTO** 75 days. F1 hybrid. An improved Chioggia type. Heads are quite large, averaging 8 in/20 cm across and weigh about 14 oz/400 gr. Dark red heads have white veins, flat/globe in shape and are tolerant to high summer heat and tip burn. Use for summer or fall harvests. Pkt. (100 seeds) \$4.25; 1/4 oz \$44.55; oz \$120.05; 1/4 lb \$366.30; lb. \$1,293.60.

**417F FIERO** 80 days. Tall Treviso type. Deep maroon 8.5 in/21.5 cm tall heads with very attractive contrasting white ribs show rich bicolors early. Good uniformity and sure-heading ability. Superior yield potential for all cropping seasons. Pkt. (25 seeds) \$4.50; 500 seeds \$33.70; 1,000 seeds \$57.81; 5,000 seeds @ \$48.37 per M; 25,000 seeds @ \$41.62 per M.

## CRESS & WATERCRESS

**CULTURE:** For Cress a pkt. sows about 10 ft/3 m of row. Sow at 6 seeds per in/25 mm from April 15 to August. For the smaller seeded watercress consult our packages for cultural information.

**78 FINE CURLED (Peppergrass)** 10 days. A splendid "green" to garnish sandwiches and salads. Pkt. (750 seeds) \$2.15; oz. \$4.20; 1/4 lb. \$8.40; lb. \$21.05; 25 lb. @ \$13.53 per lb.

**78M UPLAND (Cress)** 30 days. Biennial in zones 5 to 9. Use for fresh market, bedding plants, or home gardens. Dark green thick cut spicy leaf. Plants are slower to bolt than Fine Curled. Pkt. (750 seeds) \$2.75; oz. \$6.05; 1/4 lb. \$12.65; lb. \$31.60.

**78C WATERCRESS (Broad Leaf)** 50 days. A popular favorite for garnishing salads, watercress is mildly pungent. Home gardeners should have a very moist, shady spot for this species as it is usually propagated along river banks. Pkt. (150 seeds) \$2.45; 1/2 oz. \$8.60; oz. \$13.90; 1/4 lb. \$48.00; lb. \$169.30; 50 lb. @ \$138.51 per lb.

## COLLARDS

**CULTURE:** Sow 5 seeds per in/25 mm; .25 in/6 mm deep, June 1st. All maturity dates are based on direct seeding.

**NEW 78R TOP BUNCH 2.0** 70 days. The new generation of Top Bunch! Earlier and more uniform than OP's with vigorous, rapid regrowth. Wavy, lightly savoyed leaves suitable for fresh market bunching and machine harvesting. Pkt. (100 seeds) \$3.75; 1/2 oz. \$22.20; 1/4 lb. \$117.00; lb. \$329.50; 5 lb. @ \$309.40 per lb.

**78G TOP BUNCH** 70 days. F1 hybrid. Tall upright 18 in/46 cm plants grow very fast. Tolerant to early bolting. Wavy, blue-green, slightly savoyed leaves provide uniform second cutting. For fresh market or processing. Pkt. (100 seeds) \$3.75; 1/2 oz. \$22.20; oz. \$37.65; 1/4 lb. \$117.00; 1/2 lb. \$195.90; lb. \$329.50; 5 lbs. @ \$267.00 per lb.

**78E FLASH** 78 days. F1 hybrid. Smooth, flat, broad, deep green leaf early Vates type. Tall upright 18 in/46 cm plants are slow to bolt and very uniform in harvest. For fresh market or processing. Pkt. (100 seeds) \$3.75; 1/2 oz. \$22.20; oz. \$37.65; 1/4 lb. \$117.00; 1/2 lb. \$195.90; lb. \$329.50; 5 lbs. @ \$309.40 per lb; 10 lbs. @ \$267.00 per lb.

## OPEN POLLINATED COLLARD

**78A VATES** 80 days. Dark green long, wavy, wide tender leaves. O/P. Pkt. (250 seeds) \$2.70; oz. \$8.90; 1/4 lb. \$15.65; lb. \$30.10; 5 lbs. @ \$24.60 per lb; 25 lbs. @ \$20.70 per lb.

## CORN SALAD (Mâche)

**CULTURE:** A popular miniature salad green with a minty flavor. This variety Baron comes from Europe's largest Corn Salad breeder. Dark green leaves form a fancy rosette which is harvested very young without separating the leaves. Rosettes lose flavor if over-mature but improves taste as frost occurs in early spring or late Fall crops. Sow seed in April or Sept. for late Spring or late Fall harvests.

**UT78P BARON** 45 days. Unique upright growth keeps broad-round dark green leaves clean. Easy to cut. 1,000 seeds \$1.56; 5,000 seeds @ \$0.75 per M; 25,000 seeds @ \$0.60 per M, 100,000 seeds & over \$0.52 per M.



Collards Top Bunch



Radicchio Presto



Corn Salad Baron



Chicory Catalogna



Gallican



Charmant



Gregorian



Fast Vantage

## STOKES EARLY CABBAGE

Cabbage was first introduced to North America by Jacques Cartier, the French explorer of Canada, and by 1669 it was being propagated in Eastern U.S.A. It is considered to be a cool weather crop - a winter crop in Southern U.S.A. and a spring or fall crop in Northern U.S.A. and Canada. Maturity dates are based from the time transplants are put in the ground until harvest. To estimate seed to harvest dates add about 6 weeks to Feb.-Mar. sowings and 5 weeks to May- June sowings. There are several basic things to remember about cabbage. (a) To control disease, never grow cabbage or any other member of the Brassica family (broccoli, cauliflower, kale etc.) in the same location year after year. Allow at least a 3 year interval. (b) Keep well fed and watered during the entire growing season. (c) Cabbage is a shallow rooted plant - don't cultivate too deep. For organic insect controls see the culture on broccoli and brussels sprouts.

**CULTURE:** oz/28 g about 6,000-8,000 seeds; 4 oz/113 g of seed produces enough transplants for an acre. Direct seeding requires approx. 2 lbs/1 kg of seed per acre (unsized seed) or .75 to 1 lb/0.3 to 0.5 kg per acre using graded seed, depending on seed size.

**DIRECT SEED:** Cabbage seed can be sown outdoors in seed beds (for transplants) from May 20th-June 10th, transplant in early July or late June. Early cabbage will reach maturity before the hot weather and later varieties reach proper size before frost. Although some growers direct field seed some early and midseason cabbages, we do not recommend that you try this with late or storage types because the harvest window is too small. Sow seed in beds .25 in/6 mm deep, as thinly as possible (2 or 3 seeds per in/ 25 mm), thin to 2 in/5 cm apart for sturdier seedlings. Transplant in rows 2 ft/61 cm apart, 12-18 in/31-46 cm apart in the rows.

**EARLY CROPS:** Sow seed in the greenhouse from Feb. 1st - Mar. 15th. oz/28 g of seed sows approx. 4 (12x20 in/30x51 cm) flats at 700-800 seedlings per flat or plastic cell trays at 2 seeds per cell. Keep soil temperature high - 80°F/27°C. Seed should germinate in about 4-5 days. Grow seedlings cooler at 55-65°F/12-18°C. Transplant in 2 in/5 cm peat pots or cell trays in about 5-6 weeks, depending on day length. Young plants survive adverse field conditions better than older (7-8 week old) plants. Space rows 2-3 ft/61-91 cm apart with earlier, smaller headed varieties 15 in/38 cm apart. Main season and late types 20-30 in/51-76 cm apart.

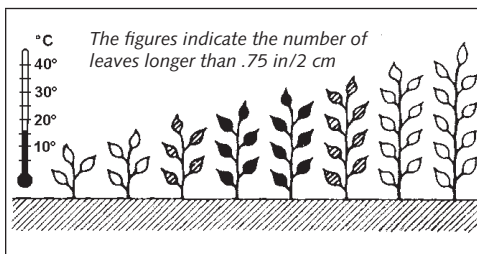
**PRECISION SIZED SEED:** All our cabbage seed is carefully sized. **BEDDING PLANTS:** Allow 4-6 weeks from seeding to sale of green plants.

**MATURITY DATES:** Are based from transplanting time till harvest. **SIZE and WEIGHTS:** for comparison only. **BRR = Black Rot Resistant.**

### SEED BORNE DISEASE

From our seed growers we are now demanding lab certificates, which report the status of each new seed lot on various seed borne diseases. The concentrated effort to supply clean seed to growers by all seedsmen now focuses the major cause for disease in the following areas. (a) contaminated seedling beds or top soils used in seedling flats, (b) the use of year old, unsterilized foam transplanting trays, (c) unsterilized and unfumigated greenhouses or tools, (d) neighboring disease carrier crops like rape or canola, perennial weeds, golden rod, wild turnip etc., (e) the failure to rotate crops, (f) overhead irrigation with diseased water, (g) improper control of carrier insects from diseased neighboring fields, (h) failure to clean cultivating equipment between crops.

**We will supply certificates (copies) at \$5.00 each.**



*The above graphic illustrates the stage of growth (5-8 true leaves) when cabbages are extremely susceptible to cold temperatures, stress or sudden release of fertilizer/weed control, which will result in poor head shape, reduced yields etc. Proper timing and cultural practices are the grower's responsibility and are beyond the control of the seed supplier.*



Golden Acre

## EXTRA EARLY OPEN POLLINATED

**56A GOLDEN ACRE** 65 days. Standard strain for bedding plant sales. Plants have a fair wrapper leaf, heads are round and average 2.75-4 lbs/1-2 kg, and 6 in/15 cm in diameter. No Yellows resistance. For untreated seed, order **UT56A**.

## EARLY HYBRIDS

**61N GREGORIAN** 59 days. An extra uniform CMS hybrid (free of inbreds). Solid round heads average 7 in/18 cm - 3.5 lb/1.5 kg, nice green wrapper leaves.

**68E FAST VANTAGE** 60 days. Great tasting, early variety in the Headstart class with improved uniformity in cool or high heat conditions. Medium green, high quality round heads average 2.5 lbs/1 kg and have no Yellows resistance. Use for fresh market or bedding plants.

**64B BOURBON** 62 days. A CMS version of Balbro. 3 lb/1.3 kg dark green round heads with nice solid interiors. Resistant to splitting under normal weather.

**60D CHARMANT (Yellows Tolerant)** 65 days. Darker green larger version of Princess and Stonehead. A more upright plant habit allows closer spacing and higher yields per acre. Dense heads form slowly for extended cutting periods of 16's and 12's. **BRR**

**68N GALLICAN (Yellows Tolerant)** 65 days. This high yielding fresh market cabbage has a round, uniform, grey-green head with consistent size, upright leaf and excellent taste.

**61S EARLY THUNDER (Yellows Tolerant)** 74 days. Excellent holding ability in the field, plants are blue/green in color, medium size, upright and slow bolting. Nice, round heads, mild texture and taste. Use for Fresh Market and Kraut processing. **BRR**

NEW	OPEN POLLINATED CABBAGE	# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	½ lb 227 g	1 lb 454 g	5 lb @ per lb.		
	56A Golden Acre	200	2.95	3.05	5.35	9.15	14.35	11.95		
	<b>EARLY HYBRID CABBAGE</b>	# seeds per pkt	Pkt	1,000 seeds	5M per M	10M per M	50M per M	100M per M	500M per M	1,000M per M
	60D Charmant YR/BRR	100	2.95	8.58	7.67	7.41	5.40	5.26	4.83	4.40
	61N Gregorian	100	2.95	9.50	8.50	8.20	5.97	5.82	5.34	4.74
	61S Early Thunder YR/BRR	100	2.95	8.86	7.92	7.65	5.57	5.43	4.98	4.62
	64B Bourbon	100	4.25	18.85	16.87	16.28	11.86	11.05	10.61	9.82
	68E Fast Vantage	100	2.95	8.58	7.68	7.41	5.40	5.26	4.83	4.40
	68N Gallican	100	2.95	10.14	9.07	8.76	6.38	6.22	5.71	5.63



Blue Vantage



Viceroy



Red Jewel



Thunderhead

## STOKES MAIN & MID SEASON CABBAGES

**CULTURE:** Most of the larger growers in NY state, Ont. and Que. have abandoned direct seeding in favor of transplants - due to soil crusting, caused by wet weather during late spring (May 15th - June 5th). Uneven soil emergence will cause a wide variation of head sizes at different maturities and loose centers at harvest. Small multiple heads (3 or 4 per stem) are a sign of weather stress - not poor seed stock. **BRR = Black Rot Resistant.**

### MID SEASON VARIETIES

**61A STONEHEAD (Yellows Tolerant)** 67 days. Heads are round, very solid - average 4 lbs/2 kg and about 6 in/15 cm in diameter. High quality shipper. Matures before Market Topper. Good tolerance to bursting.

**61E BLUE DYNASTY (Yellows Tolerant)** 75 days. Excellent green fresh market or shipper cabbage, very uniform blue/green round head - holds well in the field. Average weight 3-4 lbs/1.4-2 kg. **BRR**

**60T TOPMA** 80 days. Medium height compact, strong framed blue-green plant has good wrapper leaves. Waxy green round head averages 3-5 lb/ 1.4/2.2 kg, has short cores. Resistant to Fusarium.

**61M BLUE VANTAGE (Yellows Tolerant)** 76 days. Medium frame, blue-green 6.5 in/16 cm round head for fresh market or shipping. Heads have good wrappers, average 3-4 lbs/ 1.4-2 kg, 14-20 count. Resistant to Black Speck and Tip Burn. **BRR**

**68R GRAND VANTAGE (Yellows Tolerant)** 82 days. Very round, blue-green 7x7 in/17x17 cm head averages 5-6 lbs/2.2-2.7 kg. Has dense solid interiors, short cores and tight wrapper leaves. Holds well in the field.

**61U THUNDERHEAD (Yellows Tolerant)** 82 days. Uniform, blue green, round 3-5 lb/1.4-2.2 kg head has a compact plant with Fusarium resistance. **BRR**

### MAIN SEASON VARIETIES

**68T TEKILA (Yellows Tolerant)** 90 days. A Quisor CMS type with additional clubroot tolerance. Very uniform blue green, round, larger 9.5 in/24 cm head has some storage possibilities and Fusarium Resistance. Fresh market type. The first Clubroot resistant variety. Exclusive.

**61Z ADAPTOR (Yellows Tolerant)** 95 days. Our best late season, fresh market, blue green, high yielding cabbage. Can also be used for short term storage. Round 6-8 in/ 15-20 cm heads result in great looking pack appearance. Interiors are very solid with short cores and can be used for high quality smooth cabbage roll leaves or coleslaw (cut heads horizontally).

### PROCESSOR TYPE

**68V VICEROY** 80 days. Dual purpose for fresh market or coleslaw production. Very round head, green/blue exterior color with white interior. Uniform with good yield and excellent field holding. High resistance to Fusarium Yellows and intermediate **BRR**.

### SPECIAL TYPE FOR CABBAGE ROLLS

**NOTE:** High quality interior cabbage roll material may also be harvested by cutting some main season heads horizontally above the core (like Adaptor) and using the bottom half - with core, for coleslaw.

**71Z O-S CROSS** 80 days. Unique flat or drum head type without large central leaf veins. Large thin veined leaves are easily rolled for Cabbage Roll production. Plants are heat tolerant. Flat, medium green heads average 5 lbs/2.2 kg or larger. Tolerant to premature bursting in the fall. Harvest in late September.

### HYBRID RED CABBAGE

**NOTE:** Some red cabbage are very susceptible to secondary or field infections of Black Rot. Rotate crops and keep sprayed until Sept. Do not crowd red varieties - or you will cause football shaped heads. (suggest 14m-15m/acre). During late summer and early fall heavy morning dews - stay out of field until the plants are dry - to control disease spread.

**77J RED JEWEL** 75 days. High yielding deep red medium-large heads have short cores. Ideal for both fresh market, shredder and processing markets. No resistance to Fusarium, some Tip Burn tolerance.

**77Q RONDALE (Yellows Tolerant)** 75 days. A CMS version of Royale, which it replaces. Oval, rounded dark red heads average 4 lb/2 kg. Ideal for fresh market or processing. Uniform plants have good wrapper leaves and are Tip burn tolerant. Dense heads have short cores. Easy to harvest, producing good tonnage.

**77B RED DYNASTY (Yellows Tolerant)** 76 days. An excellent oval/round, fresh market red with additional resistances to Black Rot and Tip Burn. Medium sized 3.25-5lbs/1.5-2.2 kg heads have very uniform plants.

**Order Online Now!**  
[www.StokeSeeds.com](http://www.StokeSeeds.com)

NEW	HYBRID CABBAGE (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	5M per M	10M per M	50M per M	100M per M	500M per M	1,000 M per M
	60T Topma	100	3.95	11.91	10.65	10.28	7.49	7.30	6.70	6.53
	61A Stonehead YR	100	2.75	7.78	6.96	6.71	4.89	4.56	4.25	4.05
	61E Blue Dynasty YR/BRR	100	2.75	8.69	7.78	7.51	5.47	5.09	4.75	4.59
	61M Blue Vantage YR/BRR	100	2.45	7.02	6.28	6.06	4.42	4.12	3.84	3.62
	61U Thunderhead YR/BRR	100	3.75	9.78	8.75	8.44	6.15	5.73	5.50	5.10
	68R Grand Vantage YR	100	2.75	10.79	9.65	9.31	6.78	6.62	6.07	5.57
	68T Tekila YR	100	5.75	24.88	22.25	21.47	15.64	15.26	13.99	12.30
	68V Viceroy	100	2.75	9.73	8.70	8.40	6.12	5.97	5.47	5.07
	71Z O-S Cross	100	2.45	10.40	7.80	6.50	4.68	4.29	4.16	3.60
	77B Red Dynasty YR/BRR	100	3.95	14.00	12.52	12.08	8.80	8.20	7.66	7.39
	77J Red Jewel	100	3.75	12.52	11.20	10.81	7.87	7.34	6.85	6.47
	77Q Rondale YR	100	3.75	15.78	14.12	13.62	9.93	9.68	8.88	8.22



Tekila



Red Dynasty



O-S Cross



Multikeeper



Novator



Decurion



Sherrington



Flexima

## LATE HYBRID STORAGE CABBAGE

**CULTURE:** For proper head maturity sow red types in the greenhouse or cold frames in late April and transplant in June. Green long storage types should be sown in seed beds outdoors May 20th - June 1st and transplanted 5 or 6 weeks later. Short term green storage types should be sown 1 week later, June 10th and transplanted in early July for late Sept/Oct. harvests. The long storage types are slow growers but triple their size in the fall. All seed is screened for Black Rot and Black Leg by our suppliers. **PLANT POPULATION:** Most Canadian growers transplant 16-18,000 plants per acre, for a smaller head. U.S.A. growers prefer about 12,500 plants per acre for more tonnage.

**TIMING:** This is a critical grower responsibility which can ruin a crop of the best hybrid storage cabbage. If you sow a 95 day and a 110 day cabbage the same day early in May it could force the 95 day variety to mature 45 days too early from transplants or two months too early from direct field seeding. The 110 day type would be alright from field seeding but may be too early to store from transplants. For each day that you shift your sowing date in the spring - it will cause a 3 day change in fall harvest.

**DIRECT SEEDING:** Although some growers still attempt to direct seed a small percentage of storage cabbage, it is quite risky due to soil compaction or "crusting", depending on soil type and heavy rains after seeding. If crusting occurs it will delay or cause irregular seedling emergence, which in turn causes a wide variation in harvest dates in the fall. **Use transplants for storage types.**

**STRESS/BOLTING TO SEED:** Even though storage cabbage is classed as a biennial and is slower growing than other cabbage - it will show premature stages of bolting if plants are severely stressed by extreme drought, sudden release of nitrogen or weed controls, or heavy July/August rains and flooding, just as the plants begin to head. This will cause wide variation in head shapes and sizes, loose interiors, larger cores, and red tinged leaves (which is a sign of stress) and multiple tiny heads at the base of the head. **FREEZING:** If heads are severely frozen in the field before harvest in late Oct. - they will bruise easily and will rot quickly in storage. Never harvest and store frozen cabbage. Let plants thaw before cutting. **SIZED SEED:** All of our seed is precision graded by seed count by our suppliers.

### SHORT TERM STORAGE HYBRID

**55A MULTIKEEPER (Yellows/Black Rot/Black Speck Tolerant)** 86 days. A multi disease tolerant short term storage type that can also be cut earlier for early Sept. fresh market 16's or Oct. kraut or storage purposes. Good tolerance to tip burn and splitting. For larger heads adjust spacing. Tolerant to Thrips. Exclusive.

**61Z ADAPTOR (Yellows Tolerant)** 95 days. Can be used for short term storage. Round 6-8 in/15-20 cm heads result in great looking pack appearance. Interiors are very solid with short cores and can be used for high quality smooth cabbage roll leaves.



Hazelton

### LONG TERM STORAGE HYBRIDS

**68W STORAGE #4 (Yellows Tolerant)** 110 days. Dual purpose. A long term favorite, this is a fast growing, high yielding storage type with nice dark green color. Also versatile in rainy fall conditions for fresh market sales. Head size is medium large and round. Has excellent holding ability.

**72A NOVATOR (Yellows Tolerant)** 110 days. One of Syngenta's most popular long storage European varieties. Heads average 9 lbs/4 kgs and are tolerant to Internal Blackening, Tip Burn and Fusarium Yellows. Nice blue-green round heads at harvest. Exclusive.

**68P DECURION (Yellows Tolerant)** 110 days. Early main season blue/green very solid compact 3-11 lb/ 1.5-5 kg round head is easy to harvest. Head size is very flexible making harvests of smaller or larger main season fresh market types or later as a long storage variety by using various plant densities. Excellent solid white interiors and good long storage exterior color make Decurion YR an excellent choice for both markets.

**68M SHERRINGTON (Yellows Tolerant)** 112 days. A late main season, easy growing white cabbage that is suitable for long term storage. Round heads weigh 3 - 4 kg/6.5 - 8.8 lb. High yield potential.

**72C BLOKTOR (Yellows Tolerant)** 112 days. Compare to Amtrak. Large, very solid 8 lb/3.6 kg, round heads are well protected by grey/green wrapper leaves. Nice fresh green color holds well in storage. Dense interiors. Strong thrips tolerance. SG3271 Exclusive.


**71X LOUGHTON (Yellows Tolerant)** 115 days. Widely adapted for use by most storage cabbage growers for late main season, long term storage. Attractive blue-green color, round heads, large frame, nice wrappers.

**NEW 65E HAZELTON** 120 days. Round 2 kg/4.5 lb easy growing cabbage suitable for long storage. Strong thrips tolerance. High resistance to Basel Rot.

**68Q MUCSUMA (Yellows Tolerant)** 125 days. High yield potential. The extra large green heads average between 6-11 lbs/3-5 kg. Large frame plants are upright, heads are very dense with long term storage and great holding capability.

**68U FLEXIMA** 125 days. One of our promising medium height long storage 3-11 lb/1.4-5 kg large, round, dark green waxy smooth leafed cabbages with short to medium internal cores which depend on the medium or extra large choice the grower makes at harvest. Use a plant density of 30,000 to 50,000 plants per hectare. Intermediate YR resistance.

NEW	HYBRID STORAGE CABBAGE (90-100 M = approx. 1 lb/454 g) (M = 1,000 seeds)	#seeds per pkt	Pkt	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per M	500 M per M	1,000 M per M
	55A Multikeeper YR/BRR/TBT	100	2.75	6.72	6.01	5.80	4.23	4.12	3.78	3.52
	61Z Adaptor YR	100	3.95	14.97	13.39	12.92	9.41	9.18	8.42	7.40
✓	65E Hazelton	N/A	N/A	21.39	19.13	18.46	13.45	13.12	12.03	11.86
	68M Sherrington	N/A	N/A	18.84	16.85	16.27	11.85	11.56	10.60	10.45
	68P Decurion	100	5.75	22.86	20.45	19.74	14.38	14.02	12.86	12.41
	68Q Mucsuma YR	100	2.75	19.38	17.34	16.73	12.19	11.88	11.13	10.98
	68U Flexima	100	2.75	19.38	17.34	16.73	12.19	11.88	10.90	10.81
	68W Storage #4	N/A	N/A	16.31	14.59	14.08	10.26	10.00	9.17	8.45
	71X Loughton YR	100	5.10	18.33	16.40	15.82	11.53	10.74	10.02	9.55
	72A Novator YR/TBT	N/A	N/A	19.94	17.84	17.22	12.54	11.69	11.22	11.06
	72C Bloktor YR	N/A	N/A	19.48	17.43	16.82	12.25	11.42	10.96	10.81
	77T Super Red 115 YR	100	3.95	18.82	16.83	16.24	11.83	11.54	10.58	9.75
	77U Resima	100	3.75	17.20	15.39	14.85	10.82	10.55	9.68	9.60



**Pricing Quantities**  
M = 1,000 Seeds or Pellets.



Milletta



China Gold



Serpentine



Green Rocket

## HYBRID RED STORAGE CABBAGE

**77T SUPER RED 115** 115 days. F1 hybrid. The first true storage red with a strong resistance to Fusarium Yellows and Thrips. Nice round medium sized heads have an attractive dark red color along with fancy wrapper leaves. Plants are very upright and sturdy with very good yields and storage potential.

**77U RESIMA** 120 days. Very dark red, round, 5-6.5 lb/2-3 kg waxy heads have outstanding internal qualities. Heads are very uniform with compact interiors and short cores. Flexible head sizes are possible with different plant densities. Use for fresh market or as a large high quality storage cabbage. Easy to clean - upright heads. No Yellows Resistance.

## HYBRID SAVOY CABBAGE

Savoy types mature much later than ball head cabbages. This usually means that Savoys are hit with early frosts and cold fall weather, making the leaves very sweet. Savoy types do not give off that heavy "cabbage aroma" when cooked.

**CULTURE:** Transplants are usually preferred to direct seeding. We can supply Seed Borne (0/30 M) Black Rot disease certificates on all our hybrid Savoy types at \$5.00 each. Savoy types are very susceptible to secondary infections of Black Rot. Never plant wet transplants! Stay out of wet fields!

**66H SAVOY ACE IMPROVED** 75 days. Darker deep green color than the original, holds better in the field and is tolerant to cold. Nice globe shape for early Fall harvests. No Yellows resistance.

**61R SAVOY BLUE** 80 days. Dark blue/green 3-6 lb/1-3 kg main season large savoy with good holding ability in the field. Heads are heavily savoyed, round/flat in shape with a refined interior and a short core. No Yellows resistance.

**65S SERPENTINE** 85 days. Dark blue green, finely savoyed 3.5-4 lb/1.8-2 kg solid, uniform, rounded heads. Matures good leaf cover by early August to prevent tip burn and enough weight for late August/September fresh market sales.

**65Q MILETTA** 88 days. An excellent, very dark, blue/green main season savoy. Leaves are heavily savoyed on uniform round heads averaging 3.5 lbs/1.6 kg. Holds well without splitting after maturity. No Yellows resistance. Tip Burn tolerance. Exclusive.

## CHINESE CABBAGE

**CULTURE:** oz/28 g 3,000 plants; 2 lbs/1 kg per acre (direct seeded). Late August sowings will produce "greens" until freezing weather arrives. Hybrid varieties will store almost as long as regular cabbage. Michihli types are used for short term storage only.

Chinese Cabbage has increased in popularity drastically in the last few years, due to its use in salad bars. As a fresh vegetable, both forms of Chinese Cabbage are sweeter tasting than white or savoy cabbage. Napa or Wong Bok types are barrel shaped and are usually stored (2 months) in a horizontal position to prevent crushing the crowns. Michihli types - tall cylindrical varieties, usually have better Black Speck resistance than Napas and they are slower bolting during weather stress. They are used fresh and never stored for long periods.

Chinese Cabbage grows much faster than North American types and are especially sensitive to bolting if the transplants are too old (7-8 weeks). Growers should consider direct seeding or using younger transplants (5-6 weeks old). Both types prefer a neutral pH of 7.0 and clay loam soils with good fertility and better water holding properties. Maturing crops prefer cool harvest periods and will bolt to seed in excessive hot weather and the long daylengths of mid summer.

**ORGANIC GROWERS:** Chinese cabbage is very susceptible to problems with Black Rot or Black Leg that it is not offered in untreated seed.

## HYBRID NAPA TYPES

**76N CHINA GOLD** 65 days. Excellent external dark green compact frame, barrel shape, golden/white internal color, with good weight. Resistant to tip burn and some races of Club Root. Slow bolting.

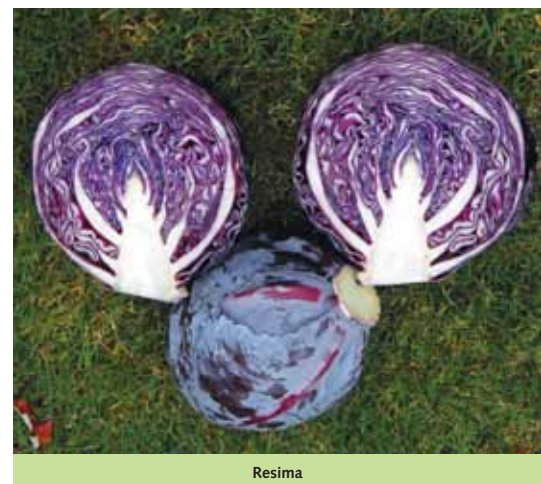
**76K JAZZ** 65 days. F1 hybrid. Plants are very slow bolting. Leaves are very tender and of excellent quality, with an improved yellow internal color. Well folded heads average 6 lbs/3 kg and can be stored for about 2 months after harvest, at proper storage temperatures. Resistant to Virus, Bacterial Soft Rot, Alternaria Leaf Spot and Club Root.

**76M YUKI** 70 days. F1 hybrid. Medium sized slow bolting Napa for fall production. Well folded, darker bright green, barrel shaped heads have prominent white ribs. Resistant to Pepper Spot and Club Root.

**76J BLUES** 57 days. F1 hybrid. Heads average 10 in/25 cm are barrel-shaped and average 3.5-4.5 lbs/1.8-2 kg. Resistant to Virus, DM, White Spot, Alternaria Leaf Spot and Bacterial Soft Rot. Use for Spring or Fall harvests.

## HYBRID MICHIHILI TYPE

**76P GREEN ROCKET** 70 days. Very tall with bright green leaves about 4.5 lb/2 kg. It is a good shipping type, has very crisp leaves and has extra long shelf life for a cylindrical Michihli type. Recommended for fall harvest. Resistant to heat and cold weather.



Resima

NEW	HYBRID SAVOY CABBAGE (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per M	500 M per M
	61R Savoy Blue	100	4.25	16.84	15.07	14.54	10.59	10.33	8.78
	65Q Milletta	N/A	N/A	13.93	12.46	12.03	8.76	8.16	6.79
	65S Serpentine	100	4.25	15.78	14.12	13.62	9.93	9.68	8.89
	66H Savoy Ace Imp.	100	3.25	12.81	11.46	11.06	8.06	7.86	6.88
	HYBRID CHINESE CABBAGE (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per M	500 M per M
	76J Blues	100	2.35	3.62	3.24	3.13	2.28	2.12	1.95
	76K Jazz	100	2.35	3.13	2.80	2.70	1.97	1.92	1.76
	76M Yuki	100	2.35	6.52	5.83	5.63	4.10	4.00	3.40
	76N China Gold	100	2.35	6.52	5.83	5.63	4.10	4.00	3.40
	76P Green Rocket	100	2.35	3.18	2.84	2.74	2.00	1.95	1.71



Shoyo Long



Joi Choi



Mei Qing Choi



Bitter Gourd Long Thick



Little Sweetie



Toy Choy



Green Fortune Choi

## ASIAN VEGETABLES

### ADDITIONAL ASIAN VEGETABLES

Soy Beans.....Pg 3 Cabbage.....Pg 13  
 Cucumber.....Pg 26 Eggplant .....Pg 30  
 Honeydew.....Pg 34 Snow Peas.....Pg 38  
 Radish.....Pg 47 Squash Kabocha...Pg 49

**231A LITTLE SWEETIE** 60 days. Our earliest, dwarf bush version of the "snow pea" family. Pods are harvested and eaten before they develop large peas. This strain is completely stringless. Compares to Oregon Sugar Pod II. Compact vines average 16 in/41 cm and are tolerant to July heat and most pea diseases. Pods are 4.5x.75 in/11.5x2 cm long, bright green. Exclusive. For untreated seed, order **UT231A**.

**423C ORIENT WONDER** 78 days. Asian Pole bean. Extra long 18 in/46 cm, slender "pencil diameter" dark green, smooth pods are slow to form seeds. This provides lots of tender, stringless, richly flavored beans over a long harvest window in cool, dry climates. For stir fry, curries and steaming.

**422C GUY LON (Kailaan)** Sometimes called Chinese kale, this is grown during cooler weather. It has sturdy green stems, large flat leaves and loose buds that do not form a head. Tender stems, leaves and buds are chopped in chunks. Sow in Spring or Fall.

**411E TSOI-SIM PURPLE** 40 days. Similar rapine type as regular green stalk above, but has purple leaves.

**423D TOY CHOY** 30 days. Mini baby pak choi. Unique tiny 5 in/13 cm erect plants with white petioles and dark green leaves. Performs well in dense plantings and heat. Tender leaves, excellent flavor.

**422S MEI QING CHOI** 45 days. F1 hybrid. Green stemmed spoon shaped Shanghai Pak Choi that has a good tolerance to bolting. Better tasting than white types. Upright compact plants.

**422F FENG QING CHOI** 45 days. F1 hybrid. Very slow to bolt - excellent heat tolerance. Thick, tender, delicious green petioles.



Komatsuna



Perilla Red

**422T JOI CHOI** 45 days. F1 hybrid. Fine, spoon shaped stalks, ivory white stems, dark green leaves. Some cold tolerance.

**423G GREEN FORTUNE CHOI** 45 days. F1 hybrid. Unique green petioles. Uniform compact plants have a high heat tolerance.

**422H CEE GWA (Chinese Okra Smooth)** Can be eaten in the young stage at 6 in/15 cm long, or left to mature as a 20 in/51 cm fruit. When dried, light porous pulp is used as a dish cloth or sponge. Cut young fruit into small pieces and stir-fry with chicken, bamboo shoots or cashews. Sow indoors March 15th, transplant outdoors June 5th, harvest August 1st.

**150T SHOYA LONG (Eggplant)** 60 days. Extra long 10-15 in/25-38 cm purplish-black fruit with a purple calyx. High percentage of first grade, fine quality fruit.

**UT423E BOPAK** 40 days. F1 hybrid. Dark green leaves, white petiole. Erect plant for bunching without breaking. Bolting tolerant, AAS Winner. Untreated Seed.

**423H BITTER GOURD LONG THICK** 70-80 days. Extra-long 8-12 in/20-30 cm fruit with dark green skin and white flesh that should be harvested young and green for best eating. Plant produces many branches and will grow best on trellises.

**411C KOMATSUNA** 35 days. All season Japanese Green. Easy to grow. Mild, tender greens for salads, stir fry. Uniform upright plants with slender, tasty, cylindrical green stems and dark green, round leaves.

**422Q MIZUNA EARLY** 40 days. Japanese Green with broad, serrated leaves and white ribs. Vigorous plant with good cold tolerance. Light green leaves are very juicy, tender and have a nice flavor. Use for Mesclun salad mixes, stir fry and pickling.

**422P PERILLA RED** A popular Japanese herb. Young stems and leaves can be used for aroma, flavoring Mesclun salad mixes, cooking and pickling. Dark red leaves are serrated. Mature plants are 2.5 ft/76 cm tall. Likes full sun - a nice container plant for the patio.



Mizuna Early



Guy Lon



Orient Wonder

NEW	ORIENTAL VEGETABLES	# seeds per pkt	Pkt	1/2 oz 14 g	oz 28 g	1/4 lb 113 g	1/2 lb 227 g	lb 454 g	5 lb @ per lb	25 lb @ per lb
411C	Komatsuna	100	2.45		6.40	18.00		51.90	47.80	
411E	Tsoi-Sim Purple	100	2.70		8.00	22.55		64.95	59.85	
422C	Guy Lon	100	2.45	10.30	16.35	52.90		139.50		
422H	Cee Gwa (Smooth)	100	5.25	6.90	10.90	35.25		93.00		
422P	Perilla Red	50	3.75	7.40	10.95	30.90		89.00	82.00	
422Q	Mizuna Early	100	2.45		3.60	10.15		29.20	26.90	
423C	Orient Wonder Yard Long	100	3.75		30.60	61.25		108.30	73.50	49.00
423G	Green Fortune Pak Choi	10	3.75	14.50	23.00	74.30		196.00		
423H	Bitter Gourd Long Thick	10	3.75		10.90	35.25		93.00		
150T	Shoyo Long	50	3.95	55.75	94.90	242.80		817.85		
	HYBRID PAK CHOI (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per m	500 M per M	
422F	Feng Qing Choi	100	2.45	6.00	5.37	5.18	3.39	3.31	2.80	
422S	Mei Qing Choi	100	2.45	5.69	5.09	4.91	3.21	3.13	2.72	
422T	Joi Choi	100	2.45	5.87	5.25	5.06	3.31	3.23	2.72	
423D	Toy Choy	100	2.45	4.33	3.88	3.74	2.45	2.39	2.10	
UT423E	Bopak Untreated	100	2.75	8.15	7.29	7.04	4.60	4.49	4.12	

PEAS	2 oz 57 g	1/2 lb 227 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	100 lb @ per lb	500 lb @ per lb
231A Little Sweetie	2.25	3.20	4.40	3.30	2.24	1.70	1.57





Celery TZ Titus



Celeric Giant Prague



Celery TZ 6200



Carrot Bolero

## CELERY

**GERMINATION:** Requires 10-20 days at 65°F/18°C. Seed should be covered and kept moist. If soil dries out, it will delay germination. **CULTURE:** an acre requires 20-30,000 plants. **EARLY CROPS:** Sow in greenhouse about Feb.15th-Mar.1st, 1/16 in/2 mm depth. Keep night greenhouse temperatures above 55°F/13°C to discourage seeders. Germination is improved by alternating temperatures. Transplant 3 in/8 cm seedlings into the field in rows 30-36 in/76-91 cm apart. Celery may be direct seeded at the rate of .25 lb/113 g per acre. Keep well watered, spray with a good fungicide once a week. **SMALL GROWERS:** Celery seed should be started in Jiffy Mix about Feb. 25th or 10-12 weeks before transplanting into the field. Sow pellets, cover lightly, and germinate at 70°F/21°C for 14-21 days. Do not transplant outside before June 1st due to the danger of bolting caused from cold nights. Celery is a heavy feeder and drinker. Fertilize every 2-3 weeks, keeping well watered. Later crops may be sown outdoors or in flats by mid April. Seed requires 3 weeks to germinate. **PELLETS:** Only high germ. 88-90% seed is used. **MATURITY DATES:** Are from transplants to harvest.

### HYBRID VARIETIES

**P99N NERO** 98 days. F1 hybrid. (Yellows Tolerant) Plants are mid green in color. Tall slim stalks are very slow to bolt. Fleshy petioles have the best flavor and taste of any other hybrid or O/P. Plants have a good field holding ability and gain early weight faster than all other hybrids. Pelleted seed.

**P99J TZ 6200** 100 days. F1 hybrid. (Yellows Tolerant) Excellent dark green petiole color, texture and taste. Consistent petiole count and yield. Good resistance to bolting and a field resistance to Fusarium. Main season variety. Pelleted Seed.

**P99K TZ TITUS** 100 days. F1 hybrid. (Yellows Tolerant) Medium dark green petiole color with excellent texture and taste. Good field holding ability with heavy yields. Good Fusarium resistance. Pelleted Seed.

**P99G SABROSO** 100 days. (Yellows Tolerant) Specially suited for the processing industry. Long thick, straight petioles with medium smoothness. Plants require very little suckering or pruning and have a high tolerance to Fusarium. Thick heavy plants provide excellent weight and yield. Use for fresh market or processing. Pelleted seed.

**P99H COMMAND** 100 days. (Yellows tolerant) A tall fresh market celery with dark green foliage and reduced suckering. Bunches are compact and blocky with good petiole length. Good tolerance to bolting and Fusarium Yellows. **pvp** Pelleted seed. Patented Variety.

## CELERIAC

Roots are eaten after they reach 2 in/5 cm or more in diameter. They require no blanching and have a nut like flavor. Easily stored. Approx. 50,000 seeds per oz/28 g. Maturity from transplants. **CULTURE:** Similar to celery.

**P94B REX** F1 hybrid. This vigorous white pulped celery root is smooth easy to clean. Drought tolerant with high yield potential. Leaves are strong and erect but susceptible to Septoria. Use for fresh market, processing and storage. Pelleted seed. Pkt. (50 pellets) \$5.25; 1,000 pellets \$88.95; 10,000 pellets \$60.49.

**94A GIANT PRAGUE** 110 days. An elite European strain. Generally known as turnip rooted celery. The root or knob is the edible part.

## CARROTS

### HYBRID BABY CARROT

**NOTE:** Variable Size : Baby carrots will lose at least 60% of their uniformity and become oversized quickly under stress. Too much rain, hot days and nights and drought will all cause length and root distortion. Make several sowings.

**CULTURE:** Sow at the rate of 10 lbs/4.5 kg per acre, in four or five row mini beds, 8 in/20 cm between rows. For best results mini carrots should be grown in shallow, sandy top soil, that has been well rototilled (8 in/20 cm) pH of 6.0 to 7.0 is ideal. Small growers should broadcast or spread the seed in wide 2 in/5 cm bands, spacing seeds 1/16 in/ 2 mm apart. An oz/28 gr sows approx. 60 ft/18 m of bed, pkt. sows 5 ft/1.5 m of row. Approx. 1,200 seeds per sq. m. **TRIPLE SIZED SEED** - Graded by length, width, gravity. **SEED COUNT:** Approx. 350,000 seeds per lb. Consider 3 million live plants per acre.

**Baby Carrots vs Cut and Peel:** In our opinion there is "no contest" between the taste of a true Baby type and the "pseudo baby" Cut and Peel which is peeled, shaped and divided into 2-4 pieces (resembling a baby carrot).

**91H GOLDFINGER** 49 days. F1 hybrid. Fancy, sweet "baby carrot" that has strong vigorous tops, very uniform, dark orange roots, smooth skin, tiny cores and nice blunt tips. Excellent high quality bright orange interiors, distinct tap roots and very high soluble sugar flavor. High yield possibilities of dark orange "mini carrots." Average length 5-6 in/13-15 cm at a high seeding rate. See page 16 for prices.

### HYBRID BERLICUM TYPE

**CULTURE:** Berlicum types can be used like early Nantes types or fully matured for dicing or slicing as a processing carrot. Bolero is being used by a large number of growers for slicing and processing.

**79D BOLERO** 56-66 days. F1 hybrid. Use as an early, long Nantes like Nanco, Presto or Napoli for fresh market and storage, or fully mature as an Oranza/PY60 type for slicing and dicing. Smooth bright orange, 7-8 in/18-20 cm blunt tip roots hold longer in the field without cracking and have less green shoulder. Tops average 15 in/38 cm, are tolerant to PM and Alternaria Leaf Spot and very strong for mechanical harvesting on sand or muck soils. Excellent for storage. For untreated seed, order **UT79D**. See page 16 for prices.



Carrot Goldfinger

### EARLY OPEN POLLINATED VARIETIES

**99D UTAH 52-70 R IMPROVED** 98 days. Dark green plants are very uniform with tall petioles. Provides excellent yields, is tolerant to both bolting and Fusarium Yellows. Used by bedding plant growers and smaller growers. Available in raw seed only.

NEW	CARROT PELLETS		10 M	50 M	100 M	1,000 M	5,000 M		
	Min. order 10,000 (M = 1,000 pellets)		per M	per M	per M	per M	per M		
	P81A	Apache	1.98	1.88	1.40	0.89	0.73	MINIMUM ORDER We cannot supply small orders for pellets. Please keep your orders to multiples of 10,000 pellets per variety	
	P81K	Enterprise	2.07	1.97	1.46	0.92	0.76		
	P86B	Achieve	2.08	1.98	1.47	0.93	0.77		
	P86S	SV2384DL	2.46	2.36	1.74	1.08	0.88		
	P89H	Maverick	2.07	1.97	1.46	0.92	0.77		
	P90A	Cellobunch	2.16	2.06	1.53	0.96	0.79		
	P90G	Envy	2.23	2.13	1.58	0.99	0.81		
	P90K	CR2289	2.23	2.13	1.58	0.99	0.82		
	P91R	Rebel	2.12	2.02	1.50	0.94	0.79		
	<b>CELERY PELLETS (M = 1,000 pellets)</b>		<b># pellets per pkt</b>	<b>Pkt</b>	<b>1000 pellets</b>	<b>10 M per M</b>	<b>50 M per M</b>		<b>100 M Per M</b>
	P99G	Sabroso YR			N/A	4.59	3.04	2.59	2.12
	P99H	Command YR			N/A	6.58	4.35	3.71	3.04
	P99J	TZ 6200	50	3.50	33.81	11.50	7.61	6.09	5.07
	P99K	TZ Titus	50	3.50	33.81	11.50	7.61	6.09	5.07
	P99N	Nero	50	3.50	33.81	11.50	7.61	6.09	5.07
	<b>CELERY - Raw Seed (M = 1,000 seeds)</b>		<b># of seeds per pkt</b>	<b>Pkt</b>	<b>1000 seeds</b>	<b>10 M Per M</b>	<b>50 M per M</b>	<b>100 M per M</b>	<b>1,000 M per M</b>
	99D	Utah 52-70 R Imp	100	3.20	6.80	2.31	1.53	1.31	1.07
	<b>CELERIAC</b>		<b># seeds per pkt</b>	<b>Pkt</b>	<b>1/2 oz</b>	<b>oz</b>	<b>1/4 lb</b>	<b>1/2 lb</b>	<b>lb</b>
	94A	Giant Prague	1,000	2.15	3.50	4.95	14.40	23.60	36.60



Touchon Deluxe



Brilliance



Romance



Novelty Colors



Gold Nugget

## HYBRID & OPEN POLLINATED CARROTS

**CULTURE:** 1 pkt. will sow about 30 ft/9 m of row; oz/28 gr 250-300 ft/76-91 m; 1-2 lbs/1 kg per acre for Chantenay or Danvers types. Broadcast seed thinly in a band 2 in/5 cm wide and space the seeds about 1/8 in/3.1 mm apart in all directions (3-4 seeds per in/25 mm). Seed should be sown .25 to .5 in/6-13 mm deep and covered with fine, light soil. Do not allow ground to crust by sowing too soon after a rain or setting the weight of the packing wheel on your seeder too heavy. Crusted soils cause irregular germination which will cause wide variations in the maturity and length of the roots at harvest time. Never allow fields to become flooded, when the young seedling is at the 5th-8th leaf stage, or it will cause short stubby roots. Forked roots are a sign of severe stress (lack of moisture). Make several sowings 7 days apart, to avoid weather stress problems on your entire crop. Keep heavy tractor wheels away from the rows, to prevent misshapen roots. **SEEDING RATE:** The most important thing a grower does is to calculate the number of live seeds per ft. or sq. meter - depending on variety, soil type and seed germination. If the weather is normal - seeding rate controls the shape and overall quality of the root. On muck, regular types are sown at 18-36 seeds per ft/30 cm, processors at 18-20 live seeds per ft/30 cm on muck, less on sandy soil. **SEED COUNT:** We try to inventory seed counts of 225M- 275M/per lb on fresh market or processing varieties and 350M-400M on baby carrots. **COLOR** is influenced by soil temperature over 68°F/20°C and drainage. Never use nitrogen to improve color.

### HYBRID NANTES TYPES

**82L BRILLIANCE** 60 days. F1 hybrid. These smooth, straight, cylindrical Nantes carrots are very uniform in shape and type. They have clean rounded shoulders and clean airy tops. Use for medium term soil storage. High resistance to PM, *Alternaria dauci*. Intermediate resistance to Cavity Spot.

**90T CROFTON** 57 days. F1 hybrid. A great tasting Amsterdam Nantes type for bunching. Extra long 7-8 in/18-20 cm cylindrical roots have blunt tips at maturity, averaging 3.5-7 oz/100-200 gr. Upright, medium long, dark green tops are very strong - suitable for mechanical harvesting. Roots have a rich medium orange interior and exterior color with high Carotene levels. Use for fresh market bunching, slicing or storage.

**91H GOLDFINGER** 56 days. F1 hybrid. An improved Sweet Baby Jane type. Matures as a full grown Amsterdam Nantes at 7-8 in/18-20 cm in length at a medium seeding rate. Dark orange uniform, cylindrical roots taper to blunt tips. Mature sweet flavor is excellent. Medium sized upright tops are very strong and have a tolerance to bolting. Yields are high - sells on sight. Stores well for fresh market.

**90D MAGNUM** 58 days. F1 hybrid. Consistently produces long Nantes hybrid roots with machine harvestability. Excellent tasting medium orange roots are cylindrical, average 8.5 in/21 cm in length, have blunt tips at full maturity and good tolerance to breakage. Tops are very strong and have some resistance to ALT. Excellent yields and good storability.

**90R ROMANCE** 60 days. F1 hybrid. Very uniform, smooth, cylindrical, medium orange roots average 8 in/20 cm in length, have blunt tips excellent sweet taste. Outstanding orange interiors. Medium tops have good attachment, suitable for mechanical harvesting.

### GOLDEN HYBRID NANTES

**79N GOLD NUGGET** 57-66 days. F1 hybrid. Light yellow roots are very uniform in size and shape with typical Nantes shoulders and nice blunt tips. At full maturity roots average 8 in/20 cm in length and 1.5-1.75 in/4-4.5 cm in diameter. Interior cores are small and inside/outside colors are yellow. Strong tops, good resistance to bolting.

### OPEN POLLINATED NANTES TYPES

**83F AMSTERDAM FLAMCOR** 55 days. O/P. An elite very uniform smooth Coreless Amsterdam. Bright salmon-red cylindrical roots are 6-7 in/15-18 cm long. Flesh is exceptionally sweet and crisp. Internal roots have very small deep orange cores and blunt tips. Upright 12 in/30 cm pure green foliage. Use for bunching, fresh market or baby carrots at higher seed densities. For untreated seed, order **UT83F**.

**82A TOUCHON DELUXE** 58 days. O/P. Selected from Nantes Touchon for earliness, uniformity, extra length and exceptional color. Tops average 11-12 in/28-30 cm in length. Roots have rounded, sloping shoulders, cylindrical, very smooth, nicely stumped. Colors quickly, roots are almost 7 in/18 cm long. Interior and exterior colors are brilliant orange. Exclusive.

### NOVELTY COLORS

**89M MALBEC** 66 days. A beautiful medium red Emperor type hybrid with a very good tolerance to bolting. Cylindrical slightly tapered roots will fill to the tip better in 70 days. Strong tops have good tolerance to blight and can be mechanically harvested. Adapted for both mineral and muck soils, but color, smoothness and root quality is better in mineral soils.

### NOVELTY COLORS

**83Q RUBY QUEEN** 63 days. F1 hybrid. Uniform red interior and exterior color. Cylindrical, smooth tapered 10 in/25 cm cello type roots with good ALT resistance.

**89P PURPLE ELITE** 60 days. F1 hybrid. Unique medium purple exterior and interior color, tapered roots are 8 in/20 cm long with very strong tops. Use for cellos. Patented Variety.

**83C CREAMPAK** 63 days. F1 hybrid. Attractive, creamy yellow, Emperor type roots have strong, dark green tops. Roots are very smooth 9 in/23 cm in length with no green shoulder. Crisp, mild sweet taste.

**83S SNOW MAN** 63 days. F1 hybrid. Bright white Emperor type with no green shoulder. Smooth skin, uniform shape and good sweet flavor. 8-10 in/20-25 cm root length. Strong tops good ALT and PM resistance.

**82Y YELLOWBUNCH** 63 days. F1 hybrid. Bright yellow Emperor shaped 8.5-9 in/21-23 cm, mild sweet tasting root. Use for cellos, bunching, slicing, juice and cut and peel. Tops have good ALT and PM resistance.

**89L PURPLE HAZE** 70 days. F1 hybrid. Emperor-shaped purple carrot. Smooth roots with bright orange centers average 10-12 in/25-30 cm and have very sweet flavor. Cooking dissolves the purple color. Hand harvest.

NEW	HYBRID CARROTS		1,000	25 M	100 M	250 M	500 M	1,000 M	5,000 M	
	<i>(M = 1,000 seeds)</i>		seeds	per M	per M	per M	per M	per M	per M	
	79D	Bolero	2.87	1.72	1.22	0.95	0.80	0.63	0.53	
	79N	Gold Nugget	4.31	2.58	1.83	1.43	1.20	1.04	0.79	
	82L	Brilliance	3.44	2.06	1.46	1.14	0.96	0.83	0.64	
	90D	Magnum	3.23	1.94	1.37	1.07	0.90	0.78	0.58	
	90R	Romance	3.51	2.10	1.49	1.17	0.98	0.77	0.66	
	90T	Crofton	2.70	1.62	1.15	0.90	0.75	0.65	0.54	
	91H	Goldfinger	3.67	2.20	1.56	1.22	1.02	0.80	0.66	
	CARROTS		# seeds	Pkt	oz	¼ lb	½ lb	lb	5 lb @	25 lb @
	<i>(Open Pollinated)</i>		per pkt		28 g	113 g	227 g	454 g	per lb	per lb
	82A	Touchon Deluxe	1,500	2.45	5.00	9.55	15.60	19.10	18.05	18.05
	83F	Amsterdam Flamcor	1,500	2.45	5.60	10.70	17.40	21.35	20.15	20.15
	CARROT PELLETS				10 M	50 M	100 M	1,000 M	5,000 M	
	<i>(Min order 10,000 pellets (M = 1,000 pellets))</i>				per M	per M	per M	per M	per M	
	P79D	Bolero			2.04	1.94	1.44	0.85	0.75	
	P90D	Magnum			2.26	2.16	1.59	1.00	0.80	
	P90R	Romance			2.42	2.32	1.71	0.99	0.88	
	P91H	Goldfinger			2.52	2.42	1.78	1.02	0.88	



Triton



Cellobunch



Honeysnax



Maverick



Apache

## HYBRID & OPEN POLLINATED CARROTS

**CULTURE:** The size, shape, color, weight and smoothness of a carrot crop are controlled by growers methods, land type, number of live seeds per ft. of row sown and weather! The number of live seeds per foot that you sow will determine the uniformity, shape and yield of your carrots in a normal weather year. If the soil is crusted by seeder wheels and compacted by heavy rains, germination WILL be erratic and sparse, especially in clay/loam soils where soil crusting is common. If this happens, it is a grower related problem. Always make at least 3 separate seedings, several days apart to avoid weather stressed or misshapened roots. **FLOODING:** If your land is not level and parts of your crop are covered by water at the 5th-8th leaf stage, root length will be severely stunted. **LIVE PLANT POPULATION:** Seed or pellet spacing decisions by the grower are the most critical decisions they will ever make. Proper spacing of the live plants per acre, that emerge WILL determine the shape, length, thickness and root color. **PELLETED SEED:** Prices page 15.

**82E EAGLEPAK F1** hybrid. A multi-purpose carrot well suited for early cut and peel production, as a slicer, and as an early cello carrot for the fresh market. This smooth skinned, 10-12 in/25-30 cm long carrot has good flavor and color that is consistent throughout the interior, with no green shoulders. Tops are good with medium leaf blight resistance.

**90A CELLOBUNCH** 61 days. Standard ALB resistant early Jumbo or Cello for muck soils. Cylindrical 9-11 in/23-28 cm root with blunt tips. Good color and taste.

**82B UPPERCUT 25** 63 days. Emperor hybrid cut and peel/slicer. Excellent dark green strong tops have high resistance to ALT and PM. Cylindrical, slightly tapered 10 in/25 cm smooth roots are deep orange. Good taste.

**82H HONEYSNAX** 63 days. Produces a long, tapered, slender 9-11 in/23-28 cm mild sweet tender root with blunt tips and deep orange interior color. Use for baby cuts and cut and peel markets. Resistant to ALT and IR PM.

**89H MAVERICK** 63 days. For early cellos and jumbos. Smooth 9-10 in/23-25 cm roots, strong tops. Excellent interior/exterior color and taste. Slightly tapered root. For sandy soils only. IR to ALB, bolting, cracking.

**89J SUGARSNAX 54** 63 days. High Brix (sweet taste) Nantes x Emperor type. Cylindrical 8-10 in/20-25cm in length, blunt tips, very smooth deep orange. Resistant to ALB and Cercospora. For untreated seed, order **UT89J**.

**81A APACHE** 65 days. Roots are dark orange, average 10 in/25 cm and are very smooth. Used for early cello packs. Resistant to Alternaria. Sow at 18 live plants/ft.

**90G ENVY** 66 days. F1 hybrid. Early jumbo. 12 in/30 cm long with 1.5-1.75 in/3.8-4.5 cm diameter which may vary depending on spacing. Smooth bright orange roots with blunt tips. For mineral and muck soils.

**88T TRITON** 66 days. Cut and peel slicer, superb taste and texture, 9-10 in/23-25 cm cylindrical, uniform roots medium orange color, semi-blunt tips, strong tops.

**86F SV4128DL** 66 days. An Emperor type hybrid. Well adapted for mineral soils where it makes a nice smooth tubular shaped root with extra long 10-12 in/25-30 cm length. Strong tops have good disease resistance and are easy to mechanically harvest. Use for both cellos or slicing.

**88P OLYMPUS** 67 days. F1 hybrid. Excellent cello slicer or bunching type. Uniform 10 in/25 cm smooth tapered roots with great color. Outstanding taste, crisp texture. Medium tops are strong. Good long term storage.

**81K ENTERPRISE** 68 days. Outstanding extra length, 12-14 in/30-36 cm on loose soil. Dark orange roots have small cores with some crack tolerance. Strong tops have good ALT resistance. Cut and Peel, slicer type.

**91R REBEL** 68 days. High quality 9-12 in/23-30cm mid-season, for cellos on mineral soils. Smooth uniform roots, free of green shoulder, have excellent interior color and taste. Dark green tops resistant to ALT and PM. Patented Variety.

**86S SV2384DL** 68 days. Dark orange 12 in/28 cm long, thick cylindrical roots for mineral or muck soils. Strong 15 in/38 cm tops. Roots have semi-blunt tips with small cores. For cellos or slicers, good taste!

**91 ROYAL CHANTENAY** 60 days. O/P. Cylindrical slightly tapered blunt tips processing type. For untreated seed, order **UT91**.

**83 DANVERS 126** 65 days. O/P. Best processing type for heavy soils. Great interior color and uniform thick slightly tapered cylindrical roots with blunt tips. Strong tops.

**86M MOONRAKER** 70 days. Dark orange conical shaped root averages 7 in/18 cm in length and 2.5-3.5 in/6-9 cm in diameter has an excellent medium orange uniform interior color. Good tolerance to splitting.

NEW	HYBRID CARROTS		# seeds per pkt	Pkt	1,000 seeds	25 M per M	100 M per M	250 M per M	500 M per M	1,000 M per M	5,000 M per M
	(M = 1,000 seeds)										
	81A	Apache			2.78	1.66	1.18	0.92	0.78	0.67	0.51
	81K	Enterprise			2.92	1.75	1.24	0.97	0.81	0.70	0.54
	82B	Uppercut 25			2.78	1.66	1.18	0.92	0.78	0.67	0.52
	82E	Eaglepak			2.91	1.74	1.24	0.97	0.81	0.70	0.55
	82H	Honeysnax			2.78	1.66	1.18	0.92	0.78	0.67	0.52
	82Y	Yellowbunch (Bright Yellow)	250	2.75	6.54	3.92	2.78	2.17	1.83	1.58	1.19
	83C	Creampak (Creamy Yellow)	250	2.75	6.54	3.92	2.78	2.17	1.83	1.58	1.19
	83Q	Ruby Queen (Red)	250	2.75	8.33	4.99	3.55	2.77	2.33	2.01	1.51
	83S	Snow Man (Bright White)	250	2.75	7.24	4.34	3.08	2.41	2.02	1.74	1.32
	86F	SV4128DL			3.35	2.01	1.42	1.11	0.93	0.81	0.62
	86M	Moonraker			2.79	1.67	1.19	0.93	0.78	0.67	0.51
	86S	SV2384 DL			3.57	2.14	1.52	1.19	1.00	0.86	0.66
	88P	Olympus			2.34	1.40	1.00	0.78	0.65	0.56	0.43
	88T	Triton			2.34	1.40	1.00	0.78	0.65	0.56	0.43
	89H	Maverick			2.92	1.75	1.24	0.97	0.82	0.70	0.55
	89J	Sugarsnax 54			2.63	1.58	1.12	0.87	0.73	0.63	0.49
	89L	Purple Haze (Purple/Orange)			5.39	3.23	2.29	1.79	1.50	1.30	1.06
	89M	Malbec (Medium Red)			5.78	3.46	2.46	1.92	1.61	1.39	1.07
	89P	Purple Elite (Medium Purple)			6.61	3.96	2.81	2.20	1.84	1.59	1.21
	90A	Cellobunch			3.08	1.84	1.31	1.02	0.86	0.74	0.57
	90G	Envy			3.19	1.91	1.36	1.06	0.89	0.77	0.59
	91R	Rebel			3.00	1.80	1.28	1.00	0.84	0.72	0.57
	83	Danvers 126 O/P			1.10	0.66	0.47	0.36	0.31	0.28	0.23
	OPEN POLLINATED CARROTS		# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	½ lb 227 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	
	91	Royal Chantenay	1,500	2.45	3.80	11.65	18.95	23.25	22.00	21.00	



Danvers 126



Olympus



Minuteman



Aquarius



Synergy



Clarify



Freedom CMS



Snow Crown

## HYBRID CAULIFLOWER

Cauliflower has always been one of our specialties. We have supplied hundreds of commercial cauliflower growers in the North eastern U.S.A. and all parts of Canada for four generations. Cauliflower originated in the Mediterranean countries and is a close relation to the broccoli family. It likes fertile, organically enriched loam, that is fairly well limed with a pH of 6 to 7. Plants are very sensitive to boron deficiency in the soil. Organic growers should refer to the synopsis on cabbage for insect controls. All maturity dates mentioned are the number of days from transplanting (4 or 5 weeks old) plants into the field until heads are harvested. GRADED SEED: Our suppliers are now precision grading all cauliflower seed by specific seed count, which indicates the approximate seed size. MATURITY: From spring transplants to harvest. Add 7 days for fall varieties. Cauliflower matures through three separate phases. Any check in growth during the transition period between these phases will cause quality problems with the crop. This of course is a weather or grower problem. Make several sowings to minimize crop losses.

CULTURE: Approx. 100M - 120M per lb/454 g in frames or flats. DIRECT SEEDING: This is possible but very risky! Harvest windows are easier to control by using transplants.

EARLY CAULIFLOWER: Sow in the greenhouse from Feb. 1st to Mar. 15th. Transplant into the field about April 15th in rows 30 in/76 cm apart, and 18 in/46 cm apart in the row. Weather conditions influence the growth of cauliflower more than any other vegetable. Hot weather can destroy a crop with stem rot, a prolonged dry spell or the use of old plants will cause Cauliflower to bolt or button up. Cauliflower prefers slow, steady growth and will not stand severe checks of any kind. When transplanting, it is very important to use young, 4 to 5 week old plants. Most growers sow seed in successive plantings, a week apart, to prevent the chance of unfavorable weather conditions destroying their entire crop. The maturity dates are based from the time that the plants are transplanted into the field.

LATE CAULIFLOWER: Sow outside in seed beds or flats in May. Heads should be tied before they are the size of a teacup, to provide proper blanching.

BUTTONING: Caused by unstable weather (low temperatures, excessive dry or wet periods). Plants form tiny curds before enough leaves are formed. NO HEADS FORMED: High temperatures keep plants in the vegetative stage until temperatures fall to reasonable levels. LEAFY CURDS: Caused by high temperature, drastic fluctuations in day/night temperatures or improper nitrogen balance. RICINESS: Low temperatures just after planting or a late supply of nitrogen to the plants.

DISCOLORED HEADS: Caused by sunlight exposure due to poor leaf cover during the vegetative phase, before curds are formed or poor harvest techniques by the grower. Heads should be cut and not face the sun (keep shaded to keep white). No test (0 in 40,000 plants) will guarantee total freedom from disease problems, unfortunately the technology just has not been invented yet to give this assurance. However the concentrated effort to supply clean seed to growers by all seedsmen now focuses the major cause for disease in the following areas: (a) contaminated seedling beds or top soils used in seedling flats, (b) the use of year old, unsterilized foam transplanting trays, (c) unsterilized and unfumigated greenhouse or tools, (d) neighbouring disease carrier crops rape or canola, perennial weeds, golden rod, wild turnip, etc, (e) the failure to rotate crops, (f) overhead irrigation with diseased water, (g) improper control of carrier insects from diseased neighbouring fields, (h) failure to clean cultivating equipment between crops. (i) handling infected WET transplants from the greenhouse or beds.

### EARLY HYBRIDS

CULTURE: Make several sowings to avoid late spring or early summer harvest problems. Use young transplants and deeper cells for better root systems.

**97C SNOW CROWN** 48 days. Well rounded, solid white heads average about 2 lbs/1 kg a piece and measure up to 7.5 in/19 cm across, with good depth. Plants are vigorous and extremely uniform.

**97E MINUTEMAN** 51 days. Similar high dome shaped heads and snow white color as Rushmore but heads tie up faster. Dark green, upright leaves. Heads average 2.25 lb/1.2 kg.

**95W FREMONT** 65 days. Very uniform under variable maturity, very uniform, dense pure white heads are very heavy - which helps maximize carton weights. For shipping, fresh market or processing.

**97H CLARIFY** 65 days. Strong, semi-erect, vigorous plant. Uniform, elliptical head with dense white curds. Suitable for fresh and processing markets. Clubroot resistant.

**95A FREEDOM CMS** 66 days. New CMS breeding assures less chance of inbreds and increases overall uniformity. Beautiful self wrap CMS version of Fremont - snow white heads are very uniform to harvest. Less "fuzz" in extreme weather.

**95Y ATTRIBUTE** 67 days. Similar to Fremont with very white, smooth heavy heads which provide comparable head size and yields. Upright plants provide good self wrap. Harvest window is short - 2 ties.

### MAIN SEASON HYBRIDS

**NOTE:** There is some evidence that unusually hot, wet weather may cause several main season types to grow too fast, between the curd and the head development stages. If this happens, the accelerated growth may cause the plant to become weak and lose its natural tolerances to secondary disease infections that can be spread by cultivating or working in wet fields. If Black Rot symptoms occur in late July, just after the curd forms (a) stay out of the field when it is wet (b) spray with appropriate chemicals to control the disease and (c) leave plants to freeze solid after harvest.

**95E WHITE SAILS** 68 days. Late main season, self wrap hybrid. Out yields White Fox, White Rock types, 2 to 1. Extra large 7.5 in/19 cm heads are very deep, dome shaped. Excellent heavy self wrap leaves. Some resistance to internal black speck. Extra large heads for processing. Exclusive.

**97J AQUARIUS** 70 days. Uniform, high quality white, smooth, firm, heavy curds. Very tolerant to hot summer weather and curd "hairyness." Strong erect plant with good curd cover. Dense round heads.

**98E APEX** 71 days. High domed, smooth, large head with excellent self wrap protection. Concentrated maturity, very uniform, dense pure white heads are very heavy - which helps maximize carton weights. For shipping, fresh market or processing.

**97K SYNERGY** 75 days. Vigorous variety produces dense, firm white curds with good leaf cover. Use for summer or fresh market. Globe shaped heads, upright plants. Outstanding curd quality, short harvest period.

**98W CASPER** 76 days. An excellent processing hybrid for late summer and fall conditions. Vigorous plants provide very good self wrapping leaf protection. The large, dense, smooth white curd has very good processing weight and excellent color. Tipburn resistant.

**98L ARTICA** 80 days. Heavy, dense, high dome self wrap snow white heads are very tolerant to internal greening during processing. Large upright plants have extra heavy heads which maximize carton weights for shipping or tonnage totals for processing.

NEW	HYBRID CAULIFLOWER (100-120 M = approx. 1lb.)	# seeds per pkt	Pkt	1,000 seeds	5 M per M	10 M per M	50 M per M	100 M per M	500 M per M
	95A Freedom CMS	25	5.30	59.85	53.55	51.66	33.81	30.66	28.38
	95E White Sails	25	2.95	23.84	21.33	20.58	13.47	12.21	10.65
	95W Fremont	25	5.30	45.60	38.00	35.00	24.00	21.00	20.00
	95Y Attribute	25	5.30	50.49	45.17	43.58	28.52	25.86	23.62
	97C Snow Crown	25	2.45	19.08	17.07	16.46	10.78	9.77	9.20
	97E Minuteman	25	3.75	28.47	25.47	24.58	16.08	14.59	13.50
	97H Clarify	25	4.25	35.72	31.96	30.83	20.18	18.30	16.43
	97J Aquarius	25	4.25	33.02	29.55	28.50	18.66	16.92	16.11
	97K Synergy	25	4.25	34.11	30.52	29.45	19.27	17.48	15.75
	98E Apex	25	3.75	30.82	27.58	26.60	17.41	16.33	14.42
	98L Artica	25	3.75	30.82	27.58	26.60	17.41	16.33	14.42
	98W Casper	25	3.75	22.03	19.71	19.02	12.45	12.06	11.29



**Pricing Quantities**  
M = 1,000 Seeds or Pellets.



DePurple



Cheddar



Vitaverde



White Sails



Casper

### HYBRID PURPLE CAULIFLOWER

Purple cauliflower does not require tying the outer leaves over the heads to protect the color from fading due to the sunlight. Purple types are only grown in the fall, cool conditions promote deeper purple curds.

**51Y DePURPLE** 65 days. Heavier, larger 6-7 in/15-18 cm medium dome head than Graffiti. Brilliant violet purple heads have attractive white florette stems when cut. Excellent taste raw and holds color when cooked. Some heat tolerance.

**51D GRAFFITI** 70 days. Attractive deep purple hybrid. Plants are upright with dark green leaves. Heat tolerant, 16 oz/454 gr, 6 in/15 cm heads. Color turns bluish purple when cooked. The texture of the head is the same as regular cauliflower.

### HYBRID ORANGE CAULIFLOWER

CULTURE: Same as regular cauliflower.

**51J CHEDDAR** 68 days. A novelty great tasting hybrid cauliflower with an attractive orange curd that contains high levels of beta-carotene. Plant is medium size with smooth, dome shaped heads. Size, weight and firmness are similar to medium sized white varieties like Minuteman. Suited for fall production only, due to poor heat tolerance. Leave plant untied for maximum color intensity. No disease resistance.

### HYBRID BROCCOLI/CAULIFLOWER

Growers should consider limiting crops to small plots while becoming familiar with the growing habits of this broccoli X cauliflower used by California growers. Prefers cool, even growing conditions, like west coast areas in spring and fall. Long dry periods in August may cause bolting. Grow like early spring or late fall broccoli or cauliflower. Harvest in the fall, not in mid summer. Curd has a softer broccoli-like texture, but with a cauliflower appearance. Changes color to light green when cooked.

**51X VITAVERDE** 76 days. The first CMS F1 hybrid green cauliflower, with a strong vigorous fast growing upright plant to withstand bracketing and riciness. Curd is heavy and good quality. Plan harvests for early fall months. Space plants like regular cauliflower for good curd leaf cover.

**51W VERDI** 88 days. Medium size, apple green cauliflower heads. Vigorous plants produce better, milder flavor than broccoli or cauliflower. Easier to grow than O/P types but still requires grower attention to fertilizer rates and proper irrigation.

### HYBRID ROMANESCO

Unique looking heads are not shaped like cauliflower, but are covered with many pointed, spiralling, lime green pinnacles. Heads remain green when cooked. These small towering florets have a milder, sweeter flavor than white cauliflower. For best flavor, harvest heads when they are hand size. Plants are heat tolerant but prefer cooler fall harvests. Use raw or cooked.

**51T ORBIT** 76 days. Attractive lime green spirals. Uniform size heads on healthy large plants. Space 18 in/46 cm apart. Plant in summer for fall harvest. Mild nutty taste.

**CAULIFLOWER:** There is some evidence that unusually hot, wet weather may cause several main season types to grow too fast, between the curd and the head development stage. If this happens, the accelerated growth may cause the plant to become weak and lose its natural resistances to secondary disease infections that can be spread by cultivating or working in wet fields. If Black Rot symptoms occur in late July, just after the curd forms (a) stay out of the field when it is wet, (b) spray with appropriate chemicals to control the disease and (c) leave plants to freeze solid after harvest.

**i Pricing Quantities**  
M = 1,000 Seeds or Pellets.

NEW	BROCCOLI/CAULIFLOWER		# seeds	Pkt	250	1,000	5 M	10 M	50 M	100 M	500 M
	HYBRID (M = 1,000 seeds)		Per pkt		seeds	seeds	per M	per M	per M	per M	per M
	51W	Verdi	25	5.75	23.45	66.82	59.78	57.67	37.75	36.81	31.26
	51X	Vitaverde	25	5.50	16.00	45.60	40.80	39.36	25.76	25.12	24.32
		# seeds	Pkt	250	1,000	5 M	10 M	50 M	100 M	500 M	
		Per pkt		seeds	seeds	per M	per M	per M	per M	per M	
	51D	Graffiti	25	6.25	46.35	132.09	118.18	114.01	74.62	72.76	60.42
	51Y	DePurple	25	6.25	47.75	136.03	121.71	117.42	76.85	74.94	60.42
		# seeds	Pkt	250	1,000	5 M	10 M	50 M	100 M	500 M	
		Per pkt		seeds	seeds	per M	per M	per M	per M	per M	
	51J	Cheddar	25	6.25	46.15	131.50	117.66	113.50	74.29	72.44	62.35
		# seeds	Pkt	250	1,000	5 M	10 M	50 M	100 M	500 M	
		Per pkt		seeds	seeds	Per M	per M	per M	per M	per M	
	51T	Orbit	25	5.75	26.70	76.10	68.09	65.68	42.99	41.92	35.60



Orbit



Artica



Graffiti



Attribute



Sales Team Judging Cauliflower



### IMPROVED

- Sweeter taste
- Better tenderness
- Refined kernels
- Darker green husks
- Better shelf life
- Stronger plants
- Uniform plants



Gourmet Sweet™ Vision MXR



Gourmet Sweet™ Anthem XR



Gourmet Sweet™ Flagler



Gourmet Sweet™ Takeoff

## STOKES HYBRID SWEET CORN - GOURMET SWEET™ BRAND sh2 - NEW IMPROVED SUPER SWEET CORN

### BICOLOR VARIETIES

**G122Y KICKOFF XR** 69 days. Extra large 8.5 in/21 cm thick cylindrical ears with 16-18 rows, slightly tapered well filled tips. Medium dark green husks are tightly wrapped. Ears set high, snap easily at harvest. Refined kernels provide a good yellow/white contrast and are very tender and sweet. Resistant to Rp1-G Rust.

**G123M HERO XR** 71 days. Medium sized 7.75 in/19.5 cm slim cylindrical ears have 14-16 rows, blunt tips with strong tip fill and excellent dark green husk protection. Medium sized kernels are very tender and sweet with good color contrast. Medium height husks snap easily. Resistant to RpGDJ Rust.

**G122J 2171** 71 days. Great early bicolor with excellent soil vigor for early plantings. Ears average 8 in/20 cm and 14-18 row count with good husks and flags making an attractive ear package. Suitable for shipping and roadside usage. Medium resistance to SW and Rust. Outstanding flavor – tender, sweet kernels.

### YELLOW VARIETIES

**G124D VISTA XR** 69 days. First early hybrid with great husk protection and 7.75-8.25 in/19.5-21 cm ear length. An incredible choice for the high quality roadside market. Resistance to RpGDJ and NCLB.

**G118Q XTH11274** 72 days. Early yellow variety with good cold soil vigor. Extra large 8.5 in/21 cm by 2.25 in/5.75 cm cylindrical ears with a slight tapered tip, 16-18 rows have good tip fill, medium yellow kernels with excellent sweetness and tenderness. Medium dark green husks, snap easy and have good flags. Use for fresh market sales.

**G122M XTH20173** 73 days. Early bicolor. Dark green husks, nice contrasting 8 in/20 cm ear, 16-18 rows, good tip fill and husk cover, straight rows, blunt tips, snaps easy. Great taste and tenderness. Resistances to SW, Rust (Rp-GDJ).

**G118S TAKEOFF** 69 days. Our earliest yellow hybrid with outstanding sweetness and refined kernels plus an excellent dark green husk package. Ear height is nice and high for mechanical harvesting. Extra large thick ears average 8.5 in/21 cm in length by 2 in/5 cm wide with strong tip fill, blunt tips and cylindrical shape. 16-18 rows with good color, for fresh market.

**G123D VISION MXR** 75 days. Improved version. Large, thick, cylindrical ear averages 8 in/20 cm by 1.75-2 in/4.5-5 cm have blunt, rounded tips. Ears fill to the tip with medium yellow refined kernels, 16-18 straight rows, snaps easy - 20 in/51 cm ear height. Extra tender kernels have an excellent sweetness. Sturdy 64 in/162.5 cm plants are resistant to MDM, RpGDJ Rust plus NCLB. For untreated seed, order **UT123D**.

**G123G ANTHEM XR** 73 days. Large 8 in/20 cm bicolor, cylindrical ear is 2 in/5 cm thick, has rounded tips, 16-18 very straight rows of refined kernels that have excellent yellow and white contrast. Ears are easy to harvest and snap easily and fill to the tips with good dark green husk cover. Lots of good length flags. Excellent eating quality - tender sweet kernels. Resistant to Rp-G Rust. Use for shipping, roadside or the fresh market.

**G123T XTH1572** 72 days. Early 7.5-8 in/19-20 cm yellow with 16-18 row count with outstanding flavor, tenderness and eating quality. Plants have dark green husks with excellent coverage and good length flag leaves. Ideal for fresh market or shipping.

**G123N ELLE** 78 days. This 7.5-8 in/19 - 20 cm yellow corn has a 16-18 row count and refined ear shape. Widely adaptable with superb eating quality. Resistant to NCLB.

**G124B ROSIE** 74 days. Large 8.25 in/21 cm bicolor ears are thick, cylindrical with nice blunt tips, 16-18 rows and have very sweet, tender refined kernels with medium contrast. Ears snap easily and have excellent field holding ability. Superior eating quality.

**G121J VISION** 75 days. High quality yellow with great flavor and tender kernels. Ears average 8.25 in/21 cm; 16-18 rows with good tip fill. Dark green husks and some resistance to SCLB and SW.

**G122W SC1336** 83 days. Late yellow sh2 with Rp1-G Rust tolerance. Dark green husks, blocky 8x2 in/20x 5 cm, 18-20 row ears, excellent taste. Excellent shipper.

**G121N 274A** 74 days. Great second early with good cold soil vigor, extra large ear, good husk and flag package. Exceptional eating quality. Also use for mid season, but no later. Excellent kernel contrast. For untreated seed, order **UT121N**.

### WHITE VARIETIES

**G122Z 3572 VX** 71 days. Early white with a dark green, attractive husk package. This 7.75-8.5 in/19.5-21 cm long with a 16-18 row count corn has excellent seedling vigor. Tender with exceptional eating quality, ideal for fresh market stands. Resistant to MDM.

**G116Q EDEN** 76 days. Pure white 8 in/20 cm by 2 in/5 cm thick cylindrical ears with tapered tips have excellent tip fill, 16-18 straight rows of beautiful very sweet kernels. Dark green husks provide good cover and set high on tall 6.5 ft/2 m plants, snap easy for mechanical harvesting or hand harvest.

**G122S XTH2074** 74 days. Dark green husks, nice kernel contrast, cylindrical 8 in/20 cm ear, 16-20 straight rows, blunt tips. Good tip fill and husk cover. Snaps easy. Great taste. Resistances to SW and Rust (Rp1-G).

**G116Z NICOLE** 72 days. Extra large 8.5 in/21 cm thick cylindrical ears have 16-20 rows of pure white tender sweet kernels, well filled blunt tips plus a beautiful ear package. Dark green husk cover. Ears are easy to snap for quick harvests. Exceptional sweet corn taste. Resistant to MDMV.

**G122U XTH3674** 74 days. Excellent Gourmet Sweet white. Similar to Awesome in its characteristics. Dark green husks give 8.25 in/21 cm cylindrical ears good cover. Well filled to blunt tips. Snaps easy, 16-20 straight rows. Exceptional taste! Some SW and Rust resistances.

**G123K SUPERB MXR** 74 days. Large 8 in/20 cm by 2 in/5 cm thick cylindrical ear with blunt tips, excellent kernel contrast and outstanding tip fill. Dark green husks provide excellent coverage. Lots of long flags. Ears snap easy, have 16-18 rows of refined kernels with excellent sweetness. Resistant to Rp-G Rust and MDM.

**G123Q FREEDOM MXR** 73 days. Widely adapted with great 7.5-8 in/19-20 cm ear appearance and high yield potential. Excellent option for high quality shipping markets. Resistance to RpG, NCLB and MDM.

**G121U 378A** 78 days. Large white 8.5 in/22 cm ears, 16-18 rows of pearl white tender sweet kernels. Dark green tight husks. Ears fill to the tip with great cover. Harvested by machine. Resistances to SW, SCLB and Rust. Excellent taste.

**G122Q FANTASTIC XR** 75 days. 8 in/20 cm cylindrical bicolor ear, 16-18 straight rows, blunt well filled tips, good husk cover. Snaps easy. Superb taste. Resistances to SW and Rust (Rp1-G).

**G116M DEVOTION** 80 days. Excellent shipper or roadside market white! Tall plant, 8 in/20 cm ears, good tip fill and husk cover. 18-20 rows, excellent sweetness and flavor. Resistant to SW and Rp1/D.

**G127G SV1580SC** 80 days. High quality shipper, white with excellent tip cover plus dark green flags and husks. Large 8 in/20 cm tapered cobs with 18 rows of bright white kernels. Good taste and disease resistance.

**G124E FLAGLER** 77 days. High quality 8 in/20 cm bicolor ear with 16-18 rows. Strong plant with broad adaptation and good stress tolerance offering excellent yield potential. Intermediate resistance to Rp1-GFJ Rust.



Gourmet Sweet™ Caliber XR



Gourmet Sweet™ Awesome XR



Gourmet Sweet™ EX 08767143



Gourmet Sweet™ American Dream

## STOKES HYBRID SWEET CORN - GOURMET SWEET™ BRAND sh2 - NEW IMPROVED BICOLOR SUPER SWEET CORN

**G123C AWESOME XR** 76 days. Improved version. Rp1-G rust resistant version of Awesome with the same good husk cover and great yield potential. Strong single ear plant also has good SW and SCLB resistances, long dark green flag leaves. Very easy to snap. Great taste.

**G122H AWESOME** 76 days. Similar to Fantastic, but has improved husk cover and greater yield potential. Strong single ear plant has good SW and SCLB resistances. Nice bicolor kernel contrast. Great taste.

**G123P CALIBER XR** 76 days. Medium-length, mid-season 7.5-8 in/19 -20 cm bicolor with a 16-18 row count and great eating quality. This strong plant has an outstanding yield potential, excellent husk package and is widely adaptable to both roadside and shipping markets. Resistance to Rp-G Rust.

**G118P PRESTIGE XR** 77 days. High yielding bicolor shipper. Nice 8 in/20 cm cylindrical ear has a slight taper, 16 rows of refined, good contrasting kernels, strong tip fill. Nice flags, dark green husks, snaps easy. Resistant to Rp-G Rust, no NCLB, Great taste!

**G121C 277A** 77 days. Extremely refined 7.5 in/19 cm bicolor ears are 1.75 in/4.5 cm thick and slightly tapered with good tip fill, 18-20 rows. Ears have good kernel bicolor contrast, are tightly wrapped husk cover and exceptional high sugar and some tenderness.

**G123J HONOR XR** 79 days. Long bicolor shipper. 8.25 in/21 cm cylindrical ear with rounded tips, 16 straight rows, excellent contrast. Very strong plant. Very dark green husks, good flags. Snaps very easy, For machine harvesting. Resistant to Rp-G Rust. Excellent taste.

**G123L AMERICAN DREAM** 77 days. Medium length bicolor 7.75 in/19.5 cm by 2 in/5 cm thick cylindrical blunt tipped ear. Excellent tip fill, good kernel contrast and 16-18 rows tender, sweet kernels with excellent eating quality. Dark green well wrapped husks. Some NCLB resistance. Use for fresh market.

**G118L OBSESSION** 79 days. Bicolor 7.75 in/19.5 cm bicolor ear, 16-20 rows with good tip cover. Resistance to Rp/1D, NCLB and some SW. Excellent taste!

**G118X EX 08767143** 81 days. High quality bicolor augmented sh2, excellent shipper. 8 in/20 cm ears, 16-18 rows, with an attractive dark green husk, good flags and superior eating quality. Good resistances to Rp/1D and RpG Rust plus SW; NCLB and SCLB.

NEW	GOURMET SWEET™ CORN		DAYS	COLOR	EAR SIZE	ROWS	TIP FILL	HUSK COVER	S. WILT	DISEASE TOLERANCES				250 seeds	1,000 seeds	10 M per M	30 M per M	100 M per M	500 M per M
	sh2	Takeoff								RUST	TENDER	SWEET	FLAVOR						
	G118S	Takeoff	69	Yellow	8½ in/21 cm	16-18	4	4	-	-	4.5	4	4	9.40	18.78	11.58	10.95	9.64	8.76
	G123T	XTH1572	72	Yellow	7½ in/19 cm	16-18	4	4	-	-	4	4	4	9.40	18.81	11.60	10.97	9.65	8.78
	G118Q	XTH11274	72	Yellow	8½ in/21 cm	16-18	3.5	3.5	-	-	5	5	5	9.30	18.60	11.47	10.85	9.55	8.68
✓	G124D	Vista XR	69	Yellow	7¼ in/19.5 cm	14-16	4.5	4.5	-	T	4.5	5	5	9.10	18.21	11.23	10.62	9.35	8.50
	G123D	Vision MXR	75	Yellow	8 in/20 cm	16-18	4.5	4.5	MT	MT	5	5	5	9.40	18.81	11.60	10.97	9.40	8.78
	G121J	Vision	75	Yellow	8¼ in/21 cm	16-18	5	4.5	MT	MS	5	5	5	9.25	18.51	11.41	10.80	9.25	8.64
	G123N	Elle	78	Yellow	7½ in/19 cm	16-18	4	4	-	-	5	4	4	9.85	19.71	12.15	11.50	10.12	8.76
	G122W	SC1336	83	Yellow	8 in/20 cm	18-20	4	4	MT	T	3	3	3	9.75	19.54	12.05	11.40	9.77	8.80
	G122Y	Kickoff XR	69	Bicolor	8½ in/21 cm	16-18	4.5	4	-	T	4	4	4	9.55	19.14	11.80	11.16	9.82	8.93
	G123M	Hero XR	71	Bicolor	7¼ in/19.5 cm	14-16	4.5	4	-	T	4	4	4	9.10	18.24	11.25	10.64	9.36	8.51
	G122J	2171	71	Bicolor	8 in/20 cm	14-18	3.5	3.5	M	M	4	4	4	8.85	17.70	10.91	10.32	8.55	8.26
	G123G	Anthem XR	73	Bicolor	8 in/20 cm	16-18	4.5	4.5	M	T	4	4	4.5	10.15	20.28	12.50	11.83	10.14	9.46
	G124B	Rosie	74	Bicolor	8¼ in/21 cm	16-18	3	4	-	-	5	4	4	9.90	19.83	12.23	11.57	10.18	8.82
	G123K	Superb MXR	74	Bicolor	8 in/20 cm	16-18	4	4	-	T	4	4	4	9.15	18.33	11.30	10.69	9.41	8.55
	G122M	XTH20173	74	Bicolor	8 in/20 cm	14-18	4.5	4.0	M	T	5	5	5	10.15	20.28	12.50	11.83	9.80	9.46
	G121N	274A	74	Bicolor	8¼ in/21 cm	18-20	3.5	3.5	MS	MS	5	5	5	9.10	18.21	11.23	10.62	8.80	8.50
	G122Q	Fantastic XR	75	Bicolor	8 in/20 cm	16-20	4.0	3.5	MT	T	4	5	5	9.20	18.42	11.36	10.74	8.90	8.59
	G122S	XTH2074	75	Bicolor	8 in/20 cm	16-20	4.5	4.0	M	T	4	5	5	9.15	18.33	11.30	10.69	8.86	8.55
	G123C	Awesome XR	76	Bicolor	8 in/20 cm	16-18	4.5	4.5	MT	T	4	5	5	10.45	20.91	12.89	12.20	10.11	9.76
	G122H	Awesome	76	Bicolor	8 in/20 cm	16-18	4.5	4.5	MT	MT	4	5	5	10.45	20.91	12.89	12.20	10.11	9.76
	G123P	Caliber XR	76	Bicolor	7½ in/19 cm	16-18	4.5	3.5	-	T	4	4	4	9.10	18.18	11.21	10.60	9.33	8.48
✓	G124E	Flagler	77	Bicolor	8 in/20 cm	16-18	4.5	4.5	-	MT	3.5	4	4	9.45	18.85	11.62	11.00	9.68	9.42
	G123L	American Dream	77	Bicolor	7¼ in/19.5 cm	16-18	5	3.5	-	-	5	4	5	9.70	19.44	11.99	11.34	9.98	9.07
	G121C	277A	77	Bicolor	7½ in/19 cm	18-20	4.5	3.5	MT	M	5	5	5	13.05	26.12	16.11	15.24	12.63	12.19
	G118P	Prestige XR	77	Bicolor	8 in/20 cm	16	4	4	-	T	3	3.5	4	7.65	15.30	9.44	8.93	7.85	7.14
	G118L	Obsession	79	Bicolor	7¼ in/19.5 cm	16-20	4.5	4.0	MT	MT	3	3	3	9.35	18.71	11.54	10.92	9.05	8.43
	G123J	Honor XR	79	Bicolor	8¼ in/21 cm	14-16	4	4	-	T	3	4	3.5	7.95	15.90	9.81	9.28	8.16	7.42
	G118X	EX 08767143	81	Bicolor	8 in/20 cm	16-18	4.5	4.5	MT	T	3	3	3	9.70	19.41	11.97	11.32	9.38	8.75
	G122Z	3572 VX	71	White	7¼ in/19.5 cm	16-18	3.5	4	-	-	4	4	4	9.10	18.21	11.23	10.62	9.35	8.50
	G116Z	Nicole	72	White	8¼ in/21 cm	16-20	4	4	-	-	4	5	4	9.90	19.83	12.23	11.57	10.18	8.82
✓	G123Q	Freedom MXR	73	White	8 in/20 cm	16-20	4.5	4	-	T	4	4.5	4	9.85	19.71	12.15	11.50	10.12	9.20
	G122U	XTH3674	74	White	8¼ in/21 cm	16-20	4.5	4.5	MT	M	5	5	5	9.35	18.69	11.52	10.90	9.03	8.72
	G116Q	Eden	76	White	8 in/20 cm	16-18	5	4.5	M	S	4.5	4.5	4	10.00	20.28	11.52	10.11	9.33	9.01
	G121U	378A	78	White	8½ in/21.5 cm	16-18	5	5	MT	M	5	4	4	9.10	18.21	11.23	10.62	8.80	8.50
	G116M	Devotion	80	White	8 in/20 cm	18-20	3.5	3	MT	M	3	4	3.5	9.70	19.74	11.22	9.84	9.09	8.47
	G127G	SV1580SC	80	White	8 in/20 cm	16-18	5	4.5	MT	T	4	4	3.5	10.10	20.51	11.66	10.22	9.44	8.80

**STEWART'S WILT & RUST** T = Tolerant M = Moderately Tolerant S = Susceptible  
MT = Mildly Tolerant MS = Moderately Susceptible

**TASTE/TENDER** 2 = Very Good 4 = Excellent  
1 = Good 3 = Outstanding 5 = Best

**TIP/HUSK** 3.5 = Very Good 4.5 = Excellent  
3 = Good 4 = Outstanding 5 = Best



Café

Allure

Essence

Profit

Nectar

## SYNERGYSTIC HYBRID SWEET CORN

Synergistic hybrids were pioneered by Crookham in the early 1990's in an effort to widen the soluble sugar base and increase the sugar levels in su/se types, while maintaining the tender pericarp and creamy textures that SE homozygous types are famous for. SE's are very high in sucrose - a light sugar sweet taste with a shelf life of about 10 days. Sh2's are high in fructose, a heavier syrupy sweet taste like melons which has a longer 16 day shelf life. Sucrose levels can drop quickly in cloudy, cold harvest conditions while fructose levels will drop at a much slower rate. By combining 45% sh2 kernels with 55% SE or su/se kernels, the taste and tenderness is excellent under normal weather.

### YELLOW SYNERGYSTICS

**G116Y CAFÉ** 68 days. Earliest maturing synergistic yellow. High quality 8 in/20 cm slender ears, 14 straight rows of kernels that fill to the tip. Dark green plants have a high yield potential and good cold soil performance. Same sweetness, tenderness and flavor as many main season varieties.

**G116S INFERNO** 73 days. Large yellow 8 in/20 cm with excellent sugary taste. Ears have blunt tips, dark green cover, nice flags, 16-18 rows of bright glossy kernels. Compact sturdy plants.

### WHITE SYNERGYSTICS

**G116T ILLUSION** 72 days. White synergistic with dark green husks, excellent flag leaves and a nice plant. Cobs average 7.5-8 in/19-20 cm, fill to the tip with excellent high sugar taste and outstanding eating quality. Resistant to Common Rust and SW. An early white.

**G116R MATTAPOISETT** 80 days. Large 8 in/20 cm ear fills to the tip with 16-18 rows of pure white kernels. Sturdy 6.5 ft/2 m plant with a 18 in/46 cm ear height. Excellent medium green husk cover.

**G116H AVALON** 82 days. TripleSweet synergistic white has extra large 8.25 in/21 cm, high sugar ears with 16 rows. Medium green husks provide good cover and have very small flags. Sturdy 6 ft/2 m plant.

### BICOLOR SYNERGYSTICS

**G115N SWEETNESS** 68 days. Extra early bicolor with good cold soil vigor. Excellent taste! Large 8 in/20 cm by 1.75 in/4.5 cm thickness, 18 rows, solid tip fill, great dark green cover, sturdy plant.

**G120N LATTE** 68 days, Extra early bicolor with good cold soil vigor. Large slender 8 in/20 cm cobs have good tip fill. 14 straight rows of very sweet, tender kernels. Dark green plants have high yield potential.

**G117E TENDERFOOT** 70 days. Extra-large 8-8.5 in/20-22 cm by 1.9 in/4.8 cm diameter bicolor with 16+ row average. Great texture and flavor for this early corn. Intermediate Resistance to Rust and Stewarts Wilt.

**G115P TEMPTRESS** 70 days. QuadSweet™ brand with high eating quality. Early, sweet bicolor with strong emergence and vigor. This large, 8 in/20 cm long, 16 row corn has good snap and ear height. Sturdy, clean 6.5 ft/2 m plant. Good disease resistance to RpGDJ Rust and IR to NCLB.

**G115S PROFIT** 72 days. Large 8 in/20 cm, 14-16 row bicolor, waist high, ears fill to the tip, covers well. Good flags, tall plants, good cold soil emergence. Excellent taste.

**G114U SC 1102** 74 days. Second early bicolor synergistic. Ears average 7.5-8 in/19-20 cm, 16-18 rows. Good soil vigor, works better on heavier soils. Better taste than Temptation. Waist high ears are easy to pick. Good husk cover and tip fill.

**G120S ALLURE** 75 days. Excellent eating quality. Produces a refined 8 in/20 cm ear with excellent tip fill plus great husk cover, excellent flag leaves and dark green husks. Resistant to Common Rust and SW.

**G116F BI-SWEET S-5** 76 days. Very sweet, tender bicolor 8x2 in/20x5 cm large ears with 16 rows have excellent tip fill and husk cover. Dark green husks, medium flags. For fresh market sales. Good taste. Exclusive.

**G116U UTOPIA** 77 days. Extra large 8.5 in/22 cm bicolor with small high sugar kernels, 18-20 rows. Blunt tip ears have good dark green cover.

**G115Q NECTAR** 78 days. QuadSweet. Large 8 in/20 cm bicolor with good husk protection, tip fill and a sweet flavor with creamy texture. Sturdy plant. Resistant to NCLB.

**G115K MONTAUK** 78 days. Main season bicolor synergistic with large 8.25 in/21 cm ears, 16-18 rows. Outstanding high sugar taste. Dark green husks good husk cover. Tapered ears fill to tip. Tall 6.5 ft/2m plants.

**G120T ESSENCE** 79 days. One of our best eating synergistics. Refined very tender bicolor ears average 8.5x2 in/21.5x5 cm in size, 14-16 rows fill to the tip with good tip cover, nice flags and strong tall plants.

**G115L KRISTINE** 80 days. Single stalk 6 ft/2 m plant has large cylindrical 8.5 in/21.5 cm husks. 16-18 rows of fill to the tip. Good husk cover.

**G120P PROVIDENCE** 80 days. TripleSweet synergistic bicolor. Large 8 in/20 cm ears, 14-18 rows of bicolor kernels, medium green husks with high sugar taste.

**G116V PRIMUS** 81 days. Triple Sweet Plus. Synergistic bicolor with 44% sh2 plus 56% Se kernels. Slim ears average 8 in/20 cm in length, with 14-16 rows. Light green husks provide good cover. Superior eating quality. Resistance to SCLB and Common Rust: Rp1-G and Stewarts Wilt. For fresh market use.

NEW	SYNERGYSTIC CORN		COLOR	250 seeds	1,000 seeds	10 M per M	30 M per M	100 M per M	500 M per M	DISEASE TOLERANCES			
	(M = 1,000 seeds)									SW	RUST	NCLB	SCLB
	G114U	SC1102	Bicolor	9.10	18.48	10.50	9.21	8.51	7.93	MT	MS	MT	MT
	G115K	Montauk	Bicolor	10.85	22.08	12.55	11.01	10.16	9.35	MS	M	MS	-
	G115L	Kristine	Bicolor	8.15	16.59	9.43	8.27	7.64	7.32	MT	MT	MT	-
	G115N	Sweetness	Bicolor	8.05	16.34	9.28	8.14	7.52	7.21	-	-	-	-
	G115P	Temptress	Bicolor	8.40	17.03	9.68	8.49	7.84	7.52	-	MT	MT	-
✓	G115Q	Nectar	Bicolor	9.20	18.67	10.61	9.31	8.59	8.24	-	-	MT	-
	G115S	Profit	Bicolor	7.70	15.68	8.91	7.81	7.22	6.92	MT	MT	MT	-
	G116F	Bi-Sweet S-5	Bicolor	6.55	13.29	7.55	6.63	6.12	6.03	MT	MT	-	-
	G116H	Avalon	White	7.70	15.59	8.86	7.77	7.18	6.88	MT	S	MT	-
	G116R	Mattapoisett	White	10.60	21.55	12.24	10.74	9.92	9.13	MT	MT	MT	MT
	G116S	Inferno	Yellow	7.55	15.31	8.70	7.63	7.05	6.76	-	-	-	-
	G116T	Illusion	White	8.10	16.47	9.36	8.21	7.58	7.27	MT	MT	MT	MT
	G116U	Utopia	Bicolor	8.35	17.01	9.67	8.48	7.83	7.51	-	-	-	-
	G116V	Primus	Bicolor	10.15	20.60	11.71	10.27	9.48	8.28	MT	MT	MS	T
	G116Y	Café	Yellow	N/A	N/A	10.58	9.28	8.57	8.21	-	-	-	-
	G117E	Tenderfoot	Bicolor	8.45	17.20	9.77	8.57	7.92	7.59	MT	MT	-	-
	G120N	Latte	Bicolor	9.35	18.96	10.78	9.45	8.73	8.37	-	-	-	-
	G120P	Providence	Bicolor	7.65	15.58	8.85	7.76	7.17	6.53	MS	T	M	MT
	G120S	Allure	Bicolor	8.55	17.39	9.88	8.67	8.00	7.67	MT	MT	MT	MT
	G120T	Essence	Bicolor	8.55	17.39	9.88	8.67	8.00	7.67	MT	MT	MT	-





Trinity



Navajo



Colorow TSW®

## HYBRID SWEET CORN - SUGARY ENHANCED se/SE YELLOWS & BICOLORS

Sugary Enhanced is divided into two classes - regular se (heterozygous) and the new modified endosperm SE (homozygous). Both these types have some advantages and disadvantages when compared to Super Sweets (Sh2 types) and the Normals (su, su+ and su++). Sugar Enhanced types have very tender kernels. This makes them easier to chew for the consumer but too tender for mechanical harvesting or long distance shipping. Some SE and se types adapt poorly to stress. Use should be limited to roadside stands, U-pick, local markets or short shipping distances. Chief advantages over Super Sweet - better early seed vigor (not as good as normals) cheaper seed cost and less isolation. Although taste is much sweeter than Normals, Sugar Enhanced types should be

sown 7 to 10 days later than extra early Normals (sow se types May 12th and SE types May 17th). Cobs mature 18-20 days from .5 silk. Several sowings should be made to avoid stress periods during silking. Isolation is not really necessary (like Super Sweets) but we find taste improves slightly with isolation. SOIL type is important. Heat units are higher in sandy gravel than sand. Cold soils like clay loam will delay germs. 12-14 days. Seeds germinate at 62°F/17°C, seed count averages 2,000-3,400 seeds per lb/454 gr. SEEDING RATE: Approx. 20M seeds per acre (18 m live plants per acre), higher rates cause more suckers and smaller ears especially with the large cob types. WIND DAMAGE: Large ear and double ear types can also become top heavy in sandy soils at maturity.

If you are growing in a windy area - hill plants up, when they are 12 in/30 cm high to provide a more solid root system and surround these types with large blocks of earlier varieties, which will help to provide a wind break for later maturing large ear types. SEED DEPTH: Most growers sow at an average depth of .75 in/19 mm using large flats in normal soil temps. At seed counts over 3,500 seeds per lb. a shallower depth is recommended. Never sow a group of varieties the same day, at the same depth-if they are different seed sizes. ISOLATION: Keep whites, bicolors and yellows 30 ft/9.2 m apart to prevent cross pollination. "G" prefixed seed will have Cruiser™ or Poncho® treatment to help control Stewart's Wilt. Contains the class ingredient neonicotinoids.

### EARLY se/SE YELLOWS

**G107R COLOROW TSW®** 67/74 days. An improved version of King Arthur with an extra high sugar taste, a uniform 74 in/1.9 m clean plant and 13 in/33 cm ear height. Large 8.5 in/21.5 cm ear, 16-18 rows of golden kernels. **SE**

### EARLY BICOLORS

**G114B TRINITY** 59/66 days. Large, early 8 in/20 cm ears, 14 rows, with good tip cover and ears are filled to the tip. Good cold soil vigor, 72 in/1.8 m plants, 18 in/46 cm ear height. Great taste. Some Stewart's Wilt tolerance. Use above 41st parallel. **SE**

**G114V FASTLANE** 61/67 days. Cylindrical 8.5 in/21.5 cm ears have blunt, well filled tips, 14-16 rows, good husk cover and great taste. Good cold soil vigor. Use above 41st parallel (Cleveland, Ohio). **SE**

**G114T BON JOUR TSW®** 64/70 days. Short 7.75 in/19.5 cm ear with 14-16 rows. Excellent taste. 20 in/50 cm husk height, good tip cover. NCLB resistance. Use above 41st parallel (Cleveland, Ohio) **SE**

**DISEASE TOLERANCE LEGEND:** The ratings below are based on Dr. Pataky's disease screening trials at the University of Illinois, 0-1 is T= Tolerant; 4-6 is M=Moderate; 7-8 is Moderately Susceptible=MS; 9-10 is S=Susceptible

### MAIN SEASON BICOLORS

**112R NAVAJO** 67 days. Large 8 in/20 cm SE bicolor with 16 rows, blunt tips, good tip cover, outstanding taste and tenderness. For mechanical harvest. Mild resistance to SW and Rust. Widely adapted. Exclusive.

**G113Q TEMPTATION** 68 days. Widely adapted. Good cold soil performance for early planting. Excellent tasting 8 in/20 cm ears, 16 rows, with waist high cobs for easy hand harvests. Some resistance to Smut. **SE**

**G118K LUSCIOUS TSW®** 73 days. Extra large cylindrical blunt 8.5-8.75 in/22-23 cm, 16-18 row ears. Easy to pick, waist high ears have good tip fill and cover. Great taste, very tender! **SE**

**113W DELECTABLE** 82 days. Popular extra large 9 in/23 cm ear with 16-18 rows. Plants set large single cobs waist high, for mechanical harvesting. Dark green husks provide fair cover and flags. **SE**



Fastlane

### STOKES SWEET CORN BREEDERS HALL OF FAME



Dr. Ernie Kerr Stokes



Charlie Thompson IFSI



Pat Mosely HM Clause



Stokes Corn Trials

NEW	HYBRID SWEET CORN SE		250 seeds	1,000 seeds	10 M per M	30 M per M	100 M per M	500 M per M	1,000 M per M	DISEASE TOLERANCES			
	(M = 1,000 seeds)									SW	RUST	NCLB	SCLB
	G107R	Colorow TSW®	4.65	9.27	5.72	5.41	4.76	4.64	4.13	M	M	M	MT

NEW	SWEET CORN SE		250 seeds	1,000 seeds	10 M per M	30 M per M	100 M per M	500 M per M	1,000 M per M	DISEASE TOLERANCES			
	(M = 1,000 seeds)									SW	RUST	NCLB	SCLB
	112R	Navajo	6.65	13.26	8.18	7.74	6.81	6.63	6.63	MS	MS	MT	-
	G112R	Navajo	N/A	N/A	8.53	8.07	7.10	6.92	6.92	MS	MS	MT	-
	G113Q	Temptation	N/A	N/A	8.75	7.68	7.09	6.61	6.61	MS	S	MS	S
	G114T	Bon Jour TSW	7.25	15.21	8.65	7.58	7.00	6.44	6.44	MS	MS	T	-
	G114V	Fastlane	N/A	16.11	9.93	9.40	8.27	7.16	7.16	MS	MT	MS	-
	G118K	Luscious TSW	5.15	10.32	6.36	6.02	5.30	4.59	4.59	MS	MS	MT	M

NEW	SWEET CORN se/SE Bicolors		2 oz 57 g	½ lb 227 g	1 lb 454 g	5 lb@ per lb	25 lb@ per lb	50 lb@ per lb	100 lb@ per lb	500 lb@ per lb	1,000 lb@ per lb	DISEASE TOLERANCES			
												SW	RUST	NCLB	SCLB
	113W	Delectable	N/A	13.70	17.60	15.75	14.34	13.99	13.72	13.02	12.58	M	MT	M	MT
	G114B	Trinity	7.40	14.15	18.20	16.30	14.84	14.47	14.20	13.47	13.02	MT	MT	MT	MS



Earth Tones Dent



Gorgeous Indian



Fiesta



Cutie Pops



Firecracker

## ORNAMENTAL CORN

**CULTURE:** Isolate these varieties from all other sweet corn to prevent cross pollination. The first three large types below are treated.

**396B FIESTA** 92 days. Matures 8-10 days earlier than most strains of Calico Indian corn. Ears average 8.5 in/21 cm in length with 50% purple husks. Shorter plants have some wind tolerance. Multicolored ears.

**396A INDIAN ORNAMENTAL BLEND** 105 days. Nice 8-10 in/20-25 cm ears are 2 in/5 cm thick with a full range of glossy colors, 15-20% purple husks, strong plants.

**396H GORGEOUS INDIAN** 107 days. F1 hybrid. Extra long 9 in/23 cm ears with glossy flint kernels that are breathtakingly beautiful in color. Sturdy plants are wind tolerant and produce very high yields of large uniform ears.

**1707B FIELD OF DREAMS** 60-72 in/152-182 cm Novelty bicolor corn foliage with wide, medium green and white stripes, with a slight pink edging. Plants should stay short at 36-48 in/91-121 cm in large containers. A mix of 6 in/15 cm deep burgundy, yellow and blue cobs. Crop time 5-7 weeks. Untreated Seed. Pkt. (10 seeds) \$5.75; 100 seeds \$26.10; 250 seeds \$60.20; 1,000 seeds & over \$184.68 per M.



Painted Mountain

## FLOUR CORN

**392G PAINTED MOUNTAIN** 85 days. A Native Indian decorative flour corn. Bred for short season, cold soil areas. Ears average 7 in/18 cm, multicolored kernels contain soft starch which produces corn flour and hominy. Very hardy, beautiful colors. Untreated Seed.

## MINIATURE ORNAMENTAL CORN

**CULTURE:** Sow mini corn in double rows at 40,000 seeds per acre.

**396D FIRECRACKER** 95 days. Multicolored miniature popcorn 5 in/13 cm in length. Used for ornamental and popping purposes. Stalks are 7.5 ft/2.3 m tall and are harvested for their red color accent.

**396R RED HUSK SPECTRUM MIX** Miniature 4.5/11 cm slim popcorn - bicolor, tricolor and single colored cobs with both red and bleached white husks when dried. Untreated Seed.

**392B CUTIE POPS** 100 days. Multicolored miniature popcorn. Use as a baby 4 in/10 cm Indian corn for dried bouquets or harvest tiny rainbow colored seeds for miniature popcorn. Untreated Seed.

## SINGLE COLOR

**392N SHADES OF BLUE** 105 days. Blend of sky blue and violet blue kernels, 4 in/10 cm long. Plant in blocks of 4 rows or more. Untreated Seed.

## DENT CORN

**396C EARTH TONES DENT** 85 days. An earlier blend of pastel shades of brown, gold, mauve, pink, green and blue dent/field corn. Large 9 in/23 cm ears, kernels are not shiny. For decorations, grind into flour or use for bird feed. Untreated Seed.

## BROOM CORN

**CULTURE:** Sow in May to mature Sept. 1,430 seeds per oz/28 g.

**391B BROOM CORN MIXED COLORS** 105 days. A blend of deep brown, rust, copper and wheat foliage colors which can be used to make pioneer brooms or rustic wreaths.

## HYBRID POPCORN

**CULTURE:** The kids will take a special interest in the garden the day you plant popcorn seed! Sow May 20th 0.5 in/13 mm deep in hills of 3-4 per group, 2 ft/60 cm apart in rows 2.5 ft/76 cm apart. Minimum soil temperature for proper germination and culture is the same as sweet corn. **HARVEST** in late Aug. or Sept. when small plump ears are about 5 in/13 cm long. Let the cobs dry (unhusked) in the basement for about a week, then remove the husks and strip the dried kernels from the cob. At this stage they are ready to pop. Popcorn seed is untreated.

**392K ROBUST 98114W HYBRID** 108 days. Plants are slightly taller, higher yielding and have larger 7.75 in/19 cm ears. Kernels are deeper, pure white and have excellent eating quality. Kernel count averages 77 per 10 gr. and a 45MWVT popping volume. Isolate from sweet corn. 250 seeds \$2.85; 1,000 seeds \$5.83; 10,000 seeds @ \$3.31 per M; 30,000 seeds @ \$3.02 per M; 100,000 seeds @ \$2.89 per M.

**392J ROBUST 128-YH HYBRID** 110 days. Our best yielding hullless yellow hybrid popcorn for short season areas. Tall plants are well-rooted and healthy at harvest, extra 7.5 in/19 cm length and double ears with about 67 kernels per 10 gr. and a 45 MWVT popping volume. Isolate from sweet corn. 250 seeds \$2.40; 1,000 seeds \$4.91; 10,000 seeds @ \$2.79 per M; 30,000 seeds @ \$2.54 per M; 100,000 seeds @ \$2.43 per M.

## STRAWBERRY POPCORN

**392Q CHERRY BERRY** 98 days. Larger, longer ears than the original. Husk colors are a blend of beige, burgundy and red. Stalks average 5-6 ft/1.5-2 m in height and have upright attractive red streaked leaves. Yields are fantastic, providing a good pack out. Plant in blocks of 4 rows for good pollination in late spring. Fertilize well.



Shades of Blue



Cherry Berry



Field of Dreams

NEW	POPCORN AND ORNAMENTALS	# seeds per pkt	Pkt	2 oz						
				57 g	1/2 lb 227 g	1 lb 454 g	5 lb @ per lb	25 lb @ per lb	50 lb @ per lb	100 lb @ per lb
	391B Broom Corn	100	2.55	8.95	17.10	22.00	19.70	17.93	17.49	17.16
	392B Cutie Pops	25	2.45	6.90	13.20	17.00	15.20	13.86	13.52	13.26
	392G Painted Mountain	25	2.45	10.55	20.20	26.00	23.25	21.19	20.67	20.28
	392N Shades Of Blue	25	2.45	7.60	14.55	18.70	16.75	15.24	14.87	14.59
	392Q Cherry Berry	25	2.45	11.35	21.70	27.90	24.95	22.74	22.18	21.76
	396A Indian Ornamental Blend		N/A	2.65	5.05	6.50	5.80	5.30	5.17	5.07
	396B Fiesta		N/A	5.00	9.60	12.35	11.05	10.06	9.81	9.63
	396C Earth Tones Dent	25	2.45	6.75	13.20	17.00	15.20	13.86	13.52	13.26
	396D Firecracker		N/A	7.20	13.80	17.75	15.90	14.46		13.84
	396H Gorgeous Indian Hybrid	25	2.45	7.10	13.60	17.50	15.65	14.26	13.91	13.65
	396R Red Husk Spectrum Mix	25	2.45	7.60	14.55	18.70	16.75	15.24	14.87	14.59



Cross Country



Eureka



Supremo



Gherking



Zapata

## HYBRID CUCUMBER - PICKLING VARIETIES

Most pickle factories use white spined types that stay green/white in the mature stage and are darker green in the gherkin stage. Black spined types like Pioneer and the open pollinated types turn yellow as they mature and are still used for fresh market. CULTURE: Seed size varies 15M-26M seeds per lb. HAND HARVEST: Space rows 4-5 ft apart, plant in hills of 2 to 4 seeds per hill and space 8 in/20 cm apart for high density yields (or hills 2 ft/61 cm apart for regular sowings). MACHINE HARVEST: Sow on raised beds at 3 rows per bed, 24 in/61 cm apart, and 2 in/5 cm apart in the rows. Higher fertilizer rates must be used for dense sowings to reduce misshapen fruit. SOW indoors in peat pots in short season areas May 1st. DIRECT SEED outdoors into warm soil June 10th-July 15th in northeast. Use 2.5-5 lbs/1-2 kilos per acre. Smaller growers can use wider spacing (2 ft/61 cm apart) at 4 seeds per hill. 1 oz/28 g per 100 ft/31 m of row. TOTAL HYBRIDS: As monoecious F1 hybrids with multi disease tolerances are developed, our suppliers are starting to use monoecious hybrids as a source of male pollen (instead of O/P varieties) for their gynoecious all female hybrids. This provides increased yields and wider disease tolerances plus a more uniform grade of pickles. "F" prefixed seed contains the class ingredient neonicotinoids.

### EARLY VINE TYPES

**F146Q SUPREMO** 45 days. Plant is very vigorous and may be grown on short stakes or as a row crop type with more space between plants. Dark green blocky fruit have a shape similar to Zapata with a L/D ratio of 3:1, thick skin and a small seed cavity. Size averages 3-4 in/8-10 cm in length. Resistant to ALS, PM, DM, ZYMV, PRSV, CMV, ANTH and SCAB. Monoecious.

**145B CROSS COUNTRY** 51 days. Semi-bush type allows denser plantings resulting in much higher yields than standard types. Some growers report 250-325 bushels per acre. L/D ratio provides 3.0 to 3.2 extra long fruit with outstanding dark green color which carries through the fruit from end to end. Interior quality is exceptionally high in Northeastern regions. Resistant to SCAB, ANTH, CMV, ALS, PM and DM. Hand or machine harvest. Gynoecious.

**F146M CITADEL** 52 days. A dark green gynoecious type with an industry leading disease package that includes resistance to Downey Mildew. Its fruit set is concentrated and medium plant type, well suited for machine harvest operations. L/D ratio 3.1.

**F146G FANCIPAK** 53 days. One of the Northeastern areas' most popular hand harvested main season pickles. Outstanding uniformity, beautiful medium dark, blocky fruit with a 3:4 ratio. Medium-large plant with dense foliage. Resistant to CMV, ANTH, ALS, DM, PM and Scab. Gynoecious.

**141S SASSY** 53 days. Uniform cylindrical, dark green fruit with extra length - L/D ratio 3.0 to 3.1. Fruit are slightly tapered and have excellent interiors. High yielding plants. Good resistances to CMV, ALS, ANTH and SCAB. Moderate resistances to PM and DM. Gynoecious.

### BLACK SPINE PICKLES

Pioneer is our only black spine hybrid pickle. Fruit will turn from green to golden yellow as it over matures.

**141 PIONEER** 51 days. F1 Hybrid. More uniform. Bears heavy yields of pickles on medium-sized vines. Widely adapted, it has a high resistance to SCAB, CMV, DM, and some resistance to PM, ANTH and ALS. Gynoecious.

### EARLY BUSH TYPE

**141G BUSH PICKLE** 45 days. Best bush type for container cultures, confined growing areas or miniature gardens. Plant averages 2.5 ft/76 cm across, half the size of the standard vining types. Medium green, white spined fruit average 4-5 in/10-12 cm in length, 2:9 L/D ratio, slightly tapered shape, resistant to Scab and CMV.

**F141M JACKSON SUPREME** 52 days. Early compact bush plant habit of 20 in/51 cm produces two dark green blocky fruit at each node with an L/D ratio of 2.90 to 3.0 with a better male pollinator than the Classic version. Resistant to CMV, DM, Scab and some ANTH, ALS, PM. Gynoecious X Monoecious hybrid.

### MAIN SEASON VARIETIES

**F147K ZAPATA** 56 days. Cylindrical dark green fruit with an LD ratio of 3.0 to 3.1 and excellent uniformity. Resistant to CMV, ANTH, ALS, PM, DM, WMV2, ZYMV, PRSV and SCAB. Monoecious hybrid.

**F146C EUREKA** 56 days. Monoecious, multivirus tolerant hybrid. Very dark green, white spine, late pickle with L/D ratio of 3:1.5. Fruit have small seed cavity and strong indeterminate plants. Resistant to CMV; ALS; DM; PM; ANTH; WMV2; PRSV; ZYMV and SCAB. For untreated seed, order **UT146C**.

### PARTHENOCARPIC PICKLES

Parthenocarpic pickles provide some very distinct advantages to pickle growers – they produce mature pickles without seeds and do not require pollination from bees or insects in the field and do not need pollination from male flowers on the same or neighbouring plants. They will also set pickles during poor weather. Regular pickles will not set during hot, cool or rainy periods when extreme temperatures destroy regular pollen or bees are prevented from flying. Parthenocarpic pickles will hold longer on the vine before they get too large, which allows for larger once over harvests rather than multi harvests during the week. Growers can expect to harvest these new types for a period of 6-8 weeks, which should provide higher total yields per acre than regular types. These types must be isolated from other normal pickles or slicers which produce their own male pollen and cause damaging cross-pollination. Until recently, most parthenocarpic types did not look like North American pickles – they had much smoother skin. NOTE: The varieties listed below have two advantages over previous parthenocarpic types. (a) It does not become rough and ugly during extreme heat and (b) It resembles North American types with a more similar exterior skin during harvest period.

**UT141Q GHERKING** 50 days. F1 hybrid. Parthenocarpic, plants produce fruit without insect pollination. Early, large yields of bitter-free fruit even if left on the vine. Produces well in both garden and production, best results when trellised. Perfect for pickling or fresh eating. Isolate. Untreated seed.

**F141P PUCCINI** 53 days. Parthenocarpic type hybrid with North American spines and appearance. Medium length vines. Excellent fruit quality for salt fermentation. Uniform L/D ratio of 3.0 to 1. Suitable skin texture for mechanical harvesting and shipping. Good extreme heat tolerance. Resistant to ANTH and SCAB with intermediate resistance to ALS and CMV. MUST be isolated from other regular cucumbers or pickles. White spine.

NEW	HYBRID PICKLING CUCUMBERS (M = 1,000 seeds)		# seeds per pkt	Pkt	500 seeds	1,000 seeds	15 M per M	60 M per M	90 M per M		
	F141M	Jackson Supreme	50	3.25	13.85	19.05	10.91	10.07	8.54		
	F141P	Puccini	50	3.75	29.05	39.95	22.87	21.12	19.91		
	141S	Sassy	50	2.75	8.25	11.32	6.48	5.98	5.08		
	145B	Cross Country	50	2.75	7.55	10.40	5.95	5.50	4.67		
	F146C	Eureka	50	3.50	17.50	24.04	13.76	12.71	10.94		
	F146G	Fancipak	50	2.75	6.65	9.14	5.23	4.83	4.16		
	F146M	Citadel	50	2.75	10.45	14.40	8.24	7.61	7.17		
	F146Q	Supremo	30	4.50	22.25	30.62	17.53	16.19	15.26		
	F147K	Zapata	30	3.25	11.00	17.42	13.11	12.10	10.28		
	UT141Q	Gherking	30	5.75	16.60	51.95	50.22	45.31	42.71		
	HYBRID PICKLING CUCUMBERS		# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	½ lb 227 g	lb 454 g	5 lb @ per lb		
	141	Pioneer	50	2.75	3.55	10.25	13.60	26.70	25.10		
NEW	Pickling CUCUMBER		# seeds per pkt	Pkt	¼ oz 7 g	½ oz 14 g	oz 28 g	¼ lb 113 g	½ lb 227 g	lb 454 g	5 lb® per lb.
	141G	Bush Pickle	100	4.50			10.25	32.00	83.50	78.50	



Marketmore 76



Patio Snacker



Tasty Green



Perseus

## HYBRID & OPEN POLLINATED SLICING CUCUMBERS

Popular open pollinated slicing cucumber with farmers is Marketmore 76, a non bitter or burpless slicer. It was developed by our friend Dr. Munger at Cornell University.

**CULTURE:** 1.5-2 lbs/1 kg per acre or 1 oz/28 g per 100 hills at 8 seeds per hill. Sow indoors May 1st, .5 in/1.3 cm deep in Jiffy Strips, 3 seeds per pot. Transplant after June 10th. Sow outdoors 2 weeks after your last frost. Thin hills to 4 plants when 6-8 in/15-20 cm high. Space rows 4-5 ft/1.2-1.5 m apart. Minimum soil temp. of 65-70°F/18 -21°C for proper germination. Seed will not germinate in cold ground. Many commercial slicer cucumber growers now use raised beds and plastic mulch to improve yields. **"F" prefixed seed contains the class ingredient neonicotinoids.**

### OPEN POLLINATED SLICER

**137C MARKETMORE 76** 58 days. A multi-disease tolerant version of Marketmore 70. This variety was developed by Cornell University and includes resistance to Scab, Cucumber Mosaic, Powdery and Downy Mildew. Breeders have included the uniform dark green color gene to provide a high percentage of dark green fruit which reduces "yellow bellies" at harvest time. 9 in/23 cm long. Our most popular O/P commercial variety. For untreated seed, order **UT137C**.

### EXTRA LONG EUROPEAN TYPE

**CULTURE:** This one you can grow indoors or outdoors with some sort of trellis (like grapes). It has both male and female blooms, so you need to remove all male blooms to prevent double pollination by insects or bees outdoors. Sow indoors in pots May 1st. Transplant outdoors after June 10th, in the northeast. Train plants to a snow fence or a trellis using well anchored rough, heavy brown twine. Limit the main stem to about 10 ft/3 m. Do not let the long fruit touch the ground.

**144A ENGLISH TELEGRAPH** 63 days. An excellent selection from Rollinson's Telegraph, imported from Europe. Fruits average 15-18 in/38-46 cm in length, are slim, straight and symmetrical. A non bitter cucumber, dark green in color. O/P.

### JAPANESE BURPLESS

**145D TASTY GREEN** 58 days. F1 hybrid. Extra early, heavy yielding burpless type that can be grown in the greenhouse (with bees to pollinate) or outdoors. Dark green fruit average 9 in/23 cm long and 1.5 in/3.8 cm wide. Resistant to PM and DM. Monoecious.

### BEIT ALPHA BURPLESS TYPE

**146P PERSEUS** 50 days. F1 hybrid. Similar in shape to regular cucumbers but much smaller, shorter and thinner. Dark green fruit with very smooth no-peel skin are very sweet, tender, bitter free (burpless). Average size 6x1 in/16x3 cm - harvest smaller pickle size fruit for maximum sweet taste. Plants are gynoeious, and prefer warm weather. Sow in mid June; harvest in July. Adapted for open field summer production or under row covers or poly tunnels in cooler weather. Resistant to CMV; WMV2; PRSV; ZYMV; PM and DM. Better tasting than regular cucumbers.

### BUSH AND TRAILING HYBRIDS

The unique compact semi-bush plant can be used in large gallon or barrel container sales for homegarden use. The variety has a good disease package. The space-saving dwarf plant produces 8-9 in/20-23 cm slicers - perfect for smaller back yards.

**UT141F PATIO SNACKER** 60 days. F1 hybrid. Regular 8 in/20 cm slicer produces short 3 ft/90 cm vines - excellent size for short trellised containers. Dark green fruit have good flavor, crunchy texture and non bitter skin. Untreated Seed.

**138S SLICE MORE** 62 days. F1 hybrid. Parthenocarpic female crossed with a pollen bearing male. Ideal consistent burpless slicer type with an excellent L/D ratio, dark green color, very straight 8 in/22 cm fruit and exceptional taste. Yields are excellent as a commercial choice, bedding plant use and a popular home garden variety. Great disease resistant package includes Scab, CMV, DM and PM.

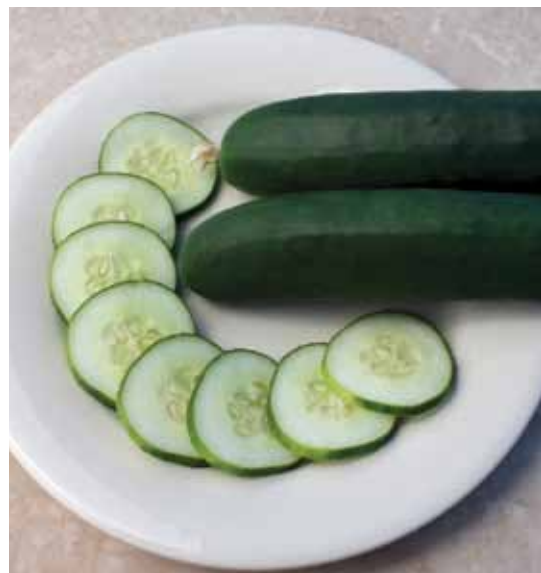
## CUCUMBER DISEASES

**ALS** - Angular Leaf Spot  
**PM** - Powdery Mildew  
**PRSV** - Papaya Ring Spot  
**TLS** - Target Leaf Spot  
**ZYMV** - Zucchini Yellow Mosaic  
**WMV2** - Watermelon Mosaic Virus  
**CMV** - Cucumber Mosaic Virus

**SCAB** - Scab  
**DM** - Downy Mildew  
**SEMP** - Stemphylium  
**ANTH** - Anthracnose

 **4 Easy Easy Ways To Order!**  
 Please see page 1 for Details.

NEW	CUCUMBER	# seeds per pkt	Pkt	¼ oz 7 g	½ oz 14 g	oz 28 g	¼ lb 113 g	½ lb 227 g	lb 454 g	5 lb® per lb.
	137C Marketmore 76	100	2.35			3.50	9.35		24.20	22.05
	144A English Telegraph	100	5.25	17.95		36.90	115.10		300.40	282.40
	HYBRID CUCUMBER (M = 1,000 seeds)	# seeds per pkt	Pkt	250 seeds	1,000 seeds	15 M per M	60 M per M	90 M per M		
	138S Slice More	30	2.35	5.45	14.37	12.48	10.26	9.67		
	UT141F Patio Snacker	30	5.75	19.75	61.78	59.72	53.88	50.79		
	145D Tasty Green	30	3.25	13.20	33.96	28.70	23.59	20.00		
	146P Perseus	30	2.70	5.80	13.56	11.46	9.42	8.88		



Slice More



Intimidator



SV4719CS



Cobra



Darlington



Thunder

## STOKES HYBRID SLICING CUCUMBERS

**CULTURE:** Approx. 1,000 seeds per oz/28 g; 16,000 seeds per lb/454 g. Cucumbers like a long, warm growing season. As plants are quite susceptible to Cucumber Mosaic and various mildews in damp or foggy regions, you should carefully note the disease tolerance of each variety before ordering. Sow seeds in 3 in/8 cm (or larger) peat pots, indoors May 1st in the northeast, about 4 to 5 weeks before your last spring frost. Maintain a soil temperature of 70°F/21°C for proper germination. If pots are covered with plastic during germination period, be careful NOT to place them in full sun, or you will cook the seeds. Transplant outdoors about June 10th to avoid cool nights and blossom drop. **MULCHING:** Weeds can be controlled and crops accelerated with 4 ft/122 cm plastic or straw mulch on raised beds. Space slicers 4-5 ft/122-152 cm apart. Add nitrogen in a nitrate form (NO<sub>3</sub>) to raised bed before adding plastic. Do not use any chemical weed controls or fungicides in soils covered by plastic. **DIRECT SEEDING.** Sow outdoors at 1.5 lbs/680 g seed per acre (approx. 24,000 seeds) 2 weeks after your last spring frost depending on soil temps. Cucumber seed will not sprout in cold soils. Rotate crops each year. **NOTE:** Maturity dates indicate the days to mature plants from two week old transplants. For maximum pollination use one beehive per acre. Gynoecious - all female hybrids with percentage of open pollinated monoecious male pollinators added. Monoecious - contain male and female blooms on the same plant. **DROUGHT:** Dry weather during fruit setting periods will cause shorter fruit. If this happens, remove the short fruit, irrigate if possible and wait for the next set which will be normal size if plants are watered. **"F" prefixed seed contains the class ingredient neonicotinoids.**

**F147B BRISTOL** 53 days. Early slicer. Great fruit quality, shape and dark green color. Excellent potential for a high number of fancy fruit. Intermediate tolerance to DM and PM. High resistances to ZYMV, ALS, ANTH, Scab, CMV. Gynoecious.

**146H INTIMIDATOR** 53 days. Early slicer. Dark green premium quality 7.5-8.5 in/19-22 cm fruit have good diameters, uniform straight shape and a slight taper at both ends. Plants are resistant to CMV, DM, PM, ALS, Anth2 and Scab. Gynoecious.

**F147E SPEEDWAY** 54 days. Dark green, early version of Dasher II. Fruit have uniform all green gene, average 8.5 in/22 cm in length, slightly tapered, medium size plant. Resistant to CMV, DM, PM, ALS, Scab, ANTH and SEMP. Moderately vigorous vines consistently bear high quality cucumbers. Gynoecious.

**146J TALLADEGA** 55 days. High yielding, continuous setting type with very dark green, smooth fruit, no ridging, few spines and very little "yellow belly". 7.5-8.5 in/19-22 cm long fruit are resistant to CMV, PM, WMV2, DM, ALS, ANTH-2 and Scab. Gynoecious.

**147F THUNDER** 55 days. Extra long, 8.5 in/22 cm slim, dark green fruit produce well under stress and have the uniform dark green gene. Resistant to CMV; DM; PM; ANTH; ALS and Scab. Gynoecious.

**147M CUTTER** 55 days. This dark green American slicer is shorter and blockier than Dasher II. High packout potential of premium 7.5-8 in/19-20 cm high quality fruit. Intermediate resistance to CMV, PM, WMV2, ZYMV and PRSV.

**F149A DASHER II** 55 days. Standard, 8.5 in/22 cm very slim, 2.25 in/6 cm in width, dark green fruit. Plants are compact, heavy yielders and carry a resistance to ALS, ANTH, CMV, DM, and Scab. Gynoecious.

**F147A DARLINGTON** 56 days. Maintains optimum 8-8.5 in/20-21 cm length under Northeast conditions. Produces a consistent yield of select, straight fruit with excellent dark green color throughout the harvest season. Provides resistance to ALS; ANTH; WMV2; ZYMV; PM; TLS and Scab. Gynoecious.

**F147Q SV4719CS** 56 days. Uniform dark green hybrid gynoecious slicer averages 8x2.25 in/20x6 cm cylindrical blocky fruit. Moderately vigorous plants are highly resistant to ZYMV, ALS, ANTH, SCAB and intermediate resistances to DM and PM.

**147L STONEWALL** 55 days. Top performer for highest number of No. 1 fruit, shape, size, fruit quality and storage ability. Very straight dark green 8.5 in/22 cm fruit, high yields. Resistant to CMV, PM, DM, ALS and ANTH. Gynoecious. For untreated seed, order **UT147L**. Patented Variety.

### LATE GYNOECIOUS HYBRID

**F146D COBRA** 60 days. Extra long 9x2.5 in/23x6 cm, straight, cylindrical dark green fruit hold their length when other varieties begin to shorten during dry weather. Vigorous vines, excellent for both plastic and open ground cultures. Multi-virus resistances to CMV, PM, PRSV, ALS, ANTH, WMV2, ZYMV, and Scab. Gynoecious.

**F146L DIOMEDE** 60 days. A new gynoecious, multi disease tolerant American slicer that can be grown in open tunnels, on trellises for extended harvests or outdoors in beds. Plants are vigorous, fruit are extra long and slender - 8-9 in/20-23 cm in length, very straight and are very dark green in color. Plants have multi-resistances to PM, DM, ANTH, CMV, PRSV, WMV, ZYMV, ALS and SCAB. Gynoecious.



Diomedee

NEW	HYBRID CUCUMBER (M = 1,000 seeds)	# seeds per pkt	Pkt	250 seeds	1,000 seeds	15 M per M	60 M per M	90 M per M
	F146D Cobra	30	3.95	11.30	29.24	22.00	20.32	19.15
	146H Intimidator	50	2.65	7.50	19.26	14.48	13.38	11.17
	F146H Intimidator		N/A	N/A	N/A	14.48	13.38	11.17
	146J Talladega	50	2.85	7.25	18.70	13.40	12.40	11.18
	F146J Talladega	50	2.85	7.25	18.70	13.40	12.40	11.18
	F146L Diomedee	30	2.95	12.65	42.63	24.40	22.54	18.17
	F147A Darlington	30	3.75	12.20	31.32	23.56	21.76	18.73
	F147B Bristol	50	3.95	8.15	20.97	15.77	14.57	12.54
	F147E Speedway	50	2.95	5.90	15.17	11.41	10.54	9.07
	147F Thunder	50	2.45	6.40	16.49	12.40	11.45	9.86
	F147F Thunder		N/A	N/A	N/A	12.40	11.45	9.86
	147L Stonewall	50	2.75	7.05	18.10	13.62	12.58	10.88
	147M Cutter	50	2.75	10.65	23.01	16.90	16.25	15.90
	F147Q SV4719CS	50	3.95	7.55	19.42	14.60	13.49	11.61
	F149A Dasher II	50	2.75	5.70	14.67	11.03	10.19	8.77



Basil Plenty



Lemon Balm



Martina Genovese Basil



Chamomile



Coriander Leisure



Chervil



Arugula Astro



Borage



Dill Diana



Garlic Chives

## STOKES HERBS AND GREENS

**155 ANISE** *Pimpinella anisum*. 75 days. Annual. Use leaves in salads, seeds in cakes/bread. Grows 1.5 ft/46 cm. Smells very sweet. 7,000 seeds per oz/28 g.

**164F ARUGULA ASTRO** Strap Leaf Strain. Hardy Annual. 31-52 days depending on use (*Eruca vesicaria sativa*). Harvest and bunch mature 12 in/30 cm strap shaped leaves and small 1 in/2.5cm flowers to add peppery flavor to salads. 22,000 seeds per oz/28 g.

**164D ARUGULA ROQUETTE** *E.vesicaria*. Approx. 40 days. Hardy Annual. Dark green wide tongue shaped leaves are used in salads and have strong spicy taste. Sown in late August, plants over winter for spring harvest. 15,000 seeds per oz/28 g.

**164H ARUGULA SELVATICA** *E. selvatica*. 40 days. Annual. Wild type with dark serrated leaves. Shelf life after harvest is very long. Pungent flavor. Favorite of both chefs and growers. Grow like Roquette. 90,000 seeds per oz/28 g. Pkt (500 seeds) \$2.50; 10,000 seeds @ \$0.60 per M; 50,000 seeds @ \$0.51 per M; 100,000 seeds @ \$0.45 per M; 1,000,000 seeds @ \$0.42 per M.

**160A CHERVIL** *Anthriscus cerefolium*. 80 days. Annual. Parsley-like flavor for soups. 15,000 seeds per oz/28 g. Foliage is aromatic.

**914 BEE BALM** *Monarda Panorama Mix*. Perennial. Fragrant red, pink, and salmon flowers have mint smell and attract humming birds and butterflies. Blooms July/Aug. Sow indoors Feb. 15th or outdoors in spring or fall. 56,000 seeds per oz/28 g. Pkt (25 seeds) \$2.50; 250 seeds \$9.50; 1,000 seeds & over \$16.23 per M.

**164A LEMON BALM** *Melissa officinalis*. Perennial. Maintains dwarf 12 in/30 cm habit indoors in pots, will grow 24 in/60 cm outdoors. Heart shaped leaves, with a lemon fragrance. Attracts bees. Tea made from dry leaves calms nerves.

**165 BORAGE** *Borago officinalis*. 80 days. Edible blue and pink cucumber tasting flowers for salads or lemonade flavor. 20 in/51 cm plant. Attracts bees.

**156 CARAWAY** *Carum carvi*. 70 days. Biennial. Roots are eaten as a vegetable, leaves and shoots in salads, seeds for seasoning. 20 in/51 cm plant. Best sown in late summer to yield fresh seed next season. 12,000 seeds per oz/28 g.

**155B CATNIP** *N. cataria*. 75 days. Perennial. A vigorous mint. Used for cat toys. Germinates 7-10 days. Restrict light until seeds sprout. Plants mature 2 ft/60 cm. 48,000 seeds per oz/28 g.

**155G CATNIP PINK CAT N.** *nervosa*. Perennial Catnip. Large pink flower spikes on compact mounded plants. Winter hardy, heat tolerant. Novelty for 10 in/25 cm pots. Croptime 14 weeks. Pkt. (25 seeds) \$4.55; 250 seeds \$10.20; 500 seeds \$14.75; 1,000 seeds \$23.37.

**155D CHAMOMILE** *Matricaria chamomilla*. 80 days. Annual. Apple scented German strain. A spreading plant that likes sun. 12 in/30 cm. 270,000 seeds per oz/28 g.

**163B CORIANDER SANTO** *Cilantro*. *Coriandrum sativum*. 45 days. Annual. Standard northeastern, slow bolting, fast growing strain used by large commercial growers. Deep green leaves, 16 in/40 cm plant.

**163F CORIANDER SANTO** Mono Germ *Cilantro*. 45 days. Annual. Same as above, but large seed shells have had hulls removed (2 seeds per hull) to provide seeds.

**163D CORIANDER LEISURE** *Cilantro*. 47 days. Annual. Extra slow bolting strain used during hot weather.

**163R CORIANDER CRUISER** 48 days. Strong tolerance to bolting. Vigorous uniform compact upright plant habit is widely adapted for Summer or Fall field crops or Spring pot plants. Good flavor and aroma. Great for bunching, large dark green leaves. **pvp**

**157 CHIVES** *A. schoenoprasum*. 80 days. Perennial. Small 6 in/15 cm plant, grown in pots or rows. Finely chop tops for flavoring food.

**157N NELLY CHIVES** O/P. Medium, thick dark green shafts are vigorous and upright, strong tolerance to leaf diseases and thrips spot. Used for fresh markets and processing industrial markets due to its long slender leaf presentation and multiple harvest possibilities.

**157B GARLIC CHIVES** *Allium tuberosum*. 85 days. Perennial. Flat bladed, chive-like herb with an assertive garlic flavor. Referred to as "Chinese Chives". Replaces garlic in sauces and salads. Compact 12 in/30 cm plant also provides beautiful, long lasting flowers.

**158 DILL DUKAT** *A. graveolens*. 70 days. Annual. Tetra strain for processing with high yields, larger umbels, taller 30 in/76 cm plant than Bouquet. Use leaves for soups - stalks and seeds for pickles.

**158C DILL BOUQUET** *A. graveolens*. 65 days. Annual. Standard strain developed from Mammoth. Used for bedding plant trade and roadside stands.

**158D DILL DIANA** *A. graveolens*. 70 days. Annual. Very upright, stable selection. Dark green, very leafy compact plants are tolerant to bolting.

**158B DWARF DILL FERNLEAF** *A. graveolens*. 68 days. Annual. 18 in/46 cm. Dwarf, dark green fine leaved, base branching dill for bedding plant growers. 1,000 seeds \$3.50; 10,000 seeds @ \$2.50 per M; 50,000 seeds @ \$2.20 per M.

## BASIL

**163N ELEONORA DM** 65 days. **Partial resistance to Downy Mildew**. Cupped 3 in/7.5 cm serrated leaves, open plant. Spicier flavor than regular pesto basil. Slow bolting, for compact field plants or small pots. **pvp** Pkt. (500 seeds) \$2.75; 10,000 seeds @ \$0.60 per M; 50,000 seeds @ \$0.51 per M.

**159J NUFAR BASIL** *O.basilicum*. F1 hybrid. 80 days. Annual. **Fusarium resistant**. Large slightly savoyed 4 in/10 cm leaves on 24 in/60 cm plants. Sweet scent and flavor. For Pesto. Organically grown seed.

**163L ELIDIA BASIL** *O.basilicum*. 80 days. Annual. **Resistant to Fusarium and bolting**. Suitable for young pots or taller open field production and fresh market sales. Pkt (500 seeds) \$2.75; 10,000 seeds @ \$0.60 per M; 50,000 seeds @ \$0.51 per M; 100,000 seeds @ \$0.45 per M.

**159D GENOVESE BASIL** *O.basilicum*. 88 days. Annual. 2 in/5 cm dark green, savoyed leaves. Uniform, tall 24 in/60 cm plants. Heavy, spicy taste and smell.

**159E CINNAMON BASIL** *O.basilicum*. 80 days. Annual. Violet stems and veins and flower bracts, lavender flowers, small 1 in/2.5 cm green leaves. Tall 28 in/71 cm plants.

**163A LEMON BASIL** *Ocimum basilicum citriodorum*. 80 days. Annual. Small pointed leaves with lemon flavor. 18 in/45 cm compact plant. 16,000 seeds per oz/28 g.

**159B LETTUCE LEAF BASIL** *O.basilicum Crispum*. 85 days. Annual. Large serrated or deeply cut leaves are slightly larger than our regular strain. Licorice flavor and fragrance. 16 in/40 cm. 16,000 seeds per oz/28 g.

**159 SWEET BASIL** *O.basilicum*. 85 days. Large leaf. Annual. 18 in/46 cm plant. 16,000 seeds per oz/28 g. Leaves have a sweet mild taste and smell.

**159F MARSEILLAIS DWARF BASIL** *O.basilicum*. 70 days. Beautiful dwarf, bushy 12 in/30 cm plants with medium size 1.5 in/4 cm plain very aromatic leaves. Hundreds of tasty leaves. Perfect for 10 in/25 cm pots.

**159P PLENTY** *O.basilicum*. 70 days. A spoon shaped Genovese, dark green leaf, 14 in/35 cm - bushy, strong, compact plant with intense aromatic leaves. Use during spring/fall in high tunnels or for open field production. Excellent shelf life. Also use as a 10 in/25 cm plant.

**159K MARTINA GENOVESE BASIL** *O.basilicum*. 70 days. Dwarf 14 in/35 cm bushy Genovese type leaf with very intense aromatic flavor - for 10 in/25 cm pots. Long shelf life. Grow year round in greenhouse.

**700B RED RUBIN BASIL** *O.basilicum*. 80 days. Annual. Plain edged leaves are dark red. (15 in/38 cm).

**159C SPICY GLOBE DWARF BASIL** *Ocimum basilicum* minimum. 70 days. Annual. Popular mini leaf basil for 4 in/10 cm pots. (10 weeks from sowing to sale). Maintains it's compact growth forming tiny 6 in/15 cm mounded plants. Heavy basil flavor.

**159L THAI BASIL** *O.basilicum*. 70 days. Annual. 15 in/38 cm. Strong licorice taste. Small leaves, purple stems, strong clove scent.

**700 PURPLE RUFFLES BASIL** *O.basilicum Crispum*. 80 days. Annual. Bushy 24 in/60 cm dark purple lettuce leaf Basil for containers or salads. 1,000 seeds \$4.10; 10,000 seeds @ \$2.93 per M.



Oregano



Lavender



Mini Mint



Spearmint



Thyme



Antares Fennel



Sage



Lemon Grass



Rosemary



Red Veined Sorrel

**160T ANTARES FENNEL** 68 days. Annual. Uniform, pure white, round bulbs with dark green fern-like foliage, resists tip burn and is slow to bolt. Very sweet licorice/anise flavor. AAS Winner. Pkt. (25 seeds) \$3.25; 1,000 seeds \$14.40; 10,000 seeds & over \$11.47 per M.

**160C CRISTAL FENNEL** *F. vulgare azoricum*. 100 days from seeding. Annual medium erect plant, dark green foliage, round crispy white head (1.5 lb/600 grams). Tolerance to breakage during shipping.

**159R FENUGREEK** *Trigonella foenum - graecum*. 70 days. Common ingredient in curry powder, asian sauces, soups, stews, preserving and imitation maple, butterscotch and caramel flavors. Clover-like plant.

**164B RUE** *Ruta graveolens*. 80 days. Perennial, hardy evergreen. Use fresh or dried. Used as an herbal medicine for sore throats, headaches, joint pains. 24 in/60 cm.

**165L LEMON GRASS** Widely used as a culinary herb, gives off a pleasant lemon scent and mild taste. Easily grown in moisture retentive soils in containers in warm greenhouse conditions or as a houseplant. Not suitable for outdoor cultivation. Pkt. (25 seeds) \$6.25; 100 seeds \$24.55; 250 seeds \$54.50; 1,000 seeds \$136.25.

**165B LAVENDER** *Lavandula officinalis*. 90 days. Perennial. Dwarf Munstead strain 12 in/30 cm bushy plant, lavender blue spikes should be cut just before blooms are fully open. Used as a fresh fragrant cut flower or dried to provide sweetly perfumed sachets.

**158A OREGANO** *O. heracleoticum - Greek Strain*. 90 days. Perennial. Hardy 2.5 ft/76 cm plant. Trim to encourage new growth. Smaller leaf and more pungent flavor than other strains.

**P1899 MINI MINT** Ornamental. An easy economical way to grow an attractive, highly fragrant groundcover or small pot plant. Each multi-seed pellet contains 8-12 seeds, one plug in a 4 in/10 cm pot delivers a nice fast fill. Leaves are non-toxic but do not have a palatable flavor. Multi-pellets. Pkt. (10 pellets) \$3.75; 100 pellets \$13.10; 500 pellets \$29.50; 1,000 pellets & over \$54.60 per M.

**156A ROSEMARY** *R. officinalis*. 85 days. Perennial. Bushy 2 ft/60 cm plant. Use needle-like leaf tips to flavor meats and sauces.

**161 SAGE** *Salvia officinalis*. 75 days. Hardy annual. Bush 18 in/46 cm. Fragrant greyish leaves are used fresh or dried to flavor meats, dressings and sauces.

**164E SORREL** *Rumex acetosa*. 60 days. Perennial. The lemon flavored, 8 in/20 cm, sword shaped leaves are harvested young. Use in soups and sauces. Sow Early Spring. 34,000 seeds per oz/28 g.

**164R RED VEINED SORREL** *Rumex sanguineus L.* Bright green leaves with red veins that are mild and slightly tangy. Harvest young. Sow in early spring outdoors or in greenhouse.

**157A SPEARMINT** *M. spicata*. 80 days. Perennial. This upright 22 in/56 cm plant likes moist peat soils. Plant used for oil; young leaves for jellies and drinks.

**162 SUMMER SAVORY** *S. hortensius*. 60 days. Annual. 12 in/30 cm. Use fragrant leaves fresh or dried.

**160D STEVIA** *Stevia rebaudiana*. Popular sweet herb used as an alternative to sugar. Can be used fresh or dried. Attractive bushy, high yielding plants. Pkt. (25 seeds) \$5.85; 250 seeds \$46.55; 1,000 seeds \$112.21; 10,000 seeds & over \$89.37 per M.

**164 THYME** *T. vulgaris*. 85 days. Perennial dwarf 12 in/30 cm. A honey plant for bees. Aromatic foliage used for flavoring. Used as a ground cover in dry areas.

**164C CREEPING THYME** *Thymus serpyllum*. 80 days. Perennial. Extra dwarf 3-5 in/8-13 cm. Small dark green leaves form dense mats of aromatic foliage, purple flowers. Used in rockeries, pathways, ground cover, or as a spice for cooking. 114,000 seeds per oz/28 g.

NEW	HERBS	# seeds per pkt	Pkt	¼ oz 7 g	½ oz 14 g	oz 28 g	¼ lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb
155	Anise	200	2.50			7.95	22.35	43.40		
164F	Arugula Astro	500	2.50			7.65	16.60	40.50	39.05	31.59
164D	Arugula Roquette	500	2.50			3.30	7.20	17.50	16.85	13.65
164A	Lemon Balm	70	2.50	6.10	7.80	12.45	40.10	120.00		
165	Borage	75	2.50			5.55	16.60	56.55	45.70	36.13
156	Caraway	200	2.50			7.70	20.50	52.80	41.75	
155B	Catnip	80	2.50		3.90	5.65	17.35	50.00	43.30	
155D	Chamomile	600	2.50		6.90	10.50	35.75	121.70	99.55	85.40
160A	Chervil	200	2.50			5.85	11.10	31.70		
157	Chives	300	2.50		9.10	11.90	34.00	97.80	78.45	49.29
157B	Garlic Chives	100	2.50		8.55	11.15	30.25	96.85		
157N	Nelly Chives	300	3.25		19.35	25.25	56.25	109.15		
163D	Coriander Leisure	250	2.15			2.70	5.15	11.65	9.95	8.58
163B	Coriander Santo	250	2.15			4.75	9.05	20.50	17.50	13.56
163F	Coriander Santo	250	2.15			5.45	10.30	23.30	19.90	17.15
163R	Cruiser Cilantro	250	2.15			6.20	11.80	26.70	22.75	19.63
158	Dill Dukat	300	2.15			4.10	10.05	22.20	20.05	17.97
158C	Dill Bouquet	200	2.15			3.65	8.95	19.85	17.90	16.04
158D	Dill Diana	200	2.15			2.75	6.70	14.90	13.45	12.05
160C	Cristal Fennel	100	4.25			28.85	61.10	153.30	135.80	
159R	Fenugreek	100	2.75			4.20	9.10	32.40	26.25	22.87
165B	Lavender	100	2.35	27.65		69.75	278.00			
158A	Oregano	190	3.00	16.40		47.00	132.50	390.00		
156A	Rosemary	150	3.75	36.60		101.95	326.25			
164B	Rue	200	2.70	7.75	11.55	16.90	52.90			
161	Sage	40	2.70		9.95	13.70	40.95	140.45		111.83
164E	Sorrel	300	2.70		4.65	6.30	16.30	55.60		
164R	Red Veined Sorrel	300	4.25		50.75	68.90	177.50	605.50		
157A	Spearmint	250	2.95	37.30	59.65	101.40	332.80	1060.00		
162	Summer Savory	300	2.70		4.45	12.50	35.75	32.80	24.27	
164	Thyme	300	2.70	13.00	20.75	29.65	89.95	249.75		
164C	Creeping Thyme	300	3.20	25.25	38.10	61.60	212.30			
BASIL		# seeds per pkt	Pkt	¼ oz 7 g	½ oz 14 g	oz 28 g	¼ lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb
159E	Cinnamon Basil	100	2.50		4.85	8.45	23.05	63.35		
159D	Genovese Basil	250	2.15			2.35	4.80	17.45	14.20	
163A	Lemon Basil	250	2.50		4.50	7.85	22.20	59.95		
159B	Lettuce Leaf Basil	250	2.15		3.35	5.10	13.90	38.30	37.00	
159J	Nufar YR F1 Basil (Org)	100	2.50	5.90	11.05	16.50	55.55	152.50	129.55	
159	Sweet Basil	250	2.15			3.85	8.30	22.80	20.45	
DWARF BASIL										
159P	Plenty Basil	100	2.50			6.90	19.90	57.45		
159F	Marseillais Basil	100	2.50	19.45		52.10	173.65	601.90		
159K	Martina Genovese Basil	250	2.50		5.50	7.90	31.60	68.60		
700B	Red Rubin Basil	100	2.50	5.70		15.70	52.50	210.00		
159C	Spicy Globe Basil	100	2.50	6.20		15.80	59.95	239.80		
159L	Thai Basil	100	2.50		4.45	7.75	21.10	58.10		

### SIMPLY HERBS™

**P166B TRY BASIL** Each precision multi-pellet contains 8-10 seeds which should solve any germination problems. Plants are short, bushy type basil. Transplant plugs to harvest 28 days.

**P166A OREGANO** Each pellets contains 9-14 seeds to solve any germination problems. Larger plants can grow 24 in/60 cm. Transplant from plugs to harvest 28 days.

Prices of the above two: Pkt. (25 pellets) \$3.25; 250 pellets \$15.40; 1,000 pellets \$35.26; 10,000 pellets @ \$28.08 per M.



USAEGX 995



Classic



Shooting Stars Striped



Patio Baby



Purple Fingers

## EGGPLANT

**CULTURE:** Seed produces about 2,500 plants per oz/28 g; Packets contain various amounts - see price box. Sow seed indoors from March 1st through April 1st, .25 in/6 mm deep and keep very warm. Use lots of bottom heat if possible. Heating cables, mats or heat lamps are great for this purpose. Soil temperature should average 85°F/29°C. Seed germinates in 5-10 days. Grow seedlings at 70-75°F/21-24°C. Transplant into deep cell plastic trays or 3 in/8 cm pots when true leaves are about .375 in/10 mm in diameter. Minimum greenhouse temperature of 65°F/18°C. Reduce moisture to harden-off. Set plants outdoors after danger of cool nights (45°F/7°C) is past, 24 in/60 cm apart, in rows 3 ft/91 cm apart. **Dates to maturity are from transplanting outdoors.** **HARVEST:** For best taste always pick young fruit. Stake Japanese types.

### OVAL & TEARDROP BELLS

**150P NADIA** 70 days. F1 hybrid. Long oval dark glossy purple-black fruit. Very firm 4.5 x 9 in/11 x 23 cm fruit are uniform in shape with excellent shelf life. Plants are vigorous high yielders and hold the fruit off the ground. TMV resistant.

**150X USAEGX 995** 91 days. F1 hybrid. Uniform glossy dark purple-black oval/round fruit with a green calyx which average 4x2 in/10x5cm and can be used outdoors as a field crop or indoors as a greenhouse crop.

**150S SABELLE** 65 days. F1 hybrid. Oval/round Sicilian type. Great color and flavor with good field performance.

**150D NIGHT SHADOW** 75 days. F1 hybrid. Large teardrop black in color with a reduced blossom end scar. Fruit remain very firm at maturity. 9 in/23 cm long.

### DWARF EGGPLANT

**UT152S PATIO BABY** 16 in/41 cm. Dwarf upright bushy plant produces high yields of 3 in/8 cm early teardrop shaped black smooth skin fruit. Transplant into gallon containers. AAS Winner. Untreated seed.

### ITALIAN HALF LONG

**150L CAPPI** 60 days. F1 hybrid. Young half long teardrop shaped fruit mature to a tapered cylindrical shape. Firm, high yields with spineless green calyx.

**150G MEGAL** 60 days. F1 hybrid. Long tapered Italian type with green calyx. Fruit are purple/black, 7-9 in/18-23 cm long, 3 in/8 cm diameter. TMV resistant.

**151G CLASSIC** 68 days. F1 hybrid. Deep purple - glossy black fruit average 8.25 in/21 cm long, 4 in/10 cm wide with green calyx.

**152W WHITE STAR** 55 days. F1 hybrid. Classic teardrop shape. Glossy white 4-5 in/10-13 cm baby fruit are delicious young. Upright plants with good leaf cover.

**152T SHOOTING STARS STRIPED** 57 days. F1 hybrid. Vivid oval/pear shaped purple eggplant with delicate white stripes has good tasting white flesh. Plants are tall, fruit average 3-4 in/8-10 cm long and 2.5 in/6 cm thick at base. Harvest young fruit for best flavor. Green calyx.

**152E ITALIAN PINK BICOLOR** 75 days. Large O/P oval cream/rose 8 in/20 cm fruit mature rose pink.

**151H BLACK BEAUTY** 80 days. Standard egg shaped, dark purple O/P for bedding plant sales.

### LONG SLIM JAPANESE EGGPLANTS

**423A MILLIONAIRE** 55 days. F1 hybrid. Black, 10 in/25 cm tender fruit are 2 in/5 cm wide with a purple calyx.

**150T SHOYA LONG** 60 days. F1 hybrid. Long 10-13 in/25-33 cm purplish-black fruit with a purple calyx. High percentage of first grade, very fine quality fruit. Vigorous, upright plants produce a large quantity of fruit.

**152P PURPLE FINGERS** 65 days. O/P. Miniature slim long purple eggplant with a green calyx. Bitter free white flesh is firm and sweet..

### ESCAROLE AND ENDIVE

**CULTURE:** Pkt sows about 20 ft/6 m of row; oz/28 g sows 100 ft/31 m; 2 lbs/kg per acre. Sow outdoors Apr.15th, 0.25 in/6 mm deep (2 seeds per in/25 mm) in rows 18 in/46 cm apart. Thin to 10-12 in/25-30 cm apart. Sow fall crops June 30th. Tie outer leaves up, to blanch centers.

**P154 FULL HEART BATAVIAN ESCAROLE** 85 days. Escarole strain NR65. Upright, broad, smooth, dark green leaves with less Basal Rot. Creamy yellow centers. Compact 12 in/30 cm plants. 10,000 seeds @ \$2.78 per M; 50,000 seeds @ \$2.38 per M; 100,000 seeds @ \$2.10 per M. Pelleted seed.

**P154A SALAD KING R.S. ENDIVE** 95 days. Long, curled leaves with green mid-ribs. Vigorous. Pkt. (250 seeds) \$3.20; 1,000 seeds @ \$8.58; 10,000 seeds @ \$2.78 per M; 50,000 seeds @ \$2.38 per M; 100,000 seeds @ \$2.10 per M. Pelleted seed.



Escarole Full Heart Batavian



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NEW	EGGPLANT		# seeds per pkt	Pkt	1/2 oz	oz	1/4 lb	1/2 lb	lb	
					14 g	28 g	113 g	227 g	454 g	
	151H	Black Beauty	75	2.70		5.15	10.25	15.85	29.60	
	152E	Italian Pink Bicolor	75	2.70	4.90	8.35	24.30		70.20	
	152P	Purple Fingers	50	3.75	12.00	20.40	59.40		182.60	
	HYBRID EGGPLANT		# seeds per pkt	Pkt	1/4 oz	1/2 oz	oz	1/4 lb	1/2 lb	lb
					7 g	14 g	28 g	113 g	227 g	454 g
	150T	Shoya Long	50	3.95	55.75	94.90	242.80		817.85	
	152W	White Star	50	4.75	32.70	55.70	162.00		468.00	
	423A	Millionaire	50	4.50	55.75	94.90	276.05		767.45	
	152T	Shooting Stars	50	2.75	7.80	13.25	38.55		111.40	
	HYBRID EGGPLANT (M = 1,000 seeds)		# seeds per pkt	Pkt	100 seeds	500 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M
	150D	Night Shadow	50	2.95	17.30	24.16	20.72	15.20	10.81	
	150G	Megal	10	3.75	10.85	27.45	42.61	36.54	26.81	21.87
	150L	Cappi	10	4.25	11.10	29.25	43.61	37.40	27.44	22.38
	150P	Nadia	50	2.95		22.95	35.67	30.59	22.44	15.75
	150S	Sabelle	10	3.95	42.70		144.17	134.19	93.16	74.30
	150X	Usaegx 995	50	2.95		14.60	21.74	18.65	13.68	11.16
	151G	Classic	50	2.95		22.15	32.58	30.41	25.63	17.09
	UT152S	Patio Baby	10	3.75	31.25	78.90	101.40	91.26	77.06	70.98





Kale Redbor



Kale Vates Blue Curled



Kohlrabi Konan



Leek Megaton



Leek Comanche

## KALE

CULTURE: oz/28 gr 9,000 seeds. Sow in early spring or June to July. Thin 12 in/30 cm apart. Screened for Black Rot & Black Leg. SIZED SEED. For Ornamental Kale see flower section.

**168C BLUE RIDGE** 52 days. F1 hybrid. Dark blue/green fully curled leaves are easy to strip, slow to bolt. Good tolerance to heat. For machine harvesting.

**168E WINTERBOR** 52 days. F1 hybrid. Taller 24 in/61 cm stems allow easier stripping. Dark green finely curled Vates have frost tolerance for spring, fall or overwintering.

**168N REDBOR** 55 days. F1 hybrid. Fine curled, tall 24-26 in/61-66 cm plant that turns from green with pink veins to a striking dark maroon as it matures. Color enhanced when the season turns cooler. Good eating or gorgeous as an ornamental in landscapes or containers.

**168L DARKIBOR** 55 days. F1 hybrid. 20 in/51 cm Vates type plant is similar to Winterbor but blue/green color is slightly lighter and leaves somewhat looser. Used by growers who chop or bag their kale because ribs are less prominent. Resists yellowing and bolting.

**168K CN KAL 1029** 56 days. F1 hybrid. A slow maturing kale with a long harvest window and strong tolerances to frost, bolting and yellow leaves. Plant habit is similar to Winterbor. Well curled leaves are darker blue green in color and remain high quality during poor summer weather, providing high grade pack outs in Oct/Nov with excellent yield potential. Use for early spring or late fall harvests as demand for kale increases.

## OPEN POLLINATED

**168F BLACK MAGIC** 55 days. Has dark black/green heavily savoyed, narrow, well textured 16 in/41 cm leaves with white ribs. A rosette plant habit makes harvesting easier. Plants have an improved bolting resistance and an excellent tolerance to cold weather.

**168A VATES BLUE CURLED** 56 days. Standard blue/green curled. 14 in/36 cm plant. For untreated seed, order **UT168A**.

**168J DWARF BLUE CURLED SCOTCH** 56 days. Finely curled leaves - Vates type plant. Very cold tolerant strain. Harvest in late fall until November. For untreated seed, order **UT168J**.

**168H RED RUSSIAN** 50 days. Deep blue-green frilly leaves mature an attractive green with purple veins and deeply cut edges in the fall. Small leaves are very tender with excellent flavor. Harvest late Sept-Nov.

## KOHLRABI

CULTURE: oz/28 gr contains 8,000 seeds. Sow from April to July .5 in/13 mm deep. Thin to 4 in/10 cm apart. Seed is screened for Black Rot and Black Leg. SIZED SEED.

**169E KONAN** 50 days. F1 hybrid. Smooth, globe-shaped, light green bulbs grow 6 in/15 cm in diameter. Snow-white interior flesh has a crunchy texture with a juicy mild radish/cabbage flavor. Compact plant good for containers. Good disease resistance package. AAS winner.

**169C WINNER** 57 days. F1 hybrid. Heavy yielding semi globe, pale green 18 oz/510 g bulb.

**169R QUICKSTAR** 59 days. F1 hybrid. Pale green, flat-round, very smooth, very uniform bulbs. Plants are a darker green, slow bolting.

**167 EARLY PURPLE VIENNA** 55 days. O/P. Red-purple, flat globe, roots have white flesh. Pkt. (200 seeds) \$2.15; oz \$6.60; 1/4 lb \$10.45; lb \$28.80; 5 lb @ \$24.50 per lb.

## OPEN POLLINATED LEEK

CULTURE: 10,000 seeds per oz/28 gr. Sow indoors February - March; outdoors April - June, (2 seeds per in/25 mm). 25 in/6 mm deep at the bottom of 5 in/13 cm furrowed rows 18 in/46 cm apart. Thin to 6 in/15 cm apart. Fill in furrows gradually as plants grow. MATURITY - rated from transplant (add 32 days for direct seeding) SIZED SEED - All our seed is precision graded for commercial growers.

**170T TADORNA** 108 days. Nice long 7-8 in/18-20 cm blue/green shaft is easy to clean, frost tolerant fall or N.J. over winter type. Leaf Spot/Yellow Spot resistant.

## HYBRID LEEK

Several of our larger leek growers in northeastern U.S.A. and Canada have switched to hybrid leeks. Growers report that the hybrids germinate much faster in the greenhouse and transplants are faster growing and ready to transplant earlier. The hybrids are much easier to peel.

**170U COMANCHE** 105 days. F1 hybrid. This dark bluish green leafed leek has very long shanks that size up early and are easy to peel. Its upright plant habit is suitable for both bunching and prepack. Good disease package.

**P170M MEGATON** 105 days. Our best early, uniform F1 hybrid. Darker green leafed plants have low risk of bolting and a long harvest window. Medium length, high density white shafts have longer storage capacity or shelf life. Some intermediate resistance to disease.

**170Y MATEJKO** 106 days. F1 hybrid. Early Thrips and Rust tolerant dark green leaf type and medium shaft size. Slow bolting, long harvest window, good shelf life. Nice white shafts.

**170Z MATISSE** 110 days. F1 hybrid. Dark green upright plant with very long straight white shanks. Longer than Matejko. Slow bolting with a long harvest window.

**P170S KRYPTON** 110 days. Upright green leaf plant is very uniform in both short shaft length and thickness. Good resistances to bolting, red stripe, thrips.

NEW	KALE	# seeds per pkt	Pkt	oz	1/4 lb	lb	5 lb @	25 lb @
				28 g	113 g	454 g	per lb	per lb
	168A Vates Blue Curled	120	3.20	9.35	13.90	33.25	29.10	24.58
	168H Red Russian	120	3.75	12.20	18.15	43.40	38.00	32.09
	168J Blue Curled Scotch	120	2.75	4.85	7.20	17.20	15.10	12.73
	<b>KALE</b> (M=1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	5 M per M	25 M per M	50 M per M	100 M per M
	168C Blue Ridge Hybrid	100	3.75	17.73	13.53	11.64	8.89	7.87
	168E Winterbor Hybrid	100	4.25	17.90	13.65	11.75	8.98	7.94
	168F Black Magic O/P		N/A	2.49	2.34	1.56		1.40
	168K CN 1029	100	4.25	20.56	15.69	11.25		9.13
	168L Darkibor	100	4.25	17.90	13.65	11.75	8.98	7.25
	168N Redbor Hybrid	100	4.25	46.26	35.29	30.37	23.20	18.74
	<b>KOHLRABI HYBRID</b> (M=1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	5 M per M	25 M per M	100 M per M	1000 M per M
	169C Winner	100	3.00	10.01	6.88	5.55	4.43	
	169E Konan	100	5.25	44.66	32.03	21.05	20.42	
	169R Quickstar	100	3.25	18.62	12.80	10.33	6.20	
	<b>HYBRID LEEK</b> (M=1,000 seeds)	# of seeds per pkt	Pkt	1,000 seeds	10 M per M	50 M per M	100 M per M	1000 M per M
	P170M Megaton	25	3.95	44.66	33.88	21.70	20.30	19.60
	P170S Krypton	25	3.95	46.48	35.26	22.58	21.13	18.87
	170U Comanche	25	3.95	34.96	26.52	18.52	16.33	15.89
	170Y Matejko	25	3.95	37.42	28.39	19.82	17.48	16.76
	170Z Matisse	25	3.95	36.94	28.02	19.57	17.25	16.54
	<b>LEEK Open Pollinated</b> (M=1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	10 M per M	50 M per M	100 M per M	1000 M per M
	170T Tadorna	100	2.95	7.72	5.98	4.31	3.78	3.18



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Buttercrunch



Skyphos M.I.



Caretaker M.I.



Mild Mesclun Mix

## HEAD LETTUCE

Most types of lettuce prefer cooler growing temperatures of 50-60°F/10-16°C - therefore do poorly in hot weather. STRESS: All lettuces are O/P NOT hybrids - severe stress will cause many off types. Leaf and cos lettuce are both more suitable for warmer regions. Crops are acceptable on average soil with a neutral pH of 6, but much better on well-fertilized soils high in nitrogen. Since lettuce is about 95% water, plants require moist ground when rainfall is poor. PELLETED SEED: We carry a stock of pellets for popular leaf and head lettuces. When ordering pellets, please indicate on your order, very clearly, "Pelleted Seeds". SIZED SEED: All raw seed is precision sized. CULTURE: oz/28 gr 20,000; .5 lb/227 gr per acre (sized seed). EARLY CROP: Sow in hotbeds from Feb. 15th - Mar. 15th, transplant outdoors in April after hardening plants off, to stand frosts. Sow outdoors April 1st .25 in/6 mm deep (2 seeds per in/25 mm). Thin to 12 in/30 cm apart. Heads mature in July and August in rows 18 in/46 cm apart. SOIL DISEASES: Due to warmer weather in some Northeastern areas, growers have reported CRR (Corky Root Rot) and other Southern soil diseases in muck soils where proper crop rotation has not been done. MOSAIC INDEXED SEED: at 0/30,000 MI. This will not prevent mosaic in the fields unless growers control insects, perennial host plants and use clean containers.

### MESCLUN MIX

Mesclun is the fastest growing, commercial pre-packaged product sold to chain stores. Mesclun is a mixture of lettuces, pak choi, endives, tsai tai, kale and other leafy greens in red and green shades. Crops of tender, young green leaves are clipped from young plants which regrow. Mesclun can be grown in seedling beds, outdoors, from spring till frost - or it can be grown indoors in a cool greenhouse on benches or hydroponically.

CULTURE: Shake package thoroughly before sowing to ensure that seeds are mixed properly. Space seeds .5 in/10 mm apart in a 2-4 in/5-10 cm band and lightly cover with .125 in/4 mm of fine dry soil and firm. Begin harvesting in 3 weeks with sharp scissors or electric hedge clippers. Most plants in the mix will regrow. A packet sows about 18-20 ft/5.5-6 m; 17,000 seeds per oz/28 g.

**185M MILD MESCLUN MIX** 20 days. A blend of red and green leafy greens and lettuces. Ingredients include red and green Salad Bowls, red and green Rapids, red and green cos plus pak choi, hon tsai tai, kale and brassica greens. To add more spicy flavor, add endives, Lolla Rossa lettuces, arugula and chicory. **Each mild mesclun mix contains 2 separate packages: a) Lettuce, Endive, Chicory (pictured) and b) Asian Greens, Kale, Mustards.**

### GREEN BIBB, BUTTERHEAD & BOSTON

**172 BUTTERCRUNCH** 60 days. Medium green, long standing Summer Bibb type. Stands 2 weeks longer. Crisp, thick leaves are sweet and tender, 10 in/ 25 cm plant. Standard variety for bedding plants. Limited.

**P172J ODYSSEY M.I.** 62 days. A dark green Butterhead/Boston with excellent tip burn and bolting tolerance. For fresh market or processing. Pellets only.

### RED BOSTON TYPE

**P173S SKYPHOS M.I.** 47 days. Reddest butterhead in our trials. Beautiful large red heads have contrasting green centers. Plants are tolerant to bolting and have excellent texture and flavor. The surest heading and most widely adaptable red butterhead. Highly tolerant to Downy Mildew races 1-26; tolerant to NR and LMV. Pellets only.

### HEAD LETTUCE (ICEBERG)

**P176F MIGHTY JOE M.I.** 88 days. Larger iceberg type. Plants are vigorous and have excellent texture. Very uniform, round heads with good leaf cover and exceptional head weight. Pellets only.

**P173C CARETAKER M.I.** 88 days. Darker green medium sized iceberg type heads with good texture and taste. Wrapper leaves are long and moderately savoyed. Cap leaf provides protection from tip burn. Pellets only. **pvp**



Global Gourmet Mix



Wonder Wok Mix



Summer Picnic Mix



City Garden Mix



Alfresco Mix

NEW	LETTUCE	# seeds per pkt	Pkt	½ oz 14 g	oz 28 g	¼ lb 113 g	½ lb 227 g	lb 454 g	5 lb @ per lb
	Precision Sized Seed								
	Buttercrunch	600	2.35		2.95	4.50		12.70	11.15
	Green Salad Bowl	600	2.95	6.90	12.35	34.40		95.15	84.40
	Red Salad Bowl	600	2.95	8.55	15.30	42.70		118.15	
	Mild Mesclun Mix	1,200	3.95	8.35	14.90	41.60		115.05	102.05
	LETTUCE	# seeds per pkt	1,000 seeds	5 M per M	25 M per M	50 M per M	100 M per M	500 M per M	1,000 M per M
	(M = 1,000 seeds)								
	Grand Rapids TBR		1.11	0.81	0.69	0.65	0.48	0.46	0.44
	New Red Fire MI		1.72	1.26	1.07	1.00	0.75	0.72	0.64



Green Bay M.I.



New Red Fire M.I.



Grand Rapids TBR



Green Towers M.I.

## BATAVIA AND GRAND RAPIDS

**P185C GRAND RAPIDS TBR** 45 days. Good tolerance to Tip Burn. **GS**

**P181K GREEN BAY M.I.** 48 days. Grand Rapids type. Uniform heads are darker with medium sized, semi glossy, frilly leaves. Excellent tolerance to Tip Burn. Pellets only.

**P185H TWO STAR M.I.** 53 days. Darker green, slower bolting, Waldmann's type with much better taste. Heads stay open in the field and fold easily for packing. About a week slower to bolt than Waldmann's. Pellets only.

**P173H HOJA VERDE M.I.** 55 days. Widely adapted green leaf Batavia type with a strong tolerance to bolting and a consistent performance under different weather conditions. An excellent source of high quality medium dark green leaf lettuce for Spring or Fall cutting.

**P171S BERGAMS GREEN M.I.** 58 days. Versatile CRR resistant (Corky Root Rot) green leaf lettuce is slow bolting during variable weather conditions, holds well in the field with good Tip Burn tolerance. Use for late spring, summer and fall harvests. **pvp** Pellets only.

## SALAD BOWL TYPES

**179B GREEN SALAD BOWL** 48 days. Slow to bolt, each plant makes a decorative rosette of wavy rounded notched, tender leaves. Best looseleaf for roadside stands, in hot weather - holds flavor and fine texture in heat.

**179C RED SALAD BOWL** 51 days. Wine red version of Salad Bowl. Deeply lobed oak leaf pure red leaves during cool weather. **GS**

## RED LOOSELEAF AND COS OR ROMAINE TYPES



**P172P PATRONA M.I.** Large dark green open heart cos lettuce for outdoor production. Can be used as a fresh wholehead or for processing. Good field standing and uniformity.

**185F NEW RED FIRE M.I.** 43 days. Standard looseleaf red. Medium dark red fall color during short day length. Excellent tolerance to bolting. **GS** Pellets available.

**P185W RED EXPRESS M.I.** 55 days. Deep red color, on both sides of the leaf is prominent throughout this large frame, loose leaf plant. Pellets only.

**P173L SALVIUS M.I.** 73 days. Very dark green medium savoyed leaves mature fast on upright tall large plants. Excellent tolerance to DM strains 16 through 26 and 28 and 32 plus leaf aphids with some tolerance to corky root rot. For fresh market or hearts. Pellets only.

**P172R ARROYO M.I.** 74 days. Tall upright Romaine with darker green savoyed leaves. Plant has tight V shaped internodes that cup slowly. Great for summer heat production and fresh market. Excellent tolerance to DM, Dieback and heat. Pellets only.

**P171G GREEN TOWERS M.I.** 74 days. The most popular Romaine for eastern USA and Canada. Extra large upright, dark green heads are less cupped at the top. Leaves are lightly savoyed with smooth ribs. Pellets only.

**P173V VALLEY HEART M.I.** 75 days. A tall medium green romaine with slightly savoyed, large leaves. Plants have good cold, bolting and heat tolerances. Use for fresh market or hearts. Use for fall harvests. Pellets only. **pvp**

NEW	PELLETED LETTUCE (M = 1,000 seeds)	# of seeds per pkt	Pkt	250 seeds	1 M seeds	10 M per M	50 M per M	100 M per M	1,000 M per M
	P171G Green Towers M.I.				4.82	4.24	2.80	2.10	1.93
	P171S Bergams Green M.I.				4.37	3.84	2.54	1.90	1.75
	P172J Odyssey M.I.				4.66	4.10	2.71	2.03	1.86
✓	P172P Patrona M.I.				8.14	7.15	4.73	3.54	3.19
	P172R Arroyo M.I.				5.99	5.27	3.48	2.61	2.29
	P173C Caretaker M.I.				5.55	4.88	3.23	2.42	1.95
	P173H Hoja Verde				4.18	3.67	2.43	1.82	1.64
	P173L Salvius M.I.				7.40	6.50	4.30	3.22	2.96
	P173S Skyphos M.I.	25	3.50	4.70	16.58	15.81	8.16	7.55	7.40
	P173V Valley Heart M.I.				5.26	4.62	3.06	2.29	2.10
	P176F Mighty Joe M.I.				4.66	4.10	2.71	2.03	1.86
	P181K Green Bay M.I.				4.66	4.10	2.71	2.03	1.86
	P185F New Red Fire M.I.				4.16	3.66	2.42	1.81	1.55
	P185H Two Star M.I.				2.89	2.54	1.68	1.26	1.15
	P185W Red Express M.I.				4.66	4.10	2.71	2.03	1.86



Valley Heart M.I.



Hoja Verde M.I.



Salvius M.I.



Red Express M.I.



Aphrodite



Athena



Passport



Primo



Accolade

## HYBRID MUSKMELON AND CANTALOUPE

**CULTURE:** A packet of hybrid seed contains enough for 15 hills; 900 seeds per oz/28 gr - or about 550 ft/168 m of row; 1.5-2 lbs/1 kg per acre. For short season areas, sow indoors or in the greenhouse from April 15th - May 15th. Use 3 in/8 cm Jiffy Strips, at 2-3 seeds per pot, .5 in/13 mm deep. Soil temp. is critical, seed requires 5-10 days at 65-75°F/18-24°C. Seed will not germinate at lower soil temp. Cantaloupes like warm sandy ground, and they will not tolerate a highly acid soil (too much fertilizer). Clay soils are not recommended. Space hills, groups or pots 2 ft/61 cm apart in rows 6 ft/2 m apart. **POLLINATION:** Commercial fields must use 2 bee colonies per acre (placed in field, not on borders). Melons must have full sun or the flesh color will get pale.

**190L HALONA** 68 days. An earlier 6 in/15 cm globe shaped. Melons average 4-5 lb/1.8-2.2 kg with well ribbed (sutures) and heavy netting. Thick orange flesh, with a 14-15% brix. Resistant to PM.

**195G GODDESS** 70 days. Excellent early yields. 4-6 lb/1.8-2.7 kg large melons harvest at .5 slip. Fruit average 7x5 in/18x12 cm with fine netting and shallow sutures. Orange flesh is very sweet. Resistant to Fusarium 0,1,2 plus Powdery Mildew 1,2.

**196L APHRODITE** 72 days. Large 6-7 lb/2.7-3.2 kg round/oval melons are larger than Athena. Great taste. Resistant to Fusarium 0,1, PM 1.

**195J ACCOLADE** 73 days. Tight seed cavity and extra firm dark orange flesh provides longer shelf life. Stronger vigorous plant avoids field stress and improved fruit quality resists cracking. Resistant to Fusarium 0,1,2 and PM 1,2 plus sulfur burn and cotton aphids. Excellent taste, ships well, 5-6 lb/2.25-2.75 kg oval netted fruit. Very high soluble sugars (brix).

**195A AVATAR** 73 days. Oval, 8 lb/3.6 kg, Eastern shipper with high sugars, deep orange interiors. Fusarium 0, 1,2 plus PM 1,2 resistances. Great taste.

**196E ATHENA** 75 days. Attractive 5-6 lbs/2.2-2.7 kg oval melon has firm deep salmon/tan color flesh. Excellent shipper. Resistant to Fusarium 0,1,2 and PM 1,2.

**195S SUGAR CUBE** 80 days. Unique disease tolerance! This is a small 2 lb/1 kg personal size melon with a high sugar taste (14% brix). Deep orange flesh, tight interior, amazing taste and extended shelf life. Resistant to Fusarium 0,1,2; PM1,2; ZYMV; PRSV and WMV.

**196D PRIMO** 79 days. High 12% Brix, large 8.25 lb/ 4 kg oval 7.5 in/18.5 cm smooth heavy netted shipping type. Resistant to DM, PM, F1, F2. Best disease package.

**195E INFINITE GOLD** 85 days. This melon has been bred for strong performance and long shelf life (LSL type). A uniform, round-oval shaped melon with dark orange firm interior and excellent taste. Highly valued for its long shelf life and holding ability, allowing more flexibility when it comes to harvest timing, transport and prolonged freshness. High yield potential. Resistant to Fusarium 0,1,2 and Sf: 1,2.

**195K ASTOUND** 85 days. Improved firm dark orange interiors with small tight seed cavities provides longer shelf life and less cracking after harvest. High quality oval 6 lb/2.75 kg well netted fruit on vigorous plants have great disease resistances to Fusarium 0,1,2, PM 1,2 and sulfur. High 14% brix for fresh market sales.

## HYBRID HONEYDEW & CRENSHAW

**194B PASSPORT** 73 days. Honeydew x Galia type. Large 6-7 in/15-17 cm early fruit average 5-6 lbs/ 2.2-2.7 kg. High sugar flavor, 12-13% brix, slips when ripe. Banana-like aroma, green flesh. Resistant to ANTH only.

**195B DREAM DEW** 76 days. Uniform honeydew. Round large fruit packs 6-8 lbs/2.7-3.6 kg. Light cream exteriors, cream/green interior. High sugar taste. Resistant to Fusarium 1,2 and PM 1,2.

**195C SUMMER DEW** 88 days. Very firm uniform 5.5 lbs/ 2.5 kg round/oval industry standard for shipping with good extended field holding capabilities. Strong vines, widely adapted. Fruit have cream exteriors, typical white/lime green interior and 12-14 high sugar taste. Resistant to Fusarium 0,2 and intermediate PM 1,2.



### Pricing Quantities

M = 1,000 Seeds or Pellets.

NEW	HYBRID MUSKMELON AND CANTALOUPE	# seeds per pkt	Pkt	250 seeds	1,000 seeds	5 M per M	10 M per M	25 M per M	100 M per M
	190L Halona	25	5.25	24.10	59.60	55.47	47.99	43.09	38.18
	194B Passport	25	5.25	25.70	63.53	59.13	51.15	45.93	40.70
	195A Avatar	25	5.50	38.00	93.92	87.42	75.63	67.90	52.66
	195B Dream Dew	25	5.50	41.60	102.79	95.67	82.76	74.31	59.33
	195C Summer Dew	25	5.50	39.40	97.30	90.56	78.34	70.34	56.16
	195E Infinite Gold	25	5.50	69.65	172.05	160.13	138.53	124.38	105.02
	195G Goddess	25	5.50	35.20	87.02	80.99	70.07	62.91	55.75
	195J Accolade	25	5.50	51.10	126.20	117.45	101.61	91.23	69.15
	195K Astound	25	5.50	50.50	124.74	116.10	100.44	90.18	68.35
	195S Sugar Cube	25	5.50	36.30	89.72	83.51	72.24	64.86	57.48
	196D Primo	25	3.50	17.50	43.23	40.24	34.81	31.25	23.69
	196E Athena	25	5.50	47.75	117.96	109.79	94.98	85.28	64.64
	196L Aphrodite	25	5.50	46.30	114.33	106.41	92.06	82.65	62.65



Avatar



Sugar Cube



Dream Dew



Infinite Gold



Astound



Okra Zarah



Mustard Green Savanna



Onion White Lisbon



Onion Green Banner



Onion Feast

## OKRA

**CULTURE:** oz/28 gr: 500 seeds. Sow June 10th .5 in/13 mm deep (1 seed per in/25 mm) in 36 in/91 cm rows. Thin to 12 in/30 cm. Eat pods while still young. In short season areas - if you can grow good sweet corn, you should be able to harvest good okra.

**226D ZARAH** 42 days. F1 hybrid. Vigorous strong plant 40 in/102 cm in height provides early maturity and a distinctive high yield of dark green, slender ridged pods. Plants have 3-4 green branches that continue producing throughout the summer.

**226B CLEMSON SPINELESS** 80 54 days. O/P. Compact 48 in/122 cm plants produce dark green, fleshy, tender, ridged 5 in/13 cm pods which are spineless.

## MUSTARD (Mustard Greens)

**CULTURE:** Sow about April 1st for spring crops and August 15th for fall harvests. Seed directly into the field. .25 in/6 mm deep, in rows 24 in/61 cm apart. Thin plants to 8 in/20 cm apart. Sow sized seed at oz/28 gr per 100 ft/31 m of row, 4 lbs/1.8 kg per acre.

**188A SAVANNA** 35 days. F1 hybrid. Early maturing, broadleaf Tendergreen type is slower to bolt. Smooth, thick, dark green leaves. Multiple harvests, spring or fall.

**188B SOUTHERN GIANT CURLED** 48 days. O/P. Large upright Indian Mustard-heavily curled dark green leaves with frilled margins. Tolerant to bolting.

**188 FLORIDA BROADLEAF** 50 days. O/P. Semi-upright, spreading, leafy plant with round/oval medium green leaves and serrated margins. Creamy midribs.

## WHITE ONIONS FOR BUNCHING

There is an increasing demand each year for scallions or bunching onions (onions sown thicker and harvested before they develop bulbs). We list the ones best suited to meet your requirements over the entire year. The most extensively used variety for bunching during the summer is Gallop. We also suggest you try Feast or Tokyo Long White as non bulbing types. For "scallions" with a slightly swollen bulb - use White Lisbon. Note: Dates to maturity of all bunching onions indicate the time required to produce green onions. ORGANIC GROWERS should not have too much trouble with this species; most enemies can be washed off with a hose. Onions will withstand all kinds of abuse and bugs. Your biggest problem will be weed control. Mulch with grass clippings or straw and cultivate carefully to control weeds. Sometimes early seedlings are troubled by onion maggots causing them to rot. **CULTURE:** oz/28 gr 6,000 seeds; 4-6 lbs/2-3 kg per acre, depending on seed size, which varies up to 30%. Sow in late Apr. - June 25th. Hardy types July 1st, .5 in/13 mm deep, rows 18 in/46 cm apart. GRADED SEED: Most of our commercial strains of bunching onions have been precision graded to improve uniform seed vigor and complement Stanhay or Nibex seeders. This service is included in the price of our seed and is marked **GS**.

**218G GALLOP** 60 days. F1 hybrid traditional Japanese non bulbing type. Deep green, straight upright shafts are thick and very uniform with medium branching. Shafts are very high quality with sweeter cooked flavor than O/P's. Excellent heat tolerance for summer harvests. Transplant deep or mound soil around shafts, like leeks, to increase length of blanched stem. **GS**

**216D GREEN BANNER** 60 days. Strong dark tops, very nice long white shafts. Vigorous plant has a strong root system with good tolerance to extreme heat. Resistant to Fusarium Basal Rot plus an intermediate resistance to Pink Root. **pvp, GS**. Patented Variety. 1,000 seeds \$2.11; 10,000 seeds @ \$1.24 per M; 25,000 seeds @ \$0.83 per M; 50,000 seeds @ \$0.64 per M; 100,000 seeds @ \$0.52 per M.

**213W WHITE GEM** 62 days. F1 hybrid. Shiny, dark green upright foliage contrasts well with the medium length white shanks. Plants have excellent field standing ability. Use for summer-fall harvests. Mild flavor. Much easier to bunch and heavier yielding than O/P types. **GS**

**220 WHITE LISBON** 60 days. Earliest bunching onion. Must be harvested before the bottom of the shaft swells too much. Popular as a "scallion." **GS**

**215A SOUTHPORT WHITE GLOBE (Green Bunching)** 65 days. Used exclusively for the production of green bunching onions that are mild and sweet. For a large white Spanish cooking onion, use transplants spaced 6 in/15 cm apart. For untreated seed, order **UT215A**. **GS**

**217B ISHIKURA IMPROVED** 66 days. Similar to Tokyo Long White but has improved long distance shipping qualities. Upright stiff tops are paler blue green than Tokyo Bunching. Single stems with little or no bulb. Excellent for spring or late summer harvests in BC, South Jersey. Not winter hardy. Similar to White Spear. **GS**

**219 FEAST** 68 days. An improved Tokyo Long White type with tolerance to Downy Mildew and Alternaria Leaf Spot. A single stalk type, upright plant habit 16-20 in/41-53 cm long white shafts, dark green leaves. Good heat tolerance for spring and summer East Coast production. Not winter hardy. **GS**

**217A TOKYO LONG WHITE** 68 days. Replaces Long White Sakata, but has more upright, stiffer, blue green tops. Grows with single stems, little or no bulb, for fall or summer bunching. Not winter hardy. **GS**

## ONION - DUAL PURPOSE TYPE

**217 WHITE SWEET SPANISH** This makes a beautiful globe shaped white Spanish onion in 120 days from transplants (plants spaced 6 in/15 cm apart). It can also be sown thicker for a nice dark green bunching onion, maturing in the July or August heat. As a green onion, uniform stems are slow to bulb in 75 days. **GS**

## HARDY OVERWINTERING TYPE

**216B EVERGREEN WHITE NEBUKA** Very hardy for over wintering. Sow in spring for summer use or sow in fall for over wintering. Little or no bulbing. **GS**

**216 HARDY WHITE BUNCHING** 70 days. An improved strain of Japanese bunching (He shi ko). A hardy, non bulbing type, long, slim pure white stems. For summer crops or wintering over the following spring. **GS**

NEW	MUSTARD GREENS	# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	½ lb 227 g	lb 454 g	5 lb @ per lb	25 lb @ per lb
188	Florida Broadleaf	500	3.00	10.80		20.95	31.15	22.00	20.34
188A	Savanna	120	3.00	22.75		94.10	142.60	120.55	98.00
188B	Southern Giant Curled	1,000	2.15	2.95		5.35	7.75	6.40	4.78
	OKRA O/P (M=1,000 seeds)	# seeds per pkt	Pkt	100 seeds	500 seeds	1,000 seeds	5 M per M	25 M per M	
226D	Zarah	25	3.95	11.10	28.00	41.18	37.30	27.36	
	OKRA	# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	lb 454 g	5 lb @ per lb	10 lb @ per lb	
226B	Clemson Spineless 80	50	2.15	3.70	5.40	13.50	8.10	5.40	
	BUNCHING ONIONS	# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	100 lb @ per lb
215A	Southport White Globe	600	2.75	5.90	13.00	34.85	31.70	29.23	27.13
216	Hardy White Bunching	600	2.75	5.55	12.25	32.80	29.85	27.52	25.54
216B	Evergreen White Nebuka	600	2.95	5.10	11.20	29.95	27.25	25.13	23.33
217	White Sweet Spanish	600	2.75	6.25	13.75	36.80	33.50	30.90	29.05
217A	Tokyo Long White	600	2.75	5.10	11.25	30.20	27.50	25.35	23.53
217B	Ishikura Improved	600	2.75	8.10	17.80	47.75	43.45	40.08	33.00
219	Feast	600	3.75	22.95	50.50	135.40	123.15	113.61	93.52
220	White Lisbon	600	2.75	5.20	11.45	30.75	27.95	25.80	23.95
	BUNCHING ONIONS HYBRIDS	# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	100 lb @ per lb
213W	White Gem Hybrid	600	4.25	14.90	32.75	87.75	79.80	68.36	59.00
218G	Gallop Hybrid	600	4.25	35.55	78.25	209.65	190.70	175.95	144.83



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Pocono



Traverse



Fortress



Catskill

## STOKES HYBRID ONIONS

**CULTURE:** oz/28 gr sows 200 ft/61 m; 3-5 lbs/1-2 kg per acre, depending on seed size. Sow Apr. 10th to May 10th .5 in/13 mm deep at 2 seeds per in/25 mm, thin to 2-3 in/5-8 cm apart. Precision seeders from 12-14 seeds per ft/31 cm in single or double rows, 16 in/41 cm apart. Growers must compare seed size before sowing, to determine the seeding rate. **HARVEST:** As bulbs reach an acceptable size, pull plants or bend tops at the bulb neck. Pile in wind rows, so that bulbs are cured by the sun for at least a week. Stokes introduced the first hybrid onions used in Northeastern USA and Canada in the early 1950's. Since then, we have continued to work closely with the breeders from Crookham, Seminis, Takii and Nunhems to help develop and promote the best new hybrids for Northeastern growers. Contact your commercial Stokes sales person for information on new experimental varieties. **Seed Coatings - Pellet, Encrustment or Filmcoat:** Contact our Sales Department for information on the various types of pellet coatings. Coatings used include OnX® and VISION.

### EARLY VARIETIES

**210B NORSTAR** 78 days. Standard early, short term storage hybrid. Bulbs are medium size, with fair skin. Still popular above 41st parallel. To increase size and earliness - use as a first early transplant on sandy soils. Pellets available.

**210X HIGHLANDER** 85-90 days. Larger Norstar type for transplants or direct seeding in northern, long day areas. Slightly flat, globe shaped bulbs are lighter in color than Alpine, but very firm with thin necks. Excellent yield potential. Resistant to Botrytis and Downy Mildew. Short term storage.

**213T TRAILBLAZER** 95 days. Second early long day - long storage type for muck or mineral soils. Very uniform, hard round globe has excellent skin, thin neck and great color. Should provide high pack outs and grade use for shipping or storage until May or June under optimal conditions. Trailblazer has a strong resistance to foliar diseases like Botrytis. Slow to bolt when stressed. High yield potential. Pellets available.

**210F FRONTIER** 98 days. Medium term storage type with very uniform small necks and medium to large bronze bulbs. Frontier has comparable yields to Norstar and Eskimo but has better storage quality. Bulbs are resistant to Fusarium Basal Rot and Pink Root.

**210T MOUNTAINEER** 99 days. Growers report that it produces a nice size Jumbo in dry or wet conditions, is very uniform with small necks and has attractive medium bronze skin. Bulbs are globe shaped, very firm with medium storage possibilities. Resistant to Fusarium and Pink Root. Pellets available.

### MAIN SEASON VARIETIES

**211T TREKKER** 100 days. An excellent long term storage onion which is very uniform, globe shaped with extra firm bulbs and very nice dark skin. It is slow to bolt and should store until May under optimum conditions. Strong resistance to both Basal Rot and Neck Rot. Skin holds up well during storage and bulbs ship well after storage. Pellets available.

**214D SADDLEBACK** 100 days. Large, uniform, globe shaped bulb with medium skin color and a small neck. Strong root system permits growth on marginal neck soils, enabling high yield potential. Medium term storage potential.

### MAIN SEASON VARIETIES

**211L LASALLE** 103 days. Large, dark bronze, long term storage onion with small neck. Excellent firmness and skin retention after 8 months storage. More of a round globe shape than Hamlet with same high yields and good storage possibilities. Resistant to Pink Root and Fusarium. Pellets available.

**NEW 214T TRAVERSE** 105 days. Long-day storage onion. Excellent uniform globe shape and sizing. Highly adaptable, tight necks, strong skin and high Pink Root tolerance.

**214C CATSKILL** 105 days. Large globe shaped, medium dark brown skinned storage onion with good skin retention and neck size. High yield potential and adaptability provides flexibility to plant on all soil types. High resistance to Pink Root and intermediate resistance to Basal Rot.

**211R RIDGELINE** 107 days. F1 hybrid. A long day yellow storage onion with excellent yield potential. Globe shaped bulbs have brown skin and are slow to bolt. Has potential to produce jumbo sized bulbs with good roots. Intermediate resistance to Pink Root and Basal Rot.

### LATE SEASON HYBRIDS

**210S MILESTONE** 110 days. Bulbs are very large, globe shaped, extra hard with beautiful skin and thin necks, which cure down quickly. Milestone is a medium storage onion, with a high percentage of single centers for processing and good resistance to bolting. Extensive root system helps to provide an excellent pack out.

**212C FORTRESS** 110 days. Dark brown skin, small necks, excellent appearance. Very uniform bulbs with high yield potential. Some resistance to bolting, Pink Root and Fusarium. Round, dark skinned bulbs are very attractive after 7 months of storage.

**213P POCONO** 110 days. Extra large uniform round bulbs with dark skin color and very small necks that have long term 7-8 month storage potential. Pocono has proven to be widely adapted to areas that use Prince or Fortress and has shown excellent quality out of storage - a very attractive bulb.

**213N MONTCLAIR** 112 days. Large globe shaped bulbs with heavy dark bronze skin mature as excellent high quality medium jumbos after 6-7 months of long term storage. Upright vigorous plants, nice small necks, excellent post harvest skin retention and packout possibilities. Resistant to Fusarium and Pink Root. Pellets available.

NEW	HYBRID ONIONS (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	10 M per M	25 M per M	50 M per M	100 M per M	500 M per M	1,000 M per M
	210B Norstar	300	3.75	9.00	5.30	3.53	3.20	2.87	2.54	2.25
	210F Frontier	300	3.75	9.44	5.56	3.70	3.35	3.01	2.67	2.36
	210S Milestone	300	3.75	9.77	5.75	3.83	3.47	3.12	2.76	2.45
	210T Mountaineer	300	3.75	9.17	5.39	3.59	3.26	2.92	2.59	2.29
	210X Highlander	300	3.75	10.98	6.46	4.30	3.90	3.50	3.10	2.76
	211L LaSalle	300	3.75	9.18	5.40	3.59	3.26	2.93	2.59	2.26
	211R Ridgeline	300	3.75	11.36	6.69	4.45	4.04	3.62	3.21	2.84
	211T Trekker		N/A	10.98	6.46	4.30	3.90	3.50	3.10	2.76
	212C Fortress	300	3.75	7.80	4.59	3.05	2.77	2.49	2.20	1.92
	213N Montclair	300	3.75	10.56	6.21	4.14	3.75	3.37	2.98	2.60
	213P Pocono		N/A	N/A	6.36	4.23	3.84	3.44	3.05	2.66
	213T Trailblazer	300	3.75	11.47	6.75	4.49	4.08	3.66	3.24	2.88
	214C Catskill		N/A	N/A	6.36	4.23	3.84	3.44	3.05	2.66
	214D Saddleback		N/A	N/A	5.74	3.82	3.46	3.11	2.75	2.40
✓	214T Traverse	300	3.75	11.36	6.69	4.45	4.04	3.62	3.21	2.86
	<b>ONION PELLETS (M = 1,000 seeds)</b>				<b>10 M per M</b>	<b>50 M per M</b>	<b>100 M per M</b>	<b>1000 M per M</b>		
	Minimum Order 10M - POSTPAID									
	P203S SV4643NT				8.36	5.18	4.68	3.69		
	P210B Norstar				5.63	3.53	3.20	2.58		
	P210T Mountaineer				5.72	3.57	3.25	2.62		
	P211L LaSalle				5.73	3.59	3.26	2.59		
	P211T Trekker				6.79	4.23	3.83	3.09		
	P213N Montclair				6.54	4.08	3.70	2.93		
	P213T Trailblazer				7.08	4.41	3.99	3.21		
	P222A Candy				6.11	3.82	3.46	2.75		



Rubillion



Monastrell



Riverside Sweet Spanish



Great Western

## RED ONIONS

**NEW 204M MONASTRELL** 98 days. Uniform bulbs with an impressive dark red exterior color and good red interior color. High quality, single-centers. Use as first early red. Limited storage potential.

**NEW 213R RUBILLION** 105 days. F1 hybrid. Red, long-day storage type onion. Medium-large bulbs have a flat-globe shape and are medium dark red internally and externally. High percentage of single centers. Stores well.

**203R RUBY RING** 108 days. F1 hybrid. Extra hard, firm bulbs with durable dark red skin. Globe shape bulbs ship and store well. Resistance to Fusarium.

**203S SV4643NT** 110 days. Large round bulb has medium to dark red exterior with good internal color. Suitable for transplants or direct seeding in all onion areas of Northeast. Medium storage potential. Pellets available.

**203M MARENJE** 115 days. Flat globe jumbo red that should store 4-6 months. Dark red interior/exterior color. Some resistances to bolting and Pink Root only.

**203N RED NUGENT** 113 days. Large dark red bulbs with small necks and strong root systems for growing on marginal mucks with a 5-6 month storage potential. For transplants or direct seeding in the Northeast.

## SPANISH ONIONS

**CULTURE:** Sow seed thinly indoors in seed flats during January or February. Trim tops to 4 in/10 cm in height each week as plants become established. Transplant outside, early in the spring, space plants 6 in/15 cm apart in rows in April, bulbs mature in September. "All seed is precision sized". Use transplants above the 40th parallel (Columbus, OH).

**222A CANDY** 105 days. F1 hybrid. Large jumbo Spanish, light golden yellow skin, globe shape, very sweet mild white flesh. Bulbs have small necks and are stored for short terms only. Pellets available.

**210P VISION** 110 days. F1 hybrid. Nice long day x spanish hybrid provides extra firm, copper/brown skin bulbs with very small necks, medium length storage possibilities. Used for rings or fresh market.

**205B AILSA CRAIG EXHIBITION** 110 days. O/P. Replaces Kelsae Sweet Giant with a similar sister line. Huge, mild Spanish with the same color, size and unique sweet flavor. Bulbs average 5 lbs/2.4 kg for September harvest from transplants. Short term storage. Pkt. (300 seeds) \$2.45; 1,000 seeds \$3.29; 10,000 seeds \$1.94; 25,000 seeds @ \$1.29 per M; 50,000 seeds @ \$1.17 per M; 100,000 seeds @ \$1.14 per M; 500,000 seeds @ \$1.03 per M.

**222G GREAT WESTERN** 113 days. Intermediate extra large heavy globe shaped bulbs with excellent firmness and nice dark brown skin that retains well. Matures extra large jumbos from transplants. Bulbs produce a high percent of single centers. A high yielding intermediate semi-spanish hybrid with a mild flavor. Intermediate resistances to Fusarium and Pink Root.

**214R OLOROSO** 113 days. A semi-spanish that matures extra large heavy jumbos for late main season harvests from transplants or direct seedings. Plants produce huge copper brown skin bulbs with a very high percentage of single centers. Very good resistance to bolting and high resistance to Pink Root plus 6-8 month storage possibilities.

**205 RIVERSIDE SWEET SPANISH** 115 days. O/P. Selected over many years for mildness and flavor. Bulbs often measure 5 in/13 cm across, skins are thick, necks are small - stores till early winter. Riverside Sweet Spanish can also be used for sowing directly into the field where it will often produce more bushels per acre than any other variety. For untreated seed, order **UT205**. Pkt. (600 seeds) \$2.70; oz. \$6.45; 1/4 lb. \$13.25; lb. \$35.50; 5 lb @ \$30.70 per lb; 25 lb @ \$29.81 per lb.

**205C WALLA WALLA** 125 days. O/P. Transplant 8 week old plants outdoors after last spring frost. Produces very large, flattened ultra mild, sweet bulbs by mid Sept. Pkt. (300 seeds) \$2.45; oz. \$11.75; 1/4 lb. \$38.70; lb. \$101.05; 5 lb @ \$99.10 per lb; 25 lb @ \$95.15 per lb.

NEW	SPANISH ONION HYBRIDS (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	10 M per M	25 M per M	50 M per M	100 M per M	500 M per M	1,000 M per M
	210P Vision		N/A	8.04	4.73	3.15	2.86	2.56	2.27	1.98
	214R Oloroso	300	3.75	11.42	6.72	4.47	4.06	3.64	3.22	2.87
	217F Sierra Blanca (White)	300	3.75	11.41	6.72	4.47	4.05	3.64	3.22	2.81
	222A Candy	300	3.75	9.83	5.78	3.85	3.49	3.13	2.77	2.42
	222G Great Western	300	3.75	12.08	7.11	4.73	4.29	3.85	3.41	2.92
	HYBRID RED ONIONS (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	10 M per M	25 M per M	50 M per M	100 M per M	500 M per M	1,000 M per M
	203M Marenje	300	3.75	14.27	8.40	5.59	5.07	4.55	4.03	3.59
	203N Red Nugent		N/A	N/A	8.39	5.58	5.06	4.54	4.03	3.58
	203R Ruby Ring		N/A	11.86	6.98	4.64	4.21	3.78	3.35	2.97
	203S SV4643NT	300	3.75	13.65	8.03	5.34	4.85	4.35	3.85	3.36
✓	204M Monastrell		N/A	14.16	8.33	5.55	5.03	4.52	4.00	3.56
✓	213R Rubillion	300	3.75	12.46	7.33	4.88	4.43	3.97	3.52	3.13



SV4643NT



Ailsa Craig Exhibition

## WHITE SPANISH HYBRIDS

**217F SIERRA BLANCA** 100 days. White hybrid Spanish with Pink Root resistance. Huge attractive globe shaped bulb is sweeter and milder than the O/P.



### Pelleted Seed

Seed is enclosed in a pellet of inert material for ease of planting.



Parsnip Hamburg Half Long



Parsley Gigante 'Italian'



Oregon Giant



Parsnip Gladiator



Pea Tendersweet



Parsley Darki



Parsnip Albion

## PARSNIP

Parsnips have been a favorite biennial in northern areas, since heavy frost or freezing is required to improve the flavor of the roots. CULTURE: A pkt. sows approx. 10ft/3 m of row; oz/28 gr 100ft/31 m; 3-4 lbs/1.3-2 kg per acre. Roto-till ground to a depth of 16 in/40 cm. Soil should be rather sandy and not too rich in fertilizer (which causes hairy roots). Sow seed May 1st, .5 in/13 mm deep, 3 seeds per in/25 mm in rows 18-30 in/46-76 cm apart. Seed germinates in approx. 21 days at 60°F/16°C soil temperatures. Thin to 3 in/6 cm apart.

**244 HARRIS MODEL** 120 days. O/P. Roots are longer and slimmer than Hollow Crown. Its smooth white, tapered shape makes it a favorite with growers for packaging or shipping. Remarkably free of side roots. For untreated seed, order **UT244**.

### HYBRID PARSNIP

**243C ALBION** 120 days. Very white, firm roots. High yield potential. Medium depth crowns taper more gradually to heavier tips with better white color than Harris Model. Very sweet taste. Some tolerance to Brown Canker.

**243A GLADIATOR** 120 days. Large, refined Hollow Crown shape, smooth white skin, vigorous tops, rounded shoulders. Tolerant to Brown Canker. Excellent taste, very sweet, stores 4-5 months.

### PARSNIP ROOTED PARSLEY TYPE

CULTURE: Must be grown in deep, well-worked muck or sandy loam soils, just like carrots or parsnips. Roots will twist in heavier soils. Use raised beds to allow for earlier pre-emergence cultivation. 500 seeds per pkt, oz/28 g contains about 15,000 seeds.

**229B HAMBURG HALF LONG** 85 days. Heavy shoulder, half long, wedge shaped roots resemble Chantenay carrots. A refined "Berliner" type. Preferred North American shape. Roots average 6 in/15 cm - conical.

## PARSLEY

CULTURE: Pkt. contains enough seed for 10 ft/3 m of row at 4-5 seeds per in/25 mm; oz/28 g contains about 15,000 seeds; 3 lbs/1.3 kg or more per acre. Parsley seed takes a long time to break through the soil, so crusting must be avoided. Seeds take at least 21 days to germinate and 5-6 weeks to emerge from soil. Large commercial growers start sowing by late April and finish before the last spring frost. Recommend chilling the seed overnight in a refrigerator before planting - then sow at 20 seeds per 12 in/30 cm in cold soils. Avoid crop rotation with carrots, celery or parsnip. Rotate with sweet corn, tomatoes or peppers. SOW: .25 in/6 mm deep in rows 15 in/38 cm apart. Use raised beds to allow easy pre emergence cultivation. Thin plants 2-4 in/5-10 cm apart. Fertilize leaf types well with nitrogen. ROOT TYPES: Grow like carrots - over fertilization will cause hairy roots.

### PLAIN LEAF TYPES

**227L LAURA** 78 days. Smooth, small flat leaf bunching type. Vigorous upright growth. Very dark glossy green color. Strong stems. Tolerant to Black Spot.

**227J PINOCCHIO** 80 days. Flat, wide dark green leaf with shallow leaf cuts for processing.

**227R GIGANTE D'ITALIAN** 80 days. Extra large dark green, flat leaf, strong stems. Very aromatic.

### CURLED LEAF TYPES

**227F FOREST GREEN** 74 days. Deeply cut, dark green leaf. Erect, vigorous plant has good holding ability in hot weather and good grow-back after multiple cuts. For untreated seed, order **UT227F**.

**227C DARKI** 77 days. Leaves are very dark green, tight, heavy and curled. Excellent cold weather tolerance.

**228 CHAMPION MOSS CURLED** 80 days. Finely curled leaves, deep green. For untreated seed, order **UT228**.

## PARSLEY

### SIMPLY HERBS™

A new way to help solve any germination problems. Parsley seeds are contained in a multi-pellet @ 7-9 seeds per pellet. Sow pellets indoors in late April - 1 pellet per 4 in/10 cm pots. Each pellet should produce a cluster of small seedlings in about 8 weeks. Transplant seedling clusters into warm soil outdoors in June; harvest from transplants 28 days later.

**P166C Curled Parsley** (15 in/38 cm) Pkt. (25 pellets) \$3.25; 250 pellets \$15.40; 1,000 pellets \$35.26.

## EDIBLE PODDED PEAS

CULTURE: Dwarf variety is grown in rows. Harvest pods when the peas just become visible before they enlarge. Pods are cooked and eaten whole, like snap peas. Sow like regular peas, in early April. The pod itself, should be harvested just before you can see the outline of the immature peas. 2 oz/57 g sows 15 ft of row; lb/4 54 g about 150 ft of row; 100lbs/45kg per acre. Sow Mar. 30th-Apr. 15th at 2.5 ft/78 cm apart. For more snow peas see page 14.

**231C OREGON GIANT** 60 days. The first high sugar snow pea. High yields of extra large 4.5x1 in/10 x2.5 cm medium green, flat pods. Vines average 2.5 ft/76 cm and have white flowers. Tolerant to Powdery Mildew, Common Wilt and Enation Mosaic. For pick your own or fresh market.

## SUGAR SNAP PEAS

CULTURE: Snap peas are distinctly different than snow peas. The pod walls are much thicker and develop tightly around the peas so that the pods develop round and firm at maturity. Pods "snap" just like a fresh green bean. Peas can be shelled and eaten like regular peas, or pods and peas can be eaten together just like snow peas. Grow like bush snow peas or garden peas.

**231E CASCADIA** 58 days. A short vine, compact bush, snap pea like Sugar Ann, with extra disease tolerance to Powdery Mildew and Enation Mosaic. Larger 3 in/7 cm, dark green pods.

**232D SUGAR SPRINT** 61 days. Semi stringless pods. Standard 3 in/7cm medium size pods. Plants are vine type with 26 in/66cm vines averaging 20 snap peas per plant. Tolerant to Powdery Mildew. **pvp**.

**232E TENDER SWEET** 67 days. 100% stringless, fiberless and double podded Sugar Snap. Tender very sweet pods are uniform, medium sized 2.75 in/7 cm in length. Determinate plants spread or climb 18 in/46 cm. Tolerant to Fusarium and Powdery Mildew. For untreated seed, order **UT232E**.

NEW	PARSLEY		# seeds	Pkt	oz	¼ lb	lb	5 lb @	10 lb @	
			per pkt		28 g	113 g	454 g	per lb	per lb	
	227C	Darki	500	2.45	3.35	6.80	14.30	13.75	13.40	
	227F	Forest Green	500	2.45	4.80	10.85	24.75	23.60	20.95	
	227J	Pinocchio	500	2.45	7.05	15.85	36.20	34.50	28.65	
	227L	Laura	500	2.45	3.85	8.70	19.90	18.95	15.75	
	227R	Gigante d'Italian	500	2.45	4.85	10.95	25.05	23.85	19.80	
	228	Champion Moss Curled	500	2.45	4.25	8.65	18.15	17.50	17.00	
	229B	Hamburg Half Long	500	3.00	4.35	7.95	18.20	16.40	15.70	
	PEAS		2 oz	¼ lb	lb	5 lb @	25 lb @	100 lb @	500 lb @	
			57 g	227 g	454 g	per lb	per lb	per lb	per lb	
	231C	Oregon Giant	2.25	3.20	4.40	3.30	2.24	1.70	1.57	
	231E	Cascadia	1.90	3.20	4.40	3.30	2.24	1.70	1.57	
	232D	Sugar Sprint	5.50	9.40	13.00	9.75	6.59	5.00	4.62	
	232E	Tender Sweet	2.80	4.80	6.65	5.00	3.36	2.55	2.36	
	PARSNIP		# seeds	Pkt	oz	¼ lb	½ lb	lb	5 lb @	25 lb @
			per pkt		28 g	113 g	227 g	454 g	per lb	per lb
	244	Harris Model	200	2.45	3.20	4.75	6.90	9.25	8.80	7.82
	HYBRID PARSNIP		# seeds	Pkt	1,000	10 M	50 M	100 M	500 M	
			per pkt		seeds	per M	per M	per M	per M	
	243A	Gladiator	200	2.45	3.70	2.87	2.12	1.73	1.40	
	243C	Albion	200	2.45	3.70	2.87	2.12	1.73	1.40	





Spring



Premium



Knight



Bolero



Mr. Big

## GARDEN PEAS

Although perfected by the British, pea seeds were found in an Egyptian tomb at Thebes. Peas are a cool weather crop, so they should be sown from Good Friday until mid May and early August for fall crops. Small growers with limited space for peas, can support vines with 3 or 4 ft/90 or 125 cm high wire fencing between double rows of peas. A 25 ft/7.5 m row should yield 15 lbs/7 kg of peas. Approx. 200-300 seeds per 2 oz/57 gr.

**CULTURE:** 2 oz/57 gr sows about 15 ft/5 m of row; 1 lb/454 gr about 150 ft/46 m; 100-150 lbs/45-68 kg. per acre. Sow early varieties as soon as the ground can be worked, (Mar. 30th), 1 in/25 mm deep at 10 seeds per ft/30 cm - dwarf varieties in rows 2.5 ft/76 cm apart, later, more vigorous types in 3.5 ft/107 cm rows. Make successive sowings every 2 weeks till May 20th.

**GERMINATION:** 50-60°F/10-16°C moist soil for 5-8 days are required for proper germination. Peas will not germinate well in hot soil 86°F/30°C. Just like beans and sweet corn, clay loam soils can delay germination 3 or 4 days if it crusts.

**MATURITY DATES:** Our days to maturity dates on early varieties (Spring - Knight) are from emergence to crop, due to spring soil (sand vs clay) delays. The rest are from seeding to harvest. Peas like rich sandy ground - but not too much nitrogen in the soil. Pods should be harvested daily, as plants reach maturity - so that new pods will form.

**TREATED SEED:** Our peas are treated with a mild fungicide to protect seeds from rot in early spring soil conditions.

**UNTREATED SEED:** For organic gardeners - Please use UT in front of catalog numbers when ordering untreated seed (when available).

**NOTE:** Severe stress, such as unusually high temperatures and lack of rain, will increase percentage of off-type plants. Peas are still open pollinated - not hybrids. The most serious off-types will appear in extra early types - especially on rolling land. Low spots will become too damp or compacted, delaying germination 8-10 days, causing maturity and pod size differences within the same row. Use level land for early varieties.

### EARLY VARIETIES

**236 SPRING** 52 days. A dark podded early. Pods average 3 in/8 cm, vines 22 in/56 cm. 6-7 medium sieve size dark green peas per pod. For freezing or fresh market. 2,100 seeds per lb. Resistant to Fusarium Wilt.

**237K STRIKE** 56 days. Similar in maturity to Spring, with a slightly longer pod, smaller sieve size and additional tolerance to Pythium. Pods are dark green, 3.25 in/9 cm long. Resistant to Fusarium Wilt. **pvp**

**236B JUMPSTART** 56 days. Performs well in cold soils. Excellent early vigor, double podded which should provide a very high early yield potential. Medium size blunt dark green pods have high quality peas with a uniform color at harvest and a medium sieve size of 3.6. Plants are 22 in/56 cm in height and easy to cultivate. Resistant to Fusarium. Fresh market type. **pvp**

### SECOND EARLY VARIETIES

**238A KNIGHT** 57 days. Early large berry/double podded type. Extra large 7-8 sieve berries; 4 in/10 cm pods. Vine length varies and some off types may occur under some conditions. Resistant to Common Wilt, several Mosaics and Powdery Mildew.

**237E PREMIUM** 58 days. Medium sized 3 in/8 cm single and double blunt pods average 7 to 8 dark green peas per pod with 4.3 sieve size. Bushy 23 in/58 cm plants are very easy to cultivate and have a good resistance to Fusarium. Use for fresh market or freezing.

**237M LEGACY** 59 days. An early Bolero type. Heavy yields of double and triple podded 3.5-4 in/9-10 cm pods, with an average sieve size of 4.00 on compact 24 in/61 cm dark green plants. Resistant to Fusarium, Powdery Mildew and Pea Enation. **pvp**

**236C SIENNA** 63 days. Excellent multiple podded variety with dark green medium sized blunt pods and a strong resistance to Fusarium 1, 2 and PM. Well adapted to early spring weather and handle cool soils very well. Multiple pods provide a high yield potential. Dark green quality peas have a sieve size of 4.2 and uniform color at harvest. Vines average 25 in/63.5 cm. **pvp**

### MAIN SEASON VARIETIES

**237H SABRE** 65 days. One of our best double podded types with dark green peas for early main season processing or fresh market. Average 3.90 sieve size (45% size 4) berries and 3.5 in/9 cm pods normal 24 in/61 cm dark green vines. Resistant to Fusarium Wilt and Root Rot plus Powdery Mildew. For untreated seed, order **UT237H**.

**234 LINCOLN** 65 days. Old Homestead type. Well-filled slender 3 in/8 cm pods average 8-9 small peas of exceptional sweetness and flavor. Bushy 28 in/71 cm plants are resistant to common wilt. For untreated seed, order **UT234**.

**234B BOLERO** 66 days. High yielding, high sugar freezing, medium size 3 in/8 cm double podded (7-9 peas) type. Bushy, 28 in/71 cm vigorous vines show tolerance to W, NW, PM, EMV, WP, RR, F and YM. For freezing, mechanical harvesting and PYO.

### LATE SEASON VARIETIES

**237F JUMBO** 71 days. Large podded fall harvest type. Pods are about 5 in/13 cm long and are filled with 8-10 large dark green peas per pod with sieve 6.0 size. Vigorous 32 in/81 cm plants can be grown commercially in rows or trellised in smaller gardens. Use for fresh market or processing. Resistant to Fusarium.

**237A UTRILLO** 71 days. Large podded fall harvest type. Pods are well filled averaging 5 in/13 cm in length, with 8-10 dark green, very sweet peas. Large spreading 30 in/76 cm vine. Sow in mid August for fall crops. Vines can be trellised or grown in rows.

**237N PLS 595** 72 days. **Afila type plant (Semi- leafless plant)** produces two long pods per node with on average 11 berries in each pod, with a sieve size of 3.6 on a 28-32 in/71-81 cm plant. Upright plant type and pods set high in the plant enable easy hand picking. Resistant to Powdery Mildew and Fusarium 1.

**237C MR. BIG** 72 days. Best large podded fall harvest type. Well filled pods are slim and average 5 in/13 cm in length with 8-10 dark green, high sugar peas per pod. Vines average 30 in/76 cm. Sow mid August for fall crops. Good resistance to Fusarium. AAS Winner. **pvp**

### GARDEN PEA DISEASES

**W** - Common Wilt Race 1  
**F** - Fusarium Race One  
**EMV** - Enation Mosaic Virus  
**YM** - Yellow Bean Mosaic  
**PLRV** - Pea Leaf Roll Virus  
**RR** - Root Rot  
**NW** - Near Wilt  
**PM** - Powdery Mildew  
**WP** - Western Pea Virus

NEW	GARDEN PEAS	2 oz 57 g	½ lb 227 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	100 lb @ per lb	500 lb @ per lb	1,000 lb @ per lb
	234 Lincoln	2.35	4.00	5.55	4.15	2.80	2.13	1.96	1.91
	234B Bolero	3.30	5.60	7.75	5.80	3.92	2.98	2.75	2.68
	236 Spring	3.30	5.60	7.75	5.80	3.92	2.98	2.75	2.68
	236B Jumpstart	2.35	4.00	5.55	4.15	2.80	2.13	1.96	1.91
	236C Sienna	2.35	4.00	5.55	4.15	2.80	2.13	1.96	1.91
	237A Utrillo	5.35	9.15	12.65	9.50	6.41	4.87	4.49	4.38
	237C Mr. Big	5.60	9.50	13.15	9.85	6.66	5.06	4.67	4.55
	237E Premium	2.35	4.00	5.55	4.15	2.80	2.13	1.96	1.91
	237F Jumbo	2.35	4.00	5.55	4.15	2.80	2.13	1.96	1.91
	237H Sabre	2.35	4.00	5.55	4.15	2.80	2.13	1.96	1.91
	237K Strike	2.35	4.00	5.55	4.15	2.80	2.13	1.96	1.91
	237M Legacy	2.35	4.00	5.55	4.15	2.80	2.13	1.96	1.91
	237N PLS 595	2.35	4.00	5.55	4.15	2.80	2.13	1.96	1.91
	238A Knight	2.35	4.00	5.55	4.15	2.80	2.13	1.96	1.91



Redstart

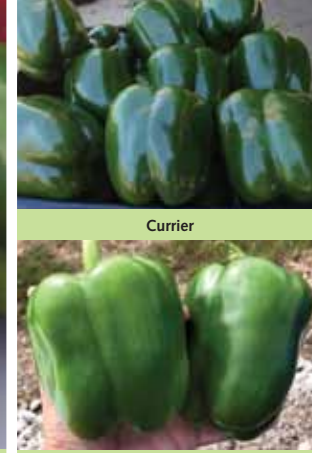


SV3964PB

Socrates



Archimedes



Currier

Skyhawk



Snackabelle Red

## HYBRID SWEET PEPPERS

**CULTURE:** oz/28 g over 4,000 seeds; .5 lb/227 g of seed for an acre of transplants. Sow in greenhouse benches or flats - from Feb. to Mar. 15th. Germinate in Jiffy Mix at 70°F/21°C soil temp. for 14 days, .25 in/6 mm deep (8 seeds per in/25 mm). Transplant seedlings into deep plastic cell trays or Speedling trays when true leaves are about 0.4 in/10 mm in diameter. Well developed root systems are important to the success of the young field transplant. Grow at 70°F/21°C, reduce moisture slightly to harden. Keep night temp. above 62°F/17°C. Never let plants wilt. Make sure all your potting soil and greenhouse areas are sterilized for bacterial disease. **TRANSPLANT** 12-18 in/30-46 cm apart in 30 in/76 cm rows - after June 5th. Early, cold June nights cause blossoms to drop, producing huge, bushy plants - without peppers. **BACTERIAL DISEASES:** All varieties are screened at 0/30,000 for Bacterial Spot or Georgia Treatment (Chlorine treated) to limit seed borne disease. The new X3R varieties are tolerant (but not immune) to races 1, 2 and 3 of Bacterial Spot. Be cautious of secondary bacterial infections from migratory insects and neighbours fields. Start spraying by late June and stay out of wet fields to limit spreading diseases.

**261F REDSTART** 65 days. Fantastic yields and taste. Dark green, 3.75 in/9.5 cm fruit ripen with loads of thick wall, 3-4 lobed red bells by Sept. The earliest red bell in North America. Exclusive.

**260F RED KNIGHT (X3R)** 72 days. A larger blocky version of King Arthur with BLS 1,2,3 tolerance.

**267V SOCRATES (X3R)** 72 days. Nice blocky, thick walled, square fruit with BLS 1,2,3 tolerance.

**266J ALLIANCE** 74 days. Extra large, 3-4 lobed 4.5 in/11 cm square fruit have thick walls, smooth skin. Upright plants are tolerant to BLS 1,2,3 and 5; PVY.

**257C CURRIER** 74 days. Extra large, blocky dark green to red 4.5 in/11 cm square four lobed smooth high quality fruit. High tolerance to BLS 1,2,3; TMV; PPMV; PPYMV; PVY 0,1,2 plus IR to CMV and Phy RR.

**NEW 255U SKYHAWK** Early maturing smooth, attractive jumbo sized fruit with a perfect blocky shape and mid-green color. High yields with tolerance to BLS 1-10.

**262Y PLAYMAKER (X10R®)** 75 days. The first commercial variety with intermediate tolerance to Bacterial Leaf Spot races 0-10 and Phytophthora Blight. It has dark, green Anthocyaninless fruits and produces a heavy set of high quality large fruit. High yield potential with management practices that are very similar to Aristotle.

**267T ARISTOTLE (X3R)** 75 days. 4.5x4.5 in/11x11 cm uniform jumbo fruit ripen evenly from dark green to red. Tolerant to BLS 1,2,3; PVY; TMV.

**267Y KARISMA** 75 days. Large, blocky 4.5x4 in/11x10 cm, 4 lobed fancy fruit, sets continuously on medium size strong plants. Smooth, dark green skin. Tolerant to BLS 1,2,3; PVY 0,1,2; TMV; PMV and some tolerance to CMV.

**254K PALADIN** 75 days. Large deep blocky green to red bell. Tolerance to Phytophthora, TMV and ToMV.

**254U TOMCAT** 75 days. Classy, extra large 4.5 in/11 cm square bell. Concentrated sets of 4 lobed, thick walled, dark green fruit mature to a nice dark red. Tolerant to BLS 1,2,3,4,5; TMV and Tobacco Etch.

**266G REVOLUTION** 75 days. Uniform, extra large 4.5x4.5 in/11x11 cm dark green fruit matures to dark red. Very firm bell with tolerant to BLS 1,2,3,5. Intermediate tolerance to CMV and Phytophthora.

**267Z ARCHIMEDES** 76 days. Blocky 4x4.5 in/10x11 cm, 3-4 lobed, green to red bell. Anthocyaninless (no streaks) fruit. Tolerant to BLS 1,2,3; PVY and some Phytophthora. For untreated seed, order **UT267Z**.

**262W TURNPIKE** 75 days. Large green to red main season 4 lobed bell with strong disease tolerances to BLS 0-5 and 7-9 plus Phytophthora.

**NEW 255T SV3964PB (X4R)** 78 days. Large, high quality, firm, blocky dark green fruit with a strong plant habit. Adapted well for late season harvest. Excellent option for growers in the Northeast. Tolerance to CMV and BLS 0-4.

**267X PS09941819 (X5R)** 78 days. Large, blocky 4 lobed fruit ripen uniformly green to red. Fruit produces less "silvering skin" with increased tolerance to BLS.

## MINI BELLS & MINI CHEESES

**262S Orange You Sweet**  
**262U Yes To Yellow**

**262T Right On Red**

70 days. Mini Hungarian cheeses, flat round shape silver dollar size. Use for stuffing and pickling. Plant in gallon pots.

**NEW UT262Z SNACKABELLE RED** 70-75 days. Mini 2-2.25 in/5-6 cm sweet bell pepper. Rich, sweet flavor that's great for fresh eating green to red. Excellent for grilling and stuffing. Easy-out stem and seeds allows for quick cleaning. Superior resistance to BLS 1, 2, 3, 7, 8 and TMV. Untreated seed.

**262K TINKER BELL RED** 70 days. Bushy, mini sweet bell 24 in/60 cm plants are perfect for single gallon size bedding plant containers. Each plant can provide an average of 20-40 small, 1.75 in/4.5 cm, blocky fruit by early September.

NEW	HYBRID SWEET PEPPERS (M = 1,000 seeds)	# seeds per pkt	Pkt	250 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M
✓	UT262Z Snackabelle	25	6.50	40.75	90.52	79.79	72.93	60.49
	254K Paladin	25	5.50	39.80	73.29	69.10	64.91	53.55
	254U Tomcat	25	6.10	37.55	69.15	65.20	61.25	49.98
✓	255U Skyhawk	25	6.50	44.55	98.91	87.19	79.69	62.50
✓	255T SV3964PB (X4R)	25	6.50	58.95	130.87	115.37	105.44	83.82
	257C Currier	25	6.10	41.60	76.61	72.23	67.85	59.20
	260F Red Knight (X3R)	25	6.50	40.30	74.19	69.95	65.71	57.29
	261F Redstart	25	4.75	21.85	48.53	42.78	39.10	32.43
	262K Tinker Bell Red	25	6.35	51.95	115.37	101.70	92.96	79.29
	262S Orange You Sweet	25	6.10	35.40	78.58	69.27	63.31	54.00
	262T Right on Red	25	6.10	35.40	78.58	69.27	63.31	54.00
	262U Yes to Yellow	25	6.10	35.40	78.58	69.27	63.31	54.00
	262W Turnpike	25	6.35	58.20	107.25	101.12	94.99	82.82
	262Y Playmaker (X10R)	25	6.35	59.95	110.48	104.16	97.85	85.31
	266G Revolution	25	6.10	45.60	84.00	79.20	74.40	64.00
	266J Alliance	25	6.10	41.85	77.12	72.72	68.31	58.76
	267T Aristotle (X3R)		N/A	55.95	103.04	97.15	91.27	79.57
	267V Socrates (X3R)	25	6.10	46.20	85.12	80.26	75.39	65.73
	267X PS09941819 (X5R)	25	6.35	57.85	106.56	100.48	94.39	82.29
	267Y Karisma	25	6.35	49.75	91.61	86.38	81.14	70.14
	267Z Archimedes	25	6.35	50.90	113.07	88.42	83.06	72.42

HYBRID SWEET PEPPERS (M = 1,000 pellets)	5 M per M	25 M per M	100 M per M	PELLETED SEED (Min. Order 5 M)
P257C Currier	80.76	73.81	59.73	Please contact the Sales Dept for special orders
P262W Turnpike	113.99	104.19	87.91	
P267T Aristotle (X3R)	103.04	91.27	81.07	
P267Y Karisma	85.80	80.60	69.33	



Candy Cane



Delirio



Super Red Pimento



Sandpiper

**HYBRID COLORED BELLS**

**255L GLORIA** 70 days. A standard high quality butter yellow that remains firm at maturity. Upright strong plants provide leaf protection. Resistant to TMV.

**255F DOVE** 71 days. Large 5x4.75 in/13x12 cm productive fruit are very uniform with thick walls. Good leaf cover. Ripens pale green/cream/pale yellow/pale orange/red. Resistant to TMV.

**255D BLUE JAY** 73 days. Very productive and novel - ripens green/lilac/grape/pale orange/dark red. Fruit are quite blocky 4.5x4 in/11x10 cm. Resistant to TMV.

Prices of the above: Pkt (10 seeds) \$6.50; 100 seeds \$25.20; 500 seeds \$77.85; 1,000 seeds \$142.21; 5,000 seeds @ \$125.36; per M; 10,000 seeds @ \$119.30 per M; 50,000 seeds @ \$105.82 per M.

**267W EARLY SUNSATION (X3R)** 70 days. Early medium green 4.5 in/11 cm blocky fruit turn butter yellow. Resistant to BLS 1,2,3.

**255R ABAY** 72 days. Blocky yellow extra-large fancy fruit average 4.25 in/11 cm square, four lobed. Strong resistances to all 5 races of BLS.

**255Q TELESTAR** 73 days. Extra large green to red 4.5x4 in/11x10 cm blocky fruit with thick walls on a compact plant. Resistant to TMV; PVY P-O, 1.

**266Y MECATE** 75 days. Uniform, smooth, medium to large blocky fruit, matures green to yellow and does not turn orange. Resistant to BLS 1,2,3; TMV; PMMoV 1,2 and PepMoV.

**255N DELIRIO** 75 days. F1 hybrid. Excellent TSW tolerance. Blocky four lobe fruit average 4 in/11 cm, are dark green maturing to tangerine – orange.

**TAPERED BELLS, CHERRY & CHEESES**

**UT261T CANDY CANE** 60-65 days. F1 hybrid. An elongated bell-shaped pepper 3.5-4 in/9-10 cm long that ripens from green and white stripes to solid red. Thin walls and crispy texture make it perfect for eating at all stages of ripeness. Ideal for growing in-ground or in a container with or without support. AAS Winner. Untreated seed.

**267U YELLOW BELLE II** 70 days. O/P. Larger 4.75 in/12 cm square yellow bell fruit with thick flesh, four lobes. Ripens dark green to golden yellow by Sept. 1st. Exclusive.

**258 CALIFORNIA WONDER** 72 days. O/P. The standard early strain for northeastern bedding plant growers. Dark green to red bell.

**255S GOLDEN CAL WONDER** 75 days. O/P. Smooth, blocky, blunt ended 5x4 in/12x10 cm, four lobed, thick walled sweet fruit matures golden yellow. Continuous set.

**SWEET CHERRY TYPE**

**266K CHERRY PICK** 68 days. F1 hybrid. Small 1.25 in/3 cm green fruit ripen dark red. Resistant to Tobamo virus. Used for bedding plant sales.

**TAPERED & BELL SHAPED YELLOWS**

**267J JUMBO STUFF** 67 days. F1 hybrid. Tapered, blunt nosed bell provides a larger hybrid version of Super Stuff. Walls are very thick. Ripens green/yellow/orange/red. Pkt (25 seeds) \$3.25; 1/16 oz \$21.75; 1/4 oz \$51.05; oz \$169.15; 1/4 lb \$473.00; lb \$1,628.00.

**261S SANDPIPER** 73 days. F1 hybrid. Matures medium yellow to cream to red at full maturity. Uniform four lobed, slightly deep bell shape. Thick walls, firm, good shelf life, BLS 1,2,3 resistances.

**SWEET PIMENTO AND CHEESE TYPE**

**258A SUPER RED PIMENTO** 70 days. TMV resistant. Huge 5.25 in/13 cm wide, 3.25 in/8 cm deep fruit ripens green to red. Extra thick .5 in/1.3 cm sweet flesh.

**Order Online Now!**  
[www.StokeSeeds.com](http://www.StokeSeeds.com)

NEW	SWEET PEPPERS (55M - 60M seeds per lb)		# seeds per pkt	Pkt	½ oz 14 g	oz 28 g	¼ lb 113 g	½ lb 227 g	1 lb 454 g
	255S	Golden Cal Wonder	100	2.95	8.60	12.60	28.30		98.15
	258	California Wonder	100	2.70	10.25	15.75	35.10	64.35	105.30
	258A	Super Red Pimento	100	2.70	16.50	24.25	54.30	102.60	177.60
	267U	Yellow Belle II	100	2.70	22.70	33.30	74.65	141.10	244.20
	HYBRID SWEET PEPPERS (M = 1,000 seeds)		# seeds per pkt	Pkt	250 seeds	1,000 seeds	5 M per M	25 M per M	100M per M
	255N	Delirio	25	6.50	56.20	124.87	110.07	100.61	77.87
	255Q	Telestar	25	6.50	41.50	76.45	72.08	67.71	62.04
	255R	Abay	25	6.50	52.10	115.69	101.98	93.21	72.14
	261S	Sandpiper	25	6.50	54.50	121.01	106.67	97.50	76.81
	UT261T	Candy Cane	25	6.50	56.30	125.08	110.26	100.78	85.96
	266K	Cherry Pick	25	6.50	33.85	75.20	66.29	60.58	48.16
	266Y	Mecate	25	6.10	39.05	86.77	67.86	61.69	55.00
	267W	Early Sunsation (X3R)	25	6.10	39.55	72.84	68.68	64.52	56.25



Colored Bells



Golden Cal Wonder



California Wonder



Jumbo Stuff



Carmen



Takara



Mad Hatter



Cubanelle

### TAPERED ITALIAN TYPES

**262A SUPER SHEPHERD** 68 days. O/P. Popular open pollinated Italian Sweet type. Dark red 7.5 in/19 cm early fruit have very thick juicy flesh. High soluble sugars.

**UT261P CARMEN** 75 days. F1 hybrid. Replaces Naples with a slightly larger hybrid Super Shepherd type. Tapered fruit average 6.5 in/16.5 cm in length and 2.5 in/6 cm wide at the shoulder. High soluble sugar taste (brix) is better than red bell peppers. Upright bushy medium green plants. Medium green fruit ripen a deep carmine red. Use for plant sales, fresh market or roasting pepper sales. Untreated seed.

**262Q GIANT MARCONI** 68 days. F1 hybrid. Extra long 8x3 in/20x8 cm tapered dark green fruit turn red very early. High yields - used for grilling, roasting and fresh market sales. Resistant to TMV.

**262M MARCATO** 70 days. Jumbo F1 hybrid, 2-3 lobed horn shaped fruit are VERY sweet. Ripens green to blood red. Erect plants have good leaf cover. Resistant to PVY0,1; TMV and PMMoV1,2.

**259A GIANT SZEGEDI** 70 days. O/P. Large top shaped, pendant, fruit 4.25x2.75 in/10.5x6.8 cm.

### SWEET BANANA TYPES

**262R SWEET ARROW** 62 days. F1 hybrid. Longer, earlier, creamier yellow. 8.5x2 in/22x5 cm.

**262P SUPERETTE SWEET** 60 days. F1 hybrid. Bright yellow fruit 8.5x2 in/22x5 cm large and long.

**253H SWEET SAVANNAH** 60 days. F1 hybrid. Straighter, pendant 9 in/23 cm yellow banana for processing.

**253S SOPRON** 70 days. F1 hybrid. Long slim, 8 in/20 cm tapered yellow sweet Hungarian on medium, upright strong plants with BLS 1, 2, 3. Excellent yields.

**262H KEY WEST (X3R)** 70 days. F1 hybrid. Long lime green cubanelle matures red. Resistant to BLS-1,2,3.

**253 SWEET BANANA (Yellow Hungarian)** 75 days. Tapered 6 in/15 cm fruit for bedding plants. O/P

**252A CUBANELLE** 68 days. Smooth, lime green 6 in/15 cm tapered fruit with blunt tips. O/P

### HYBRID SEMI HOTS

**268D TAKARA** 60 days. Early and prolific Shishito type pepper with small fruit and a mild but rich flavor. Compact plant with spreading habit and short internodes, Matures bright green to red, elongated fruit.

**263R RIO DE ORO** 65 days. Best large gold to red Santa Fe type 3.5x2 in/9x5 cm. TMV resistant. (700sc)

**254X DULCE** 70 days. Pungency (scoville) is almost zero. Dark green Mitla shaped fruit mature red. Developed for jalapeno flavor in milder salsas. Thick fruit average 3.25x1.25 in/8.5x3 cm. PVY resistant. (25sc)

**UT261U MAD HATTER** 85-90 days. Bishops Crown Type. A unique flat-disc shaped pepper with wings or lobes that ripens green to red and emits a delicate floral scent. This crunchy/crisp pepper has a deliciously sweet flavor that intensifies as it matures and only occasionally express a mild heat near the seeds. A vigorous and robust plant that is easy to grow and high yielding. Staking needed. AAS Winner. Untreated seed. (25sc)

### SALSA HOTS - OPEN POLLINATED

**266 HUNGARIAN YELLOW WAX HOT** 60 days. 6-6.5 in/15-17 cm in length. Yellow tapered fruit ripen green/yellow/red. Medium Hot. (2000sc)

**265B HOT PORTUGAL** 64 days. Fiery hot, 6 in/15 cm long, tapered, glossy scarlet fruit. (5000sc)

**264T CHILE GRANDÉ** 60 days. Tapered chili. 3 in/8 cm long, smooth fruit. Exclusive. (5000sc)

**264 CRIMSON HOT** 60 days. Early Ancho waxy crimson, 6.5 in/17 cm triangular fruit. (2000sc)

**265C RING OF FIRE** 60 days. An early, short, smooth, Cayenne type. 4 in/10 cm long. Exclusive. (6000sc)

**264A LONG RED CAYENNE** 75 days. Thin tapered hot standard, 5.75 in/14 cm curved fruit. (4000sc)

**264B JALAPENO M** 70 days. Dark green, 3.5 in/9 cm long, bullet shaped fruit mature red. (6000sc)



Ring of Fire

**4 Easy Easy Ways To Order!**  
Please see page 1 for Details.

NEW	SWEET PEPPERS (55M - 60M seeds per lb)		# seeds per pkt	Pkt					
					½ oz 14 g	oz 28 g	¼ lb 113 g	½ lb 227 g	1 lb 454 g
	259A	Giant Szegedi O/P	100	2.70	17.00	25.00	56.00	105.80	183.15
	262A	Super Shepherd O/P	100	2.70	11.30	16.55	37.10	70.10	121.35
		HYBRID SWEET PEPPERS (M = 1,000 seeds)	# seeds per pkt	Pkt					
					250 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M
	UT261P	Carmen	25	6.50	43.35	96.32	84.91	77.61	64.37
	262M	Marcato	25	6.50	43.80	80.70	76.09	71.48	61.82
	262Q	Giant Marconi	25	6.35	26.15	58.04	51.16	46.76	37.17

NEW	SWEET PEPPERS Bananas & Cubanelles		# seeds per pkt	Pkt					
					oz 28 g	¼ lb 113 g	lb. 454 g		
	252A	Cubanelle O/P	100	2.70	12.30	27.60	90.30		
	253	Sweet Banana O/P	100	2.70	10.00	22.40	73.25		
		BANANA & CUBANELLE HYBRIDS (M = 1,000 seeds)	# seeds per pkt	Pkt					
					250 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M
	253H	Sweet Savannah	25	5.35	19.00	42.20	37.20	34.00	28.20
	262H	Key West (X3R)	25	5.85	48.20	107.05	94.37	86.25	68.56
	262P	Superette Sweet	25	4.50	19.00	42.20	37.20	34.00	28.20
	262R	Sweet Arrow	25	4.50	14.25	31.65	27.90	25.50	21.15
	253S	Sopron	25	6.50	37.25	82.78	72.98	66.70	53.02

NEW	HYBRID HOT PEPPERS (M = 1,000 seeds)		Scoville Rating	# seeds per pkt	Pkt					
						250 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M
	254X	Dulce	25	25	6.50	28.00	60.00	54.85	52.00	48.75
	UT261U	Mad Hatter	25	25	6.50	66.70	148.12	130.57	119.34	101.79
	263R	Rio de Oro	700	25	6.50	42.65	94.75	83.52	76.34	63.31
	268D	Takara	25	25	6.50	39.10	86.85	76.56	69.97	58.04

		HOT PEPPERS	Scoville Rating	Pkt						
					1/16 oz 2 g	1/4 oz 7 g	½ oz 14 g	oz 28 g	¼ lb 113 g	lb 454 g
	266	Hungarian Yellow Wax Hot	2000	3.25			9.65	14.15	31.70	103.60
	264	Crimson Hot	2000	2.95			16.50	24.25	54.30	177.60
	264A	Long Red Cayenne	4000	2.70			5.25	7.65	17.20	56.25
	264B	Jalapeno M	6000	2.70			8.25	12.10	27.15	88.80
	264T	Chile Grandé	5000	2.70			16.50	24.25	54.30	177.60
	265B	Hot Portugal	5000	2.70			13.75	20.20	45.25	148.00
	265C	Ring of Fire	6000	2.70			15.80	23.20	52.05	170.20



Primero Red



Crackle



USAP 15293



Charger



SV5232HY



Dante



El Senor

### HOT HABANERO TYPES

**NEW** **UT263E PRIMERO RED** 80 days. The earliest ripening habanero on the market! Huge yields of 3x 1.5 in/8x4 cm rich flavored peppers that are larger than the typical habaneros and have one-third the heat. Perfect for home owners' fresh salsa and cooking. Untreated seed.

**263A REY PAKAL** 84 days. F1 hybrid. Fruit size is slightly larger 2.5x1.5 in/8x4 cm and super hot (200,000sc) but are 2 weeks earlier than O/Ps.

**263H HABANERO ORANGE** 95 days. 36 in/90 cm plants, tapered lantern shaped 1-1.5 in/2.5-4 cm pods. Wrinkled light-green flesh ripens to golden-orange. (200,000sc).

**265K KABAL** 90 days. F1 hybrid. This typically shaped 1.5-2 in/4-5 cm orange Habanero grows on a vigorous plant, gives a continuous fruit set throughout harvest. High yield potential. (300,000sc)

### FRESNO HOTS

**265H SV5232HY** 75 days. This Flaming Flare brand 3.5 in/9 cm long Fresno type pepper is a glossy red, triangular shaped fruit grown on vigorous plants. Can be picked green, but grow hotter as they ripen. Disease resistant. Great for chili sauces. (500-1000sc)

### ANAHEIM HOTS

**NEW** **265N CHARGER** Main season variety with an erect vigorous plant and excellent foliage cover. Smooth 7.5x1.5 in/19x3.8 cm two lobed fruit with thick flesh that matures from green to brilliant red. Resistant to TSWV. (2000-2500sc)

### CUBANELLE HOTS

**NEW** **265P BAHAMA GOLD** Main season cubanelle with high yields of large to extra-large smooth, long tapered fruit. Narrow shoulder cavity and excellent quality. Tolerant to BLS 0-3, 7, 8.

### FINGER HOTS

**265L CRACKLE** 60-70 days F1 hybrid. This Finger-hot type is dark glossy green, uniform, conical-pointed fruit is 4-5 in/10-13 cm long. Sturdy mid compact plant. Excellent yield potential. Suited for fresh eating or drying. (1500-3000sc)

### BANANA HOTS

**264N INFERNO** 65 days. F1 hybrid. A productive hot Banana. Sloping shoulders, medium green, slim tapered smooth 8 in/20 cm fruit. Ripens yellow/red. (4000sc)

**264S SUPER HUNGARIAN HOT** 58 days. F1 hybrid. Extra early, 8 in/20 cm tapered Banana. Ripens light green/yellow/red. (6000sc)

### CAYENNE HOTS

**266R ARAPAHO** 65 days. F1 hybrid. High yields of Cayenne fruit on compact plants. Similar to O/P cayennes. (4000sc)

**NEW** **265Q EL SENOR** 70 days. Pungent with a great aromatic flavor and taste. Fruit are 10x1.5 in/25x4 cm with a crinkled top and long cylindrical shape. Turns from medium green to bright red.

**266A MESILLA** 70 days. Big Cayenne 10x1.5 in/25x4 cm wrinkled, slim, light green fruit mature red. Resistant to TMV; TEV and PVY. Med. Hot (4000sc).

### ANCHO & CHERRY HOTS

**NEW** **265S DON MATIAS** Dark green, tapered 6x4 in/16x10 cm, two lobed Mexican type. Vigorous plant and root allows this hybrid to adapt to many regions. Produces high quality large fruit with high yield potential.

**265T TIME BOMB** 65 days. Dark green to bright red cherry 1.5 in/4 cm fruit, globe shaped and slightly less pungent than Cherry Bomb. (1100sc)

### CHILI HOTS

**UT265G GHOST CHILE** 100 days. Certified as one of the "World's Hottest Peppers" with a Scoville heat rate at over 1,000,000 units. Handle seeds and fruits with extreme caution (gloves if possible). Untreated Seed.

### JALAPENO & SERRANO HOTS

**NEW** **263F DANTE** Early maturing large Jalapeno, 4x1.5 in/10x3.8 cm smooth fruit with an attractive deep green color. High performance plant that holds up in almost any environment and offers early continuous set. Tolerance BLS 1,2,3 and TMV.

**265J FERROZ** 70-75 days. This large Serrano type pepper has shiny dark green fruit, exceptional hot flavor and grows on a vigorous plant in concentrated sets. High yield potential. High resistance to Bacterial Spot 1,2,3.

**262V UNIQUE** 70 days. F1 hybrid. Extra long Serrano-like shape. Dark green 2 oz/50 g slender blunt nose, fruit mature red. For slicing, processing, fresh market. Resistant to TMV, CMV, Phytophthora, Root Rot. (1200sc)

**265M MAJOR LEAGUE** 70 days. Extra long cylindrical 3.75x1.25 in/10x3 cm dark green to red Jalapeno for processing or nacho slices. PVY and TMV resistant. (1000sc)

**266U TAJIN** 68 days. 4x1.5 in/10x4 cm medium dark green Jalapeno. Concentrated sets. (8000sc)

**266N EL JEFE** 70 days. High quality, dark green Jalapeno fruit has thick wall. Resistant to BLS 1,2,3 and PVY. Matures dark green to red. (5000sc)

NEW	HYBRID HOT PEPPERS (M = 1,000 seeds)	Scoville Rating	# seeds per pkt	Pkt	250 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M
	262V Unique	1200	25	4.50	47.15	104.74	92.33	84.39	66.19
	263A Rey Pakal	200,000	25	6.50	46.30	102.86	90.68	82.88	68.74
✓	UT263E Primero Red	-	25	6.50	54.85	121.85	107.42	98.18	81.43
✓	263F Dante	-	25	4.50	35.20	78.18	68.91	62.99	49.40
	264N Inferno	4000	25	6.50	34.15	75.88	66.89	61.14	48.60
	UT265G Ghost Chile	1,000,000	25	6.50	57.00	126.60	111.60	102.00	96.00
	265H SV5232HY	500-1000	25	5.85	37.45	83.22	73.36	67.05	53.30
	265J Feroz	-	25	5.85	47.30	105.08	92.63	84.66	66.40
	265K Kabal	300,000	25	5.85	46.30	102.86	90.68	82.88	68.74
	265L Crackle	1500-3000	25	5.35	26.05	57.90	51.04	46.65	37.00
	265M Major League	1000	25	6.50	28.50	69.00	61.00	55.00	49.00
✓	265N Charger	2000-2500	25	5.85	49.55	109.99	96.96	88.62	73.50
✓	265P Bahama Gold	-	25	4.50	29.60	65.68	57.90	52.92	43.89
✓	265Q El Senor	-	25	4.50	29.05	64.57	56.92	52.02	43.15
✓	265S Don Matias	-	25	4.50	32.75	72.78	64.15	58.63	48.63
	265T Time Bomb	1100	25	6.50	43.75	97.21	85.69	78.32	62.26
	266A Mesilla	4000	25	6.50	37.65	83.58	73.68	67.34	53.53
	266N El Jefe	5000	25	6.15	24.20	53.76	47.39	43.32	34.50
	266R Arapaho	4000	25	6.50	36.30	80.64	71.09	64.97	50.50
	266U Tajin	8000	25	6.35	26.25	58.30	45.59	41.45	40.89
HOT PEPPERS		Scoville Rating	Pkt	1/16 oz 2 g	1/4 oz 7 g	1/2 oz 14 g	oz 28 g	1/4 lb 113 g	lb 454 g
	264S Super Hungarian Hot (Hyb)	6000	5.75	18.80	44.10	81.95	146.05	408.50	1406.00
	263H Habanero Orange	200,000	3.20			20.95	30.75	68.90	225.35



Cronus



Big Moose



Gladiator



Aladdin

## PUMPKINS

**CULTURE:** Seed size varies, regular hybrids and O/P's average 150-200 seeds per oz/28 gr; 3 lbs/1 kg per acre. Small seeded pumpkins average 10 seeds per pkt; 400 seeds per oz/28 g; 1.5 lbs/.5 kg per acre. Large seeded types (Atlantic Giant, Prizewinner) average 5 seeds per pkt; 60-90 seeds per oz/28 g; 5 lbs/2 kg per acre. Sizes and weights are based on our trial reports only, and may vary according to your area and weather conditions. Sow May or early June to harvest before frost. **NOTE:** If you have wet, cold, clay, loam soil - germinating ANY pumpkin or squash seed can be a frustrating experience. If you face these conditions, make sure the seed is treated with a fungicide - and wait until the soil warms up in June. **"F" prefixed seed contains the class ingredient neonicotinoids.**

**DIRECT SEEDING:** Sow in late spring after the danger of frost and when the soil begins to warm up. If you use treated seeds - minimum soil temperature is about 62 F/17 C and slightly higher for untreated seeds 70 F/21 C. Keep rows 6 ft/2 m apart for smaller fruit and 12 ft/4 m apart for larger pumpkins. Plant seeds .5 in/1.25 cm deep. Thin to 1 plant. **TRANSPLANT:** Many smaller growers prefer transplants in short season areas. This may cause a shift in harvest date of 15 days earlier. Harvest date of 15 days earlier in the fall. After frost danger, move transplants outdoors, to harden them off for 4-8 days. Do not cultivate too deep - it will disturb fragile root systems. **STORAGE:** Store pumpkins @ 50-55 F/10-13 C and less than 70% humidity with proper air circulation.

### HYBRID GIANT & LARGE PUMPKINS

**F249F PRIZEWINNER** 120 days. F1 hybrid. Reddish orange fruit mature up to 100 lbs/45 kg.

**F247W CRONUS** 100 days. F1 hybrid. Extra large 25-40 lbs/11-18 kg dark orange, blocky-round pumpkin that has a large dark green, firmly attached handle, well defined ribs and a high yield potential. Intermediate resistance to PM, vigorous plant. Use 12 ft/3.5 m wide rows and 3-5 ft/1-1.5 m spacing between plants.

### OPEN POLLINATED GIANT & LARGE PUMPKINS

**249C DILL'S ATLANTIC GIANT** 120 days. O/P For World Record Pumpkin contests. Seed from line that produced 600 lb/272 kg champions. 90 seeds per oz.

**246A BIG MOOSE** 110 days. O/P Bright orange 50-125 lbs/22-57 kg. A smaller version of the Prizewinner type with slight ribs and a vigorous vine. Designed for roadside sales and fairs.

**249U HOWDEN BIGGIE** 115 days. O/P. About 30% larger than Howden. 35-50 lb/16-23 kg, deep round shape. Patented Variety.

### HYBRID MEDIUM SIZED PUMPKINS

**F248J ALADDIN** 100 days. Tall shape, 20-30 lbs/9-13.5 kg with large firm handles. Intermediate PM resistance.

**F247Z RHEA** 100 days. Dark orange flat/round 20-30 lbs/9-13.5 kg widely adapted, vine pumpkin with well defined ribs, firm dark green large handle. Use for roadside and shipping sales. Intermediate PM resistance.

**F247Q APOLLO** 100 days. F1 Hybrid. Medium 14x12 in/36x30 cm dark orange 18-32 lb/8-14.5 kg globe shaped pumpkin. Excellent handles, medium ribbing. Intermediate PM resistance.

**F246J KRATOS** 100 days. Medium size 14 in/36 cm, 25-30 lb/11-13.5 kg rounded dark orange ridged pumpkins. Huge thick dark green handles are well attached. Intermediate PM resistance.

**F248S GLADIATOR** 100 days. Excellent color, good yields, vigorous plant. Fruit average 15-25 lb/7-11 kg. Strong handles. Patented Variety. Intermediate PM resistance.

**F246K ARES** 115 days. Unique 16x18 in/40.5x45 cm tall uniform size, 22-28 lb/10-12 kg medium dark orange pumpkins have very large thick, dark green handles firmly attached. Intermediate PM resistance.

NEW	HYBRID PUMPKIN (M = 1,000 seeds)	# seeds per pkt	Pkt	500 seeds	1,000 seeds	5 M per M	30 M per M	60 M per M	90 M per M
	F246J Kratos (PM)	10	4.95	98.90	126.56	115.06	109.30	104.99	95.14
	F247W Cronus (PM)	10	4.95	98.35	125.88	114.44	108.72	104.43	94.63
	F247Z Rhea (PM)	10	4.95	95.90	122.72	111.57	105.99	101.81	92.23
	F247Q Apollo (PM)	10	4.95	96.05	122.93	111.75	106.16	101.97	92.39
	249U Howden Biggie (PM) O/P	10	4.95	77.45	99.11	90.10	85.59	82.21	75.08
	F248J Aladdin (PM)	10	4.95	94.30	120.70	109.73	104.24	100.13	90.70
	F246K Ares (PM)	10	4.95	98.15	125.65	114.22	108.51	104.23	94.45
	F248S Gladiator (PM)	10	4.95	95.70	122.48	111.34	105.78	101.60	92.05
	PUMPKIN (M=1,000 seeds)	# seeds per pkt	Pkt	100 seeds	500 seeds	1,000 seeds	5 M per M	25 M per M	
	246A Big Moose O/P	5	9.60	57.00	189.00	270.00	226.50	217.50	
	F249F Prizewinner	5	9.60	108.75	360.55	560.85	457.84	386.69	

### PUMPKIN SIZE COMPARISONS





Jack of All Trades



Connecticut Field



Specter



Cannon Ball



Little Giant

**HYBRID MEDIUM SIZED PUMPKINS**

**F246L ZEUS** 110 days. F1 hybrid. Medium sized 11-12 in/28-30 cm round, dark orange pumpkins average 16-20 lbs/7.25-9 kg in weight, have large dark green firmly attached handles. Resistant to PM and ZYMV.

**F249Q MAGICWAND** 100 days. F1 hybrid. Very uniform, 15-24 lb/6.5-11 kg dark orange pumpkin. Ribbed flat, round shape. Large firm handle. Intermediate PM resistance.

**F249S MAGIC LANTERN** 100 days. Popular dark orange, 16-24 lbs/7-11 kg. Intermediate PM resistance.

**249L JACK OF ALL TRADES** 95 days. F1 hybrid. Semi-bush, VERY uniform, 15-20 lbs/7-9 kg, bright orange, shallow rib storage/shipping type, large dark green stem.

**F246Q SECRETARIAT** 105 days. A large handled, dark orange, slightly flat pumpkin with a medium vine. Weighing 15 lb/7 kg it has well defined ribs and a high yield potential. Use for roadside or shipping sales. Resistant to Powdery Mildew.

**F246M ORANGE SUNRISE** 88 days. Early maturing 12-18 lb/5.5-8 kg precocious pumpkin. Medium sized 12 in/30 cm with good deep orange color and nice round shape. Intermediate resistance to Powdery Mildew.

**OPEN POLLINATED MEDIUM PUMPKINS**

**247H HOWDEN** 115 days. O/P. Resistant to Black Rot, fruit are uniform 25 lbs/11 kg fruit has hard, ridged orange skin. Deep round shape. Solid thick flesh, stores well.

**249 CONNECTICUT FIELD** 115 days. O/P. General purpose or Halloween pumpkin. Hard, smooth, somewhat ribbed, deep orange. 15-25 lbs/7-11 kg.

**OPEN POLLINATED SMALL PUMPKINS**

**248 SMALL SUGAR** 115 days. O/P. Convenient size for household use, averages 7 lbs/3 kg each. Deep orange flesh. Perfect pie pumpkin.

**HYBRID SMALL SIZED PUMPKINS**

**F248X FIELD TRIP** 95 days. The slim long green handle is distinctive and strong. Weighing only 5-7 lb/2.3-3 kg, it is easily carried from the pumpkin patch. Uniform ribbed, flat shape, deep orange color. Resistance: Powdery Mildew

**247V HIJINKS** 90 days. Very uniform blocky shape with medium deep ribbing. Fruit are bright orange, average 7 lbs/3 kg, and have very long dark green handles.

**F248G MYSTIC PLUS** 90 days. Medium size 5-7 lb/2.3-3 kg dark orange fruit. Thick handles will not break.

**HYBRID SMALL SIZED PUMPKINS**

**F248V CANNON BALL** 90 days. Round 5 lb/2-3 kg dark orange thick handled fruit. Resistance: Powdery Mildew

**F247Y JACK SPRAT** 95 day. F1 hybrid. Medium dark orange 3-4 lbs/1-2 kg, 6x6 in/15x15 cm uniform fruit with rounded shoulders, slight ribs, long handles.

**F246Z MISCHIEF** 86 days. High yields of 6 in/15 cm; 3 lb/1.5 kg dark orange fruit with dark green handles. Semi-vine plants have some PM resistance. Perfect for carving, painting, chainstore or roadside stands.

**F247R LITTLE GIANT** 95 days. Small 2-4 lbs/1-2 kg round 5-6 in/13-15 cm small pie type, dark orange color, long green handles. Semi-vine plant habit is perfect for small gardens and commercial cultivating. High yield. Ideal for school field tours. Patented Variety.

**WHITE PUMPKINS**

**248U NEW MOON** 85 days. F1 hybrid. Large round 16 in/40 cm; 35-75 lbs/16-35 kg white skin, white flesh type. Vines are vigorous. Pkt. (5 seeds) \$9.60; 100 seeds \$47.00; 500 seeds \$155.75; 1,000 seeds \$242.31; 5,000 seeds @ \$217.59 per M; 25,000 seeds @ \$203.99 per M.

**F246S SPECTER** 95 days. F1 hybrid. Medium round 9-12 in/23-30.5 cm white pumpkin with large, firmly attached handles. Uniform shape and size and semi-hard shell that keeps color longer. High yield potential. Intermediate PM resistance.

**F246P CRYSTAL STAR** 100 days. F1 hybrid. Pure white 25-35 lb/11-16 kg smooth white nice round pumpkin shape, 12 in/30 cm wide is perfect for decorating or painting. This variety remains white until frost and does not take on blue or yellow tones as it becomes mature.

**248D LUMINA** 100 days. F1 hybrid. Medium size white. Shape and size vary from globe to flat globe and 8-10 in/20-25 cm, 10-15 lbs/4.5-6.5 kg. Flesh is bright orange. No PM tolerance. Pkt. (10 seeds) \$3.25; oz. \$24.45; 1/4 lb. \$54.45; lb. \$154.00; 5 lb. @ \$126.85 per lb; 25 lb. @ \$108.53 per lb.

**F246H BLANCO** 105 days. Small sized PM resistant 4-6 lb/2-2.75 kg white with uniform flat globe shape, medium ribs and long slim handle that is well attached. Vines are medium length. It has some moderate tolerance to color change due to September sunlight or frost. Harvest early and store inside for best Halloween color.

**F246C SNOWBALL** 90 days. High yielding kids size small 1-2 lbs/0.5-1 kg smooth round white pumpkin with a dark green stem. Has ability to hold its white color under stress. Intermediate PM resistance.

NEW	PUMPKIN (M = 1,000 seeds)	# seeds per pkt	Pkt	500 seeds	1,000 seeds	5 M per M	30 M per M	60 M per M	90 M per M
	F246C Snowball	10	3.75	78.20	109.02	80.50	75.90	69.46	67.00
	F246H Blanco	10	4.95	70.45	90.16	81.97	77.87	74.80	71.21
✓	F246S Specter	5	4.95	99.95	127.92	116.29	110.47	106.11	96.17
	F246L Zeus (PM)	10	4.95	98.30	125.84	114.40	108.68	104.39	94.59
	F246M Orange Sunrise (PM)	10	4.95	116.90	149.65	136.05	129.25	124.14	112.63
	F246Q Secretariat (PM)	10	4.95	70.35	90.06	81.87	77.78	74.71	72.66
	F247M Crunchkin Hybrid	10	4.95	84.00	107.52	97.74	92.86	89.19	80.72
	F247R Little Giant Hybrid	10	4.95	83.40	106.74	97.04	92.19	88.55	80.14
	247V Hijinks Hybrid	10	4.70	82.75	115.36	85.18	80.31	73.50	64.67
	F247Y Jack Sprat (PM) Hybrid	10	4.95	73.35	93.86	85.32	81.06	77.86	69.41
	F246Z Mischief	10	4.95			104.03	98.83	94.93	85.95
	F248G Mystic Plus Hybrid	10	4.95			90.37	85.85	82.46	74.57
	F248H L'il Pump-ke-mon Hybrid	10	4.95			97.04	92.19	88.55	80.13
	F248V Cannon Ball (PM) Hybrid	10	4.95			97.71	92.83	89.16	75.36
	F248W Apprentice	10	4.95			102.45	97.33	93.48	84.63
	F248X Field Trip (PM) Hybrid	10	4.95			98.32	93.40	89.72	81.19
	F249Q Magic Wand (PM)	10	4.95			105.63	100.35	96.39	87.31
	F249S Magic Lantern (PM)	10	4.95			89.20	84.74	81.40	73.60

Due to supplier restrictions these varieties are not available in NY, PA, ME, MA, NH, VT, RI, CT

NEW	PUMPKIN	# seeds per pkt	Pkt	1/2 oz	oz	1/4 lb	lb	5 lb @ per lb	25 lb @ per lb	
	247H Howden O/P	25	2.75		6.00	13.35	37.80	31.15	26.64	
	248 Small Sugar O/P	25	2.75		5.80	12.55	27.25	19.75	16.31	
	249 Connecticut Field O/P	25	2.75		5.80	12.55	27.25	20.80	16.31	
	249C Dill's Atlantic Giant	10	5.75	14.90	20.65	46.05	130.20	107.25	95.48	
	PUMPKIN (M=1,000 seeds)	# seeds per pkt	Pkt	100 seeds	500 seeds	1,000 seeds	5 M per M	25 M per M	50 M per M	100 M per M
	F246P Crystal Star Hybrid	5	9.60	58.95	222.80	310.59	229.34	216.23	197.89	172.85
	249L Jack of All Trades Hybrid	25	3.75		43.90	61.19	45.19	42.60	38.99	37.44



HSC 151



Cinderella's Carriage



Sanchez



Martinhouse Bottle



Lil' Pump-Ke-Mon



Fairytale



Speckled Swan



Galaxy of Stars



Small Gourds Mix

## ORNAMENTAL & NOVELTY PUMPKINS

**UT246E CINDERELLA'S CARRIAGE** 100 days. F1 hybrid. Large flat/round 18-20 lb/8-9 kg average 15 in/38 cm in, are red/orange in color and have a nice nut flavored flesh. Plants have some PM resistance and spread 15 in/38 cm and average about 5 fruit per plant. AAS Winner. Untreated Seed.

**248L FAIRYTALE** 110 days. O/P. Unique oak color at maturity - looks like a wood carving! Large, flat 15x6 in/38x 15 cm, 15 lbs/7 kg. Stores for 3 months.

**247U ROUGE VIF D'ETEMPES** 110 days. O/P. Flat shape, scarlet skin, 10-15 lbs/4.6-7 kg for pies.

**F247M CRUNCHKIN** 85 days. F1 hybrid. Excellent, early ornamental hard shell type with improved shipping durability and extended storage. Trim long stems for easier packing. Prices on page 45.

**F248H LIL' PUMP-KE-MON** 90 days. F1 hybrid. 4.5 in/11 cm unique, white mini with orange stripes. 1-2 lb/454-907 g. Resistance: Phytophthora. Prices on page 45.

**248C BABY BOO** 95 days. Creamy white version of Jack Be Little. Fruit average 2-3 in/5-8 cm wide, white flesh. Approx. 400 seeds per oz/28 g. O/P. Patented Variety. Pkt. (10 seeds) \$2.70; 1/2 oz \$11.15; oz \$15.45; 1/4 lb \$34.45; lb \$97.45; 5 lb. @ \$80.25 per lb; 25 lb @ \$68.67 per lb.

**248E JACK BE LITTLE** 95 days. Standard, dark mini orange (2 x 3 in/5 x 8 cm) distinct ribs. Susceptible to Summer Squash Mosaic. O/P. Pkt. (10 seeds) \$3.00; 1/2 oz \$8.30; oz \$11.50; 1/4 lb \$25.60; lb \$72.45; 5 lb @ \$59.70 per lb; 25 lb @ \$51.06 per lb.

**F248W APPRENTICE** 90 days. F1 hybrid. Very uniform mini 1 lb/454 g medium orange round hard shell fruit have small well attached dark green handles. Use for table decorations. Prices on page 45.

## HYBRID WARTED PUMPKINS

**F246R MINIWARTS** 110 days. This frighteningly warted variety is perfect for pumpkin patches and roadside stands. Orange 6x6 in/15.25x15.25 cm shell with green warts, strong handle and a very uniform shape and size. Some resistance to PM, ZYMV.

**F246D WARTY GOBLIN** 90 days. F1 hybrid. Warted hardshell type (hard to cut) but stores longer than regular varieties. Oval/round shape, 8-20 lb/3.5-9 kg has dark orange skin with lots of green warts, keeps color for several weeks after harvest, then turns yellow. Dark green handle, firmly attached. Some PM resistance. Use for local sales.

**246G SANCHEZ** 90 days. Small 4-6 lb/2-2.5 kg flat shaped, orange pumpkin with warts.

## EDIBLE SEEDED PUMPKINS

**F246F HSC 151** 96 days. F1 hybrid. Early, large uniform 9-14 lb/3.5-4.75 kg, yellow and green striped high yielding "naked seeded" type with excellent tasting seeds. Avoid irrigation just before harvest. Transplanting is recommended. Treated Seed.

## ORNAMENTAL GOURDS

**CULTURE:** Seeds size varies: small at 5,000-5,500 seeds per lb; large at 2,200-2,500 seeds per lb. Sow indoors Apr.15th; or outdoors June 10th, .25-.5 in/6-13 mm. deep depending on seed size. Space in rows or trellis vines on fence for straighter, cleaner fruit. Must be harvested a few days before first fall frost. In short season areas, commercial growers should use a row cover to extend the season and protect late maturing fruit from frost damage. Gourds are not edible.

### SMALL GOURDS

**952E Orange Ball** **952K Miniature Bottle**  
**952F White Egg** **952J Bicolor Pear**  
**952P Spoon** Small green/yellow ball with long handle  
**952Y Mini Red Turban**

Prices of above: Pkt. \$2.95; 1/4 oz. \$7.75; oz. \$14.35; 1/4 lb. \$37.40; lb. \$107.25; 5 lb. @ \$94.60 per lb.

**951K Koshare Yellow** Gold/dark blue-green.  
**951V Goblin Eggs Mix** A variety of colors and bicolors.  
**951Y Daisy Mix** Novel shapes and colors.

Prices of above 3: Pkt. (25 seeds) \$5.25; 250 seeds \$46.45; 1,000 seeds \$114.81; 5,000 seeds & over @ \$106.86 per M.

**951S Galaxy of Stars** F1 hybrid. Star shaped fruit in striped colors and patterns. Pkt. (25 seeds) \$6.15; 250 seeds \$48.15; 1,000 seeds \$118.97; 5,000 seeds & over \$110.73 per M.

**951G Autumn Wings Small** Unique 4 in/10 cm neck  
**951H Autumn Wings Medium** Unique 6 in/15 cm neck  
**951L Autumn Wings Large** 12 in/30 cm neck

Prices of above three: Pkt. (25 seeds) \$5.20; 1/4 oz. \$14.80; oz. \$27.55; 1/4 lb. \$71.65; lb. \$166.55; 5 lbs. @ \$159.15 per lb.

## LARGE GOURDS & MIXES

**951B Giant Bushel** Smooth round, 15 in/38 cm  
**951C Canteen** Wheel shape, 12 x 3 in/30 x 8 cm  
**951D Cuccuzi Italian or Snake** Long and edible  
**951E Speckled Swan** Fully matured huge 18 in/46 cm long with 8 in/20 cm base. Thin to one fruit.  
**951R Martinhouse Bottle** **951Q Blister**  
**952R Giant Bottle or Water Jug** Hourglass shape  
**952S Cave Man's Club** Smooth long handled club  
**952V Birdhouse** Water dipper or birdhouse  
**952W Large Turk's Turban** Large striped turban  
**952Z Long Handled Dipper** Hollow handle 10 in/25 cm ball.

**952 Large and Small Mix** 75% small/25% large  
**952A Large Gourd Mix** Formula blend  
**952B Small Gourds Mix** Formula blend of all types  
**952C Small Warted Hybrid Blend A** superb warted mix  
**952U Ultra Warted Mix** Elite blend. Bright colors only

Prices of the above: Pkt. \$2.95; 1/4 oz. \$7.75; oz. \$14.35; 1/4 lb. \$37.40; lb. \$107.25; 5 lb. @ \$94.60 per lb.

**951N Lunch Lady** 110 days. Many shapes, sizes and colors of large hardshell warted types from 5- 20 lbs/2-9 kg. Pkt. (25 seeds) \$5.20; 1/4 oz. \$12.00; oz. \$22.35; 1/4 lb. \$58.15; lb. \$135.10.



Miniwarts

NEW	PUMPKIN	# seeds per pkt	Pkt	1/2 oz	1/4 lb	lb	5 lb @ per lb	25 lb @ per lb		
	UT246E Cinderella's Carriage	10	5.75	14.45	44.55	150.00	114.00	96.00		
	<b>PUMPKIN (M=1,000 seeds)</b>	<b># seeds per pkt</b>	<b>Pkt</b>	<b>100 seeds</b>	<b>500 seeds</b>	<b>1,000 seeds</b>	<b>5 M per M</b>	<b>25 M per M</b>	<b>50 M per M</b>	<b>100 M per M</b>
	F246D Warty Goblin	5	9.60	38.25	144.55	201.52	148.80	140.30	128.40	112.63
	246G Sanchez	10	3.75		68.10	94.94	70.11	66.10	62.09	59.29
✓	F246F HSC 151	10	3.75		61.20	85.32	61.20	57.60	54.36	52.20
✓	F246R Miniwarts	5	9.60	32.30	107.15	166.66	149.65	140.30	128.40	123.29
	247U Rouge Vif d'Etempes O/P	10	3.75		80.70	112.50	83.07	78.32	71.68	68.83
	248L Fairytale O/P	10	3.75		68.35	95.26	70.34	66.32	60.69	58.28





Crunchy Royale



Cherry Belle



Roxanne



Red Jewel



American Purple Top



Sparkler



April Cross

## RADISH

Radishes are a quick growing, cool-season crop that provides a quality root shape and proper top length at growing temperatures of 50-60°F/10-18°C, during shorter day lengths. THE GROWERS CHOICE of variety and sowing date for his region, his spacing of seed and the supply of adequate moisture at the proper time will control the shape of the root and the length of the top! Globe shapes like Cherry Belle can be manipulated to produce rounder roots and longer tops in greenhouse conditions. When growth is checked by bad weather or grower mistakes with seeding, fertilizer, chemicals, or hot weather yields are forced under long daylength (15 hrs.) - plants will bolt to seed, tops will get long and roots will become misshapened, crack, rough, colorless, hot, pithy and unsaleable. Rounder roots and shorter tops are controlled by short or medium short days, cool harvest conditions and sandy soil pH of 6.5 to 6.8 or muck soils with a pH of 5.5 - 6.0. CELLO BAGS: We list various varieties for different purposes. Some will turn purple if they are packed in air-tight cello bags. Growers should carefully choose their variety for this use. Some varieties will bleed or lose color when washed, after stress. SIZED SEED: Commercial varieties are precision sized. CULTURE: A pkt. sows 40 ft/12 m of row; oz/28 g about 200 ft/61 m; 10-15 lbs/4.5-7 kg per acre @ 40,000 seeds per lb/454 g (approx. 10 oz per 1,000 ft). Sow early in the season, as soon as you can get on the land. Plant in rows 6-8 in/15-20 cm apart, .5 in/13 mm deep at 2 seeds per in/25 mm. Thin to 1.5 in/4 cm apart. Seed requires 5 days at 40-70°F/4-21°C to germ. Longer types like French Breakfast or White Icicle and the Asian types can be used for hot weather, long day, mid summer harvests when root types cannot be used.

**271C CHERRIETTE** 20 days. F1 hybrid. Bright cherry red, globe shaped roots are crisp, hold well, with nice uniformity and extra size. Medium tops. Recommended for shorter day length harvests (spring or fall).

**274U RED JEWEL** 22 days. F1 hybrid. Medium sized round red with excellent snow white interiors, thick skin and short 8 in/20 cm tops. Use for bunching, cellos and slicing. Intermediate resistances for Fusarium and DM.

**274H RED SATIN** 23 days. F1 hybrid. Medium tops - superior red colored, hard round roots - thick cuticle. Nice white interiors. Same shape as Cabernet. Resistant to Downy Mildew and Root Complex.

**274K FIREBALL** 24 days. F1 hybrid. Scarlet red globe shaped roots have intense color. Medium tops are taller than Cherriette. For spring or fall bunching.

**274D CRUNCHY ROYALE** 25 days. F1 hybrid. Bright red, excellent uniformity and quality. High pack-out rates during spring or fall harvests. Medium/tall tops for bunching or machine pulled cellos.

**274E RED CROWN** 27 days. F1 hybrid. Main season commercial type for machine harvests. Dark red round roots with thick skin and white interiors and short tops for bunching, cello bags. Great root disease package includes good resistance to Black Root; Rhizoctonia and intermediate resistances to DM and Fusarium Yellows.

**UT271A ROXANNE** 27 days. F1 hybrid. Great tasting radish with less bleeding (losing color) and pithiness even as it gets oversized. Stays firm and solid as it matures in the field as a commercial variety. Use for August-Sept harvests. Can also be grown in gallon containers. Creamy white interiors. Untreated Seed.

**274 CHERRY BELLE** 24 days. O/P. Excellent for bunching and cello packaging. Has a shorter top than Comet.

**273A CHAMPION** 20 days. O/P. Vigorous, large tops, radishes are bright red, round - silver dollar size. The standard large round type, used in spring or fall.



### 4 Easy Easy Ways To Order!

Please see page 1 for Details.

NEW	HYBRID RADISH (M = 1,000 seeds)	# seeds per pkt	Pkt	1,000 seeds	5 M per M	25 M per M	100 M per M	500 M per M	
	UT271A Roxanne	100	3.50	5.46	2.50	1.73	1.57	1.37	
	271C Cherriette	N/A	N/A	4.46	2.05	1.41	1.29	1.18	
	274D Crunchy Royale	N/A	N/A	4.46	2.05	1.41	1.29	1.18	
	274E Red Crown	N/A	N/A	4.92	2.26	1.56	1.42	1.10	
	274H Red Satin	N/A	N/A	4.72	2.16	1.50	1.36	1.24	
	274K Fireball	N/A	N/A	4.40	2.05	1.41	1.29	1.18	
	274U Red Jewel	N/A	N/A	4.72	2.16	1.50	1.36	1.05	
	278F April Cross	100	4.50	34.92	16.01	11.35	9.95	8.00	
	RADISH	# seeds per pkt	Pkt	oz	¼ lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	
	273A Champion	600	2.70	7.20	9.65	16.70	13.85	9.40	
	274 Cherry Belle	600	2.70	5.80	7.10	12.30	10.20	8.72	
	276 French Breakfast	600	2.15	3.10	4.15	7.20	5.95	5.43	
	277 Valentine	600	4.50	15.20	49.10	128.20	106.45	102.90	
	277B Sparkler	600	2.15	2.85	3.80	6.60	5.45	4.98	
	278C Minowase Summer Cross #3) Hyb.	100	4.05	24.35	74.40	199.90	174.35	159.77	
	280 White Icicle	600	3.20	5.40	7.25	12.60	10.45	9.50	
	282 Round Black Spanish	600	2.15	3.05	4.10	7.10	5.85		
	422D Everest Lo Bok Hybrid	100	3.00	18.85	64.25	154.65	136.25	131.10	
	RUTABAGA Swede Turnip	# seeds per pkt	Pkt	oz	¼ lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	50 lb @ per lb
	370 The Laurentian	1000	3.75	25.05	54.25	67.05	50.35	37.63	31.20
	371 The Laurentian Certified	N/A	N/A	N/A	N/A	68.40	51.35	38.40	31.20
	370A American Purple Top	1000	3.20	16.00	34.60	42.75		25.95	

## ASIAN RADISHES

**278C MINOWASE SUMMER CROSS #3 Hyb.** (Japanese Daikon) 50 days. F1 hybrid. Best variety for fall harvests. Long 16 in/40 cm, tapered 2.5 in/6.35 cm thick, crisp, pure white roots have white necks, medium/tall tops. Pungent/hot taste. Resistant to Mosaic, Fusarium and heat.

**422D EVEREST** (Chinese Lo Bok) 55 days. F1 hybrid. High quality, short, smooth, thick white roots average 9-12 in/23-31 cm long and 2.25 in/5.5 cm wide with semi tapered tips. Very sweet tasting root when cooked.

**278F APRIL CROSS** (Japanese Daikon) 60 days. F1 hybrid. Very slow bolting popular variety for late spring or late summer harvests. Long 16 in/40 cm, 2.5 in/6.35 cm thick pure white roots with white necks. Tolerant to pithiness, excellent for cooking and pickling.

## TAPERED WHITE RADISH

**280 WHITE ICICLE** 30 days. A uniform short top strain which forms long 6 in/15 cm roots, very quickly. Clear snow white roots. Grow like carrots. O/P

## NOVELTY RADISHES

**277 VALENTINE** 25 days. A novelty, round, green and white radish for salads. Interiors are red at maturity.

**277B SPARKLER** 25 days. Round, red and white medium tops.

**276 FRENCH BREAKFAST** 25 days. Medium length scarlet roots with a white tip.

**282 ROUND BLACK SPANISH** 55 days.

## RUTABAGA (SWEDE TURNIP)

CULTURE: 1 pkt. sows 75 ft/23 m of row thinly - 3 seeds per in/25 mm. 1 oz/28 g 250 ft/76 m of row, .5 lb/227 g per acre. For early yields sow .25 in/6 mm deep in early spring and .5 in/13 mm deep for main season crops. Space rows 2-3 ft/61-91 cm apart. Thin plants to 6 or 8 in/15 or 20 cm apart, when 3 in/8 cm high. Harvest just after your first frost. Stored like potatoes - wax for storage. Seed is precision sized.

**370 THE LAURENTIAN** 90 days. The most popular swede turnip or rutabaga grown today. Laurentian has a deep purplish top and smooth root, yellow flesh.

**371 THE LAURENTIAN CERTIFIED** 90 days. This strain is grown and packaged in 1 lb packages only, under the Canadian Department of Agriculture supervision.

**370A AMERICAN PURPLE TOP** 90 days. Standard high yielding North American rutabaga for winter storage. Large top shaped roots are purple above ground and light yellow below. Average 6 in/15 cm and are mild tasting. Dark green tops are edible.



Mouflon



Payroll



Spineless Perfection



Grandprize

## SPINACH

**CULTURE:** 1 oz/28 g (approx. 2000 seeds) will sow 100 ft/31 m of row. Most of the seed we carry in the hybrids is size 7/64 which averages 45,000 seeds per lb/454 g. Sow at a suggested rate of 10-12 lbs/5-5.4 kg (450,000 seeds) per acre. Plan for 12 live plants per foot of row. Space rows 12 in/30 cm apart, with seed .25-.5 in/6-12 mm deep - depending on soil moisture (deeper for dry soil). Spinach likes cool, medium day lengths of 40°F/4°C and 10-12 hours. Longer hotter days cause bolting to seed. Sow in spring or fall - Apr.1st-15th or Aug 15th-Sept 1st, in the Northeast. All our seed is precision graded.

**290 LONGSTANDING BLOOMSDALE DARK GREEN** 48 days. Dark green leaves of this O/P strain are heavily savoyed. For untreated seed, order **UT290**.

**289 NEW ZEALAND** *Tetragonia expansa*. 55 days. A perennial spinach suitable for home gardens only.

## HYBRID SPINACH

**286K KOLIBRI** 45 days. **Semi savoy** hybrid with very dark oval savoyed leaves and an upright easy to harvest plant. Suitable for Spring, Summer or Fall production. Resistant to 1 through 11, 12 and 15 races of Downy Mildew.

**286E ESCALADE** 48 days. **Plain leaf** hybrid with thick dark green smooth oval leaves that have excellent texture and good field holding ability during hot weather conditions. Plants are very tolerant to bolting and performs well for Spring, Summer or Fall production. Resistant to DM race 1 through 14 and race 16. Use for baby leaf or fresh market bunching.

**286M MOUFLON** 52 days. Dark green, round large, **plain leaf** variety with uniform stem length ratio for summer harvests. Resistant to PM 1 through 12, 14, 15.

## SUMMER SQUASH

### YELLOW ZUCCHINI

**F298J GOLDEN DELIGHT** 47 days. Deep yellow 7-8 in/18-20 cm zucchini. Open, upright plant with few spines. Easy to harvest for fresh market. Resistant to WMV2 and ZYMV.

**F298R GOLDEN GLORY** 50 days. Straight, dark yellow 8 in/20 cm cylindrical fruit. Semi spineless, open, dark green plant. WMV, ZMV, PM resistant.

**F298B GOLD RUSH** 52 days. Deep golden yellow 7-8 in/18-20 cm cylindrical, blunt ended fruit are ridged.

### YELLOW STRAIGHT NECK

**F298D FORTUNE** 39 days. Bright yellow 6-7 in/15-17 cm straight neck. High yields. Precocious gene.

**F298P GRANDPRIZE** 42 days. Glossy deep yellow 6-7 in/15-17 cm fruit with strong outer walls. Enhanced disease package.

## SUMMER SQUASH

**CULTURE:** 20 seeds per pkt; approx 22,000 seeds - 6-8 lbs/2.5-3.5 kg. per acre. **EARLY CROPS:** Sow seed indoors in peat pots or large plastic cells about 3-4 weeks before plants can be set outside Apr.15th-May 1st at 2 seeds per pot. Germinate at 70°F/21°C soil temps. Move young plants outdoors 10 days before field transplanting. **MAIN CROP:** Sow outdoors May 15th-July 4th at 4 seeds per ft/30 cm; .5 in/13 cm deep in rows (thin to 12 in/30 cm apart) at 70°F/21°C soil temps. Seed will NOT sprout in cold, wet soil. **"F" prefixed seed contains the class ingredient neonicotinoids.**

**F296H NOCHE** 42 days. Dark green 7-8 in/18-20 cm fruit. Spineless plant. Some resistance to WMV, ZYMV.

**F296K PAYCHECK** 43 days. Medium green & flecked 7-8 in/18-20 cm cylindrical fruit. Open plant, less spines. Intermediate ZYMV, WMV, CMV and PM resistances.

**F296S SPINELESS SUPREME** 44 days. High gloss, cylindrical lightly flecked, rich medium dark green fruit, 6-7 in/15-17 cm long. Easy to pick open plant without spines. High yield potential. Resistances to ZYMV, WMV, CMV and PM.

**F296G PAYROLL** 44 days. Medium green, flecked 8 in/20 cm fruit. Open plant. Reduced spines. Resistant to PM, WMV2 and ZYMV.

**F296L PAYLOAD** 44 days. Medium darker green, flecked 8 in/20 cm cylindrical fruit. Open plant, less spines. Intermediate ZYMV, WMV, CMV and PM resistances.

**F298N GREEN MACHINE** 44 days. Smooth, cylindrical fruit with light speckles and medium green color for northeast markets. Open upright plant. Resistance to CMV, WMV, ZYMV and PM.

**F296J REWARD** 45 days. 8 in/20 cm. High quality, lightly flecked dark green fruit. Easy to pick open plant. Some ZYMV, WMV, CMV and PM resistances.

**F296F SPINELESS PERFECTION** 45 days. Has spineless petioles that allow fruit to be twisted off the plant with peduncle intact. Strong upright, open plant, earlier 8 in/20 cm richer green cylindrical fruit with refined flecking. Resistances to ZYMV; WMV and PM. For untreated seed, order **UT296F**.

**F297N SENATOR** 47 days. 7-8 in/18-20 cm cylindrical blunt ended fruit. Mid green with contrasting flecks.

**F297F SPINELESS BEAUTY** 48 days. Spineless, open plant is easy to pick. Medium green, waxy fruit, lightly flecked, cylindrical shape, 7.5-8 in/18-20 cm long.

**298Q BLACK BEAUTY** 60 days. AAS Winner. High yields of straight dark green, smooth zucchini fruit average 8 in/20 cm in length. Bush type plant, edible blossoms. Pkt. (20 seeds) \$2.45; oz \$7.95; 1/4 lb \$12.65; lb \$14.65; 5 lb @ \$12.25 per lb; 25 lb @ \$10.88 per lb

NEW	SPINACH		oz	1/4 lb	1 lb	5 lb	25 lb	100 lb		
			28 g	113 g	454 g	per lb	per lb	per lb		
	289	New Zealand (Perennial)	4.15	7.30	16.15	12.90	11.90	10.71		
	290	Longstanding Bloomsdale	2.80	5.50	12.15	9.65	9.45	8.03		
	<b>HYBRID SPINACH</b> (M = 1,000 seeds)		<b>1,000</b>	<b>5 M</b>	<b>50 M</b>	<b>100 M</b>	<b>250 M</b>	<b>500 M</b>	<b>1,000 M</b>	<b>5,000 M</b>
			seeds	per M	per M	per M	per M	per M	per M	per M
	286E	Escalade	2.09	1.00	0.81	0.70	0.60	0.52	0.45	0.39
	286K	Kolibri	2.20	1.05	0.85	0.73	0.63	0.55	0.47	0.41
	286M	Mouflon	2.10	1.00	0.81	0.70	0.60	0.52	0.45	0.40
	<b>HYBRID SUMMER SQUASH</b> (M = 1,000 seeds)		<b># seeds</b>	<b>Pkt</b>	<b>250</b>	<b>1,000</b>	<b>5 M</b>	<b>25 M</b>	<b>100 M</b>	<b>500 M</b>
			per pkt		seeds	seeds	per M	per M	per M	per M
	F296F	Spineless Perfection	20	4.50	35.50	104.65	88.08	79.08	67.71	59.94
	F296G	Payroll	20	4.50	35.30	104.00	87.53	78.59	67.30	61.35
	F296H	Nоче	20	4.50	29.85	87.92	74.00	66.44	56.89	50.36
	F296J	Reward	20	4.50	37.05	109.20	91.90	82.51	70.66	65.51
	F296K	Paycheck	20	4.50	37.65	110.87	93.31	83.78	71.74	63.50
	F296L	Payload	20	4.50	39.20	115.52	97.22	87.29	74.75	68.03
	F296S	Spineless Supreme	20	4.50	35.75	105.37	88.68	79.62	68.18	60.35
	F297F	Spineless Beauty	20	4.50	23.95	70.57	59.39	53.33	45.66	40.42
	F297N	Senator	20	4.50	21.80	64.24	54.06	48.54	41.57	39.28
	F298B	Gold Rush	20	4.50	23.00	67.76	57.03	51.20	43.84	41.43
	F298D	Fortune	20	3.25	14.65	43.19	36.35	32.64	27.95	24.74
	F298J	Golden Delight	20	4.50	24.20	71.29	60.00	53.87	46.13	43.87
	F298N	Green Machine	20	4.50	30.80	90.79	76.41	68.60	58.74	54.25
✓	F298P	Grandprize	20	4.50	28.05	82.72	69.62	62.51	53.52	47.38
	F298R	Golden Glory	20	4.50	29.55	87.05	73.26	65.78	56.33	49.86



Eight Ball



Celebration



Autumn Delight



Bonbon



Sunshine



Sunny Delight



Honey Bear



Cream of the Crop



Stripetti



Delica

## NOVELTY SUMMER SQUASH

**297P EIGHT BALL** 40 days. Novelty F1 hybrid, round, dark green, yellow flecks. Tastes great, bush plant.

**F297S SUNNY DELIGHT** 43 days. Butter yellow fruit without green blossom scar. Semi bush scallop.

**298T ISHTAR** 45 days. F1 hybrid. Lebanese type. Pale green 6 in/15 cm fruit. WMV and ZYMV resistances.

**305 VEGETABLE SPAGHETTI** 70 days. Harvest fruit 8-10 in/20-25 cm long. Cut in half end to end, remove seeds, add tsp. brown sugar and tbsp. butter, microwave or cook till tender. Spaghetti-like pulp. 3,400 seeds per lb. For untreated seed, order **UT305**.

**305G TIVOLI** 74 days. F1 hybrid 6 in/15 cm bush type vegetable spaghetti. AAS Winner.

**F302Q PINNACLE** 85 days. F1 hybrid. Compact semi-bush plant. Fruit are oval, 7 x 5 in/18 x 13 cm, 3 lbs/1.5 kg, yellow in color. Internal quality is excellent - strands are very fine and have a nutty flavor.

**F302D PRIMAVERA** 93 days. F1 hybrid. Light yellow uniform oval fruit are similar in appearance and size of 2.5 - 4 lb/1-3 kg as the original O/P. Semi-bush plant provides high yields of vegetable spaghetti.

## WINTER STORAGE SQUASH

**CULTURE:** Seed size varies between varieties. Sow all types outdoors June 1st at 65°F/18°C soil temp. .5 in/13 mm deep, 4-5 seeds per ft/30 cm, or 6 seeds per hill. Plant winter squash in 8 ft/2.5 m rows. **MATURITY DATES** are from the planting of greenhouse transplants to harvest. "F" prefixed seed contains the class ingredient neonicotinoids.

### ACORN OR PEPPER SQUASH

**F293C TAYBELLE PM** 68 days. Similar to regular TayBelle with an intermediate resistance to Powdery Mildew.

**NEW 291G CREAM OF THE CROP** 75 days. Unique creamy white fruit that stores well and has excellent baking qualities. Compact bush habit, with uniform 6x5 in/15.25x12.75 cm fruit. AAS Winner.

**F293G AUTUMN DELIGHT** 75 days. High yielding semi bush, earlier Table Ace type. Good PM resistance.

**306K RENO** 75 days. Acorn fruit are dark green, semi-bush, productive plant. Golden yellow flesh is very sweet. 5 in/12 cm, 1.5 lb/.70 kg fruit.

**F298A TABLE ACE** 78 days. Hard shelled, deep black-green color. Thick flesh is rich orange. Semi bush.

**291J HONEY BEAR** 80 days. F1 hybrid. Compact plant has PM resistance, 3-5 dark green fruit per plant. Cooked flesh has high sugar flavor. AAS Winner.

**293R CELEBRATION** 90 days. F1 hybrid. Orange/gold acorn fruit with red ribs are 4x5 in/10x13 cm. 1.5 lb/0.70 kg. Very high soluble sugar (brix) rate provides an amazing taste. PM resistant.

### ACORN OR PEPPER SQUASH

**F304C ROYAL ACE PM** 90 days. Large F1 hybrid, black-green uniform acorn. Sweet golden flesh. Heavy yield. Some PM resistance.

**291H MASHED POTATO** 90 days. Pure white elongated acorn fruit average 1-1.5 lb/0.5-0.70 kg on semi bush vines. White flesh.

### BUTTERCUP SQUASH

Approx. 2,400 seeds/lb; 1,100 ft/lb; 6.5 lbs/acre.

**298L BONBON** 81 days. F1 hybrid. Earlier than other Buttercup types. Green fruit with silver stripes averages 4 lbs/1.8 kg. Thick orange flesh has a sweet flavor. AAS Winner.

**292 BUTTERCUP** 90 days. Burgess strain is the finest Buttercup in our trials. Dark green, great uniformity, deep orange flesh, sweet and extra dry. 3-4 lbs/1-2 kg.

**306J SUNSHINE** 95 days. F1 hybrid. Vibrant orange skin, 3-4 lb/1-2 kg fruit are flat/globe shaped and cupless. The bright orange flesh is very sweet, nutty, creamy smooth and stringless. Great flavor, stores well. AAS Winner.

### HYBRID KABOCHA TYPES

**309D DELICA** 75 days. Kabocha hybrid, cupless deep green fruit average 3.5-4 lb/1.5-2 kg. Very sweet nutty flavor, thick yellow flesh. Stores for 5 months. High yielding plants are Fusarium resistant.

**309 SWEET MAMA** 75 days. Kabocha hybrid cupless. Green-grey fruit average 2.5 lbs/1 kg. Sweet taste - stores 5 months. Plants are Fusarium resistant.

**295C SUPER DELIGHT** 100 days. Kabocha hybrid. 4.5 lbs/2 kg dark green cupless buttercup. Rich sweet orange flesh is dry and fiberless. Stores well.

**F309G GREY GHOST** 100 days. Kabocha hybrid. 12-15 lb/4-5 kg flat globe, cupless, uniform fruit. Stores well. Amazing taste.

**F309H SPECIAL EXPORT** 100 days. F1 hybrid. Kabocha type which average 3-4 lb/1-2 kg - flat globe shaped, dark green fruit with orange flesh. Excellent for storage, high yields, great taste.

### NOVELTY WINTER TYPES

**307A STRIPETTI** 95 days. F1 hybrid cross between Sweet Potato and Vegetable Spaghetti. The hard skin of the Sweet potato winter squash allows this unique vegetable spaghetti to be harvested in the fall and be stored for 3 months, and the high sugar adds to the overall taste. Harvest in mid or late September.

**304 SWEET DUMPLING** 100 days. Ornamental blocky striped acorn 4 in/10 cm in fruit. Sweet orange flesh is great for stuffing. Stores 3-4 months.

NEW	NOVELTY SQUASH		# seeds per pkt	Pkt	oz	¼ lb	lb	5 lb	25 lb
					28 g	113 g	454 g	per lb	per lb
	305	Vegetable Spaghetti	15	2.35	3.80	6.05	18.85	14.75	14.02
	305G	Tivoli Hybrid	15	4.35	25.60	63.30	181.55	151.75	124.00
WINTER SQUASH		# seeds per pkt	Pkt	oz	¼ lb	lb	5 lb	25 lb	
	291J	Honey Bear Hybrid	15	4.35	17.70	43.80	125.65	105.05	96.66
	292	Buttercup	15	2.95	6.05	11.95	37.10	29.10	27.64
	295C	Super Delight Hybrid	15	6.35	47.15	116.60	334.45	279.55	228.00
	298L	Bonbon Hybrid	10	4.50	26.00	64.30	184.45	154.20	137.16
	304	Sweet Dumpling	15	3.05	18.60	46.00	131.85	110.20	90.00
	306J	Sunshine Hybrid	10	4.50	33.90	83.90	240.55	201.05	185.03
	309	Sweet Mama Hybrid	10	4.50	36.90	91.30	261.80	218.80	184.53
	309D	Delica	15	4.50	35.70	88.20	252.95	211.45	178.32
HYBRID SQUASH		# seeds per pkt	Pkt	250 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M	
	✓ 291G	Cream of the Crop	15	3.75	15.25	44.97	37.85	33.98	30.53
	291H	Mashed Potato	15	3.50	13.20	38.94	32.77	29.43	25.20
	F293C	Tay Belle PM	15	3.25	17.10	50.37	42.39	38.06	30.80
	F293G	Autumn Delight	15	3.50	20.60	60.66	51.06	45.84	39.25
	293R	Celebration	15	3.25	11.95	36.58	30.78	28.96	25.98
	297P	Eight Ball	20	4.50	25.40	74.86	63.01	56.57	48.44
	F297S	Sunny Delight	15	3.75	21.90	64.57	54.34	48.79	39.48
	F298A	Table Ace	15	3.25	16.70	49.17	41.39	37.16	31.82
	298T	Ishtar	15	4.35	20.95	61.71	51.94	46.63	39.93
	F302D	Primavera	15	3.50	26.95	79.41	66.84	60.01	51.38
	F302Q	Pinnacle	25	4.50	25.15	76.96	64.77	60.94	54.67
	F304C	Royal Ace PM	15	3.50	21.35	62.85	52.90	47.49	37.55
	306K	Reno	15	3.25	14.60	42.98	36.18	32.48	27.81
	307A	Stripetti	15	3.50	10.90	32.05	26.97	24.22	20.74
	F309G	Grey Ghost	10	4.35	27.75	81.77	68.82	61.79	52.91
	F309H	Special Export	15	4.50	36.75	108.29	91.14	81.83	70.07



Atlas



Honeynut



Butterbaby



Mini Orange Hubbard



Purple Top White Globe

## WINTER STORAGE SQUASH

**CULTURE:** Seed size varies greatly between varieties. Sow all types outdoors June 1st. at 65°F/18°C soil temp. 0.5 in/13 mm deep, 4-5 seeds per ft/31 cm, or 6 seeds per hill. (Plant winter squash in 8 ft/2.4 m rows. **HARVEST:** Allow winter squash to ripen thoroughly in the field, until shell is quite hard. Exposure to frost injures keeping quality. Some varieties are offered untreated (UT). Please note on your order which type of seed you prefer. **CROOKED FRUIT:** This is related to cultural practices, row spacing, plant population, fertility, rolling land etc. **STORING WINTER SQUASH:** Acorn and Buttercup squash will only last about 4-8 weeks after harvest, even in the best of storage conditions, so delay harvest until a week before fall frost, for better taste. Store acorns at 50-60° F/10-16°C in open pallet bins with plenty of air circulation. Do not heat treat! Butternuts should keep 2-3 months at 50°F/10°C with 50% relative humidity; Hubbards and Delicious types should last 6 months at 50-55 °F/10-13°C with 70% RH. Heat treating or curing fruit for 15 days at 24°C will reduce moisture content of larger types-adding better taste, but shortening life. Circulate air! **"F" prefixed seed contains the class ingredient neonicotinoids.**

### HYBRID BUTTERNUT SQUASH

Approx. 4,900 seeds/lb; 2,400 ft/lb; 3 lbs/acre.

**F306B EARLY BUTTERNUT HYBRID** 75 days. Earliest semi-bush Butternut for fresh market. Very uniform regular sized 7 in/18 cm fruit is free of crook necks.

**302E PRISM** 90 days. F1 Hybrid. Smooth, tanned skin, 8.8 in/20 cm butternut averages 2.3 lb/1 kg on a restricted vine. The flesh is firm, fine textured, deep orange and sweet. Early, uniform and high yield potential. For fresh market use.

**F295J ATLAS** 90 days. F1 hybrid. High yielding short vine type. 4 lb/2 kg fruit has dark orange flesh and cylindrical shape with slight bulb. Ideal for processing.

**F306L AVALON** 90 days. F1 hybrid. Elite Zenith type with outstanding yields and uniformity. 3.5x9 in/ 9x23 cm tan colored fruit has fine grained orange flesh. For roadside sales or processing.

**F306H ULTRA HP** 90 days. F1 hybrid. Larger, thicker slightly shorter necks than the original. 15x4.5 in/ 38x11 cm light tan fruit weighing 9 lbs/4 kg has nice interior quality. For roadside sales or processing.

**F304B BUTTERFLY** 90 days. Tan colored Butternut averages 3.5 lb/1.5 kg with very thick necks, fine grained - dark orange interior flesh and a semi bush plant with some intermediate PM resistance. Excellent for fresh market or commercial boxing sales. Good taste! High yield potential of uniform fruit.

**UT306M HONEYNUT** 85 days. One of the first small-fruited mini butternut types. Very uniform 8 in/ 20 cm fruit are very sweet. Exceptional yield potential of individual-size butternut squash. Untreated Seed.

**F296Q QUANTUM** 95 days. F1 hybrid. 2.5-4.5 lbs/ 1-2 kg. Nice size, shape and uniformity. Tan fruit have thick necks, small seed cavities, smooth exteriors and average 10 in/25 cm in length. Vigorous vines - excellent for peeling and boxing for chainstore sales. Great orange interior color and taste.



**UT306Q BUTTERBABY** 100-105 days. Plants produce an abundance of sweet 1 lb/454 g personal-size mini butternuts with light tan skin color. Uniform fruit on a restricted vine with excellent storage quality. Can be grown on a trellis. Intermediate resistance to PM. Untreated seed.

### OPEN POLLINATED BUTTERNUTS

Approx. 4,900 seeds/lb; 2,400 ft/lb; 3 lbs/acre.

**306A WALTHAM BUTTERNUT** 82 days. Uniform 8 in/ 20 cm long, thick tan O/P fruit, deep orange interiors. For untreated seed, order **UT306A**.

**N306A WALTHAM BUTTERNUT** 82 days. Organically grown seed of the popular O/P standard.

### SWEET POTATO SQUASH

Approx. 4,900 seeds/lb; 2,400 ft/lb; 3 lbs/acre.

**294 DELICATA** or **SWEET POTATO** 100 days. Vine type O/P original. Oblong 6-8 in/15-20 cm long, fruit are cream/dark green stripes. Stores 4 months.

## HUBBARD SQUASH

Approx. 2,400 seeds/lb; 1,100 ft/lb; 6.5 lbs/acre.

**303 GOLDEN HUBBARD** 90 days. Shells are moderately warted with deep orange flesh. 10-12 lbs/5 kg.

**295G MINI GREEN HUBBARD** 100 days. Smaller improved version of Hubbard Improved Green, but one third the size. Mid green, average 2.5 lbs/1 kg.

**295H MINI ORANGE HUBBARD** 100 days. F1 hybrid. Similar in size and shape to the Mini Green. Dark orange fruit average 2.5 lbs/1 kg. Excellent taste.

**F295K RED OCTOBER** 100 days. F1 hybrid. 6.5 lb/3kg orange/red Hubbard. Great taste!

**302H HEAVENLY HUBBARD** 100 days. F1 hybrid. High yielding 26 lb/12 kg blue/grey Hubbard. A good replacement for New England Blue Hubbard.

## SUMMER TURNIP

**CULTURE:** For greens; sow a wide band at 40 seeds per ft; for root turnips sow 6 to 8 seeds per ft. 1 oz/28 g contains approx. 10,000 seeds. Sow in late July for fall harvests. **SIZED SEED.**

**372D WHITE LADY** 35 days. F1 hybrid. Pure white, semi round, 2.5 in/6 cm root. Very mild, sweet roots, 20 in/51 cm dark green tops. Bolting tolerance.

**372J TOP STAR** 36 days. F1 hybrid. Broad serrated leaves, early regrowth. Outstanding yield potential. Grown for tops only. Multiple harvests. Slow bolting.

**372 PURPLE TOP WHITE GLOBE** 60 days. O/P. A true turnip for early summer harvesting. Produces round roots about 4 in/10 cm in diameter, purple shoulder, white body. Tops suitable for "greens".

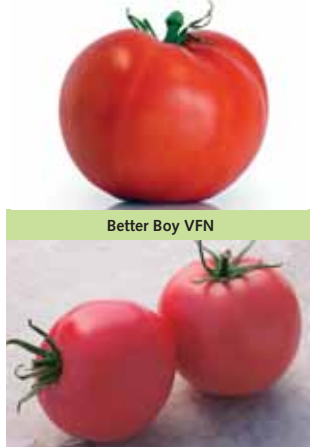
NEW	WINTER SQUASH	# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	
	294 Delicata or Sweet Potato	25	2.70	6.25	12.25	38.10	29.85	28.38	
	295G Mini Green Hubbard	25	2.70	10.80	21.15	65.85	51.60	47.31	
	295H Mini Orange Hubbard Hybrid	25	5.50	18.45	45.65	130.85	109.40	92.25	
	303 Golden Hubbard	25	2.70	3.90	7.45	23.10	18.10	17.20	
	306A Waltham Butternut	25	2.50	3.85	7.35	22.85	17.90	17.03	
	N306A Waltham Butternut (Organic)	25	5.25	13.50	33.30	95.55	79.85	71.05	
	WINTER SQUASH HYBRID (M = 1,000 seeds)	# seeds per pkt	Pkt	250 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M	500 M per M
	F295J Atlas	25	4.25	24.05	73.64	61.98	58.31	52.31	43.33
	F295K Red October	25	4.50	31.05	95.03	79.98	75.25	67.51	64.07
	F296Q Quantum	15	4.50	24.05	73.64	61.98	58.31	52.31	43.33
	302E Prism	25	4.25	18.60	56.84	47.84	45.01	40.38	38.32
	302H Heavenly Hubbard	25	5.75	60.15	183.98	154.85	145.69	130.70	124.04
	F304B Butterfly	25	4.25	25.10	76.75	64.60	60.78	54.53	45.94
	F306B Early Butternut	15	3.95	13.75	42.12	35.45	33.35	29.92	28.40
	F306H Ultra HP	25	3.50	18.30	56.05	47.17	44.38	39.82	37.79
	F306L Avalon	25	3.50	16.95	51.89	43.67	41.09	36.86	34.99
	UT306M Honeynut Untreated	25	3.75	12.00	26.52	22.32	21.00	18.84	17.88
✓	UT306Q Butterbaby	25	3.75	14.05	31.03	26.11	24.57	22.04	20.92
	SUMMER TURNIP	# seeds per pkt	Pkt	oz 28 g	¼ lb 113 g	lb 454 g	5 lb @ per lb	25 lb @ per lb	
	372 Purple Top White Globe O/P	350	2.70	6.35	13.70	18.30	12.70	10.40	
	372D White Lady Hybrid	350	2.70	28.65	97.50	258.05	220.10	186.57	
	372J Top Star Hybrid	350	3.25	10.25	34.90	92.40	78.80	66.80	



Brillante VFFT



Ultrasonic VFT



Better Boy VFN



Ultra Sweet VFT



Beefmaster VF

## STOKES HYBRID TOMATOES

**CULTURE:** oz/28 g produces 6,000 - 9,000 plants in the greenhouse. Sow Feb.15th (early crops) and March 15th to April 1st (main crops) 0.25 in/6 mm deep at 8 seeds per in/25 mm, a soil temp. of 80°F/27°C for 5-12 days. Grow seedlings 60°F/16°C, fairly dry, for better roots. Transplant when seedlings are about 1.5 in/4 cm high. Set outside after frost danger. Tomato seed is variable in size; approx. 7,400 seeds per oz./28 g. Most seed will germinate at 80%-90% in soil. Fruit size increases by 2-4 oz/ 57-113 g on stakes vs. rows. To increase fruit size, remove suckers. DF = Defuzzed Seed; GS = Graded Seed

**HYBRID TOMATO** seed is produced by a hand pollinated cross between two distinct parent lines. This produces extreme vigor, more uniform growth, higher yields, and better quality than open pollinated types. Hybrids need more fertilizer and all "suckers" removed (shoots that grow in axils of leaves), when small. Stake all hybrids, except determinate or bush types, to obtain the fruit size described below. **MATURITY DATES:** Average time to reach maturity from field transplanting, transplants raised in the greenhouse.

**TOMATO DISEASES:** In the last few years growers have almost eliminated seed borne diseases on tomato seeds. Now the leading causes are considered to be (a) field trimmed transplants that have been mowed before shipping, (b) unsterilized plastic foam transplanting trays, (c) unsterilized potting soil, (d) improperly fumigated greenhouses, (e) nesting insects from outdoors, (f) perennial diseased host plants near the field (golden rod, wild turnip, asparagus), (g) failure to rotate crops from the previous year, (h) overhead irrigation and (i) contaminated knives or tools used when suckering or cultivating. Recent evidence indicates that migratory insects cause bacterial disease.

### HYBRID STAKING TYPES

**343A ULTRA SWEET VFT** 62 days. First early medium sized beefsteak type with improved TASTEBUD® flavor. Deep globe, 10 oz/280 g bright red fruit are very firm and have an outstanding balance of sugar/acids which give a good "tomato" aftertaste or flavor for consumers. Interior color develops quickly before the green wrap stage and much earlier than other hybrids. Immature fruit have pink interiors and a high sugar/acid taste which helps fruit arrive at distant markets with a better vine ripened taste. Fruit are uniform ripening and have good crack tolerance. **DF/GS** Exclusive.

**347 ULTRA GIRL VFN** 62 days. Certainly the ultimate in an early staking hybrid. Bright red fruit are very firm, 8 oz/227 g in weight and do not have green shoulders. Ultra Girl shows a good tolerance to cracking. Semi determinate plant may be grown without staking. This variety has multi resistance to Verticillium, Fusarium and Nematodes. **DF/GS** Exclusive.

**333A ULTRASONIC VFT** 65 days. Same TASTEBUD® taste and high class appearance as Ultra Sweet VFT, but fruit are slightly larger. Semi-bush plants may be used for short stakes, cages or row crops. Globe shape fruit have unusual firmness at the full ripe stage, averaging 12 oz/340 g on stakes, no green shoulder. Good crack tolerance, great taste! Compare to Jet Star VF and Moreton hybrid. Replaces Fantastic VFF. **DF/GS** Exclusive.

**366D ULTRA BOY II VFN** 68 days. Replaces the original hybrid. An earlier deep globe, 14 oz/396 g, very firm dark red hybrid with excellent taste! Fruit have a slight green shoulder. Plants are indeterminate and recommended for staking, basket weave culture or bedding plant use. Bred by Dr. Paul Thomas, one of Peto's most successful tomato breeders and winner of several All America Selections Awards from the 1960's to 1970's. **DF/GS**. Exclusive.

**320 BETTER BOY VFN** 72 days. A standard large fruited hybrid used for bedding plants or baskets. Fruit average 16 oz/454 g. Standard home garden variety where Nematodes, Verticillium Wilt or Fusarium are common problems. Good leaf cover for southern climates. **DF/GS**

**343B BRILLANTE VFFT** 73 days. Medium size 7 oz/198 g globe shaped fruit. Very firm, good taste, green shoulders and extended shelf life. Medium size plants are great for outdoor stakes or greenhouse use.

**360A BIG BEEF VFNT** 73 days. Extra large 10-12 oz/280-340 g, globe shaped, good tasting beefsteak for staking. Good disease resistances to VFNT plus Alternaria, Stem Canker and Grey Leaf Spot. AAS Winner.

**360 BEEFMASTER VF** 81 days. Formerly listed as Beefeater VFN (name changed for legal reasons). Standard extremely large 20 oz/567 g, Italian beefsteak with outstanding taste for the bedding plant trade. Indeterminate plants are also resistant to ST and ASC. Deep red oblate shaped fruit. **DF/GS**

### PINK AND LEMON HYBRIDS

**337B SUMMER PINK VF** 63 days. True bush pink hybrid. Superior taste with good acid/sugar balance. Globe-shaped fruit are (7.5-8 oz/213-227 g) very firm and a beautiful color. **DF, GS**. Exclusive. Pkt. (40 seeds) \$3.35; 1/16 oz \$5.80; 1/8 oz \$9.60; 1/4 oz \$16.80; 1/2 oz \$26.10; oz \$39.05.

**394Q PINK CUPCAKE VFFN/ToMV** 72 days. Semi dwarf, high yielding, firm 9 oz/255 g rose pink, deep oblate fruit have excellent beefsteak interior color and great flavor. Plants provide good cover and adapt to short stakes for both high tunnel and field use. Good disease resistances. **DF/GS**

**399A LEMON BOY VFN** 72 days. Lemon yellow, deep globe fruit average 7 oz/198 g. More attractive than "golden" types, very productive, mild flavor and unusual color. **DF/GS**

### TOMATO DISEASES

**V** - Verticillium 1      **PhR** - Late Blight Phytoph.  
**FF** - Fusarium 1, 2, 3      **Aal** - Alternaria Stem Canker  
**TMV** - Tobacco Mosaic      **N** - Nematodes  
**GLS** - Grey Leaf Spot      **TYLCV** - Yellow Leaf Curl  
**TSWV** - Tomato Spotted Wilt Virus



Lemon Boy VFN



Big Beef VFNT

NEW	HYBRID TOMATO	# seeds per pkt	Pkt	1/32 oz 1 g	1/16 oz 2 g	1/4 oz 7 g	1/2oz 14g	oz 28 g
	333A Ultrasonic	40	2.70	10.55	16.25	47.05	73.05	118.15
	343A Ultra Sweet	40	2.70	10.55	16.25	47.05	73.05	118.15
	347 Ultra Girl	40	2.70	10.55	16.25	47.05	73.05	118.15
	<b>HYBRID TOMATO</b> (M = 1,000 seeds)	# seeds per pkt	Pkt	500 seeds	1000 seeds	5 M per M	25 M per M	100 M per M
	320 Better Boy	40	4.50	20.55	33.71	31.94	27.71	23.85
	343B Brillante	10	8.40	77.10	130.88	123.38	120.87	111.15
	360 Beefmaster	40	4.25	20.10	32.99	31.26	27.12	23.34
	360A Big Beef	40	4.50	26.30	43.12	40.86	35.45	30.51
	366D Ultra Boy II	40	3.95	15.25	24.96	23.66	20.52	19.61
	394Q Pink Cupcake	40	4.25	28.55	46.80	44.35	38.47	36.75
	399A Lemon Boy	40	4.25	26.90	44.08	41.77	36.24	31.19



Mountain Merit VFFF/TSWV



Defiant VF2/PhR



Roadster VFF/TSWV



Mountain Fresh Plus VFFN



Red Mountain V1V2FF



Celebrity VFNT



Rocky Top VFFF

**EARLY BUSH TYPE HYBRIDS**

**332Y PRIMO RED VFFT/TSWV** 65 days. Our best 8.5 oz/ 241 g, smooth extra large, very firm, red fruited - second early deep globe. Provides an excellent vine ripe jumbo for early fresh market sales. Excellent disease package includes VFF, TMV and some TSWV resistance. Nice interior quality - great taste! For untreated seed, order **UT332Y. DF/GS Limited Distribution.**

**NEW 330E ROADSTER VFF/TSWV** 70 days. Early maturing 8-12 oz/227-340 gr scarlet red, deep globe shaped fruit. Very firm and smooth shouldered with superior flavor. Concentrated set, high yield potential. **DF/GS**

**343M MOUNTAIN GLORY VFFF/TSWV** 70 days. An improved Mountain Spring type. Extra disease resistance to Fusarium 3 and Spotted Wilt Virus. Red fruit range from 10 oz/283 g to extra large. Refined blossom ends; smooth UG shoulders. Determinate plant.

**332T HY-BEEF 9904 VFT** 70 days. An amazingly firm jumbo with beautiful deep globe, smooth appearance. Huge, scarlet red semi-seedless fruit average over 9 oz/ 255 g x 3.5 in/9 cm across. Dense interiors are like paste tomatoes, "solid as a rock", providing outstanding crack resistance and at least 10 days shelf life. Bushy plants can be used for short stakes or row culture. For shipping, fresh market. **DF/HWT/GS. Exclusive.**

**343D DEFIANT VF2/PhR** 70 days. One of the first hybrids which combines both Ph-2 and Ph-3 major genes for high late blight (Phytophthora) resistance. Plants also have intermediate resistance to Early Blight. Mid-size, globe shaped 5-7 oz/142-198 g fruit are moderately firm with deep red exterior and beefsteak interior texture. This size fruit is recommended for the sub sandwich market suppliers. Plants are medium sized, determinate for short stakes or row crops.

**333R RED DEUCE VFF/TMV** 72 days. Large 10oz/ 283 g. globe shaped, uniform ripening fruit mature to a deep red color and are very smooth, with excellent eating quality. Determinate plants are strong with good foliage cover, heat resistance and high yields. Stemphylium resistant. **Limited Distribution.**



Red Bounty VFFN/TSWV/GLS

**MAIN SEASON HYBRIDS AND LATE HYBRID BUSH TYPES**

**333N RED MORNING V1V2FF/ToMV** 70 days. Smooth uniform large size fruit average 14 oz/396 g, are very high quality. Medium size plants are resistant to both Va and Vd verticillium wilts. Use for fresh market or shipping. Pellets available.

**332 CELEBRITY VFNT** 70 days. Plant is adapted for row crops. Large 10 oz/283 g fancy, firm green shouldered fruit turn dark at maturity. **DF/GS AAS Winner.**

**333L RED MOUNTAIN V1V2FF/ToMV** 74 days. Compact plant can be used for row crops or short stake production - plant cover is very good. Fruit are deep red, round with smooth shoulders, very uniform, high quality. Great taste! Some TSWV resistance. Average size 9 oz/255 g.

**324B FLORIDA 47R VFF** 74 days. Very large 10 oz/ 283 g green wrap vine ripe with exceptional firmness and fruit quality. Deep oblate fruit- excellent shipper, semi bush plants for short stakes or basket weave culture. Additional ALS and GLS resistance. **DF/GS**

**333T MOUNTAIN MERIT VFFF/TSWV** 75 days. F1 hybrid. Dark red fruit on compact, uniform plants. Perfect for slicing and sandwiches. Resistant to Late Blight, Fusarium 1, 2 & 3, Verticillium and TSWV.

**324J ROCKY TOP VFFF** 74 days. Very firm 7.25 oz/ 206 g high yielding, large fruit with superior eating quality. Well adapted bushy plants for vine ripe or high tunnel production and short stakes. Good resistance to 3 races of Fusarium and Gray Leaf Spot.

**333J RED BOUNTY VFFN/TSWV/GLS** 74 days. Extra large 10 oz/283 g., uniform, smooth, globe shaped red fruit are very firm and have nice good tasting dark red beefsteak interiors. Plants are very strong, semi determinate with good foliage cover and set well in hot weather. High resistances to Fusarium 1, 2, Verticillium, Nematodes and Grey Leaf Spot, plus some TSWV.

**333D SCARLET RED VFF** 74 days. Deep globe type with good shelf life and extra large fruit. Firm, great tasting flesh. Vigorous determinate plant provides good fruit cover and excellent yields. For basket weave or row crop culture. **DF/GS**

**332P MOUNTAIN FRESH PLUS VFFN** 75 days. Improved nematode tolerant version of the original. High quality, 9 oz/255 g globe shaped, smooth fruit are very firm. Wide harvest or breaker stage, better taste. Excellent fresh market, chain store type. Vigorous plants provide good cover. Some early blight resistance. **DF/GS**

**334S SKYWAY V1V2FFF** 78 days. Vigorous determinate plant can be used for row crops or short stakes. Extra large jumbo fruit is suited for fresh market. Strong resistances to all strains of Verticillium and Fusarium plus ToANV and some TSWV, TYLCV and Nematodes. **DF/GS**

**333M MOUNTAIN MAJESTY V1V2FF** 78 days. Excellent yields of firm flattened globe shaped fruit which average 14 oz/397 g in weight. Nice strong plant for growing on short stakes or row crops. Resistant to both Va and Vd strains of verticillium wilts. Great taste!

NEW	HYBRID TOMATO	#seeds per pkt	Pkt	500 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M
	Raw Seed							
	324B Florida 47R	40	9.75	62.55	91.31	85.94	79.49	72.58
	324J Rocky Top	40	9.40	48.30	70.51	66.36	61.38	57.24
✓	330E Roadster	40	9.50	67.15	110.06	104.30	85.28	79.52
	332 Celebrity	40	5.50	25.50	41.84	39.65	32.42	29.60
	332P Mountain Fresh Plus	40	3.25	42.60	62.16	58.50	54.11	48.75
	332T Hy-Beef 9904	40	5.50	14.45	23.72	22.48		
	332Y Primo Red	40	9.50	N/A	N/A	93.85	86.81	78.21
	333D Scarlet Red	40	9.75	64.60	94.29	88.74	82.08	73.95
	333J Red Bounty	25	9.75	69.05	113.22	107.30	87.73	79.04
	333L Red Mountain	25	9.75	71.10	116.55	110.45	90.31	81.36
	333M Mountain Majesty	25	9.75	56.35	92.42	87.59	71.62	64.52
	333N Red Morning	25	9.75	73.15	119.96	113.68	92.95	83.74
	333R Red Deuce	40	9.75	N/A	N/A	105.21	86.03	77.50
	333T Mountain Merit	25	9.75	64.15	105.20	99.69	81.52	76.01
	334S Skyway	40	7.50	51.00	86.52	81.56	79.91	77.71
	343D Defiant	40	9.75	137.70	225.76	213.94	174.94	171.39
	343M Mountain Glory	40	4.75	53.25	77.72	73.15	67.66	63.09

NEW	HYBRID TOMATO	1,000 seeds	5 M per M	25 M per M	100 M per M
	Pelletted Seed				
	P324B Florida 47R	91.95	86.54	80.05	74.64
	P324T Tachi	71.63	67.88	55.51	51.76
	P329D Picus	66.24	62.34	57.67	53.77
	P330B Smarty	183.38	172.60	159.65	143.83
	P330X Daytona	79.31	75.15	61.45	57.30
	P332P Mount. Fresh Plus	62.55	58.87	54.46	49.06
	P332X Mariana	49.83	47.22	38.61	36.00
	P332Y Primo Red	N/A	94.22	87.16	78.52
	P333D Scarlet Red	94.68	89.11	82.43	74.26
	P333J Red Bounty	113.67	107.72	88.08	79.35
	P333L Red Mountain	116.99	110.87	90.65	81.67
	P333M Mountain Majesty	92.87	88.01	71.96	64.83
	P333N Red Morning	120.40	114.10	93.29	84.05
	P333R Red Deuce	N/A	105.63	86.37	77.81
	P338A Supremo	56.38	53.43	43.69	40.73
	P342 Glamour O/P	10.00	8.80	8.00	7.20
	P418F Sunoma	64.40	60.61	56.06	51.24
	P418P Pony Express	87.73	83.13	67.98	63.38



Bush Beefsteak



Carolina Gold VFF



Candyland



Conestoga



Tumbling Tom Red



Cherokee Purple



Patio Hybrid



Brandywine



Pineapple

## STOKES HYBRID/OPEN POLLINATED/HERITAGE TOMATOES

NOTE: All of these varieties have been either screened by a certified lab for bacterial seed borne disease, or treated with hot water at 122°F/50°C or rinsed with chlorine and water to control possible seed borne disease.

### PATIO TYPES FOR CONTAINERS

**334 PATIO HYBRID** 50 days. Developed for bedding plant growers or **container sales**. Dark green, bushy, potato leaf foliage average 24 in/60 cm. Produces large 4 oz/113 g red fruit. **DF, GS**

**336A TUMBLING TOM RED** 50 days. F1 hybrid. High yields, sweet flavor. Masses of 1.25 in/3 cm round red fruit. 6 in/15 cm pots. **DF, GS**

**336D TUMBLING TOM YELLOW** 50 days. F1 hybrid. Same cascading type for container use as the red version. Same high yields, sweet flavor. Masses of 1.25 in/3 cm round yellow fruit. **DF, GS**

**336T TERENCE** 56 days. F1 hybrid. High yielding, extra large red cherry or cocktail size 1.25 in/3 cm fruit with a 6-7% brix that have a good tolerance to cracking and extreme summer heat. Plants are semi-determinate with a spread of only 16-20 in/40-50 cm, grown on short stakes or used for tidy hanging baskets.

**317 LUNCH BOX VF** 62 days. F1 hybrid. High quality, with the same Tastebud® as Ultra Sweet. Egg sized fruit, skins tender. Bushy type plants are loaded with 30-40 crimson saladette fruit. **DF, GS** Exclusive.

### BEDDING PLANT TYPES

**373C CHEROKEE PURPLE** 72 days. Semi indeterminate. Large, 10 oz/283 g, flat globe fruit are a dusky purple-pink-brown color. Interiors have unique purple-pink to brown-green color. Flavorful, low acid taste.

**373Q PINEAPPLE** 75 days. Semi determinate. Huge, flat globe, fruit averages 16 oz/454 g. Bicolor skin is yellow with rosy red streaks. Flesh has unique yellow-rose marbling and delicious low acid, mild flavored taste.

**373G STRIPED GERMAN** 78 days. Stake indeterminate plants. Huge 2 lb/907 g red & yellow bicolor beefsteak fruit have unique ribbed shoulders and flat globe shape. Complex fruity flavor. Interiors are gold, red and rose.

**373S MR. STRIPEY** 80 days. Indeterminate. Extra large 10 oz/283 g yellow bicolor with rosy red stripes. Low acid, mild flavored beefsteak interiors are yellow with pink and red marbled flesh and pink hearts.

**333F OXHEART RED** 80 days. Heart shaped 10-12 oz/283-340 g pinkish red beefsteak fruit have a mild, sweet flavor. Indeterminate vines should be staked.

**Prices of the Heritage tomatoes above:** Pkt. (40 seeds) \$2.70; 1/8 oz. \$9.60; 1/2 oz. \$26.10; 1/4 lb \$140.65.

**333E CONESTOGA** 68 days. F1 hybrid. Should be staked. Large 9 oz/255 g red fruit. First disease tolerant hybrid with Heritage looks and taste.

### BEDDING PLANT TYPES

**324 SUB ARCTIC MAXI** 48 days. Earliest large fruited, fresh market type for far north regions. Plants set 2.5 oz/71 g scarlet 2 in/5 cm round fruit. **DF, GS**

**UT336C CANDYLAND** 55 days. Red Currant salad type. Produces about 100 tiny red super sweet 0.5 in/1.25 cm 8.0 brix fruit per plant in full sun. Untreated seed. AAS Winner. Pkt. (10 seeds) \$5.75; 100 seeds \$8.75; 500 seeds \$25.45; 1,000 seeds \$41.71.

**351 BUSH BEEFSTEAK** 62 days. Tomatoes for bedding plant sales in short season areas. Large 8 oz/227 g in weight, are rich red, with solid interiors. **DF, GS**

**326 BASKET VEE** 70 days. O/P. Best flavor of the early bush types. Compact plants have some tolerance to VFN. Large 8.5-9 oz/241-255 g smooth fruit. Exclusive.

**342 GLAMOUR** 75 days. O/P. Verticillium tolerance. For bedding plant sales. Round 6-8 oz/170-227 g red fruit. Pellets available see page 52.

**398 TINY TIM** 45 days. O/P The standard dwarf large cherry type for bedding plant sales. Also used for pots.

**400C CHEF'S CHOICE ORANGE** 75 days. F1 hybrid. Similar in shape, size and color to Amana Orange O/P heirloom beefsteak but has some modern disease tolerances. Bright orange 10 oz/283 g mild, sweet firm - flat globe shaped fruit. Orange interiors.

**336 TUMBLER HYBRID** 48 days. For hanging baskets or 6 in/15 cm pots. Masses of round, 1.25 in/3 cm, bright red, sweet fruit. **DF**

**400F CAROLINA GOLD VFF** 75 days. F1 hybrid. Fancy, firm, flat globe shaped tangerine/gold fruit. VERY firm for shipping. Large 8-10 oz/227-283 gr. fruit. **DF, GS**

**373D BRANDYWINE** 80 days. Favorite "good tasting heirloom variety" used by bedding plant growers for consumer sales. Huge flat globe 10-16 oz/283-454 gr pinkish red fruit with some stripes. Semi-indeterminate potato leaf plant should be staked. **DF, GS**



Chef's Choice Orange

NEW	TOMATOES		# seeds per pkt	Pkt	1/2 oz 14 g	oz 28 g	1/4 lb 113 g	1/2 lb 227 g	lb 454 g
	Open Pollinated								
	324	Sub Arctic Maxi	200	3.00	10.90	16.70	56.50	97.20	165.60
	326	Basket Vee	200	3.00	10.90	16.70	56.50	97.20	165.60
	342	Glamour	200	3.00	8.75	13.35	45.20	77.75	132.50
	351	Bush Beefsteak	200	3.00	7.05	10.75	36.40	62.65	106.70
	373D	Brandywine	200	3.50	15.15	24.50	72.55	121.00	236.50
HYBRID TOMATOES			# seeds per pkt	Pkt	500 seeds	1,000 seeds	5 M per M	25 M per M	
(M = 1,000 seeds)									
	333E	Conestoga	10	6.25	116.20	217.88	203.35	203.35	
	334	Patio	40	4.50	25.25	43.66	41.37	34.52	
	336	Tumbler	20	7.50	47.25	77.47	73.41	60.03	
	336A	Tumbling Tom Red	40	7.50	24.45	40.09	38.00	31.07	
	336D	Tumbling Tom Yellow	40	7.50	24.45	40.09	38.00	31.07	
	336T	Terenzo	20	6.75	75.75	124.15	117.65	96.20	
	400F	Carolina Gold	40	6.50	42.85	70.26	66.58	54.44	
TOMATOES			# seeds per pkt	Pkt	1/16 oz 2 g	1/8 oz 4 g	1/4 oz 7 g	1/2 oz 14 g	1 oz 28 g
	317	Lunch Box Hybrid	40	2.75	12.20		35.25	54.80	88.60
	398	Tiny Tim O/P	200	3.60			12.65	16.50	26.70
	400C	Chef's Choice Orange	40	2.75	14.65	23.05	40.30	62.65	101.25



Red Candy



Picus



Midnight Snack



Daytona

## PASTE TOMATO

**400 ROMA VF** 75 days. O/P. Roma red, medium size, heavy yields. Use for paste, ketchup, bedding plants.

**392 SAN MARZANO** 80 days. O/P. Elongated, flat-sided, blunt-ended, deep red fruit, 3 in/8 cm long; 1.5 in/4 cm thick. Similar to Red Top, but larger. **DF**

## PLUM TOMATOES

**329D PICUS VF/TSWV** 74 days. F1 hybrid. Uniform, deep large Roma matures medium red, very firm. Determinate plants. Tolerant to ASC, GLS and TSWV. Pellets available. See page 52. **pvp**

**418F SUNOMA VFFT** 74 days. F1 hybrid. Extra large paste type with good firmness and color - large plum shape. Determinate plant. Pellets available, page 52.

**333U PLUM REGAL VFF/TSWV** 76 days. Freshmarket plum tomato offers high yields of large fruit with a bright red exterior and interior. Tolerant to Early Blight, Fusarium 1 & 2, Verticillium and TSWV.

**333G GOLDEN RAVE F/ToMV** 74 days. F1 hybrid. Baby golden Roma averages only .75 oz/21 g. Excellent flavor. One third the size of traditional Roma types. Medium size indeterminate plant. **DF/GS**

**333P POZZANO** 75 days. F1 hybrid. Same elongated shape as San Marzano O/P, but a larger 5 oz/142 gr. No green shoulders, fruit have slight nipple tip to reduce blossom end rot. Tolerant to V1, V2 FF, ToMV.

## SALADETTE TYPES

**338A SUPREMO VFFF/BLS** 70 days. F1 hybrid. Early, large, elongated saladette, high quality, firm, uniform red fruit have great taste. Some TSWV tolerance. Pellets available, see page 52.

**330X DAYTONA VFFN** 72 days. Determinate plant. Large dark red 4.5 oz/128 g saladette fruit with excellent interior color and firmness plus good shelf life. Similar in shape to Supremo and Mariana. Some tolerance to Yellow Leaf Curl. Pellets available, see page 52.

**418P PONY EXPRESS VFFN/TMV** 72 days. F1 hybrid. Concentrated heavy yield of dark red medium to large size globe shaped firm saladette fruit for fresh market or shipping. Pellets available, see page 52.

**332X MARIANA VFFN** 74 days. F1 hybrid. A large, smooth dark red 4.5 oz/128 g saladette with excellent interior color, firmness, yield and shelf life. For stakes or row crops. **DF/GS** Pellets available, see page 52.

## HYBRID GRAPE & CHERRY STAKING TYPES

**330A MOUNTAIN HONEY** 77 days. Cocktail style, deep red tomato with uniform .5-.7 oz/15-20 g fruit. Semi-determinate plant habit. Excellent flavor, high brix and good yield potential. High resistance to Fusarium 1,2,3 and Verticillium 1. Intermediate resistance to TSWV and Late Blight. **DF**

**UT336S SUGAR RUSH F/TMV** 55 days. F1 hybrid. Super-sweet elongated fruit has one of the highest brix ratings of its type! Fast maturing plant with 0.75-1.25 in/2-3 cm fruit is productive all season. Tolerant to Fusarium 1 and TMV. Untreated.

**331S SWEET HEARTS F** 60 days. Brilliant red, very firm oval grape type with excellent flavor, brix and shelf life. Tolerance to cracking and Fusarium. **DF**

**394L CUPID F** 62 days. F1 hybrid. Indeterminate red grape type with Fusarium tolerance plus some tolerances to BSK, ASC, and ST. Long clusters average 16 small oval-shaped 0.375 oz/11 g, 1.25 in/3 cm fruit with excellent color and sweet taste (Brix 8.2%).

**330R RED CANDY** 64 days. F1 hybrid. Easy to manage semi indeterminate plant with Fusarium 1 tolerance. Small grape shaped cylindrical red fruit are VERY sweet and uniform in size and shape. High yields. High brix.

**330B SMARTY VF** 65 days. Semi-determinate with high sugar and long shelf life. Pellets available see page 52.

**UT330D MIDNIGHT SNACK** 70 days. Flavorful, 1.5 in/4 cm cherry tomato that ripens from green to red with a purple-black overlay. Heavy yields all season on tall vigorous upright plants, best grown with support. AAS Winner. Untreated seed. **DF**

NEW	HYBRID TOMATOES		# seeds per pkt	Pkt	½ oz 14g	oz 28g	¼ lb 113 g	½ lb 227 g	lb 454 g		
	High Sugar Types										
	400	Roma VF	200	2.50	7.15	11.60	34.30	60.45	111.80		
	392	San Marzano	200	2.50	6.60	10.70	31.65	55.80	103.20		
		HYBRID CHERRY AND PASTE TYPES (M=1,000 seeds)		# seeds per pkt	Pkt	100 seeds	500 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M
	329D	Picus	10								
	330A	Mountain Honey	10	5.75		153.70	252.00	238.81	195.27	176.25	
	330B	Smarty	10	5.75		127.75	186.39	175.42	162.27	148.52	
	UT330D	Midnight Snack	10	5.75	20.30	59.05	96.84	91.77	75.04	73.52	
	330R	Red Candy	10	5.75		129.55	189.02	177.90	164.56	147.75	
	330X	Daytona	40	5.75		47.95	78.62	74.50	60.92	55.00	
	331S	Sweet Hearts	10	6.75		184.95	269.89	254.02	234.96	210.00	
	332X	Mariana	40	5.50		29.95	43.73	41.16	38.07	34.50	
	333G	Golden Rave	10	5.75		102.75	168.46	159.64	130.54	120.00	
	333P	Pozzano	10	5.75	34.40	135.85	222.71	211.05	172.57	153.42	
	333U	Plum Regal	25	9.75		64.15	105.20	99.69	81.52	76.01	
	UT336S	Sugar Rush	10	5.75	12.15	35.45	58.10	55.06	45.02	44.11	
	338A	Supremo	40	5.50		33.95	55.69	52.77	43.15	39.75	
	394L	Cupid	10	6.50	27.80	109.85	160.29	150.86	139.55	130.12	
	418F	Sunoma	10	6.35			63.67	59.92	55.43	50.61	
	418P	Pony Express	40	6.50		53.25	87.29	82.72	67.64	60.60	



Sugar Rush



Golden Rave



Mountain Honey





Orange Zinger



Chocolate Sprinkles



Jasper



Milan



Tidy Treats

### HYBRID CHERRY STAKING TYPES

**UT338Z ORANGE ZINGER VFMT** 60 days. Crack tolerant oval cherry, dark orange that produces high yields of great tasting fruit. Fruit size 0.75-1 oz/20-30 g. Indeterminate. Crop time 10 weeks. Untreated.

**338 SWEET MILLION TMV FN** 60 days. An improved, disease tolerant version of Sweet 100. Fruit are dark red, 1 in/3 cm. Tolerant to cracking. **DF/GS**

**338C SWEET GOLD TMV F** 60 days. A round golden version of Sweet Million. **DF/GS**

**338D SWEET ORANGE TMV F** 60 days. Round, orange 1 in/3 cm, 9-10 brix cherry fruit. Crack tolerance. **DF/GS**

**407 SWEET 100** 60 days. Must be staked. Popular high sugar, small 1 in/3 cm red cherry fruit. **DF/GS**

**394C SWEET CHELSEA TMV FN** 67 days. Jumbo cherry-red fruit taste like Sweet 100. Fruit average 1.75 in/4 cm in size. Vigorous 3 ft/90 cm plants. **DF/GS**

**UT336J JASPER FF** 90 days. Excellent tasting cherry with 24 in/61 cm plant, .75 in/2 cm fruit, 100's of fruit per plant. Tolerant to early and late blight and both Fusariums. AAS Winner. Untreated Seed.

**UT338B CHOCOLATE SPRINKLES FN/TMV** 70 days. Unique striped bicolor crack resistant grape shaped fruit with a high brix. Some disease resistances.

### HYBRID GRAPE BUSH TYPES

**UT394R TIDY TREATS VF** 55 days. F1 hybrid. Untreated Seed. Tons of amazing cherry sized fruit on a very compact plant! Good in small space gardens and containers, continues to produce 0.75-1 in/2-3 cm fruit all season. Tolerant to Fusarium 1 and Verticillium.

**394Z SWEET ZEN** 60 days. F1 hybrid. Determinate plant grape type. Bright red, high brix, .5 oz/14 gr fruit ship well and are heat tolerant. For patio containers.

**330C JOLLY GIRL** 62 days. F1 hybrid. Determinate strong bushy plant produces oblong larger grape shaped tomatoes that average 0.3-0.5 oz/10-13 gr with good taste and almost no cracking, high brix. Good shelf life.

### TOMATILLO

**397S SIQUEIROS** 75 days. Large dark green fruit with a compact plant habit and large vigorous vine. Higher yields in fewer harvests. Pkt. (40 seeds) \$4.50; 500 seeds \$65.55; 1,000 seeds \$107.44.

**397T TAMAYO** 85 days. F1 hybrid. Fruit are 2-3 times the size of O/P's. Very popular Mexican vegetable for salsa production. Pkt. (40 seeds) \$4.50; 500 seeds \$56.80; 1,000 seeds \$93.11.

### STRAWBERRY (Everbearing Types)

**CULTURE:** F1 hybrid. Approx. 44,800 seeds per oz/28 g. Seed can easily be sown by hand or machine in the greenhouse. Sow between Nov. 15 and Jan 31 (like begonias). Plants are day neutral but extra light will speed up croptime on later sowings. Seed starts germinating in 4-7 days at 68-72°F/20-22°C. Cover seeds lightly and keep moist. Transplant 8 weeks later. Grow plants cooler at 60-65°F/15.5-18°C (like onions) to encourage huskier plants. Transplant again into mixed gallon containers or 4 in/20 cm pots 6 weeks later. Croptime (seeding to berries): about 4 months. Fertilize as a vegetable! Use 3-4 plants per hanging basket for summer - long supply of berries. Brix: 8-10%. Transplant white, pastel pink, rose and red flowered everbearing hybrids into large barrel containers for strawberries all summer long.

**395H RUBY ANN** 120 days. F1 hybrid. Has larger seeds than other hybrids - germinates very fast. Compact plant produces very few runners. Sensational deep red flowers appear early in the season. Medium sized very sweet everbearing fruit.

**395J ELAN** 120 days. F1 hybrid. A vigorous ever-bearing plant that produces large, bright red fruit from June to October. This bi-conical shaped fruit has a delicious flavor caused by high sugar levels. Great for garden, containers or hanging baskets. White blooms.

**395G TOSCANA** 120 days. F1 hybrid. Very dark rose bloom perennial. Conical, medium size fruit are produced all summer long. High soluble sugar rate (Brix) of 10%.

**395F FRISAN** 120 days. Medium rose pink bloom perennial everlasting type. Medium sized fruit, high sugar taste.

Prices of above four: Pkt. (15 seeds) \$6.35; 100 seeds \$35.10; 500 seeds \$123.50; 1,000 seeds \$221.00; 5,000 seeds & over \$195.00 per M.

**395K DELIZZ®** 120 days. F1 hybrid. Vigorous, compact plant with few runners, produces white flowers and plenty of conical shaped mid-sized wonderfully sweet strawberries all summer long. Easy to grow from seed and great for containers or hanging baskets. AAS Winner. Pkt. (15 seeds) \$6.35; 100 seeds \$35.10; 500 seeds \$123.50; 1,000 seeds \$221.00; 5,000 seeds & over \$195.00 per M.

**395E MILAN** 120 days. F1 hybrid. Vigorous strong-rooted hybrid plant for outdoor production. 25% higher yield than current hybrids. High sugar berries (9.6-10.6) have excellent shelf life. Pkt. (15 seeds) \$6.35; 100 seeds \$35.10; 500 seeds \$123.50; 1,000 seeds \$221.00; 5,000 @ seeds \$195.00 per M.

NEW	HYBRID TOMATOES		# seeds per pkt	Pkt	1/32 oz 1 g	1/16 oz 2 g	1/2 oz 14 g	oz 28 g	¼ lb 113 g	
	High Sugar Types									
	407	Sweet 100	40	5.75	19.15	29.75	133.60	228.00	640.00	
HYBRID CHERRY TYPES (M=1,000 seeds)		# seeds per pkt	Pkt	100 seeds	500 seeds	1,000 seeds	5 M per M	25 M per M	100 M per M	
	330C	Jolly Girl	10	5.75	105.20	172.47	163.44	133.64	124.61	
	UT336J	Jasper	10	5.75	135.70	222.50	210.85	172.41	168.91	
	UT338B	Chocolate Sprinkles	10	6.75	25.90	75.40	123.65	117.18	95.82	93.87
	UT338Z	Orange Zinger	10	6.75	48.95	80.22	76.02	67.20	59.64	
	338	Sweet Million	40	4.50	20.85	34.16	32.37	28.08	23.80	
	338C	Sweet Gold	10	4.10	20.95	34.38	32.58	28.26	27.54	
	338D	Sweet Orange	10	5.30	37.55	64.94	61.54	53.38	52.02	
	394C	Sweet Chelsea	40	4.50	18.25	31.52	29.87	25.91	25.25	
	UT394R	Tidy Treats	10	4.10	12.80	37.25	61.08	57.88	47.33	46.37
	394Z	Sweet Zen	10	6.50	20.25	79.90	131.03	124.17	101.53	91.00



Sweet Million



Tamayo



Ruby Ann



Distinction



Sangria



Wild Card Plus



Sweet Gem



Yellow Buttercup



Orange Crisp



Fascination



Exclamation



Joy Ride

## TRIPLOID HYBRID SEEDLESS WATERMELONS

**CULTURE:** Sow indoors April 15th in 3 in/8 cm peat pots or trays. Water trays 48 hours before sowing. Preheat germination room to 90°F/33°C soil temp. Sow seed and place trays in the preheated area for 48-72 hours. When seeds begin to sprout, move to a cooler 80°F/30°C greenhouse, vented area. Keep trays moist for 7 days (not too wet). **TRANSPLANTING:** Use different shaped diploid hybrids (plant 10 days later) to provide male pollen for triploid seedless types. **RATIO:** One pollinator plant for every 3 triploids. Use plastic mulch and drip irrigation.

**384Q SWEET GEM** 78 days. Slightly earlier with nice firm deep red flesh and higher brix - better taste! Black/green Sugar Baby type, round 15 lb/6.8 kg.

**388V MELODY** 79 days. Globe shaped, 14-16 lb/6-7 kg, green melon with darker green stripes. Crisp deep red flesh. Resistant to ANTH and Fusarium 1.

**388X TROUBADOUR** 80 days. Oblong 14 lb/6 kg Crimson Sweet type with deep red flesh. High brix.

### DIPLOID SEEDED WATERMELONS

**CULTURE:** Sow indoors April 15th-May 1st in 3 in/8 cm Jiffy Strips, .5 in/13 mm deep. Soil temp. is critical, seed requires 5-10 days at 75-80°F/24-27°C. **1,000 seeds and up must have a Watermelon Fruit Blotch waiver. Contact sales. Wild Card Plus and Ace** are pollen producer types used as a pollen source for seedless Watermelons. They are small - not edible types that can easily be recognized and destroyed before Triploids are harvested. Maturity - Days to harvest from transplants.

**382A YELLOW DOLL** 68 days. Oval Ice Box type. 4.5-7 lbs/2-3 kg, medium green with dark green stripe. Crisp yellow high brix flesh, thin rind.

**387N NEW YELLOW BABY** 75 days. Globe shaped 7.75x6.5 in/19x16 cm - 6 lb/2.7 kg melon with tender, juicy 11-12% brix flesh. Pkt. (10 seeds) \$4.95; oz \$86.60; 1/4 lb & over ASK. Similar to Yellow Doll.

**384P PATA NEGRA** 75 days. Excellent ice box size, Sugar Baby type hybrid. Dark green, round 12-15 lb/5.5-7 kg shipper type with bright red solid flesh.

**384A ROYAL SWEET** 85 days. Oblong 21 lb/9.5 kg. light green with medium green stripe, red flesh. Fusarium resistant.

**384Y MINI LOVE** 70 days. Compact plant, round to oval 7-9 lb/3-4 kg fruit are light green with dark stripes, very sweet with few seeds. Tolerant to ANTH.

**384S SANGRIA** 85 days. F1 hybrid. Allsweet 20-23 lbs/9-10 kg. Dark green with broken light green stripes. Deep red flesh, excellent flavor and high sugars. Intermediate resistances to Anth and Fusarium.

**387 SUGAR BABY** 75 days. O/P, productive, popular, small round ice box type, averaging 7 in/18 cm in diameter. Crisp, red flesh is sweet, and flavorful. Pkt. (75 seeds) \$2.75; oz. \$5.00; 1/4 lb. and over ASK.

**378A CRIMSON SWEET** 85 days. O/P oval green fruit with dark stripes average 15-25 lbs/9 kg. Resistant to Fusarium and Anthracnose. Dark red flesh. Pkt. (75 seeds) \$2.75; oz. \$9.05; 1/4 lb. and over ASK.

**384L ACE** 70 days. O/P. **Pollen producer** for seedless watermelons. Green small fruit are not edible and are easily recognized.

**387W WILD CARD PLUS** 70 days. F1 hybrid. For triploids, striped fruit not edible. **Pollen producer.**

**384U SWEET DAWN** 74 days. Blocky oval 16-20 lb/7.5-9 kg light green fruit with dark stripes. Dark red sweet flesh. Mainly 45 & 36 count fruit show less hollow heart. Fusarium and ANTH resistant.

**388Q FASCINATION** 83 days. Globe striped type 20 lb/9 kg dark red flesh. Some resistances, great taste!

**384V EXCURSION** 83 days. Blocky oval 17-22 lb/7.75-10 kg light green fruit, dark green stripes and deep red very sweet flesh. Potential for 50-36 count fruit. ANTH and Fusarium resistance.

**384H DISTINCTION** 80 days. Globe shaped fruit, 15-18 lb/6.5-8 kg. Resistant to Fusarium 1 and ANTH.

**384X WARRIOR** 80 days. Blocky oval 17-20 lb/8-9 kg medium green fruit with dark stripes, bright red firm sweet flesh. Mainly 45 count. High quality interiors. Very adaptable.

**387T TAILGATE** 85 days. Oblong 17 lb/8 kg dark green striped Crimson sweet type watermelon with deep red firm flesh. High yield potential and very adaptable. High brix.

**384Z ROAD TRIP** 85 days. Oblong 16-18 lb/7.5-8 kg mottled green uniform fruit have very firm bright red sweet flesh. Very high 11.7 brix and less hollow heart. ANTH and Fusarium resistant.

**384R JOY RIDE** 85 days. Oblong 18 lb/8 kg mottled stripe, thick rind dark red high brix 11.5. Uniform set, 36 count. Fusarium resistant.

**384M CAPTIVATION** 89 days. 14-17 lb/6-8 kg Crimson Sweet type. Deep green skin, firm red flesh. For fresh cut, fresh market. ANTH and Fusarium resistant.

**387Y YELLOW BUTTERCUP** 90 days. Round oval 14-16 lb/6-7 kg with dark green thin stripes on light green background. Bright yellow dense flesh with crisp eating. High yield potential.

**388R CRUNCHY RED** 90 days. Meets fresh cut standards. Round, blocky 15 lb/7 kg mid green striped fruit. Deep red flesh. Very high brix. ANTH resistant.

**384N EXCLAMATION** 90 days. Large blocky Crimson Sweet type 14-17 lb/6-7.5 kg, deep green skin. Firm red flesh for fresh cut. ANTH and Fusarium resistant.

**388U ORANGE CRISP** 92 days. Replaces Orange Sweet. Round oval Jubilee shape. 14-18 lb/6-8 kg. Don't pick too early.

NEW	HYBRID WATERMELON (Diploid/Seeded)	10 seeds	1,000 seeds	5 M per M	25 M per M	NOTE: Commercial sizes require signed waivers through our commercial sales reps.
	382A Yellow Doll	5.25	128.28	103.28	ASK	WFB causes severe damage to commercial crops below the 40 <sup>th</sup> parallel. The source of this bacteria can be diseased soil, weeds, fruit from diseased areas, infected greenhouses or trays, wind, migrating insects, neighboring diseased plants and seed. Seed suppliers and scientists are continually limiting the possibility of diseased seed by screening methods, test procedures and minimum 0/10M WFB indexed seed. <i>Seedsmen cannot be responsible for non-seed sources of this bacterium. Seed is sold in originator 1M growers pkgs. with 0/10M or 0/50M WFB statements. Customer signed waivers are required.</i>
	384A Royal Sweet	N/A	93.69	82.16	ASK	
	384P Pata Negra	5.00	121.38	97.73	ASK	
	384L Ace Pollinator	N/A	200.66	161.55	ASK	
	384S Sangria	N/A	119.70	96.37	ASK	
	384Y Mini Love	9.20	223.86	180.24	ASK	
✓	387W Wild Card Plus	11.75	286.65	230.79	ASK	

NEW	HYBRID SEEDLESS WATERMELON (Triploid)	10 seeds	1,000 seeds	5 M per M	25 M per M	Commercial size packages are sold only with waivers through our commercial sales representatives.
	384H Distinction Hybrid	N/A	355.15	285.94	ASK	NOTE: Small packets of seedless types contain 5 seeds of the seedless variety and 5 seeds of a seeded type (top section) for proper pollination and are priced accordingly. Growers must purchase a seeded pollinator for 1,000 seed seedless originator packaged varieties. Choose a similar maturity and flesh color with different skin color or stripe as a contrast, if possible, for the seeded pollinators or use the Super Pollinators - <b>Ace and Wild Card Plus</b> .  Seedless varieties: 10 seed packet contains 5 seeds of seedless type and 5 seeds of male pollinator and is priced accordingly.
	384M Captivation Hybrid	16.00	389.82	313.86	ASK	
	384N Exclamation Hybrid	N/A	393.28	316.64	ASK	
	384Q Sweet Gem Hybrid	N/A	551.81	444.28	ASK	
	384R Joy Ride Hybrid	15.00	366.20	294.84	ASK	
	384U Sweet Dawn Hybrid	18.20	443.19	356.82	ASK	
	384V Excursion Hybrid	N/A	417.30	335.98	ASK	
	384X Warrior Hybrid	N/A	447.53	360.32	ASK	
	384Z Road Trip Hybrid	15.00	366.20	294.84	ASK	
	387T Tailgate Hybrid	15.20	370.66	298.43	ASK	
	387Y Yellow Buttercup Hyb	20.00	487.31	392.34	ASK	
	388Q Fascination Hybrid	18.25	445.46	358.65	ASK	
	388R Crunchy Red Hybrid	N/A	384.11	309.26	ASK	
	388U Orange Crisp Hybrid	N/A	351.00	282.60	ASK	
	388V Melody Hybrid	N/A	421.38	339.26	ASK	
	388X Troubadour Hybrid	N/A	398.97	321.22	ASK	



Tomato Komeett



Tomato Cobra



Mini Cucumber Jewell



Pepper Chesapeake

## GREENHOUSE FORCING TOMATOES

**CULTURE:** Seed count per oz/28 g varies with variety. Spring crop: Sow January 1st-15th; transplant about 10 weeks later (March 15th-April 1st) in 2.5 ft/77 cm rows 16 in/41 cm apart. 250 plants per 1000 sq. ft/93 sq. metre. Day temperatures of 70-75°F/23°C, night 65-67°F/19°C. Must be pollinated every day between 11:30 a.m. and 12:30 p.m. (noon). Early morning or late afternoon pollinating will not produce proper crops. Smaller growers can use an electric toothbrush, larger growers, a Solo back sprayer. If soil tests show that your soil is well-balanced, feed heavily for 2 weeks after transplanting with 8-10 lbs/4.5 kg per 1000 sq. ft/93 sq. m of 10-52-10. For the balance of the growing season use 20-20-20 at the same rate. Fall crop: Sow June 1st-15th. Transplant July 6th-15th, no later than August 5th. FCRR means Fusarium Crown Rot resistant. **CLUSTER TYPE:** Growing cost is about 20% higher than single fruit production.

### CHERRY TYPES

**406J CAMELIA (VFT)** 65 days. Vigorous vine must be staked. Small .75 oz/20 g cherry fruit grow in clusters with good retention. Globe shaped fruit, semi green shouldered, very firm with long shelf life.

### CLUSTER TYPES

**366E KOMEETT (VFFN-ToMV-FCR-LM)** Replaces Clarence. Cluster type. Medium size 5.75 oz/163 g deep red round fruit, with uniform trusses. Even setting, easy to grow. Very early maturity, high yields. Excellent disease tolerances.

**406Z CENCARA (TMV-VF2C5)** Better cell structure, crack tolerance and taste than round cluster types. Indeterminate plant produces about 7 trusses with 8 saladettes per truss. Harvest ripe with stem, holds 10 days. 5 oz/142 g. Uniform green fruit. Excellent flavor, nice sugar/acid balance.

### STANDARD RED BEEFSTEAKS

**360B GERONIMO (TMV-VF2C5)** A most promising extra large 8.5 oz/240 g, firm beefsteak with good taste and nice red color. Fruit has very good crack tolerance. Plants have excellent vigor and balance. Easy to harvest.

**406L COBRA (TMV-VF2C5)** Best tasting of the greenhouse grown hybrids. Cobra has the interior ripening gene, missing from European types. This provides better consumer acceptance and field ripened taste. Large, firm, 8 oz/227 g beefsteak type fruit.

**406T TRUST (TMV-VF2C5 FCRR)** Good firmness, similar in size to Caruso at 8 oz/227g, but with a longer shape. Nice plant vigor and good yields. Good taste.

## EUROPEAN GREENHOUSE CUCUMBERS

### F1 Hybrid Gynoecious for Greenhouse Production

**WINTER CROPS** are usually started after fall tomatoes are finished - about Jan.5th - Feb.1st. **FALL CROPS** are sown in some areas during early August instead of fall tomatoes. **SUMMER CROPS** are used by some bedding plant growers to utilize vacant greenhouses during the summer months. Seed is sown during May or July. For this period we recommend varieties with some resistance to Downy and Powdery Mildews that plague greenhouse cucumbers in hot damp weather. **DISEASES:** All mildew resistant varieties should be used for summer or fall crops and will have better yields at greenhouse temps. of 72°F/22°C days and 66°F/19°C nights. PM = Powdery Mildew; DM = Downy Mildew.

NEW	EUROPEAN CUCUMBERS	25 seeds	100 seeds	500 seeds
138F	Dishon Mini	10.30	31.20	129.00
144K	Carmen	23.05	69.80	288.55
144Q	Camaro	47.10	142.55	589.45
144U	Jawell Mini	39.30	118.85	491.30

### LONG EUROPEAN CUCUMBERS

**144Q CAMARO** Best endurance for hot summers. Moderate plant habit saves labor. Very high yields of excellent quality 16 in/41 cm fruit during spring and autumn months. Intermediate PM resistance.

**144K CARMEN (Mildew Tolerant)** For summer and fall crops. Good shelf life, short necks, dark green skin. Scab resistant for Northern areas.

### MINI CUCUMBERS

**138F DISHON** Hybrid Beit Alpha Middle East type. Short, mini dark green fruit have very smooth skin and unique flavor, averaging only 6 in/15 cm long.

**144U JAWELL** Dark green 6 in/15 cm mini fruit with nice ribbing. Good shelf life. Necrosis free. For year round culture. Intermediate PM, plus CMV and CVYV resistances.



Tomato Camelia

## HYBRID SWEET PEPPER

### For High Tunnel Culture and Staking Type Plants

**CULTURE:** These are NOT greenhouse peppers! They have a limited disease package which includes resistances to TMV and some Tomato Spotted Wilt. They do not have BLS, a Phytophthora or Mildew resistances so they must be grown in an open high tunnel to provide the variety with some added protection from insects and some diseases. Plants are vigorous, indeterminate and must be grown on 4.5 ft/1.37 m stakes. Therefore tunnel sides must be at least 6 ft/1.8 m high. Fruits are medium sized, 3.75 in/9.5 cm, high quality and ripen uniform dark green to red 4 lobed bell types very early in the season. Growers must avoid tunnel construction in heavily diseased locations. Use plastic ground cover to stop weeds.

**257D CHESAPEAKE F1** hybrid. Very early, smooth, blocky fruit change color from dark green to red rapidly. Tall plant provides excellent fruit cover and matures higher yields of red fruit on stakes than row crop varieties. Extend fresh market harvests throughout early summer until mid fall with high tunnel protection. Pkt. (25 seeds) \$27.25; 250 seeds \$179.15; 500 seeds \$265.15; 1,000 seeds \$450.04; 5,000 seeds and over \$382.20 per M.



Long European Cucumber - Carmen

NEW	GREENHOUSE FORCING TOMATOES	# seeds per pkt	Pkt	250 seeds	500 seeds	1,000 seeds
360B	Geronimo	25	30.55	259.15	383.55	651.00
366E	Komeett	25	35.00	299.05	442.60	751.26
406J	Camelia	25	13.85	56.65	77.65	131.76
406L	Cobra	25	11.55	88.20	130.50	221.50
406T	Trust	25	25.25	199.20	294.85	500.44
406Z	Cencara	25	17.00	139.60	206.60	350.69

## HIGH TUNNEL INFORMATION

Tunnel Tech - [www.tunneltech.ca](http://www.tunneltech.ca)  
 Haygrove - [www.haygrove.com/ca](http://www.haygrove.com/ca)  
 Cornell University, Ithaca NY USA 14853  
 1-607-255-4568 (1789)  
 University of Guelph, Guelph ON Canada N1G4Y2  
[www.ontario.ca/crops](http://www.ontario.ca/crops)  
 1-877-424-1300



Celosia First Flame Purple



Coreopsis Double the Sun



Snapdragon Snaptini Peach



Dianthus Corona Cherry Red



Lavender Big Blue



Helianthus Smiley



Vinca Tattoo Raspberry



Begonia TopHat White



Ageratum Aloha Blue



Marigold Super Hero Spry



Ornamental Corn Zebra Pink



Lavender Avignon Early Blue

## NEW FLOWERS OF MERIT 2019

**AGERATUM - Aloha:** Early flowering vigorous type with excellent garden performance. Suited for growing in paks or 4 in/10 cm pots, well suited for mass production.

**BEGONIA - TopHat:** Strong upright branching habit with huge flowers. Finishes one week earlier than other varieties and is the first extra-large type with white flowers. Great performance in both patio containers and landscapes.

**CELOSIA - First Flame:** Excellent brightly colored summer blooms finish days earlier than other varieties. Uniform branching habit across all colors for fuller looking containers. Ideal as a border plant.

**COREOPSIS - Double the Sun:** Early, semi-double 2.5 in/6 cm golden yellow flowers. Great controlled habit with strong flowering. Primed seed. Zone 4A-9B

**COSMOS - Sonata Purple Shades:** Bedding or cut flower type. Wind tolerant bushy plants have many 2.5 in/6 cm single blooms.

**DIANTHUS - Corona:** Uniform flowering time and habit with extra large blooms. Compact, mounded plant. Excellent cool weather performance makes it a great choice to plant with other cool-season annuals like pansies.

**HELIANTHUS - Smiley:** Height varies under daylength. Short: 5-8 in/12.5-20 cm Long: 13-16 in/33-40.5 cm. Rich color with broad petals that maintain excellent shape.

**LAVENDER - Avignon Early Blue:** Tight, well-branched and strong stemmed plants produce deeper blue flowers earlier than other English Lavenders. Grow as an annual in the early cool season.

**LINARIA - Fantasista Mix:** Extra dwarf plants with an exceptionally compact basal branching habit. Blooms 7-10 days earlier and can withstand frost to -4°C/26°F.

**MARIGOLD - Super Hero:** Meet the next generation of heroes! Early flowering compact plant habit and the most uniform series in paks and pots. Eight colors with a very good and stable flower pattern.

**ORNAMENTAL Corn - Zebra Pink:** Green and white striped foliage add drastic color and texture in late season containers or gardens. Foliage changes to a range of purples, red and pinks with cool nights and long days. Each stalk produces many small ears with purple kernels and tassels.

**SALVIA - Big Blue:** Vigorous flowering annual in a beautiful clear blue color. Super easy and super showy for back of border plantings. Performs great in heat, low maintenance with no deadheading required. Pollinator friendly.

**SNAPDRAGON - Snaptini:** This compact, well-branched and early flowering snap looks stunning in high-density pots. Consistent crop timing across all seasons.

**VINCA - Tattoo:** Bold, fun and head turning! This vinca's unique petals have an airbrushed look with soft strokes of black. Very floriferous and well-branched plants with an overlapping, fully round form that won't show gaps in hot temperatures. Outstanding color in hot, sunny conditions.

**VIOLA - Sorbet XP Pink Wing:** Early prolific bloomer with uniform habit that remains compact in a range of weather conditions. **Colormax Lemonberry Pie Mix:** A giant-flowered viola that is heat tolerant and fills pots easily, even under heat stress where standard violas suffer. It is a superb autumn performer and a great choice to start the season.



Cosmos Sonata Purple Shades



Linaria Fantasista Mix

# STOKES®

SEEDS

Quality Seed Since 1881

SEED DISTRIBUTOR FOR:

SYNGENTA	TAKII	CROOKHAM	IFSI
VILMORIN	NUNHEMS	SENECA	KIEFT
FLORANOVA	BENARY	HEM	KNOWN YOU
HAZERA	RIJK ZWAAN	HOLLAR	SEMINIS
SAKATA	PAN AMERICAN	ENZA	SEEDSENSE
DERUITER	HARRIS MORAN	TOZER	US AGRISEEDS

A MEMBER

OF:



asta  
first-the seed™



Ageratum Aloha Blue



Ageratum Aloha White



Abutilon Bella Select Mix



Alyssum Easter Bonnet Lemonade



Wonderland Deep Purple



## ABUTILON



**CULTURE:** Approx. 8,500 seeds per oz/28 g. Abutilon is really a tender shrub but is grown as a popular annual bedding plant. Blooms the first summer in 4 in/10 cm pots, baskets or as a small standard, in gallon containers, in about 11-13 weeks. Sow April 1st, germinate 3 to 5 days at 70°F/21°C in high humidity, cover seed lightly. Grow plants at 65-75°F/18-24°C. Flowers from seed in 80 days.

**477 Bella Select Mix** F1 hybrid. (8-14 in/20-36 cm) Large 3-4 in/8-10 cm pastel blooms in ivory, lemon, pink, apricot, rose, coral and red. Great for flowering house plant or bedding plant use. 100 seeds \$39.60; 1,000 seeds & over \$222.89 per M.



## AGERATUM

**CULTURE:** 210,000 seeds per oz/28 g. **GREENHOUSE:** Sow Feb. to April at a soil temp. of 80°F/27°C for 7 days. Do not cover seed as it must have light to germinate. Press seed firmly into seed bed. Use luke-warm water to germinate. Transplant 4 weeks from seeding. Grow plants at 60°F/16°C. Sow approx. 1/256 oz/0.11 g for 800 seedlings. Allow 10-12 weeks from seeding/ sale in paks and 12-14 weeks for 2.25 in/6 cm pots.



## ALOHA

(6-8 in/15-20 cm) F1 hybrid. Early flowering vigorous type with excellent garden performance. Suited for growing in paks or 4 in/10 cm pots, well suited for mass production. Pelleted seed only.

**P429A White**

**P429B Blue**

Prices for Aloha: Pkt. (100 pellets) \$2.80; 1,000 pellets & over \$17.83 per M.

## CLOUD NINE

(4-5 in/10-13 cm) Our earliest uniform series - 7 days earlier and leaves are smaller than other hybrids. Flower size of both the blue and white is large (0.5 in/1 cm). Cloud Nine blue has darker flower buds than most pale blue hybrids. Pelleted Seed.

**P430Z Blue** CROP FAILURE

**P430Y White** CROP FAILURE

**435 Diamond Blue** (6 in/15 cm) F1 hybrid. Strong base branching plants are very early to flower, vigorous and well suited to larger containers or in garden bed. Pkt. (10 seeds) \$2.50; 1,000 seeds & over \$17.82 per M.

**P436P Blue Hawaii 5.0** F1 hybrid. Improved sky blue version of the original. Dwarf 6 in/15 cm plants. Pkt. (100 pellets) \$3.35; 1,000 pellets & over \$19.69 per M.

**P439 Blue Danube®** (6 in/15 cm) F1 hybrid. Popular mid blue. Single pellets only. Pkt. (100 pellets) \$2.80; 1,000 pellets & over \$12.72 per M.

**431 Blue Mink** (10-12 in/25-30 cm) Standard, large flowered fluffy powder blue blooms. Best O/P for cutting or intermediate height borders. Pkt. (250 seeds) \$2.35; 1/8 oz. \$3.15; 1/2 oz. \$8.95; oz. \$13.75.



## TALL AGERATUM

### HIGH TIDE®

(24 in/61 cm) F1 hybrid. Taller, more vigorous than other ageratum. Provides a dense mounded hedge of color. Self cleaning large Blue Mink type blooms - outlasts standard or hybrid ageratum as a bedding plant. Crop time 12-14 weeks. Single pellets only.

**P437A Blue**

**P437B White**

Prices for High Tide: Pkt. (10 pellets) \$5.75; 100 pellets \$28.70; 1,000 pellets & over \$161.46 per M.



## ALYSSUM



**CULTURE:** Sow Feb.15th-Apr.1st for May blooms. Do not cover seeds. Germinate at 65-70°F/18-21°C soil temp. for 3 days. Grow seedlings at 55°F/13°C. Use well drained soil that is not too high in pH. As blooms appear, give partial shade for the richer colors. **DIRECT SEED:** Sow outside in late May, thin to 4 in/10 cm apart. 1/8 oz/3.5 g should provide about 1500 seedlings. Allow 6-9 weeks from seeding to sale in paks. Grow plants cool 50°F/10°C for deeper colors.

**P426Z North Face White** (5-6 in/13-15 cm) A new tetraploid Alyssum with a good cascading plant habit and extra large 0.25 in/0.5 cm pure white blooms. Transplant into 4 in/10 cm pots or 12 in/30 cm mixed annual baskets. Crop time 8-10 weeks for pots, 12 weeks for baskets. Coated seed. CROP FAILURE.

**426G Giga White** Larger blooms on 6 in/15 cm plants. Available in raw seed and multi-pellets - **add 'P' in front of code when ordering pellets.** Pkt. (250 seeds) \$2.05; 1,000 seeds \$2.69; 5,000 seeds & over \$2.24 per M.

Prices for Giga White Multi-pellets: 1,000 pellets & over \$25.44 per M.

**423 Snow Crystals** (6-10 in/15-25 cm) A unique white tetraploid. Scented, pure white blooms are large and plants take more heat stress. A good commercial pak type. Pkt. (250 seeds) \$2.50; 1/16 oz. \$15.50; 1/4 oz. \$54.45; oz. \$155.05.

### CLEAR CRYSTALS®

(6-10 in/15-25 cm) This fragrant tetraploid series has extra large flowers. Mounded plants are more vigorous than standard diploid varieties. Spreads 12-14 in/30-36 cm. Multi-seed pellets only.

**P513A Lavender Shades**

**P513C White**

**P513B Purple Shades**

**P513 Clear Crystals Mix**

Prices for Clear Crystals colors & mix: 25 pellets \$2.60; 250 pellets \$6.30; 1,000 pellets & over \$16.49 per M.



## ALYSSUM



### WONDERLAND®

(3 in/8 cm) Six colors and two mixes are bred to complement each other in growth habit, earliness and color intensity. Earlier blooming. Both raw seed and multi-pellets are available for Wonderland colors and mixes - **add 'P' in front of code when ordering pellets.** Multi-pellets contain 3 or more seeds per pellet.

**427 Deep Rose**

**427B White**

**427D Lavender**

**427E Deep Purple**

**427H Blue**

**427P Pink**

**427M Wonderland Mix** Formula blend of above.

**427Z Wonderland Mulberry Mix** Bright blues, purples and whites. Available as Raw seed only.

Prices for Wonderland seed: Pkt. (250 seeds) \$2.05; 1,000 seeds \$2.15; 5,000 seeds & over \$1.79 per M.

Prices for Wonderland Multi-pellets: 1,000 pellets & over \$21.97 per M.

**424 Rosie O'Day** (4 in/10 cm) Standard medium rose pink with white bee. Spreads to 10 in/25 cm. AAS Winner. Pkt. (1,000 seeds) \$2.50; 1/4 oz. \$7.35; oz. \$16.60.

### EASTER BONNET® SERIES

Plants are uniformly compact, very early flowering and fragrant across all the colors. They stay tidy much longer than any other alyssums - making this series excellent for borders or massed beds. Lemonade is a creamy light yellow; Peach is a pastel peach; Violet is a solid purple. Plants average 6-10 in/15-25 cm in height and spread 12-14 in/30-36 cm. **Available in raw or coated seed - add 'S' in front of code when ordering coated.**

**438A White**

**438B Violet**

**438C Lavender**

**438D Deep Rose**

**438E Deep Pink**

**438G Lemonade**

**438H Peach**

**438M Mix** Formula blend of 7 fragrant colors.

Prices for Easter Bonnet colors & mix: Pkt. (250 seeds) \$2.95; 1/16 oz. \$11.80; 1/4 oz. \$35.65; oz. \$117.45.

Prices for Easter Bonnet coated seed: 5,000 seeds & over \$2.81 per M.



Alyssum Clear Crystals Lavender Shades



Aster Bonita Scarlet



Aster Duchesse Formula Mix



Aster Matsumoto Mix



Ammi Majus Queen of Africa



Angelonia Serena Blue



## DWARF ASTERS



Popular for cutting. Some fusarium wilt (aster yellows) tolerance, but may be problematic with some varieties with no disease tolerance. Change seeding location each year or use fungicide before sowing to control most soil-borne diseases. Seed size and germination varies widely. 1/8 oz. provides about 800 seedlings, see package for germination test results.

For Best Dwarf Pot Asters Daylength is critical to plant height. Longer 15 hour days will keep plants short. Short daylength causes taller plants, later flowering. Dates are approx. for 43rd parallel (Detroit, MI) only.

Sow seed	To 2 1/4" Jiffy	To 4" Pot	Bloom & Sale
November 1 <sup>st</sup>	November 25 <sup>th</sup>	January 10 <sup>th</sup>	April
December 20 <sup>th</sup>	January 20 <sup>th</sup>	March 1 <sup>st</sup>	May
February 1 <sup>st</sup>	February 20 <sup>th</sup>	April 1 <sup>st</sup>	June
March 10 <sup>th</sup>	April 1 <sup>st</sup>	May 15 <sup>th</sup>	July
April 20 <sup>th</sup>	May 10 <sup>th</sup>	June 17 <sup>th</sup>	August

**628M Pot 'N Patio® Mix** (6 in/15 cm) Dark green, bushy, uniform plants produce fully double, rounded 2.25 in/6 cm blooms about 90 days from seed. Use day neutral plants for spring or fall beds in cool, short daylengths. Mix of blue, pink, scarlet and white. Pkt. (25 seeds) \$2.35; 500 seeds \$16.45; 1,000 seeds & over \$21.28 per M



## TALL ASTERS



**630 Crego Finest Mix** (20 in/51 cm) This old favorite has large, shaggy, curled blooms and strong stems. Mix of 6 colors. Pkt. (50 seeds) \$2.35; 1/4 oz. \$3.35; oz. \$6.45; 1/4 lb. \$25.80.

**615 Unicum Mix** (24 in/61 cm) Largest spider aster flower (4 in/10 cm) has double quilled blooms in 5 colors. Stake strong stems for commercial cut flower production. Pkt. (25 seeds) \$2.35; 1/4 oz. \$3.35; oz. \$8.65.



## UNIQUE GREEN ASTER



CULTURE: Unique flower without petals. Crop time 14-15 weeks from seeding. For earlier May flowers sow in January. For normal aster flowers in September sow by May 1st. Use 3-5 seeds per plug or 8 in/20 cm pot. Germinate in 12 days at 68-70°F/20-21°C. Cover seed lightly with vermiculite or soilless mix. Transplant plugs or seedlings 4 weeks later. Grow cool at 60°F/16°C.

**631 Hulk** (24 in/61 cm) Unique flower features pale green blooms without petals. Likes partial sun or some shade for good color. Pkt. (100 seeds) \$2.75; 1,000 seeds & over \$25.90 per M.



Unique Aster Hulk



## TALL ASTERS



**639 Duchesse Formula Mix** (24 in/61 cm) Peony Aster. Blend of rose, blue, yellow, white, sky blue, scarlet, silver-blue and silver-rose. Huge, fully double 4 in/10 cm blooms on thick stems. Great for Sept. cut flowers. Pkt. (50 seeds) \$2.35; 1/16 oz. \$3.60; 1/4 oz. \$5.95; oz. \$14.85.

**635 Tiger Paws Mix** (30 in/76 cm) Seastar. Spider Aster X Giant Crego. Huge 6 in/15 cm fully double, swirling blooms. Sturdy, well branched plants. Pkt. (50 seeds) \$2.35; 1/8 oz. \$3.55; 1/4 oz. \$6.65; oz. \$19.00; 1/4 lb. \$76.00.

### BONITA®

(30 in/76 cm) Pompon type. Fully double 2 in/5 cm blooms on sturdy tall wind and fusarium (aster yellows) tolerant plants. Harvest the whole plant. Crop Time 14-15 weeks. PVP.

**633A Blue**

**633C Pink**

**633E Scarlet**

**633 Mix** Formula blend of above colors

Prices for Bonita colors & mix: Pkt. (100 seeds) \$3.50; 1,000 seeds & over \$14.27 per M.

**633B Light Blue**

**633D Rose**

**633F White**

**660 Mixed Powderpuffs** (24 in/61 cm) The whole plant can be cut for a complete bouquet. Fully double 3 in/8 cm blooms lose yellow centers at maturity. Mix of white, pink, red, purple/blue with yellow. Pkt. (50 seeds) \$2.35; 1/4 oz. \$4.65; oz. \$12.90; 1/4 lb. \$46.25.

### LARGE SINGLE FLOWERED TYPES

Extra large single blooms on sturdy stems. For tall backgrounds.

**640 Serenade Mix** (30 in/76 cm) Early flowering semi-double daisy flowered type. 1 in/3 cm diameter in 9 colors. Tolerant to fusarium wilt (aster yellows). Scarlet, blue, blue tipped white, deep rose, red, rose, rose tipped white, white and yellow. Pkt. (100 seeds) \$2.35; 1,000 seeds & over \$8.72 per M.



## GIANT PRINCESS DOUBLE

### MATSUMOTO®

(30 in/76 cm) Popular fusarium (aster yellows) tolerant Princess type. All colors have contrasting yellow centers. Upright plants have strong stems. Tolerant to heat and some diseases. Blooms 90 days from seed. Mix is formula blend of 10 colors: apricot, blue, blue tipped white, light blue, pink, red, rose, scarlet, white, yellow.

**637K Rose**

**637P Dark Blue**

**637X Mix** Formula blend of 10 colors

Prices for Matsumoto colors & mix: Pkt. (100 seeds) \$2.35; 1,000 seeds & over \$10.54 per M.

**634 Standy Mix** (30 in/76 cm) The most disease tolerant tall Princess type. Quality stems for commercial cutting. Strong tolerance to Fusarium (aster yellows) and Verticillium wilts. Medium size 4 in/10 cm double blooms. Formula blend of 9 colors. Pkt. (25 seeds) \$2.90; 250 seeds \$8.40; 1,000 seeds & over \$21.69 per M.



## AMARANTHUS



CULTURE: 40-50,000 seeds per oz/28 g. GREENHOUSE: Sow Mar.15th in sandy, well drained soil for late April paks. Beautiful foliage sells on sight. DIRECT SEED: outdoors April 20th for fall cut flowers. Useful bedding plant for extra dry areas.

**608A Early Splendor** (3.5 ft/110 cm) Narrow bright red top leaves with bronze lower leaves. Very early. Pkt. (100 seeds) \$2.15; 1,000 seeds & over \$2.56 per M.

**608B Tricolor** (3 ft/90 cm) Joseph's Coat. Narrow top leaves are red and yellow with green bottom leaves. Pkt. (300 seeds) \$2.15; 1/16 oz. \$2.65; 1/4 oz. \$6.95; oz. \$27.80.

**608D Caudatus** (3 ft/90 cm) Love Lies Bleeding. Ropes of red blooms trail from main stems. Can use as dried flower. Pkt. (300 seeds) \$2.35; 1/16 oz. \$2.65; 1/4 oz. \$6.85; oz. \$27.40.



## AMMI MAJUS

CULTURE: Delicate white 5 in/13 cm flower clusters. Sow indoors Mar.1st at 59°F/15°C or direct seed in beds outdoors May 1st. Germinates in 10 days. Cut flowers are ethylene sensitive; vase life 3-5 days. Sell blooms unopened, strong stems. Great filler!

**484 Queen of Africa** (36 in/90 cm) A refined selection of Queen Anne's Lace. Creamy white blooms. Pkt. (300 seeds) \$1.50; 1,000 seeds & over \$2.25 per M.



## ANGELONIA



Hybrid (10-12 in/25-30 cm) First seed-grown angelonia can be grown easily from seed. **Plants are shorter than vegetative types.** An excellent choice as a mid-height bedding plant, like salvia, for hot/humid or hot/dry areas. Branches well without pinching - continuous bloomer - no deadheading required.

### SERENA®

CULTURE: Crop time 13-14 weeks. Start Feb.15-Mar.10 in the greenhouse and grow with impatiens. Germinate at 74°F/23°C for 4-5 days. Use 288 cell paks. Grow plants at 68-80°F/20-26°C days and 64-66°F/18-19°C nights. Transplant into 4-4.5 in/10-11 cm pots. Pelleted seed only.

**P623C Purple**

**P623E Blue**

**P623 Mix** Pink, sky blue, white, lavender, raspberry and blue

Prices for Serena colors & mix: Pkt. (10 pellets) \$4.75; 100 pellets \$27.80; 1,000 pellets & over \$189.54 per M.

**P623D White**



## BALSAM (Lady Slipper)



CULTURE: 3-4,000 seeds per oz/28 g. 1/8 oz/3.5 g produces about 400 seedlings. Allow 6-8 weeks from seed to sale in paks. GREENHOUSE: Sow April 1st at 80°F/27°C, press seed into soil; do not cover (seed needs light to germinate). Partially cover trays for 8-10 days until seed sprouts. Transplant 12-15 days later. Grow plants cooler at 60°F/16°C.

**695 Double Camellia Flowered Mix** (18 in/46 cm) Double flowers are carried well above bushy foliage. Pkt. (50 seeds) \$2.35; 1/8 oz. \$4.35; 1/2 oz. \$8.50; oz. \$12.15.



Bada Boom Series



Sprint Plus Blush



Bada Bing White



Megawatt Pink Green Leaf



Tophat White



Tophat Scarlet



## FIBROUS BEGONIAS



**CULTURE:** 1/64 oz/5 g - 33,000 seeds; 65-75°F/18-24°C; 2-3 weeks; sow Jan. for 4 in/10 cm May sales. Production of begonias from seed is easy, by following cultural directions closely. To germinate, maintain constant temp. of 70°F/21°C. Use light fibrous soil of equal parts light soil, sand, peat moss or leaf mold. Soil must never dry until germination begins. After germination, the seedlings must be kept gently moist. Cover very slightly with big sand or light gravel. You should be able to still see soil, this helps keep constant humidity and protects emerging seedlings from direct sun, also protects the seed when watering. After germination a minimum night temperature of 60-65°F/16-18°C. A weekly feeding of 1/2 strength complete soluble fertilizer is necessary to keep them growing. Begonias are light sensitive, light 14-18 hours per day. Continue lighting after germination or they will not grow and will gradually disappear. Cover seed flats on bright days with one thickness of newspaper. Dec. or Jan. sowing produces for spring bedding. Sow July for Christmas and mid winter sales.



## BRONZE FOLIAGE HYBRIDS



### BADA BOOM®

(8 in/20 cm) Best dark bronze leaf type in our trials. Matures 10-14 days earlier than the market leader. All colors bloom together - loaded with blooms! Croptime 12-15 weeks during short day length. Pelleted seed.

- P674A Pink
- P674C Scarlet
- P674E Rose Bicolor

- P674B Rose
- P674D White
- P674M Mix

Bada Boom pellets: 1,000 pellets & over \$6.72 per M.



### COCKTAIL™



Plants are quite bushy and vigorous like the Tausendschoens. Dark bronze leaves, 5 days later than the Rio types. Pelleted seed.

- P706A Vodka Scarlet
- P706C Whisky White
- P706D Cocktail Mix Best bronze leaf mix
- P706B Gin Rose-pink
- P706E Brandy Pink

Prices for Cocktail pellets: 1,000 pellets & over \$8.52 per M.



### BIG®



Allow 13-14 weeks from seeding to bloom for 6-8 in/15-20 cm plants in 10 in/25 cm pots or 3 plants per gallon container. For fully mature 28 in/71 cm plants for landscaping or park use, allow 16 weeks from seeding. Blooms are absolutely huge, averaging 3 in/7.5 cm in diameter (30% larger than Lottos). Golf ball sized flowers are held above the large dark bronze or bright green leaves for maximum contrast. Use mature for landscapes or extra large containers. Excellent for combination plantings, window boxes and hanging baskets. Pelleted seed only.

- P676D Pink Green Leaf
- P676A Red Bronze Leaf
- P676C Rose Bronze Leaf
- P676B Red Green Leaf

Prices for Big pellets: Pkt. (10 pellets) \$9.50; 250 pellets \$60.90; 1,000 pellets & over \$172.96 per M.



## GREEN FOLIAGE HYBRIDS



### SPRINT PLUS

(9 in/23 cm) The fastest, most uniform Begonia semperflorens on the market! Blooms approximately 10 days earlier. Keeps compact on the shelf, does not stretch! Great in pots, baskets or in the landscape. Crop time 10-14 weeks. Pelleted seed only.

- P707B Appleblossom
- P707D Orange
- P707F Red
- P707H White

- P707C Blush
- P707E Pink
- P707G Rose
- P707M Maxi Mix

Prices for Sprint Plus pellets: 1,000 pellets & over \$8.46 per M.

### BADA BING®

(8 in/20 cm) Best green leaf type for early spring crops. Matures 10-14 days earlier than the market leader. All colors bloom together - loaded with blooms! Crop time 12-15 weeks in the northeast. Pelleted seed only.

- P672A Pink
- P672C Rose Bicolor
- P672E White

- P672B Rose
- P672D Scarlet
- P672M Bada Bing Mix

Prices for Bada Bing pellets: 1,000 pellets & over \$6.72 per M.



### DRAGON WING®

(12-15 in/30-38 cm) Amazing plant vigor. Huge glossy green wing-shaped leaves contrast nicely with large pendulous scarlet or pink blooms. Plants are heat tolerant used in hanging baskets or long stems trained to trellises in full sun or semi shade. Pelleted seed only.

### P701P Pink

### P701 Red

Prices for Dragon Wing pellets: 100 pellets \$31.80; 1,000 pellets & over \$179.01 per M.



### BABYWING®

(12-15 in/30-38 cm) F1 hybrid. Upright, small flowered - 2 weeks earlier version of Dragon Wing type. Ships well, loves heat! Available in green and bronze foliage colors. Pelleted seed only.

- P675C Bicolor Green Leaf
- P675D Red Green Leaf
- P675A Pink Green Leaf
- P675B White Green Leaf
- P675P White Bronze Leaf
- P675 BabyWing Mix Blend of green & bronze foliage colors

Prices for BabyWing colors & mix: 100 pellets \$31.80; 1,000 pellets & over \$179.01 per M.



## BEGONIA BOLIVIENSIS



**Begonia boliviensis** Ideal for hanging baskets, patio containers or garden landscape. Plants average 12 in/30 cm in height; spread 16-20 in/41-51 cm; have dark green arrow shaped leaves and large bright red-orange conical shaped blooms. Plants like full sun or partial shade and flower under long daylength (10-14 hours). Total crop time 14-16 weeks. Plug crop 7-8 weeks in 288 trays; Transplant to finish 14-16 weeks. For 10 in/25 cm baskets (3-5 plugs per basket) will take about 8-10 weeks. **CULTURE:** Single seed pellets @ approx. 85% germ. Use well drained media with balanced fertilizer (pH 5.5-6.2). Maintain high moisture, germinate in 14 days @ 73°F/23°C; do not cover pellets; use additional light (50W per m<sup>2</sup>) to aid germ. Reduce temps to 70°F/21°C; lower humidity, use tempered water on seedlings and continue long daylength (14 hour) lighting. Grow @ 64°F/18°C. Transplant plugs 7-8 weeks after germ. Avoid soluble salts in your soil. Both Bossa Nova and Sun Cities are F1 hybrids. Pelleted seed.

### BOSSA NOVA®

- P705B Red
- P705D Pure White

- P705C Rose
- P705F Pink Glow

Prices for Bossa Nova: Pkt. (10 pellets) \$9.50; 250 pellets \$81.85; 1,000 pellets & over \$245.53 per M.

### SUN CITIES COLLECTION

- P678B Santa Barbara Pure White
- P678A San Francisco™ Bright Salmon
- P678 Santa Cruz® Bright red-orange blooms. All above have dark green leaves.

Prices for Sun Cities: Pkt. (10 pellets) \$9.50; 250 pellets \$80.40; 1,000 pellets & over \$241.21 per M.



## INTERSPECIFIC BEGONIA



### TOPHAT™



(16-20 in/41-51 cm) F1 hybrid. Strong upright branching habit with huge flowers. Finishes one week earlier than other varieties and is the first extra-large type with white flowers. Great performance in both patio containers and landscapes. Pelleted seed only.

- P708A Pink
- P708C White

### P708B Scarlet

Prices for TopHat pellets: 1,000 pellets & over \$164.25 per M.



### MEGAWATT™



(20-28 in/51-71 cm) F1 Hybrid. Striking flowers keep plants covered in color all summer! long! Performs well in heat/drought conditions with no deadheading required. Sturdy stems hold flowers above the foliage. Bronze leaf varieties flower faster than green leaf varieties. Ship and sell Megawatt containers early. Crop time 12 weeks. Pelleted seed only.

- P702K Pink Green Leaf
- P702E Pink Bronze Leaf
- P702G Rose Bronze Leaf
- P702J Red Bronze Leaf
- P702F Red Green Leaf
- P702H Rose Green Leaf

Prices for Megawatt pellets: 100 pellets \$31.80; 1,000 pellets & over \$179.01 per M.



### Pelleted Seed

Seed is enclosed in a pellet of inert material for ease of planting.



Begonia Illumination Lemon



Begonia Nonstop Mix



Begonia Nonstop Mocca Pink Shades



Calendula Pacific Beauty Mix



Fuseables Bacopa Utopia



## TUBEROUS ROOTED BEGONIAS



**CULTURE:** Sow in Dec.-Jan. 15th for June sales and Nov.15th for Mother's Day. Most tuberous types take a week longer to germinate than fibrous types. Normal germination takes about 20 days, you can cut this in half with heat lamps. Use timed lights, limiting day length to 15 hours. Longer periods cause leggy or stunted seedlings. This type of growth check will cause seedlings to try to form tubers almost at once - at this point they will stop growing and die. Germinate at 75°-78°F/24°-26°C at night. Use sterile soil medium like a Jiffy mix and sand mix. Keep seeds moist, watering with luke warm water. Shade young seedlings with cheesecloth from direct sun as they germinate. If using pellets with a misting system - do not cover them and keep them moist until they sprout. If you are growing plugs - do not let seedlings dry out or they will become stunted and form tubers in the seedling stage! Seed sold by count.



### PENDULA BEGONIA

#### ILLUMINATION®

Long flexible, cascading stems with large semi double blooms. Pelleted seed only.

- P704K Lemon**                      **P704A Salmon Pink**
- P704B Orange**                **P704D Rose**
- P704E White**                  **P704H Golden Picotee**
- P704J Illumination Mix** Formula blend of 6 colors.

Prices for Illumination pellets: Pkt. (50 pellets) \$5.75; 250 pellets \$22.15; 1,000 pellets & over \$62.84 per M.



### DWARF BRONZE FOLIAGE



#### NONSTOP® MOCCA

F1 hybrid, superior chocolate leaf colored companion for our popular green leafed Nonstop originals. The Nonstop Mocca series has 4 in/10 cm fully double flowers. Mix/eight vibrant colors contrast richly with dark coffee colored foliage. Pelleted seed only.

- P720F Red**                      **P720S Cherry**
- P720E Bright Orange**      **P720U Deep Orange**
- P720T Pink Shades**        **P720W Scarlet**
- P720X White**                **P720Y Yellow**
- P720Z Mocca Mix**

Prices for Nonstop Mocca pellets: Pkt. (50 pellets) \$5.75; 250 pellets \$15.20; 1,000 pellets & over \$43.16 per M.

#### NONSTOP®

Nonstops are perhaps the number one choice for window boxes in Europe. This series produces 100% double flowers, 3.5 in/9 cm across on 12 in/30 cm plants. Use for sales of 4 in/10 cm pots in late summer or spring as a bedding plant. Pelleted seed only.

- P719C Pink**                      **P719E Yellow**
- P719G White**                **P719H Orange**
- P719K Appleblossom**      **P719L Rose Petticoat**
- P719S Deep Rose**           **P719U Red**
- P719T Yellow w/red back**
- P719 Nonstop Mix** Formula blend of above.

Prices for Nonstop pellets: Pkt. (50 pellets) \$5.75; 250 pellets \$14.60; 1,000 pellets & over \$41.41 per M.

#### NONSTOP® JOY

- P718K Mocca White**        **P718Z Yellow**

Prices for Nonstop Joy pellets: Pkt. (50 pellets) \$5.75; 250 pellets \$25.55; 1,000 pellets & over \$72.56 per M.

### DWARF GREEN FOLIAGE TYPE

**P679 Funky® Pink** (8 in/20 cm) Compact semi-trailing, well branched plants are easy to grow. Puts on an outstanding show in baskets, containers or in the landscape. Withstands full sun and lightens up shady places. Reliable, high germination. Pelleted Seed only. Pkt. (10 pellets) \$6.25; 250 pellets \$63.00; 1,000 pellets & over \$188.00 per M.



### BACOPA



**CULTURE:** Approx. 12,675-19,845 multi-pellets per oz/28g. First Bacopa from seed rather than cuttings. Crop time 10-12 weeks. Leave seed uncovered after sowing and mist well. Germinate 4 days at 68-74°F/20-23°C. Grow at 60°F/15°C days, 55°F/13°C nights. Use 4.5 in/11 cm pots or 10-12 in/25-30 cm hanging baskets. Flowers in 8-10 weeks for baskets. Heat tolerant - likes full sun. Not for landscaping.

- P663A Blutopia® Blue**                      **P663B Snowtopia® White**

Prices for Bacopa colors: Pkt. (10 pellets) \$5.75; 100 pellets \$27.30; 1,000 pellets & over \$170.24 per M.



Easy-to-grow Fuseables® precision multi-pellets are formulated to germinate and grow a balanced mix of Blutopia and Snowtopia for a more natural looking combination of blue and white bacopa from the same precision multi-pellets with a 95% germination standard. Crop time is about 8-12 weeks from sow to finish. Perfect for hanging baskets or large patio containers. Use 3-5 plugs per pot. Press precision multi-pellets into the soil surface. See index for more Fuseables®!

**P1901A Utopia** Blue and white seeds in the same pellet. Pkt. (10 pellets) \$5.75; 100 pellets \$29.70; 1,000 pellets & over \$189.27 per M.

## BEANS (Ornamental Climber)

**698 Scarlet Runner** (10 ft/3 m) A rapid climber covered with attractive bright red blooms. The green beans are edible. 2 oz. \$2.95; 1/2 lb. \$5.10; lb. & over \$7.35 per lb.



### Pelleted Seed

*Seed is enclosed in a pellet of inert material for ease of planting.*



## BELLS OF IRELAND



**CULTURE:** 4,000-5,000 seeds per oz/28 g. Pre-chill seed at 50°F/10°C for 5 days. Sow seed in sandy soil April 1st, germinates irregularly in 5 weeks. Alternate soil temp. between 50-85°F/10-29°C. Grow at 60°F/16°C. Keep moist, sow outside May 1st, thin to 12 in/30 cm apart.

**711 Bells of Ireland** (2 ft/60 cm) Long stems covered with green, bell-like 2 in/5 cm blooms. Excellent for dried bouquets or cut flowers. Pkt. (100 seeds) \$2.15; 1,000 seeds & over \$4.53 per M.



## BRACHYCOME



### SWAN RIVER DAISY

**CULTURE:** Sow outdoors May 15, 1/8 in/3 mm deep. Sow indoors in peat pots April 15.

#### SPLENDOR™

(10 in/25 cm) Unique, fragrant, dwarf bush, single flowered daisy. Used for borders, rock gardens, window boxes, massed beds or cut flowers. Needs rich soil and lots of sun.

**728 Purple**                      **728A White**  
Prices for Splendor Purple & White: Pkt. (250 seeds) \$2.15; 1,000 seeds & over \$4.27 per M.



## CALENDULA



**CULTURE:** 3,500 seeds per oz/28 g. .25 oz/7 g provides about 700 seedlings. Germinate at 75-65°F/24-18°C day and night temps. for 5-10 days in darkness, .25 in/6 mm deep, cover seed. Sow March - April for July cutting. June 15th for fall blooms. Thin to 12 in/30 cm apart.

**739 Pacific Beauty Mix** (18 in/46 cm) Popular for bedding or florist outdoor cutting. Long stems, double flowers, heat tolerant. A great background for fall mums. Pkt. (100 seeds) \$2.35; 1/4 oz. \$3.75; oz. \$10.70.



## DWARF CALENDULA

Approx. 5,500 seeds per oz/28 g. These types are used for 4 in/10 cm pots or formal bedding combinations in cooler climates. Fiesta is recommended for bedding and the Bon Bons for pots. Allow 8 weeks from seed to sale for paks and 10 weeks for pots.

**741 Fiesta** (12 in/30 cm) A bushy, vigorous dwarf plant. Wider color range, 2 in/5 cm blooms. Pkt. (50 seeds) \$2.35; 1/4 oz. \$2.90; oz. \$6.50.

**741A Touch of Red Mix** (24 in/60 cm) A bicolor blend of red, yellow and orange, each petal with a red tip. Double 2.5 in/6 cm blooms. Pkt. (50 seeds) \$2.35; 500 seeds \$5.00; 1,000 seeds & over \$9.48 per M.

#### BON BON™

12 in/30 cm bushy plants are perfect for 4 in/10 cm or 6 in/15 cm pots and gallon containers. Large 2.5 in/6 cm double blooms bloom 10 days earlier than Fiestas.

**747A Orange**                      **747B Bright Yellow**  
**747C Bon Bon Mix** Formula mix of apricot, yellow, light yellow, orange

Prices for Bon Bon colors & mix: Pkt. (50 seeds) \$2.35; 500 seeds \$5.00; 1,000 seeds & over \$9.48 per M.





Calibrachoa Kabloom Denim



Calibrachoa Kabloom Yellow



Carnation Enfant de Nice Blend



Clarkia Mix



Chrysanthemum Annual Mix



## CALIBRACHOA

### KABLOOM®

(4-10 in/10-25 cm) CULTURE: Sow Jan. 15 - Feb. 15th - single seed pellets in light or darkness - do not cover with media. Germinate @ 73°F/22.5°C for 7 days. Crop time for 4-6 in/10-15 cm pots and single plants is 12-13 weeks; 10 in/25 cm baskets @ 3 plants per basket 14-15 weeks; 12 in/30 cm 5 plant baskets 14-15 weeks. Pelleted seed only.



**P1800G Denim**  
**P1800F Yellow**

**P1800E White**  
**P1800B Deep Pink**

Prices for Kabloom colors: 50 pellets \$17.95; 100 pellets \$30.15; 500 pellets \$133.55; 1,000 pellets \$187.79.



See index for more Fuseables®!

**P1800Z Paradise Island** (8-12 in/20-30 cm) The first Calibrachoa Fuseable! Combines Kabloom Yellow, Denim and Rose in the same precision multi-pellet. 50 pellets \$35.40; 100 pellets \$59.40; 500 pellets \$263.35; 1,000 pellets & over \$370.31 per M.



## CALLIOPSIS

CULTURE: Sow indoors April 1st. Germinate at 65 F/18 C soil temp for 3 weeks. Sow outdoors late April. Thin seedlings 10 in/25 cm apart. Blooms late July. Great single flowered bloom for cut flower or wildflower use.

**738 Finest Mix** (24 in/61 cm) Standard tall daisy-like flower or wildflower with medium sized single 2.5 in/6 cm annual blooms used for cut flowers. Pkt. (250 seeds) \$2.35; 1/4 oz. \$2.65; oz. \$4.60; 1/4 lb. \$18.40.



## CANDYTUFT (Umbellata)

CULTURE: 9,500 seeds per oz/28 g. For greenhouse May pots, sow umbellata type Dec. to Jan. Germinate at 70°F/21°C soil temp. for 7 days. Transplant immediately, grow at 50°F/10°C. Blooms 6 weeks from outdoor seeding.

**755A Flash Mix** (10 in/25 cm) Dwarf Umbellata annual mixture with a wide color range that includes red, white, rose, carmine, purple, pale pink and lilac shades. Flowers June till frost. Compact, dome-like plants are used for borders, rock gardens and cut flowers. Pkt. (275 seeds) \$2.35; 1,000 seeds & over \$3.45 per M.



**4 Easy Easy Ways To Order!**  
Please see page 1 for Details.

## COBAEA

Used by nurseries as a climber for spring bedding plant sales with morning glories. CULTURE: 300 per oz/28 g. Sow in pots anytime or outdoors May 20th. Must be staked.

**818 Scandens** Popular purple climber. Pkt. (25 seeds) \$4.25; 250 seeds \$26.05; 1,000 seeds & over \$54.06 per M.



## CARNATION



1/16 oz/1.8 g should provide 500 seedlings. Our special selection of carnations are grown for us by a carnation specialist in Europe. Our extensive carnation trials at 'Stokes' have proven, year after year, that our strains will delight the most discriminating grower. CULTURE: Approx. 200 seeds per pkt. Hybrids 10 seeds per pkt. 15,000 per oz/28 g. Sow Feb. 15th - March 15th for July blooms. Freeze seed for 5 - 7 days before sowing. Germinate at alternating temperatures of 70°F/21°C days and 60°F/16°C nights, for 7 days. Plant seed 1/8 in/3 mm deep and cover. Sow thinly. Transplant 4 weeks after seeding, keep well ventilated. Sow outside May 15th, thin in 20 days to 8 in/20 cm apart. Allow 10-12 weeks from seed to sale for paks and 12-14 weeks for dwarf hybrid pot types. Use 4 in/10 cm pots.

**765 Enfant de Nice Blend** (16 in/41 cm) Standard medium height O/P blend for bedding plant sales. Stems are stronger, plants are shorter than Chabauds. Blend of 10 colors. Double flower, scented blooms. Pkt. (200 seeds) \$3.25; 1/8 oz. \$7.25; 1/4 oz. \$12.70; oz. \$36.30.

## DWARF HYBRID CARNATION

**766 Can Can Scarlet** (18 in/46 cm) 2 in/5 cm Scarlet "knee-high" fragrant carnation for use as a bedding plant or for cut flowers. Crop time 4-5 months to bloom. AAS Winner. Pkt. (10 seeds) \$5.95; 100 seeds \$31.40; 500 seeds \$117.30; 1,000 seeds & over \$197.07 per M.



## CLARKIA

CULTURE: 80,000 seeds per oz/28 g. Sow outdoors in early April in clumps of about 50 seeds, very thinly. Space out plants by thinning 6 in/15 cm apart. Likes a cool semi shaded location. For early blooms, sow indoors March 1 at 65-70°F/18-21°C directly into peat pots. Used as medium height background in parks or estate plantings. Easy to grow for cut flower production. Blooms last 6-9 days after cutting. Use above the 40th parallel (Columbus, Ohio).

**820 Mix** (24 in/61 cm) A choice mixture, shades of salmon, pink, mauve, carmine, white and red. Plants flower from seed in 90 days. Pkt. (1,000 seeds) \$2.15; 1/4 oz. \$2.40; oz. \$5.35.



Calliopsis Finest Mix



## CHRYSANTHEMUM



### PAINTED DAISY

CULTURE: 9,000 per oz/28 g. 1/8 oz/3.5 g should provide 600 plants. Sow indoors March 1st at 60°F/16°C soil temp. 1/8 in/3 mm deep at 6 seeds per in/25 mm, cover with soil. Keep in dark for 10 days. Sow outdoors in rows May 15th, thin 8 in/20 cm apart.

**810 Single Annual Mix** (24 in/61 cm) Large, single blooms include yellow, pink, purple and rust bicolors.

Prices for Painted Daisy mix: Pkt. (150 seeds) \$2.25; 1/4 oz. \$3.15; oz. \$8.40.

### MINIATURE BUTTON TYPES

CULTURE: Multicaule - 17,000 seeds per oz/28 g. Snowland (Paludosum) -32,000 seeds per oz/28 g. Sow both indoors Feb.15th for May-June blooms. Germinate at 60°F/16°C for 14 days in darkness.

**849 Multicaule** (10 in/25 cm) Masses of tiny, single yellow blooms. A great ground cover or for rock gardens. Pkt. (150 seeds) \$2.25; 1/8 oz. \$5.50; oz. \$34.40.

**817 Snowland™** (10 in/25 cm) Large 1.5 in/38 cm white, single blooms, yellow centers. 100 seeds \$2.65; 1,000 seeds & over \$5.08 per M.



## CYNOGLOSSUM

### Chinese Forget-Me-Not

Plants are similar in appearance to the perennial myosotis. CULTURE: 8,400 per oz/28 g. Scatter seeds thinly April 10th in cool semi-shaded areas. Gray-green foliage.

**839 Firmament** (16 in/41 cm) Bright rich blue, dwarf plant. AAS Winner. Pkt. (150 seeds) \$2.35; 1/4 oz. \$3.65; oz. \$6.65.



Candytuft Flash Mix



Celosia First Flame Yellow



Celosia First Flame Purple



Celosia Century Salmon Pink



Celosia Fresh Look Yellow



Celosia Kimono Formula Blend



## CELOSIA



**CULTURE:** Plumosa or feathered class has two different types. Dwarf strains are used for informal bedding effects. Tall types are sometimes preferred to salvia for background plantings. The taller plumosa types also are great for fall cut flowers or dried arrangements. **GREENHOUSE:** Dec. sowings for florists' pots only. Do not sow before April 1st for bedding plants. Germinate at 70-80°F/21-27°C soil temp. for 5 days. Use luke warm water at all times when watering. 1 oz/28 g sows 16 (12x20 in/30x51 cm) flats at 600-700 seedlings per flat. Sow as thinly as possible 1/8 in/3 mm deep, in sandy soil, cover seed. Grow seedlings at 70°F/21°C. Keep in a well ventilated area and avoid cold drafts. Transplant at same depth as original seedlings, not too deep. **DIRECT SEEDING:** Sow outdoors May 15th for June blooms 1/8 in/3 mm. deep, thinning tall types to 16 in/40 cm apart - dwarf types 8 in/20 cm apart.



### DWARF PLUMOSA TYPES



### TALL PLUMOSA TYPES



#### FIRST FLAME

(10-14 in/25-36 cm) Excellent brightly colored summer blooms finish days earlier than other varieties. Uniform branching habit across all colors for fuller looking containers. Ideal as a border plant. Coated seed.

**768G Purple**  
**768J Yellow**

**768H Red**  
**768M Mix**

Prices for First Flame colors & mix: Pkt. (50 seeds) \$2.35; 1,000 seeds & over \$13.98 per M.

#### BRIGHT SPARKS

(11-12 in/28-30 cm) Stands out from the competition with large 3-4 in/8-10 cm plumes on a well branched habit that results in secondary bloom sizes that match the initial flower. Great heat tolerance and less prone to color fading. Puts on a showy, long lasting garden display.

**751W Bright Yellow**  
**751Y Scarlet**

**751X Deep Rose**

Prices for Bright Sparks colors: Pkt. (50 seeds) \$2.35; 1,000 seeds & over \$11.95 per M.

#### KIMONO

(10 in/25 cm) A true dwarf type developed primarily for pots. Plumes show 6-7 weeks after seeding and plants remain about the same height throughout the season.

**774A Red** Bronze leaves

**774B Yellow**

**774C Rose**

**774D Orange**

**774E Cream** Creamy yellow

**774J Cherry**

**774L Salmon Pink** Rosey pink

**774K Scarlet**

**774 Kimono Formula Blend** Blend of select colors

Prices for Kimono colors & mix: Pkt. (75 seeds) \$2.45; 1,000 seeds & over \$7.19 per M.

#### FRESH LOOK

(14 in/36 cm) Fresh Look, well-branched green leaf plant, helps to protect tender roots from intense summer heat. New Look has bronze foliage, similar size plant. Coated seed.

**750E Gold** AAS Winner **750D Orange**

**750C Red** AAS Winner **750B Yellow** AAS Winner

Prices for Fresh Look colors: Pkt. (75 seeds) \$2.45; 1,000 seeds & over \$10.40 per M.

**750A New Look™** (16 in/41 cm) Scarlet plumes, bronze foliage. AAS Winner. Coated seed. Pkt. (75 seeds) \$2.45; 1,000 seeds & over \$10.40 per M.



#### CENTURY

(27 in/68.5 cm) Our best tall plumosa type. Great as a bedding plant for colorful tall backgrounds or for commercial cut flower use. Nice, full 12 in/30 cm feathery plumes with green leaves. Matures 80 days from sowing.



**751G Salmon Pink**  
**751B Yellow**

**751A Red**  
**751F Pink**

**751 Mix** Blend of flame, red, rose and yellow

Prices of the Century colors & mix: Pkt. (50 seeds) \$2.35 1,000 seeds & over \$10.01 per M.



### WHEAT CELOSIA (SPICATA)



#### TALL SPICATA TYPE

**CULTURE:** A unique plumosa spicata or wheat-feather type. 30,000 seeds per oz/28 g. **GREENHOUSE:** Sow indoors in late April, 5 weeks before transplanting outdoors. Germinate in warm 80°F/27°C soil. Increase germination by soaking seeds in a 0.2% solution of potassium nitrate for 5 minutes, dry seed and sow. Slim stems. Harvest tassels young in mid August, colors fade fast.

**749J Flamingo Feather** (18-26 in/46-66 cm) Light pink/white. Pkt. (50 seeds) \$2.35; 1,000 seeds \$3.76 per M.

#### CELOSIA ARGENTEA TYPE



**CULTURE:** Sow March 15th as it requires a longer 3 month vegetative growth time, transplanted into 5 in/13 cm pots (constricting growth) which promotes late June flowering in shorter daylength. Transplant outdoors July 1st for amazing red foliage throughout late summer and fall. Plants love heat. Use in gallon containers or landscaping.

**775Z Dragon's Breath** (24 in/61 cm) Glorious vibrant red foliage and plumes. Pkt. (15 seeds) \$4.50; 250 seeds \$56.90; 1,000 seeds & over \$127.98 per M.



Cleome Sparkler Mix



## CELOSIA - CRISTATA TYPES

The Cristata or cockscomb class has two major types, the taller Chief Mixed with larger combs, and the unique narrow or ribbon combed tall Triangle type which is used by cut and dried flower growers.

### TALL CRISTATA TYPES

**767 Prestige Scarlet** (18 in/46 cm) Lots of 3 in/8 cm wide red combs for cutting or bedding. AAS Winner. Pkt. (75 seeds) \$2.25; 1,000 seeds & over \$7.19 per M.

**759A Kurume™ Corona** (40 in/102 cm) Gold/red. 1,000 seeds & over \$4.92 per M.

**752 Chief Mix** (24 in/61 cm) Tall plants with huge 24 in/61 cm cauliflower shaped combs. 6 colors. Pkt. (75 seeds) \$2.25; 1,000 seeds & over \$7.19 per M.

**752K Triangle Mix** (40 in/102 cm) Bombay type narrow paint brush or ribbon shaped combs, tall sturdy stems. Cut flower lasts 3 weeks. Blend of 5 colors. Pkt. (75 seeds) \$2.35; 1,000 seeds & over \$7.91 per M.

## CLEOME (SPIDER FLOWER)



#### SPARKLER™

First commercial F1 hybrid semi dwarf cleome. Sturdy, more wind tolerant, 3 ft/90 cm plants are bushier than standard O/Ps. May be sold in flower in 6 in/15 cm or larger containers. Crop time 10-12 weeks. Makes a spectacular background hedge of color. Primed enhanced seed for easier germination with better rates.

**R835A Blush** Pink/white

**R835B Lavender**

**R835C Rose**

**R835D White**

**R835 Sparkler Mix** Blend of above colors.

Prices for Sparkler colors & mix: Pkt. (10 seeds) \$4.50; 100 seeds \$21.70; 500 seeds \$87.20; 1,000 seeds & over \$137.75 per M.



### TALL OPEN POLLINATED

Used as a tall border bedding plant for spring sales. Also a good cut flower. **CULTURE:** 13,000 per oz/28 g. 1/4 oz/7g should provide about 2,000 seedlings. Sow March 5th - April 15th for May sales and July blooms. Pre-chill seed at 40°F/4°C for 5 days. Sow in cold frames, alternating temps. of 85°F/29°C days and 65°F/18°C nights. Transplant in 4 weeks. Sow outdoors May 1, thin 16 in/41 cm apart.

**827 Helen Campbell** (36 in/91 cm) Pure white

**826A Rose Queen** (36 in/91 cm) Bright rose pink

Prices for Helen Campbell & Rose Queen: Pkt. (200 seeds) \$2.35; 1/4 oz. \$3.00; oz. \$9.05; 1/4 lb. \$36.20.

**829 Purple Queen** (40 in/102 cm) Lilac purple

**829A Mixed Colors** (36 in/91 cm) Blend of 5 colors

Prices for Purple Queen & Mixed Colors: Pkt. (25 seeds) \$2.35; 1,000 seeds & over \$4.06 per M.



Cosmos Sonata Purple Shades



Cosmos Apollo White



Cosmos Picotee



Centaurea Polka Dot Mix



Dahlia Figaro Mix



## COSMOS



Border bedding plant or mid summer cut flower. Likes full sun. CULTURE: Seed size varies, depending on type. Sow outdoors in warm sandy soil about May 15th. Germinate at 75-80°F/24-27°C soil temp. for 15 days. Plant 0.25 in/6 mm deep, cover lightly, sow in groups of 3-4 seeds, 18 in/46 cm apart. For earlier sow indoors March 15th. Use 4 in/10 cm pots or gallon containers for dwarf types.

### APOLLO

(18-26 in/46-66 cm) The naturally dwarf habit and shorter internodes allows a better shelf life and transport. Meanwhile, larger flowers and better petal quality put on an incredible show in containers or the garden. Very long flowering period with unrivaled disease and heat tolerance. Easy to grow.

**832W White**  
**832Y Carmine**

**832X Pink**  
**832Z Lovesong**

Prices for Apollo: Pkt. (25 seeds) \$2.75; 250 seeds \$14.60; 1,000 seeds & over \$39.71 per M.

**838D Limara Lemon** (8 in/20 cm) Extra dwarf lemon yellow small 1.5 in/4 cm semi-double blooms cover bushy plants from May until August. Likes partial shade. Crop time 7-8 weeks. Pkt. (40 seeds) \$2.75; 250 seeds \$6.70; 1,000 seeds & over \$18.22 per M.

**843A Cosimo Collarette** (20 in/51 cm) Early flowering semi-dwarf, semi-double large blooms striped pink/white.

**843B Cosimo Red-White** (20 in/51 cm) Early flowering semi-dwarf, semi-double large blooms striped red/white.

Prices of the above two: Pkt. (40 seeds) \$2.75; 250 seeds \$8.40; 1,000 seeds & over \$25.66 per M.

**843E Xanthos** (20 in/51 cm) Unique soft large butter yellow never before seen cosmos. Great cut flower.

**843D Capriola** (20 in/51 cm) Large white with light rose/red picotee center. Nice accent item.

Prices of the above two: Pkt. (40 seeds) \$2.75; 250 seeds \$18.55; 1,000 seeds & over \$56.53 per M.

**843C Rubenza** (25 in/64 cm) Best semi-dwarf dark red with contrasting yellow center. Large 3 in/8 cm blooms. Great cut flower, strong stems. Pkt. (40 seeds) \$2.75; 1/4 oz \$10.45; oz \$31.90.

### SONATA

(20-25 in/51-64 cm) Bedding or cut flower type. Wind tolerant bushy plants have many 2.5 in/6 cm single blooms. Sonata colors and mix are supplied in Premium grade seed.

**834G Purple Shades** **834F Pink Blush**  
**834E Carmine** **834C White**

**834D Sonata Mix** A formula blend of red, white, pink and rose, all with gold centres.

Sonata colors & mix: Pkt. (25 seeds) \$2.75; 250 seeds \$15.75; 1,000 seeds & over \$42.78 per M.



## COSMOS



**834A Daydream** (3 ft/90 cm) Pale pink/deep rose center

**834B Picotee** (4 ft/122 cm) Rosy red/white petals

Prices for Daydream & Picotee: Pkt. (60 seeds) \$2.50; 1/8 oz. \$5.35; 1/4 oz. \$9.20; oz. \$25.00.

**830 Sensation Mix** (3 ft/90 cm) Extra-large 3.5 in/9 cm single blooms. Crimson, pink, white, and rose. 4000 seeds per oz/28gr. Pkt. (25 seeds) \$2.15; 1/4 oz. \$2.65; oz. \$5.30; 1/4 lb. \$16.55.

**844E Double Click Mix** (3 ft/90 cm) Likes full sun and rich soil. Great fully double and semi-double large flowers for tall backgrounds or cut flowers all summer long. Pkt. (40 seeds) \$2.50; 250 seeds \$12.60; 1,000 seeds & over \$38.50 per M.

**845 Seashells Mix** (3 ft/90 cm) Distinctive tubular flower type with unique trumpet shaped individual florets. Colors include pink, rose, cream and red. Pkt. (40 seeds) \$2.50; 1/4 oz. \$3.05; oz. \$5.45.



## CENTAUREA



### Bachelor Button or Cornflower

Both tall and short centaurea make excellent cut flowers. Flower size will increase dramatically if plants are disbudded - labor intensive, but results are well worth the effort. Bedding plants are sold green. CULTURE: 6,000 per oz/28 g, 1/8 oz/3.5 g should provide 600 plants. For greenhouse cut flowers, sow taller types Sept.15th in raised beds, 12 in/30 cm apart for Feb. blooms; Nov./Jan. for spring blooms. Direct seed in paks for bedding plants March 15th. Outdoor cut flower crops should be sown Apr.1; thin to 8 in/20 cm apart. Does not transplant well. Pre-chill seed at 40°F/4°C for 5 days before sowing. Germinate in darkness for 7 days at 65-70°F/18-21°C. Do not over fertilize or grow in rich soil - plants become vegetative.

### TALL STRAINS

**786 Blue Boy** (30 in/76 cm) Large dark blue blooms. Pkt. (25 seeds) \$2.25; 1,000 seeds & over \$4.53 per M.

**780 Sweet Sultan Mix** (30 in/76 cm) Popular large, fluffy thistle-like flowers. Plants prefer dry locations. White, pink, lilac, yellow scented blooms. Pkt. (350 seeds) \$2.25; 1/4 oz. \$3.85; oz. \$9.25; 1/4 lb. \$34.10.

**796 Frosted Queen Mix** (36 in/90 cm) Picotee and bicolor combinations of red/pink, violet/pale blue, lilac/dark blue and pure white make up the mix. Pkt. (75 seeds) \$2.35; 1/4 oz. \$4.65; oz. \$13.55.



## CENTAUREA



### DWARF STRAINS



**795 Polka Dot Mix** (16 in/41 cm) Standard extra dwarf mix for bedding plant sales. Red, blue, white, rose and lilac. Heavier blooming than taller types. Pkt. (350 seeds) \$2.35; 1/4 oz. \$3.75; oz. \$4.85; 1/4 lb. \$17.90.

**790 Jubilee Gem** Dark blue. Pkt. (25 seeds) \$2.35; 1,000 seeds & over \$2.89 per M.



## DAHLIA



CULTURE: 3,000 seeds per oz/28 g; ¼ oz/7 g should provide 500 seedlings. Sow Feb.15th-April 15th for May sales and July blooms. Allow 8-12 weeks from seed to sale for paks and 10-13 weeks for pots. Germ. averages 70% at best. Use a well-drained soil with a PH of 5.8-6.2. Do not over water! Soil should be barely moist to the touch. Do not let plants wilt. Plants need at least 12 hours of daylight to form buds. Short daylength causes plants to produce tubers - not blooms! Germinate at 70°F/21°C days and 65°F/18°C nights for 5-7 days. Transplant 18 days later - smaller seedlings are usually the best colors in a mix.

**898A Harlequin™** (12 in/30 cm) A Collarette type 2.5 in/6 cm bloom with extra inner crown, or collar of contrasting colors. Many two-tone solid colors and bicolors. Pkt. (25 seeds) \$4.05; 250 seeds \$13.15; 500 seeds \$22.10; 1,000 seeds & over \$31.68 per M.

**899 Garden Pride** (15 in/38 cm) Uniform blooming, semi-double separate colors. Very uniform plants. Shades of red, orange, yellow, pink, rose and white. Coated seed. Pkt. (25 seeds) \$2.50; 250 seeds \$8.35; 500 seeds \$11.65; 1,000 seeds & over \$18.81 per M.

### FIGARO®

(12 in/30 cm) Standard double and semi-double O/P for bedding plant sales. Large 2.5 in/6 cm blooms, bushy, uniform plants with dark green leaves.

**898C Yellow** **898D White** **898E Orange**  
**898F Red** **898H Violet** **898I Mix**

Prices for Figaro colors & mix: Pkt. (25 seeds) \$2.50; 250 seeds \$10.90; 500 seeds \$18.30; 1,000 seeds & over \$26.21 per M.

**899S Sunny Reggae** (20 in/51 cm) Knee-high Collarette with large semi-double blooms in various shades of orange, scarlet, yellowish orange bicolors. For borders and cut flowers. Fleuroselect Novelty. Pkt. (25 seeds) \$4.25; 1/2 oz. \$35.45; oz. \$56.50.

**865 Large Flowering Double Mix** (3 ft/90 cm) Tall mix with double flowers. Used for cut flower production or bulbs. Extra large heavy blooms, should be staked. Pkt. (50 seeds) \$2.35; 1,000 seeds & over \$8.80 per M.



**Order Online Now!**

[www.StokeSeeds.com](http://www.StokeSeeds.com)



Coleus Wizard Coral Sunrise



Coleus Kong Lime Sprite



Coleus Premium Sun Watermelon



Coleus Chocolate Mint



Dusty Miller Silverdust



## COLEUS



**CULTURE:** Seed size varies 90,000 -110,000 seeds per oz/28 g. For early pot culture sow in Dec. For spring sales sow Feb. 1 - March 15. Allow 8-10 weeks from seed to sale for bedding plants; 12-14 weeks for pots. Germinate seed at 70°-75°F/21°-24°C for 10-12 days. Press seed into soil; do not cover (seed needs light to sprout). Maintain moisture and warm soil during germination. Transplant 15 days after germination, grow plants cooler at 60°F/16°C. Coleus damps off easily - treat plants with fungicide. Semi shade assures darker colors.



### KONG®

(18 in/46 cm) Very large blistered leaves; unique color patterns, well branched plants. Use 4.5 in/11 cm pots. Full shade. Pelleted seed only. PVP.

- P824A Lime Sprite**      **P824K Mosaic** Tricolor
- P824S Rose** Lime edge    **P824U Scarlet** Green edge
- P824T Salmon Pink** Green edge    **P824R Red** Green edge

Prices for Kong colors: Pkt. (10 pellets) \$4.75; 100 pellets \$23.45; 1,000 pellets & over \$170.24 per M.



### PREMIUM SUN®



(20 in/51 cm) A unique type for full sun or shade! Well branched multi-colored foliage looks great all summer long. Flower spikes do not appear until later than other types. Use for 5 in/13 cm pots or 3 plants per gallon container. Pelleted seed only.

- P1811Z Pineapple Surprise**    **P1811D Lime Delight**
- P1811B Crimson Gold**      **P1811F Watermelon**
- P1811E Rose Lime Magic**    **P1811G Mighty Mosaic**

Prices for Premium Sun colors: Pkt. (10 pellets) \$4.75; 100 pellets \$21.30; 1,000 pellets & over \$154.44 per M.



### GIANT EXHIBITION®

Unique Rainbow type colors. Plants average 16 in/41 cm in height.

- 825P Palisandra** Uniform black/burgundy velvet leaves are 6 in/15 cm long, 4 in/10 cm wide at maturity.
- 825S Rustic Red** Rusty brownish red, thin yellow edge
- 825Q Limelight** Pure lime green leaves
- 825T Marble** Green leaves, white center, marbled all over with red.

Prices for Giant Exhibition colors: Pkt. (25 seeds) \$4.25; 500 seeds \$47.25; 1,000 seeds & over \$74.99 per M.



### WIZARD®

Dwarf 12-14 in/30-36 cm base branching, uniform and low maintenance.

- 831 Rose**      **831A Golden Gold**
- 831G Velvet Red**    **831E Scarlet/green**
- 831F Mosaic** Tricolor    **831J Jade** Ivory/green
- 831K Sunset** Apricot
- 831L Coral Sunrise** Pinks/olive/bright green edge
- 831M Wizard® Mix** Formula blend of 10 colors

Prices for Wizard colors & mix: Pkt. (50 seeds) \$2.50; 500 seeds \$7.95; 1,000 seeds & over \$10.53 per M.

## UNIQUE COLORS

**P824E Chocolate Covered Cherry** (14 in/35 cm) Tricolor rose center, mahogany background plus green edge. Pelleted seed.

**P824C Chocolate Mint** (12 in/30 cm) Each leaf is finely edged with a mint green border. Pelleted seed.

**P824D Dark Chocolate** (24-30 in/61-76 cm) Rich, dark purple foliage appears 'chocolate' in shade. Pelleted seed.

Prices of the above three: Pkt. (10 pellets) \$4.50; 100 pellets \$24.80; 1,000 pellets & over \$154.44 per M.

**822J Striped Rainbow** (18 in/46 cm) A novel mixture of striped, colored leaf, rainbow types. Pkt. (50 seeds) \$2.50; 1,000 seeds & over \$8.87 per M.

**825 Rainbow Blend** (18 in/46 cm) Our own special formula blend of the Rainbow colors. Pkt. (100 seeds) \$2.50; 1/128 oz. \$3.40; 1/64 oz. \$5.95; 1/16 oz. \$11.20.

**831Z Black Dragon** (12 in/30 cm) Tongue shaped serrated leaves. Red/black edges. Pkt. (50 seeds) \$2.50; 500 seeds \$8.25; 1,000 seeds & over \$10.89 per M.



Each precision multi-pellet contains both colors of Premium Sun Crimson Gold and Premium Sun Lime (Under the Sun) or Chocolate Mint and Premium Sun Lime (Chocolate Symphony) at 95% min. germinate easily grow together. Crop time 8-12 weeks sow to finish. See index for more Fuseables™!

**P1901E Chocolate Symphony** Chocolate Mint and Premium Sun Lime Delight for partial shade hanging basket locations. Use 3-5 plugs or pellets per container.

**P1901B Under The Sun** For partial shade or sunny hanging basket locations. Use 3-5 plugs per container.

Prices of the above two: Pkt. (10 pellets) \$5.75; 100 pellets \$29.70; 1,000 pellets & over \$189.27 per M.



Fuseables Under the Sun



## DAHLBERG DAISY



**CULTURE:** 180,000 seeds per oz/28 g. Sow indoors Feb.1-15th for May plants. Germinate at 65°F/18°C for 14 days. Press seed into surface, do not cover. Transplant about 25 days after germination, grow cool at 65°F/18°C. Seeds germinate irregularly at about 65% and should be sown in flats - not plugs. Sell plants green or with early color. Allow 9 weeks for pak sales, 12 weeks for baskets. Flowers mid summer to fall; full sun.

**892 Golden Fleece** (8 in/20 cm) Masses of 1 in/3 cm yellow daisies on cascading, bright green, fern-like foliage. Likes sunny, dry locations. Use in rock gardens or hanging baskets. Pkt. (50 seeds) \$2.35; 1/16 oz. \$3.60; 1/8 oz. \$6.25; 1/2 oz. \$19.20.



## DIMORPHOTHECA

**CULTURE:** 10,000 per oz/28 g. To germinate, vary soil temperature between 55-60°F/13-16°C for 7 days. Sow outside in May.

**890 Aurantiaca Hybrids** (12 in/30 cm) "African Daisy" Single large blooms in shades of orange, buff, yellow. Pkt. (200 seeds) \$2.50; 1/4 oz. \$10.65; 1/2 oz \$15.50; oz. \$24.15.



## DUSTY MILLER

**CULTURE:** Sow Silverado, Silverdust and Cirrus in January for 4 in/10 cm pots or by Feb 1-15th for bedding plants. Allow 6-7 weeks crop time for 4 in/10 cm pots. Cineraria.

**788 Silverado** (8 in/20 cm) Extra high germination for high density growers. Raw seed. Pkt. (150 seeds) \$1.90; 10,000 seeds & over \$0.80 per M.

**P788 Silverdust** (8 in/20 cm) Leaves are finely cut, silver gray - coral like in appearance. Pellets only. 1,000 pellets & over \$6.35 per M.

**788 Silverdust** (8 in/20 cm) Raw seed. Pkt. (150 seeds) \$1.90; 10,000 seeds & over \$0.79 per M.

**P798 Cirrus** (8 in/20 cm) Larger, wider, silver gray leaves. Very hardy. Best choice for solid gray borders. Pkt. (50 pellets) \$3.75; 250 pellets \$12.85; 500 pellets \$21.15; 1,000 pellets & over \$27.20 per M.



## ERYSIMUM



**CULTURE:** (8-12 in/20-30 cm) 14,250 seeds per oz/28 g. A sweet smelling, base branching companion for pansies. Croptime 11-12 weeks. Matures about one week later than most pansies from seed. Germinate at 72°F/22°C for 4 days. Cover seed lightly. Grow at 65°F/18°C. PVP.

**907A Citrona® Orange**      **907B Citrona® Yellow**  
Prices for Citrona colors: Pkt. (20 seeds) \$3.25; 250 seeds \$21.70; 1,000 seeds & over \$66.69 per M.



Dianthus Corona Strawberry



Dianthus Amazon Neon Cherry



Dianthus Corona White



Eschscholzia Mission Bells



Euphorbia Glitz White



## HYBRID DIANTHUS



**DIANTHUS BARBATUS**, commonly referred to as **SWEET WILLIAM**, is listed in the perennial section. **CULTURE:** Approx. 26,000 seeds per oz/28 g. Sow from Feb.20th-March 15th for May blooms in paks. Plant seed 1/8 in/3 mm deep, cover lightly. Germinate in 70°F/21°C soil for 8-10 days. Always use luke warm water. Lower seedling temp. 50°F/10°C as soon as seedlings appear. Transplant in 4-5 weeks at the same seedling depth. Keep well ventilated to prevent damping off. 1/32 oz should provide about 600 seedlings, depending on seed size (which varies). **DIRECT SEED:** outdoors in early May for cut flowers. Thin 8 in/20 cm apart. Pinch off spent blooms to prolong flowering. **M = 1,000 Seeds or Pellets.**

### CARPET™

(6 in/15 cm) Large 1.75 in/4.5 cm blooms with excellent heat tolerance. Blooms about a week after Super Parfaits.

- 888A Crimson**      **888B Fire**      **879 Snowfire**
- 888E Snow White**      **888C Oriental**
- 888 Carpet Series Mix**      Formula blend

Prices for Carpet colors & mix: Pkt. (30 seeds) \$2.95; 250 seeds \$9.00; 1,000 seeds & over \$24.03 per M.

### SUPER PARFAIT™ & VENTI PARFAIT™

(6 in/15 cm) A week earlier than original Parfaits. Stronger plants with blush colors with contrasting center eyes. Venti Parfaits produce larger blooms than Super Parfaits. Crop time 15-18 weeks.

- 875C Super Parfait Raspberry** Crimson/darker eye
- 875D Super Parfait Strawberry** White/scarlet eye
- 875E Super Parfait Red Peppermint** White/cherry eye
- 1812 Venti Parfait Crimson Eye** Super-sized blooms. Plants tolerate higher density production and cooler greenhouse temperatures than Corona Cherry Magic.

Prices for Parfait colors: Pkt. (30 seeds) \$3.50; 250 seeds \$13.90; 1,000 seeds & over \$37.13 per M.

### SUPRA™ & DIANA™

(6 in/15 cm) Supra series are early, short stemmed, fringed 1.5 in/3 cm lacey-like blooms, winter hardy to zone 4. Crop time 12 weeks. Diana colors are early flowering and have large single fringed blooms. Supra Pink is an AAS Winner.

- 1817D Supra Pink**      **1817A Supra White**
- 1817B Supra Crimson**      **1817 Supra Purple**
- 1817C Supra Mix** Formula blend of several colors.

- 874M Diana Blueberry**      **874L Diana Lavender Picotee**

Prices for both Supra & Diana: Pkt. (25 seeds) \$3.50; 250 seeds \$16.10; 1,000 seeds & over \$43.04 per M.

### JOLT™

(16 in/41 cm) Blooms spring to fall, loves heat and continues to flower without setting seed to reduce fall flowers. Crop time 18 weeks. Pelleted seed.

- P1823C Pink Magic**      **P1823B Pink AAS Winner**
- Pkt. (10 pellets) \$3.25; 100 pellets \$25.60; 250 pellets \$53.90; 1,000 pellets \$143.91 per M.

- P1823A Cherry** 100 pellets \$25.60; 250 pellets \$53.90; 1,000 pellets & over \$143.91 per M.



### CORONA™

(8-10 in/20-25 cm) Uniform flowering time and habit with extra large blooms. Compact, mounded plant. Excellent cool weather performance makes it a great choice to plant with other cool-season annuals like pansies. Pelleted seed.

- P874C Cherry Red**      **P874D Strawberry**
- P874E White**

Prices for Corona colors: Pkt. (30 pellets) \$4.75; 250 pellets \$15.75; 1,000 pellets & over \$42.12 per M.

### IDEAL SELECT™

(8 in/20 cm) Contains the best colors from the original Ideal series with improved habit and timing, exceptional winter hardiness and extra large early blooms. Very tolerant to heat. A true biennial and excellent companion to pansies. Crop time 9-12 weeks.

- 881A Raspberry**      **881B Red**
- 881C Rose**      **881F White**
- 881E Violet**      **881M Mix**
- 881G White Fire**

Prices for Ideal Select colors & mix: Pkt. (30 seeds) \$3.50; 250 seeds \$12.00; 1,000 seeds & over \$32.04 per M.

### AMAZON™

(18-36 in/46-91 cm) Can be used as a bedding plant or cut flower. Dark, green leaves. Neon Duo - 50% cherry/50% purple; Neon Cherry; Neon Purple and Rose Magic - blooms age white/pink/deep rose. Blooms late spring/summer. Pelleted seed only.

- P885A Neon Cherry**      **P885B Neon Duo**
- P885C Neon Purple**      **P885D Rose Magic**

Prices for Amazon colors: Pkt. (30 pellets) \$4.95; 250 pellets \$25.65; 1,000 pellets & over \$68.45 per M.

### DWARF SWEET WILLIAM

#### DIABUNDA™ SERIES

F1 hybrid. Dianthus X Barbatus (6-8 in/15-20 cm) Extra dwarf earlier flowering hybrid for early spring & fall sales. Full, base branching, uniform mounded plants compare to traditional Barbatus dwarfs. Very easy to grow! Crop time 10-12 weeks. High germ. seed. Plants spread 8-10 in/20-25 cm. Hardy to Zone 5 only. Use in containers, borders, mass plantings, rock gardens. Pellets only. **Flowers first year, sold as an annual or perennial.**

- P1821A Pink Pearl**      **P1821F Rose**

Prices of Diabunda colors: Pkt. (30 pellets) \$4.75; 250 pellets \$18.00; 1,000 pellets & over \$48.04 per M.

## ESCHSCHOLZIA

**CULTURE:** 14,000 per oz/28 g. Direct sow in early May - choose a nice sunny location. Germinate at 65-75°F/18-24°C soil temp. for 24 days. Considered a wild flower. California Poppy.

**901 Mission Bells** (12 in/30 cm) Semi double blooms in rose, gold, cherry, scarlet and pink. Pkt. (400 seeds) \$2.35; 1/4 oz. \$3.60; oz. \$12.05; 1/4 lb. \$34.40.



## EUPHORBIA



**CULTURE:** 1,500 seeds per oz/28 g. Sow indoors Apr.1st or outdoors May 20th for July foliage. Germinate 65-75°F/18-24°C for 20 days.

**909C Glitz White** (10 in/25 cm) Euphorbia graminea from seed provides ease of seed without the vegetative demands. Perfect "no pinch" habit for premium containers. Mounded plant habit spreads 18 in/46 cm. Likes full sun. Approx. 6 days to germinate @ 65-72°F/18-22°C in moist soil. Crop time 10-13 weeks from seed. Pkt. (25 seeds) \$6.25; 100 seeds \$30.25; 1,000 seeds & over \$177.80 per M.

**909 Snow-on-the-Mountain** Variegata marginata (24 in/61 cm) Bicolor leaf, green center with white picotee edge (no flower). Plants will grow anywhere - even in the poorest soils. Tolerant to heat or drought. Leaves begin to show white/green bicolor in August. Pkt. (25 seeds) \$2.35; 1,000 seeds & over \$5.90 per M.



## GAILLARDIA



**CULTURE:** 15,000 per oz/28 g. Sow indoors March 1st at 80°F/27°C soil temp. or outdoors June 10th. Likes full sun. Rubbed seed.

**922E Sundance Bicolor** (10 in/25 cm) Double flowered type. Large 2 in/5 cm, primarily double blooms on bushy dwarf plants that spread 16 in/41 cm and bloom all summer. Plants are drought tolerant. Crop time 12-13 weeks. AAS Winner. Pkt. (50 seeds) \$2.50; 1/8 oz. \$10.90; 1/4 oz. \$20.50; oz. \$60.90.



## GODETIA



**CULTURE:** 42,000 per oz/28 g. Sow direct outdoors May 1st, thin to 8 in/20 cm. They prefer a cool shady location and rather poor soil. Blooms 70 days from seed.

**957 Monarch Single** (12 in/30 cm) Dwarf plants become smothered with quarter sized silky flowers in shades of pink, white and red. Pkt. (800 seeds) \$2.15; 1/4 oz. \$16.20; oz. \$46.45.

### SATIN - DWARF HYBRID

(8 in/20 cm) Extra dwarf F1 hybrid for 4 in/10 cm pots. Base branching plant habit with VERY uniform flowering time between 8 different colors. Flowers heavily without pinching or use of growth regulators. Can be used outdoors in heavy shaded areas.

**957A Satin Mix** (8 in/20 cm) Blend of 8 colors. Pkt. (25 seeds) \$4.30; 1,000 seeds & over \$55.25 per M.



Gazania Big Kiss Orange



Gazania Big Kiss Mix



Gypsophila Gypsy White



Heliotrope Marine Lemoine Strain



Gomphrena Ping Pong Lavender



## GAZANIA



CULTURE: 16,000 seeds per oz/28 g and 550 seeds per 1/32 oz/g. Sow indoors Feb.15 to Mar.1 for July blooms. Germ. at 60°F/16°C soil temp. in total darkness for 7 days. Do not overwater, it causes crown rot. Flowers close at night. Water once a week!

### NEW DAY® SERIES

(8-10 in/20-25 cm) Hybrid. More compact with larger flowers, shorter flower stems and easier to produce than most gazanias. Plants are drought tolerant, hold appearance better in chain stores and garden centers, plus perform well in containers, baskets and outdoors as a bedding plant. Crop time 12-14 weeks from transplanting. Use 306 paks; 4 in/10 cm or 6 in/15 cm pots. Coated seed.

**942N Red Stripe**

**942L Rose Stripe**

**942K Red Shades**

**942P Bronze**

**942Q Clear Orange**

**942R Pink Shades**

**942S White**

**942T Yellow**

**942M Mix** Blend of 8 colors

**942Z Bright Mix** Bronze, orange, yellow, pink

Prices for New Day colors & mixes: Pkt. (15 seeds) \$2.85; 250 seeds \$14.15; 1,000 seeds & over \$37.84 per M.

### KISS™ & FROSTY KISS™

(8 in/20 cm) Hybrid. Beautiful 3 in/7.5 cm blooms with a mounding plant habit. Frosty shades have silver leaves. All others have green leaves. Croptime 13-15 weeks. Use 4-6 in/10-15 cm pots. Do not use paks. **M = 1,000 Seeds or Pellets.**

**947M Kiss Mix** Blend of Flames, orange, rose, yellow, gold, bronze, white, lemon, mahogany

**947Y Kiss Flame Mix** Orange and Yellow Flames

**947Z Kiss Frosty Mix** Blend of silver leaf colors

Pkt. (15 seeds) \$2.85; 250 seeds \$17.25; 1,000 seeds & over \$46.20 per M.

### BIG KISS™

(8-10 in/20-25 cm) Hybrid. Sun loving bushy plants with 4.5 in/11 cm blooms that offer color all summer long.

**NEW** **1950F Orange**

**NEW** **1950M Mix**

**1950D Yellow**

**1950B Yellow Flame**

**1950C Red**

**1950E White**

**1950A White Flame**

Prices for Big Kiss colors: Pkt. (15 seeds) \$3.50; 250 seeds \$28.70; 1,000 seeds & over \$76.92 per M.



## GOMPHRENA



CULTURE: Sow Mar. 15th in 80°F/27°C soil for 14 days in total darkness. Press fine seed into soil, cover seeds with 0.25 in/6mm of soil. Reduce soil temp. to 70°F/21°C at night. Never overwater seedbeds or transplants.



### GNOME - DWARF TYPE

**941C Gnome Mix** (6 in/15 cm) Pink, white, rose. Use for 4 in/10 cm pots or landscaping. Pkt. (25 seeds) \$2.35; 250 seeds \$4.25; 1,000 seeds & over \$12.80 per M.

### PING PONG™

(16-20 in/41-51 cm) Hybrid. Add an explosion of color to containers and mass plantings. Easy to produce, drought tolerant and low maintenance! Adds height and dimension and makes a great cut flower. Spreads 8-10 in/20-25 cm.

**941E Purple**

**941F Lavender**

**941G White**

Prices for Ping Pong colors: Pkt. (25 seeds) \$2.35; 250 seeds \$9.20; 1,000 seeds & over \$27.87 per M.



### LAS VEGAS™



(16-20 in/41-51 cm) Perfect for 4.5 in/11 cm pot production. Short 9-11 week croptime in paks. Heat tolerant.

**1931A Las Vegas Pink**

**1931B Las Vegas Purple**

**1931C Las Vegas White**

**1931 Las Vegas Mix**

Prices of above colors & mix: Pkt. (50 seeds) \$2.50; 250 seeds \$7.05; 1,000 seeds & over \$21.31 per M.



### WOODCREEK - TALL CUTTING

**940A Orange**

**940B Lilac**

**940C Red**

**940D White**

**940E Purple**

**940F Rose**

**940K Woodcreek Mix** (18 in/46 cm) Formula of 7 colors

Prices for Woodcreek colors & mix: Pkt. (50 seeds) \$2.35; 250 seeds \$3.35; 1,000 seeds & over \$10.20 per M.

**941D Fireworks** (20 in/51 cm) Rose pink/yellow tips. 100 seeds \$32.95; 250 seeds \$60.45; 1,000 seeds & over \$182.99 per M.

**1932A Audrey Bicolor Rose** (20 in/51 cm) Rose flowers with white centers. Pkt. (50 seeds) \$2.50; 250 seeds \$8.50; 1,000 seeds & over \$25.73 per M.



## GYPHOPHILA (Baby's Breath)



(20 in/50 cm) CULTURE: 25,000 per oz/28 g. Sow indoors from Dec. to April for greenhouse cut flowers. Plants flower about 3 months from seeding. Germinate at 70°F/21°C soil temp. for 10 days. Sow outdoors every two weeks from May 1st to July 15th. Multi-Pellets only.

**P959C Gypsy White** Double blooms

**P959A Gypsy Pink** Double blooms

**P959B Gypsy Deep Rose** Double blooms. AAS Winner.

Prices for Gypsy pellets: 100 pellets \$15.90; 500 pellets \$72.80; 1,000 pellets & over \$128.04 per M.

**955 Elegans** Pure white. Pkt. (300 seeds) \$2.20; 1/4 oz. \$3.25; oz. \$5.25; 1/4 lb. \$9.05.



## HELIUM



CULTURE: Vigorous plants are tolerant to drought, high heat, plus wet and cool conditions. Crop time 8-12 weeks. Sow indoors in a sunny area Feb.15th. Germinates in 3-5 days at 65-75°F/18-22°C. Cover multi-pellet lightly with vermiculite. Grow plants at 75°F/22°C days; 64°F/18°C nights. Plants flower in 8-12 weeks and spread to 24 in/61 cm. Multi-pellet. PVP.

**P1725 Dakota Gold** (8 in/20 cm) Golden yellow daisy-like flower. Pkt. (10 pellets) \$4.85; 100 pellets \$30.25; 1,000 pellets & over \$170.24 per M.



## HELICHRYSUM



### STRAWFLOWER - TALL CUTTING TYPES

CULTURE: 45,000 seeds per oz/28 g. Sow indoors March 15th for florist cut flower. Germinate at 75°F/24°C soil temp. Press seed into surface and do not cover as seed needs light to germinate. Transplant in mid June. Sow outside June 1st in rows 16 in/41 cm apart, thin to 8 in/20 cm apart. Harvest in September - hang upside down to dry. For bedding plants, allow 7-8 weeks from seed to sale in paks. High soil temperature will limit germination.

**975 Finest Mix** (3 ft/90 cm) Superior Swiss selection, extra large flowers for Eastern growers. Stiff stems, unusual colors. For commercial cut or dried flowers. Pkt. (100 seeds) \$2.45; 1,000 seeds & over \$3.00 per M.



## HELIOMERIS



CULTURE: Hardy annual. Bright yellow daisy-like single blooms are free-flowering all summer long. This is a beautiful wild flower in Europe. An approved novelty by Fleuroselect. Use as a bedding plant for large landscaping areas - blooms in July and flowers until late August.

**969A Sunsplash** (20-25 in/51-64 cm) Lemon yellow/bronze eye. Pkt. (100 seeds) \$4.75; 1/8 oz. \$34.75; 1/2 oz. \$121.55; oz. \$221.55.



## HELIOTROPE



CULTURE: 50,000 per oz/28 g. Sow indoors Mar. 1st at 70-80°F/21-27°C alternate night soil temperatures to 60°F/16°C for 15-20 days. Transplant outside after June 10th, space 12 in/30 cm, blooms in July. Attracts bees and has a vanilla scent.

**985 Marine Lemoine Strain** (24 in/61 cm) Deep purple broccoli shaped, fragrant blooms. Pkt. (100 seeds) \$2.75; 1/128 oz. \$3.75; 1/32 oz. \$5.70; 1/8 oz. \$20.00; 1/2 oz. \$69.55.



**4 Easy Easy Ways To Order!**  
Please see page 1 for Details.



Geranium Multibloom Lavender



Geranium Pinto Premium Salmon Splash



Geranium Maverick Star



Flowering Kale Pigeon Red



Flowering Cabbage Osaka Pink



## HYBRID GERANIUMS



CULTURE: For May 10th blooms in 4 in/10 cm pots, seed by Dec. 20th. Use sterilized soil or a commercial mix (Pro Mix wor Jiffy Mix). For more detailed geranium culture, please see our website; [www.StokeSeeds.com](http://www.StokeSeeds.com). **M = 1,000 seeds or pellets.**

### MULTIBLOOM™

Produces an ideal 4 in/10 cm pot plant in about 80 days from seed. True multiflora type, averaging 15 flower heads per plant at maturity. It is very important NOT to check the growth of the plug, seedling or plant. Coated seed.

**925A Red**    **925C Lavender**    **925F Capri Coral**  
**925G White**    **925H Pink**    **925I Salmon**  
**925K Violet**    **925 Multibloom Mix 9 colors**

Prices for Multibloom: 20 seeds \$5.10; 100 seeds \$17.75; 500 seeds \$69.30; 1,000 seeds & over \$124.76 per M.

### PINTO™ PREMIUM

Plants are very uniform - flower stems are very short and well branched, free flowering with large round flowers. Uniform flowering colors are easy to schedule, short flower stems make plants easy to ship. Use for Jumbo Paks or 4 in/10 cm pots. Plants require flower growth regulators. Crop time for 4 in/10 cm pots 12-14 weeks. Coated seed.

**1914P Deep Scarlet**    **1914B Deep Red**  
**1914N Orange**    **1914A Coral**  
**1914M Lavender Rose**    **1914D Lavender**  
**1914C Deep Rose**    **1914E Salmon**  
**1914F Salmon Splash**    **1914K Rose Bicolor**  
**1914J Orange Bicolor**    **1914H Violet**  
**1914L White**    **1914G Scarlet**  
**1914Z White to Rose AAS Winner**

Prices for Pinto Premium: 20 seeds \$5.20; 250 seeds \$38.25; 1,000 seeds & over \$127.42 per M.

### BLACK VELVET™

Distinct bicolor leaves have chocolate centers with a green edge. The dark foliage contrasts well with the bright blooms.

**949R Rose AAS Winner**    **949M Formula Mix 6 colors**

Prices for Black Velvet Rose & mix: 20 seeds \$7.05; 100 seeds \$24.70; 500 seeds \$96.55; 1,000 seeds & over \$173.75 per M.

**949C Landscaper Red** Bright Red/white eye, large bloom, well zoned, vigorous branching plant. 20 seeds \$5.70; 100 seeds \$19.85; 500 seeds \$77.55; 1,000 seeds & over \$139.59 per M.

### BULLSEYE™

(13-15 in/33-38 cm) Unique chocolate on green foliage. Fewer PGRs needed, make "bench run shipping" uniform. Higher percent of transplantable seedlings. Crop time 13-15 weeks. Coated seed.

**1915A Cherry**    **1915E Red**    **1915B Light Pink**  
**1915C Salmon**    **1915D Scarlet**

Prices for Bullseye: 20 seeds \$5.50; 100 seeds \$20.55; 500 seeds \$89.70; 1,000 seeds & over \$135.45 per M.

**926Z Quantum Formula Mix** (12-16 in/30-41 cm) Attractive star-shaped flowers with contrasting serrated foliage are less prone to shattering giving a greater display of color for longer. Outstanding heat tolerance. Scarified and coated seed. 20 seeds \$6.25; 100 seeds \$21.85; 1,000 seeds & over \$153.54 per M.

### MAVERICK™

Similar to the Pintos in plant habit and flower shape. Responsive to growth regulators. For pots or bedding plants. Coated seed.

**932R Violet Picotee**    **932A Red**    **932B Pink**  
**932C Salmon**    **932D Scarlet**    **932F Coral**  
**932K Quicksilver**    **932H Violet**    **932 Star**  
**932L Appleblossom**    **932M Orange**    **932Q Rose**  
**932N Scarlet Picotee**    **932E White**    **932Z Mix**

Prices for Maverick colors & mix: 20 seeds \$5.20; 100 seeds \$18.10; 500 seeds \$70.80; 1,000 seeds & over \$127.42 per M.



## TRAILING IVY GERANIUMS

### SUMMER SHOWERS™

True cascading, base branching ivy leaf geraniums from seed. Large open 4 in/10 cm single blooms, dark green, plain leaves. For window boxes and hanging baskets.

**948Q Burgundy**    **948T White Blush**    **948U Fuschia**  
**948G Summer Showers Mix**  
**1917 Tornado Mix™** Blend of 6 colors. Coated seed.

Prices for the above: 20 seeds \$14.65; 100 seeds \$51.15; 500 seeds \$199.90; 1,000 seeds & over \$359.78 per M.

## HYBRID FLOWERING CABBAGE

CULTURE: Seed size varies 7,000-14,500 seeds per oz/28 g. Sow indoors Mar. 20th. Germinate at 70°F/21°C for 10 days, transplant into 6 in/15 cm pots. Allow 5-7 weeks from seed to sale. Cut flower type cabbage have 24 in/61 cm tall stems.

**1011C Osaka Pink** Rose-pink center rosette/green veins  
**1011B Osaka Red** Deep rosy-red center rosette/greenish-purple veined leaves

**1011A Osaka White** Creamy white interior rosette/green veined leaves

**1011 Osaka Mix** Blend of red, pink, white cabbages

Prices for Osaka: Pkt. (35 seeds) \$2.35; 250 seeds \$5.25; 1,000 seeds & over \$15.48 per M.



## HYBRID FLOWERING KALE

CULTURE: Seed size varies. Sow indoors Mar. 20th. Germinate at 70°F/21°C for 10 days, transplant into 6 in/15 cm pots. Allow 5-7 weeks from seed to sale. Cut flower type kales have 24 in/61 cm tall stems with small round leaf cabbage heads.

### PIGEON™

(8-12 in/20-30 cm) Grown for their colorful rosettes of leaves which look like a large, exotic flower. For bedding, fall sales, mixed containers. Popular as a garnish in gourmet markets.

**1010C Purple**    **1010D Red**  
**1010E Victoria**    **1010F White**

Prices for Pigeon colors: Pkt. (40 seeds) \$2.50; 250 seeds \$8.65; 1,000 seeds & over \$23.82 per M.

### SONGBIRD™

Round leaf allows better rain drainage. Needs cooler night temperatures and lower fertilizer rates to color properly.

**1009B Pink**    **1009C Red**  
**1009D White**

Prices for Songbird colors: Pkt. (40 seeds) \$2.75; 250 seeds \$8.45; 1,000 seeds & over \$24.96 per M.

### NAGOYA™

Savoyed center with greenish-purple outer leaves.

**1012A White**    **1012B Red**  
**1012C Rose**    **1012 Mix**

Prices for Nagoya: Pkt. (40 seeds) \$2.35; 250 seeds \$5.40; 1,000 seeds & over \$15.96 per M.

### PEACOCK™

**1012G Red** Rose-pink center/dark crimson leaves  
**1012D White** Creamy white center/bright green leaves  
**1012J Chidora Red** Deep rose-red double savoyed center/savoyed magenta-rose outer leaves

Prices for Peacock: Pkt. (40 seeds) \$2.35; 250 seeds \$7.70; 1,000 seeds & over \$22.76 per M.

**1013J Kamome Pink** Fringed pink/green leaves  
**1013K Kamome Red** Fringed red/green leaves

Prices for Kamome: Pkt. (40 seeds) \$2.35; 250 seeds \$6.40; 1,000 seeds & over \$18.97 per M.

**1010B Glamour Red** Shiny leaves have waxless quality, medium green fringed with vivid red contrasting centers. Heads average 10 in/25 cm. Pkt. (20 seeds) \$5.75; 250 seeds \$36.00; 1,000 seeds & over \$106.44 per M.



## TALL FLOWERING KALE

(24 in/61 cm) Small teacup size heads on tall stems for cut flower sales.

**1012Q Crane™** Bicolor Rose & white/green leaf  
**1012N Crane™** Red Red/wine leaves  
**1012P Crane™** Rose Rose purple/grey green leaf  
**1012M Crane™** White Cream rose/ green leaf

Prices for Crane colors: Pkt. (40 seeds) \$2.50; 250 seeds \$8.25; 1,000 seeds & over \$24.43 per M.



Accent Star Mix



Impreza Rose



Accent Premium Mix



Tumbler Violet Star



Accent Premium Pastel Mix



Impreza Wedgewood Mix



Tumbler Salmon



## HYBRID IMPATIENS



**CULTURE:** Seed size varies drastically by color from 35,000 to 90,000 seeds per oz/28 g; 1/8 oz/3.5 g contains about 4,200 seeds, of most popular colors. For pak sales sow Feb.15th-Mar.10th. Allow 9-12 weeks for paks or 10-14 weeks from seed to sale for pots, containers or hanging baskets. **GERMINATION:** Research data proves that excessively high soil temperatures will prevent germination (over 86°F/29°C). Impatiens like a maximum soil temp. of 70°F/21°C to germinate. Use a sterile medium like Jiffy Mix, press seed into surface without covering it. Provide a uniform moisture level, do not let seeds dry out or it will limit proper germination. Most cultivars require light to begin germination - Accents prefer 2 days without light. If you cover seed flats with plastic sheets to retain moisture make sure you keep them semi shaded and out of the direct rays of the sun. Remove plastic a few hours during sunny days to provide proper ventilation so that you don't kill the seed. Grow plants cool at 60°F/16°C, keep them on the dry side and do not fertilize. Surplus seed **MUST** be stored at 60°F/16°C or less, higher temperatures over long time periods will reduce germination severely. **DISEASE:** Regular (walleriana) impatiens varieties are very susceptible to "Impatiens Downy Mildew" which is an air and soil borne, destructive disease that spreads quickly under moist conditions and cool nights throughout variable northeastern USA and Canada (locations as far north as zone 4a). **M = 1,000 Seeds or Pellets.**

### ACCENT™

Syngenta Flowers has installed a fabulous computerized screening system to ensure each seed lot achieves 95% germination and a minimum CASA uniformity rating of 9.65. Listed Below are **Regular Accent** colors and mix that are still being updated by the breeder - to eventually join the new improved **Accent Premium** colors.

- |                 |                     |
|-----------------|---------------------|
| 1024D Rose Star | 1014J Coral         |
| 1014P Red Star  | 1014S Lavender Blue |
| 1014U Burgundy  | 1014V Star Mix      |

Prices for Accent colors & mix: 50 seeds \$3.80; 250 seeds \$7.20; 1,000 seeds & over \$18.79 per M.

### ACCENT™ PREMIUM

Large, high quality blooms and strong weather tolerant garden vigor, plus more uniform flowering between colors and a better base branching plant. Ideally suited for 4 in/10 cm pots, large paks or baskets. Crop time 10-11 weeks.

- |                  |                   |
|------------------|-------------------|
| 1852A Bright Eye | 1852B Deep Orange |
| 1852C Lilac      | 1852D Orange Star |
| 1852E Pink       | 1852F Red         |
| 1852G Rose       | 1852H Salmon      |
| 1852J Violet     | 1852K Violet Star |
| 1852L White      |                   |

**1852M Accent Premium Pastel Mix** A special blend of designer colors plus rose, pink, white highlighted by a Bright Eye.

**1852N Accent Premium Mystic Mix** A designer blend of lavender, lilac, and violet highlighted by a Bright Eye.

**1852 Accent Premium Mix** Formula blend of the above Premium colors.

Prices for Accent Premium colors & mixes: 50 seeds \$3.80; 250 seeds \$7.20; 1,000 seeds & over \$18.79 per M.

### IMPREZA®

**Longest shelf life of any impatiens.**

Top selling choice of colors and unique patterns - 5-7 day flowering window, less upward stretch and lodging. Holds well in paks.

- |   |              |
|---|--------------|
| 1848A Blue Pearl                              | 1848C Pink   |
| 1848G Salmon                                  | 1848F Rose   |
| 1848J White                                   | 1848H Violet |
| 1848B Cherry Splash                           | 1848K Punch  |
| 1848W Impreza Mix Blend of above colors.      |              |
| 1848Z Wedgewood Mix Blue Pearl, violet, white |              |

Prices for Impreza colors & mixes: 50 seeds \$4.00; 250 seeds \$7.55; 1,000 seeds & over \$19.67 per M.

### TUMBLER™

**Trailing - Mounded Type**

Unique, well-branched trailing or mounded habit. **Plant stems trail or spread twice the length of regular impatiens.** Provides reliable color in hanging baskets and mixed containers on shady porches, patios, balconies and landscape sites where other impatiens varieties may struggle - due to insufficient light. Excellent garden performance in semi-dense shade. Finished plants rival the quality of those propagated from cuttings.

- |                   |                 |
|-------------------|-----------------|
| 1854B Rose        | 1854C Rose Star |
| 1854D Salmon      | 1854E Scarlet   |
| 1854F Violet      | 1854H White     |
| 1854G Violet Star |                 |

Prices for Tumbler colors: Pkt. (50 seeds) \$6.75; 250 seeds \$18.70; 1,000 seeds & over \$57.43 per M.

## INTRODUCING: IMARA XDR IMPATIENS

The first Walleriana series Impatiens with Downy Mildew resistance.

Call your Stokes Seeds territory manager for the latest update on supply and selection!



Tumbler White



Impreza Violet





Super Elfin Salmon Splash XP



Xtreme Bright Eye



Divine Mix



Florific Violet



Divine Orange



## HYBRID IMPATIENS



### SUPER ELFIN®

#### Best color range

Uniformity, performance and blooming windows have been drastically improved. Uniform, dwarf, free flowering 6 in/15 cm plants. All are green leaf types. All XP colors have been updated and improved for earliness and flower size.

- |   |                     |
|---|---------------------|
| 1015A Pink XP                           | 1015B Violet XP     |
| 1015C Rose XP                           | 1015D White XP      |
| 1015E Bright Orange                     | 1015F Blue Pearl XP |
| 1015G Scarlet XP                        | 1015L Lipstick      |
| 1015M Red XP                            | 1015Q Coral XP      |
| 1015Y Salmon XP                         | 1016G Ruby          |
| 1016J Punch XP                          | 1016K Clear Mix XP  |
| 1016M Red Starburst XP                  |                     |
| 1016N Salmon Splash XP                  |                     |
| 1016H Seaside Mix White, lavender, blue |                     |
| 1015 Mix XP Formula blend of above.     |                     |

Prices for Super Elfin colors & mixes: 50 seeds \$4.00; 250 seeds \$7.55; 1,000 seeds & over \$19.67 per M.

### XTREME™

#### Best for Plugs

An ultra Super Elfin type bred to produce high quality plugs faster than other types. Colors are limited to best performers and highest germinators.

- |   |                   |
|---|-------------------|
| 1032N Bright Eye                                  | 1032Q Bright Rose |
| 1032L Orange                                      | 1032A Lavender    |
| 1032B Pink  | 1032C Red         |
| 1032D Rose  | 1032E Salmon      |
| 1032F Scarlet                                     | 1032G Violet      |
| 1032H White                                       | 1032K Lilac       |
| 1032M Xtreme Mix Formula blend of 10 colors.      |                   |
| 1032X Utopia Mix Lavender, rose, salmon, violet   |                   |
| 1032Y Hot Mix Deep salmon, scarlet, white, salmon |                   |
| 1032Z Sapphire Mix Pink, lavender, violet         |                   |

Prices for Xtreme colors & mixes: 50 seeds \$3.80; 250 seeds \$7.20; 1,000 seeds & over \$18.79 per M.



Super Elfin Violet XP



Xtreme White

## NEW GUINEA IMPATIENS



### DIVINE™ SERIES

F1 hybrid. The best professional quality seed propagated New Guinea impatiens on the market without germination or recent disease issues. **The Divines are highly tolerant to Downy Mildew** and work well with mechanical sowing and transplanting operations. Plants average 10-14 in/25-36 cm and spread 12-14 in/30-36 cm. CULTURE: For plugs use 128 to 288 cells. Cover seed lightly with coarse vermiculite to maintain high moisture. Germinate in 6-8 days @ 72°F/22°C and maintain these temps. until seedlings are ready to transplant. Keep area well lit and plugs at 50% moisture content. After transplanting into 306 premium paks, 4 in/10 cm pots or hanging baskets - reduce moisture slightly. Avoid wilting transplants. As plants flower, lower growing temps to 65°F/18°C to increase flower size. Green or bronze leaf.

- |  |                        |
|--|------------------------|
| 1856F Red/green  | 1855X Lipstick/green   |
| 1855U Orchid/green   | 1855H White/green      |
| 1855G Scarlet red/green  | 1855K Violet/green     |
| 1855J Pink/green   | 1855P Lavender/green   |
| 1855N Orange/green   | 1855S Blue Pearl/green |
| 1855L Orange/bronze  | 1855T Scarlet/bronze   |
| 1855Z Mystic Mix Lavender, white, violet/green   |                        |
| 1855M Divine Mix Blend of above separate colors plus contrasting leaf colors.                        |                        |
| 1855V Hot Cha Cha Mix Burgundy and orange big blooms with all season color. Green to bronze foliage. |                        |

Prices of above Divine colors & mixes: 100 seeds \$12.05; 1,000 seeds & over \$59.67 per M.

### FLORIFIC™ SERIES

F1 hybrid. The perfect semi-shade or shade loving alternative, with the **same strong tolerance to Downy Mildew**. Slightly better branching and more compact than previous New Guinea types. Plants are more tolerant to lower greenhouse temperatures than traditional types. Crop time is about 12.5-15 weeks from seeding to bloom. No pinching needed. Similar culture as Divines. Slightly larger flowers. Blooms lay flat on top of foliage. Use for jumbo packs and 4 in/10 cm pots.

- |                    |                |
|--------------------|----------------|
| 1856E Sweet Orange | 1856A Lavender |
| 1856B Red          | 1856C Violet   |
| 1856D White        |                |

Prices for Florific colors: 50 seeds \$6.20; 250 seeds \$19.95; 1,000 seeds & over \$62.68 per M.



Divine Mystic Mix



Xtreme Hot Mix



Florific Red





Lobelia Cascades Mix



Hollyhock Spring Celebrities Mix



Lavender Avignon Early Blue



Lobelia Vulcan Red



Lavatera Novella Rose



## KOCHIA (Burning Bush)

CULTURE: 28,000 per oz/28 g. Sow indoors Mar.20th - Apr.15th. Germinate at 65-75°F/18-24°C soil temp. Grow at 60°F/16°C. Sow outdoors May 15th - scatter in rows 12 in/30 cm wide for hedge effect. Likes full sun. Never over water seedlings.

**1005 Burning Bush** (30 in/76 cm) Trichophylla Green hedge-like foliage turns red in late Aug. Pkt. (400 seeds) \$2.05; 1/8 oz. \$4.55; oz. \$7.95.



## LOBELIA



CULTURE: 256,000 seeds per oz/28 g. For pak sales or May blooms sow Jan.15th-Mar.15th at 70°F/21°C. for 20 days, as thin as possible. Transplant in clumps of 4 or 5 seedlings per clump, about 4 weeks later. Grow at 45-50°F/7-10°C.

### RAINBOW™

(5 in/13 cm) Dwarf standards.

- 1042 Rainbow Mix** Blend of green leaf types
- 1044 Cambridge Blue** Light blue, light green leaf
- 1048 White Lady** Pure white, green leaf
- 1050 Crystal Palace** Dark blue, bronze leaf
- 1052 Mrs. Clibran** Dark blue/white eye, green leaf

Rainbow prices: Pkt. (500 seeds) \$2.75; 1/16 oz. \$.65; 1/4 oz. \$17.10; oz. \$50.70.

**1046B Cobalt Blue** Dark blue, green leaf. Pkt. (500 seeds) \$2.75; 1/16 oz. \$9.65; 1/4 oz. \$28.55; oz. \$97.45.

### DWARF RIVIERA

(4 in/10 cm) Midnight is dark blue type, with bronze leaves. Multi-pellet only.

- P1046 Lilac**
- P1046H Rose**
- P1046F Marine**
- P1046E Blue Eyes**
- P1046M Riviera Mix** 8 colors
- P1046A Sky Blue**
- P1046D White**
- P1046G Midnight**
- P1046C Blue Splash**

Prices for Riviera colors & mix: Pkt. (50 pellets) \$2.50; 1,000 pellets & over \$10.53 per M.



## TRAILING LOBELIA

### CASCADES™

(8 in/20 cm) Cascades are especially suited for hanging baskets.

- 1051A Blue**
- 1051M Cascades Mix**
- 1051 Sapphire** Blue/white eye
- 1051D White**
- 1051E Red**

Cascades prices: Pkt. (500 seeds) \$2.50; 1/32 oz. \$.50; 1/16 oz. \$7.55; oz. \$75.00.

### REGATTA™

(8 in/20 cm) 12 in/30 cm spread. Multi-pellets only.

- P1040B Lilac**
- P1040E Rose**
- P1040G White**
- P1040M Mix**
- P1040A Blue Splash**
- P1040C Marine**
- P1040D Midnight**
- P1040F Sky Blue**
- P1040H Sapphire**

Regatta prices: Pkt. (50 pellets) \$2.50; 1,000 pellets & over \$12.93 per M.



## TALL LOBELIA



CULTURE: Sow Jan. 15. Grow as annuals. Tender perennials, zone 6.

### STARSHIP™

(20 in/51 cm) F1 hybrid. Crop time 21 weeks. Green foliage. Stems are wind tolerant in full or partial sun. Use 1 or 2 gallon containers. Bloom Summer and Fall. Pelleted seed.

**P1041C Deep Rose**

**P1041E Scarlet**

**P1041F Vulcan Red** (24 in/61 cm) Crop time 21 weeks. Red flowers with bronze foliage. Stems are wind tolerant, shade tolerant or full sun. Use 2 gallon containers.

Prices for the above three: Pkt. (25 pellets) \$5.05; 100 pellets \$13.10; 1,000 pellets & over \$87.14 per M.



## HOLLYHOCK (ANNUAL)



CULTURE: Seed size varies 1,900-3,800 seeds per oz/28 g. Sow indoors Apr. 1st; outdoors May 1st at 60°F/16°C soil temp. for 10 days, for Aug. blooms. Space 12 in/30 cm apart. Reseeds. More Hollyhocks in our Perennial Section.

**988A Summer Carnival Mix** (4.5 ft/137 cm) Fully double 4.5 in/11 cm blooms. 5 colors. Pkt. (40 seeds) \$2.15; 1/8 oz. \$2.80; 1/2 oz. \$5.35; oz. \$9.05.

**988C Zebrina** (2.5 ft/77 cm) 3 in/8 cm single white blooms with purple stripes. Pkt. (40 seeds) \$2.35; 1/8 oz. \$5.20; 1/2 oz. \$13.05; oz. \$21.85.

**988D Spring Celebrities Formula Mix** (30 in/76 cm) Semi dwarf, semi double bloom 14-16 weeks from sowing. Rose, lemon, purple, white, crimson, lilac and pink. Hardy annual to zone 5. Pkt. (15 seeds) \$5.50; 250 seeds \$68.70; 1,000 seeds & over \$173.90 per M.



## LAVENDER



CULTURE: Sow indoors in early April or outdoors April 15 - May 15th. Germinate @ 45-60°F/7-16°C for 4 or 5 days. Pre-chill seed for 24 hours before sowing. Press seed into the soil surface, do not cover - it needs light to germinate. Plug production will take 6-8 weeks. Transplant after 30 days into 4 in/10 cm pots - grow @ 60°F/15°C days and 52°F/9.5°C nights.

**165F Avignon Early Blue** (10-12 in/25-30 cm) Tight, well-branched and strong stemmed plants produce deeper blue flowers earlier than other English Lavenders. Grow as an annual in the early cool season. 100 seeds \$8.65; 1,000 seeds & over \$36.08 per M.

### BANDERA

(10 in/25 cm) Blooms first year. Mounded plant, short harvest.

**165E Pink**

**165A Purple**

100 seeds \$17.90; 1,000 seeds & over \$74.60 per M.



## LARKSPUR



CULTURE: Annual delphinium. 8,000 seeds per oz/28 g sows 600 ft /186 m of row. 1/4 oz/7.2 g seed per 1,000 plants. Sow March 20th; 10-12 weeks from seed to sale as a bedding plant. Cut flower growers should sow outdoors a week after the last frost. For spring cuts sow in September.

**1022A White King**

**1022J Blue Bell Azure**

Prices for Larkspur colors: Pkt. (100 seeds) \$2.50; 1/4 oz. \$8.50; oz. \$23.25; 1/4 lb. \$68.05.

### CANNES™

100% double flowered. Used as a commercial cut flower in greenhouse or outdoor cultures. Grows 32-48 in/81-122 cm, depending on day length (short in winter/longer in summer). Allow 160 days crop time in winter and 120 days in summer. Stake for straight stems.

**1961A Deep Blue**

**1961B Lilac**

**1961C Rose Stripe**

Prices for Cannes colors: Pkt. (50 seeds) \$2.75; 250 seeds \$8.55; 1,000 seeds & over \$21.60 per M.



## LAVATERA (Mallow)

CULTURE: 3,000 seeds per oz/28 g. Seed looks similar to hibiscus. 4 in/10 cm flowers have distinct waxy sheen with nice green foliage. Sow indoors in peat pots February - March. Germinate at 70°F/21°C for 14-21 days, cover seed. Plants reach 24 in/61 cm in height and bloom by mid July. Great cut flower.

**987A Silver Cup** (24 in/61 cm) Rose. Pkt. (25 seeds) \$2.35; 1/4 oz \$2.90; 1/2 oz \$5.05; oz \$7.75.

**987B Mont Blanc** (24 in/61 cm) White. Pkt. (25 seeds) \$2.35; 250 seeds \$2.70; 1,000 seeds & over \$4.14 per M.



## DWARF LAVATERA

4 in/10 cm plants are suitable for commercial pot production. Early flowering with 3 in/9 cm single blooms. Grow 8 in/20 cm plants in pots. Taller garden height up to 24 in/61 cm.

**987N Novella Rose** Rose on creamy pink. Pkt. (15 seeds) \$2.75; 250 seeds \$15.55; 1,000 seeds \$38.55 per M.



## HYBRID DWARF LISIANTHUS

CULTURE: Seed is very small, 625,000 seeds per oz/28 g or 22,000 per g, so we offer only pelleted seed. For bedding plant sales sow Feb. 15th for green/pak sales in May. For cutting crops sow dwarf types Aug.15th for April blooms or Nov. for June flowers. Germinate at 70°F/20°C, thin and transplant 2 months later. Cut flowers last about 10 days. Biennial Eustoma (Zones 7-11). (8 in/20 cm) An earlier flowering Lisa type. Dwarf, base branching plants do not require pinching or growth regulator. Allow 120 days from seeding to sale. Pelleted seed.

**P1018A Mermaid Blue** Pkt. (25 pellets) \$2.50; 500 pellets \$12.25; 1,000 pellets & over \$20.29 per M.



Proud Mari Orange



Lady Mix



Moonstruck Yellow



Proud Mari Gold



Inca II Primrose



## HYBRID MARIGOLD



### DWARF AFRICAN



### SEMI-DWARF AFRICAN



**CULTURE:** 9,000 seeds per oz/28 g. Germination takes 3-7 days at 75-80°F/24-27°C soil temperature. Sow 1/8 oz/3.5 g of seed for approx. 900-1,000 transplants. Sowing depth 1/4 in/6 mm. **EARLY SOWING:** This type must be sown Jan.10th - Feb.15th to provide some blooms 13 to 14 weeks later. To prevent Damping Off use a fungicide at time of seeding. Seed sown after Mar.1st will produce taller plants that take 18 weeks to bloom.

#### ANTIGUA™

The Antigua Series is not sensitive to daylength. Earlier than the Discovery types. Allow 8 weeks to a saleable pak or 10 weeks for pots. Compact, bushy, 10 in/25 cm plants in pots or 12 in/30 cm plants outdoors. Double 2.5 in/6 cm blooms. Detailed/Coated Seed.

**D1064A Yellow**

**D1064B Orange**

**D1064C Gold**

**D1064D Primrose**

**D1064 Antigua Mix**

Prices for Antigua colors & mix: Pkt. (25 seeds) \$2.95; 100 seeds \$7.05; 1,000 seeds & over \$43.93 per M.

#### DISCOVERY™

(10 in/25 cm) This all season hybrid is not sensitive to daylength, which makes it more free flowering during long summer days than Crush types. Blooms are fully double and average 2.5 in/6 cm across. Plants flower about 11 weeks from sowing. Detailed/Coated Seed.

**D1065A Yellow**

**D1065B Orange** Golden orange

Prices for Discovery colors: Pkt. (25 seeds) \$2.95; 100 seeds \$6.25; 1,000 seeds & over \$39.93 per M.

#### PROUD MARI™

(10-12 in/25-30 cm) Large fully double flower heads provide excellent landscape performance. The three colors have the same bloom time and plant heights. Extra thick flower stems provide good support for the larger flower heads. Ships well. Detailed/Coated Seed.

**D1067A Orange**

**D1067B Yellow**

**D1067C Gold**

Prices for Proud Mari colors: Pkt. (25 seeds) \$3.50; 100 seeds \$6.65; 1,000 seeds & over \$44.16 per M.



Antigua Mix

**CULTURE:** Germination takes 3-7 days in 75-80°F/24-27°C soil. **GREENHOUSE:** Sow February 20th-March 10th - 0.25 in/6 mm deep, cover lightly with soil. Germinate at high soil temperatures (see above) using electric cables, if possible. Transplant into paks or pots about 4 weeks after seeding. Grow plants at a minimum night temp. of 50-60°F/10-16°C. June, July and early August sowings are ideal for indoor flowering pot sales, with initial blooms as late as October.

#### INCA II™

(12-14 in/30-36 cm) The INCA II series is slightly shorter, with all colors flowering about 7 days earlier than the original Incas. Much stronger flower stems support fully double blooms. Detailed/Coated Seed.

**D1082D Gold**

**D1082E Yellow**

**D1082F Orange**

**D1082G Primrose**

**D1082M Inca II Mix**

Prices for Inca II colors & mix: 100 seeds \$7.10; 1,000 seeds & over \$44.28 per M.

#### MOONSTRUCK®

(12-14 in/30-36 cm) Strong branching and superior flower quality makes Moonstruck perfect for premium production in large paks and pots. Huge dense flower heads shed water better and last longer in retail garden centers. Use in 4 in/10 cm pots and garden paks. Excellent garden performance. Detailed/Coated Seed.

**D1098A Yellow**

**D1098D Lemon Yellow**

Prices for Moonstruck colors: Pkt. (25 seeds) \$5.25. **Limited.**

#### VANILLA

(16 in/41 cm) F1 hybrid. Novel sturdy dark green bushy plants with double creamy white blooms. This superior pot plant produces large 2.5-3 in/6-7 cm blooms 11-12 weeks from seeding. Excellent garden performance. Ideal for borders, mass bed plantings, or large mixed containers. Detailed/Coated Seed.

**D1065V Vanilla** Creamy white. 100 seeds \$16.45; 250 seeds \$39.70; 1,000 seeds & over \$113.16 per M.



Vanilla



## TALL MARIGOLD



### LADY

(20 in/51 cm) F1 hybrid. This series is the standard for taller African doubles used for massed background plantings under cooler Northeastern conditions. Plants have very strong stems fully double 3 in/8 cm blooms which are held above the foliage. Use 4 in/10 cm pots or gallon containers. Lady mix contains yellow, orange, primrose and gold. Detailed seed.

**D1007 First Lady** Clear Yellow, AAS Winner.

**D1007A Lady Orange**

**D1007B Lady Mix**

Prices for Lady colors & mix: Pkt. (25 seeds) \$3.25; 100 seeds \$5.90; 1,000 seeds & over \$37.67 per M.

**1055 Crackerjack** (35 in/89 cm) Popular O/P variety. Improved Super African, more fully double than the old favorite with the same yellow, orange and gold color range. Used by cut flower growers for summer production and fall harvests. When used in chicken feed, hens produce eggs with darker yolks because of the high color concentration in the blooms. Pkt. (75 seeds) \$2.15; 1/4 oz. \$2.50; oz. \$4.55; 1/4 lb. \$12.90; lb. \$51.60.



Discovery Orange



Antigua Primrose



Super Hero Spry



Bonanza Yellow



Super Hero Orange Flame



Safari Yellow Fire



Chica Orange

## MARIGOLDS (Dwarf Double Carnation Flowered French)

**CULTURE:** Height 6-16 in/15-41 cm. Tagetes patula. 9,000 seeds per oz/28 g. Germination: 3-7 days at 75-80°F/24- 27°C soil temp. Sow 1/8 oz/3.5 g of seed for approx. 900-1,000 plants. **GREENHOUSE:** Several sowings are possible to spread transplanting over a longer period. We make 3 or 4 sowings about 2 weeks apart, starting about Feb.15th until late April for May or June blooms. Sow seed about 1/4 in/6 mm deep, cover lightly with coarse vermiculite or peat-lite mix, rather than soil. For best results use bottom heat (heating cables) and keep moist with tempered water to maintain soil temp. To bloom in paks sow the dwarf French 7 to 8 weeks before sale. Transplant seedlings into paks about 4 weeks after seeding. After transplanting, lower greenhouse growing temp. to 50-60°F/10-16°C. Temperatures lower than 50°F/10°C reduce growth rate and may affect the flowering date. We find that the newer dwarf French types may be grown at a cooler 50-55°F/10-13°C for shorter, stockier plants. **SMALLER GROWERS:** Sow indoors in flats or pots April 1st as above for mid June blooms. Transplant into 3 in/8 cm pots about 25 days after seeding. Seed may also be sown in rows outdoors June 1st at soil temp. of 60°F/16°C. Transplant 3 weeks later 8 in/20 cm apart. Low outdoor night temperatures of 40°F/4°C may cause plants to turn purple and have slow growth - plants should green up as temperatures increase. Most dwarf French types average 275-375 seeds per g. **DETAILED SEED:** Tail removed for easier mechanical sowing.



### SUPER HERO™

(9 in/23 cm) Meet the next generation of heroes! Early flowering compact plant habit and the most uniform series in paks and pots. Eight colors with a very good and stable flower pattern. Detailed/Coated Seed.

- D1069Q Deep Orange
- D1069R Harmony
- D1069T Orange Bee
- D1069V Orange Flame
- D1069W Spry AAS
- D1069X Yellow
- D1069Y Yellow Bee
- D1069Z Mix

Prices for Super Hero colors & mix: Pkt. (25 seeds) \$2.25; 1,000 seeds & over \$13.05 per M.

### BONANZA™

(8 in/20 cm) Larger flowered than the Janie types. Blooms average 2 in/5 cm. Bushy plants are early flowering and provide better hot summer garden performance than Janie types. Detailed/Coated Seed.

- D1019E Bolero
- D1019 Yellow
- D1019G Bee Gold/red fleck
- D1019C Harmony Gold/mahogany
- D1019H Deep Orange
- D1019A Orange
- D1019F Mix
- D1019D Gold
- D1019J Flame

Prices for Bonanza colors & mix above: (25 seeds) \$2.25; 1,000 seeds & over \$9.18 per M.

### LITTLE HERO™

(7 in/18 cm) The earliest flowering of the large flowered extra dwarf types. Excellent hot weather garden performance, ideal for late season sowings, where extreme greenhouse heat in May/early June can cause other strains to stretch. Seed to sale in 9 weeks. Detailed/Coated Seed.

- D1072B Orange
- D1072C Yellow

Prices for Little Hero colors: Pkt. (25 seeds) \$2.25; 1,000 seeds & over \$14.82 per M.

### JANIE™

(8 in/20 cm) All colors mature at the same height, making this series a good choice for pots or containers. Detailed/Coated Seed.

- D1091B Bright Yellow
- D1091E Spry Yellow/red
- D1091F Deep Orange

Prices for Janie colors: Pkt. (25 seeds) \$2.25; 1,000 seeds & over \$10.62 per M.

### CHICA™

(10-12 in/25-30 cm) Full double crested flowers are larger than other French Marigolds of this type. Treat your gardens or commercial landscapes to color all season long. Superior uniformity, early to flower with excellent performance. Detailed/Coated Seed.

- D1071V Flame
- D1071X Gold
- D1071Z Chica Mix
- D1071W Orange
- D1071Y Yellow

Prices for Chica colors & mix: (25 seeds) \$2.30; 1,000 seeds & over \$17.52 per M.

**D1060Z Fireball** (10-12 in/25-30 cm) This "New World" Marigold introduces multicolor blooms on the same plant! In spring flowers age and change color from fire-bronze to dark golden ember for maximum contrast. In warmer conditions colors change faster with less contrast. Detailed/Coated Seed. Pkt. (25 seeds) \$2.25; 1,000 seeds & over \$19.34 per M.

## TRIPLOID CARNATION FLOWERED

### ZENITH

Zenith averages 13 in/33 cm in height and has huge 3 in/8 cm fully double blooms will not produce seed when stressed - so plants continue to flower throughout the hot July and August weather. Average germ. is 80%. Seed to sale in 50 days. Detailed/Coated Seed.

- D1075A Lemon Yellow
- D1075D Orange
- D1075C Golden Yellow
- D1075G Red

Prices for Zenith: Pkt. (25 seeds) \$3.35; 100 seeds \$5.35; 1,000 seeds & over \$35.67 per M.

## CRESTED FRENCH ANEMONE FLOWERED

### SAFARI™

(13 in/33 cm) A larger Sophia type with a much larger, very flat crested flower, similar but earlier blooms. Detailed seed.

- D1070 Yellow
- D1070B Scarlet
- D1070G Red
- D1070E Bolero Yellow with red splashes
- D1070M Safari Mix Formula blend Safari colors
- D1070A Orange
- D1070D Tangerine
- D1070J Yellow Fire

Prices for Safari colors & mix: Pkt. (25 seeds) \$2.25; 1,000 seeds & over \$6.93 per M.

### DURANGO™

(10-12 in/25-30 cm) An improved, early, free flowering plant that is very uniform in height, with good base branching habit. Strong stems support 2-2.5 in/5-6 cm true anemone type blooms with rich colors. Great pak and outdoor performance! Detailed/Coated Seed.

- D1099A Bee
- D1099C Flame
- D1099F Orange
- D1099H Tangerine
- D1099 Mix
- D1099K Outback Mix Blend of bolero, red, yellow and tangerine
- D1099B Bolero
- D1099D Gold
- D1099G Red
- D1099J Yellow

Prices for Durango colors & mixes: Pkt. (25 seeds) \$2.25; 1,000 seeds & over \$8.35 per M.



Durango Outback Mix



Zenith Lemon Yellow



Fireball



Four O'Clock Marbles Mix



Marigold Disco Marietta



Morning Glory Split Second Double



Morning Glory Venice Blue



Nemesia Deep Pink



## SINGLE MARIGOLD

### DISCO™

This extra dwarf collection of singles is recommended as early flowering, 10 weeks from seeding, bedding plants or use in 4 in/10 cm pots. Detailed/Coated Seed.

- D1060A Red**                      **D1060B Marietta**
- D1060C Orange**                **D1060F Yellow**
- D1060H Granada Gold/red**
- D1060 Mix** Formula blend of Disco colors.

Prices for Disco colors & mix: Pkt. (25 seeds) \$2.35; 1,000 seeds & over \$16.64 per M.

## MINI FLOWERED SINGLE TYPE

Very dwarf with distinct mound shaped, fern-like plants. Dime size blooms cover the plants. For window boxes, borders or rock gardens.

- 1038 Tangerine Gem** (12 in/30 cm) Orange
- 1073A Lulu** (8 in/20 cm) Lemon yellow
- 1073 Little Giant** (8 in/20 cm) Gold

Prices for the above 3 colors: Pkt. (75 seeds) \$2.35; 1/4 oz. \$7.85; oz. \$23.55; 1/4 lb. \$79.15.

## FOUR O'CLOCK (MARVEL OF PERU)

CULTURE: Sow indoors April 1st in pots or outdoors June 1st. Blooms 60 days from seeding. Fragrant flowers open in late afternoon and keep flowering till next morning, longer on cloudy days.

**1110A Marbles Mix** (25 in/64 cm) Spectacular formula mix of three striped bicolors - soft yellow/white, red on white and orange/yellow on red marbled flowers. Great fragrance, unique cut flower. Pkt. (40 seeds) \$2.50; 1/4 oz \$5.55; oz. \$10.10.

**1110 Marvel of Peru Mix** (24 in/61 cm) Rose, red, yellow, pink and white. Pkt. (40 seeds) \$2.35; 1/4 oz. \$2.85; oz. \$4.65; 1/4 lb. \$11.00.

## MATTHIOLA (Scented Stock)

CULTURE: Sow May 15th, blooms all summer.

**1114 Bicornis** (18 in/46 cm) Sow in a sunny place for best plant growth. Press seed into soil surface. Seed germinates in about 14 days. Lilac/purple blooms. 2.5 in/6 cm blooms provide fragrance all night. Pkt. (350 seeds) \$2.15; 1/4 oz. \$4.65; oz. \$6.70.

## MESEMBRYANTHEMUM

ICE PLANT CULTURE: 112,000 per oz/28 g. Sow direct into 2.25 in/6 cm peat pots March 15th. Press seed into soil surface - do not cover. Germinate at 70°F/21°C.

**1095A Livingstone Daisy Mix** (6 in/15 cm) Blend of six colors. Pkt. (700 seeds) \$2.35; 1/8 oz. \$2.90; 1/4 oz. \$4.00; 1/2 oz. \$6.15.

## MORNING GLORY (Ipomoea)

CULTURE: Approx. 800 seeds per oz/28 g. Soak seed 48 hours in wet paper towel, or nick pointed end of seed with knife for faster germination. Sow indoors Apr.15th into 3 in/8 cm. Jiffy Strips, 3 seeds per pot (about 5 weeks from sales), 0.25 in/6 mm deep, cover and keep moist at 70°F/21°C soil temp. until seedlings appear. Stake each seedling to encourage climbing and prevent tangling. Sow directly outside May 30th; thin to 6 in/15 cm apart, support with trellis or fence.

- 1115 Heavenly Blue** (12 ft/3.5 m) Sky blue flowers
- 1116 Scarlet O'Hara** (8 ft/2.4 m) Rich dark red in color
- 1117 Morning Glory Mix** Blend of 4 colors.

Prices for Morning Glory colors & mix: Pkt. (70 seeds) \$2.35; oz. \$5.05; 1/4 lb. \$12.00; lb. \$48.00.

### VENICE™



(8 ft/2.4 m) Unique bicolors. Fluoreselect novelty.

- 1111C Blue Bicolor**                      **1111D Pink Bicolor**
- 1111B Venice Mix** Pink, white, red & blue bicolors

Prices for Venice colors & mix: Pkt. (50 seeds) \$2.50; 1/4 oz. \$4.50; oz. \$12.80.

**1111A Cameo Elegance** Easy to grow plant with profuse blooms. Excellent as a climbing vine, in hanging baskets or as a trailing potted plant. Can climb 8 ft/2.4 m. Attractive foliage is variegated and blooms are a rose-red with a white throat. Pkt. (70 seeds) \$2.50; 500 seeds \$10.55; 1,000 seeds & over \$15.84 per M.



## DOUBLE MORNING GLORY



CULTURE: Sow indoors March 15th, 1/2 inch deep in compost or sandy soil. Soak hard seeds in water for 24 hours to aid germination. Maintain 70°F/21°C soil temps, keep moist until seedlings appear. Transplant into pots 3 weeks later. Transplant outdoors by mid-June 12 in/30 cm apart. 6 ft/2 m high. Crop time 80 days. Blooms July-Oct. 90% plus germination.

**1115Z Split Second Double** Stunning rosy-pink full double blooms are unforgettable when you see them! Pkt. (10 seeds) \$2.50; 100 seeds \$9.40; 500 seeds \$31.40; 1,000 seeds & over \$47.07 per M.



## DWARF MORNING GLORY



CULTURE: 476 per oz/28 g. Sow indoors in peat pots May 1st and set outside in June. Sow outdoors May 20th space 12 in/30 cm apart. Direct seeding in pots or hanging baskets is recommended as morning glories are difficult to transplant.

**1122 Dwarf Picotee Mix** Bush convovulus. (12 in/30 cm) Bushy bright green and white foliage combined with red, pink, azure blue, salmon blooms with unique picotee-white margins. Pkt. (20 seeds) \$4.75; 1/4 oz. \$29.85; oz. \$54.35.



## MIMOSA (SENSITIVE PLANT)

CULTURE: 4,500 per oz/28 g. Sow directly into 2.25 in/6 cm peat pots March 15th at 80°F/27°C soil temp. for 10 days - for May sales. Transplant outdoors in clumps May 30th. Plants are base branching and spread 10 in/25 cm at maturity. Transplant or thin to 8 in/20 cm apart. Sold green as a bedding plant.

**1006 Mimosa Pudica** (12 in/30 cm) Fern-like leaves fold up quickly when touched and re-open 15 min. later. An interesting novelty for children. Pkt. (25 seeds) \$2.35; 1,000 seeds & over \$7.29 per M.



## MOONFLOWER



CULTURE: Moonflower approx. 114 seeds per oz/28 g. See Morning Glory culture for more information.

**1118 Moonflower** Huge fragrant white blooms on a night flowering vine. Support with trellis. Pkt. (25 seeds) \$2.35; oz. \$5.05; 1/4 lb. \$12.00.



## NEMESIA (Nana Compacta)



CULTURE: Approx. 90,000-140,000 seeds per oz/28 g. Sow indoors for pots in February for May sales with pansies, or outdoors in April for late June blooms. Germinate at 60-65°F/16-18°C for 10-14 days cover seed lightly. Grow plants cool at 55°F/13°C.

- 1141A Miniature Red & White** (6 in/15 cm) Bicolor
- 1141B Miniature Blue & White** (6 in/15 cm) Bicolor

Prices for Miniature colors: Pkt. (150 seeds) \$2.15; 1,000 seeds & over \$2.40 per M.



### POETRY™

Plants branch nicely without pinching. All colors are fragrant and well suited for bedding plants or container use. Cool crop companion with pansies. Crop time 11-12 weeks. Pelleted Seed.

- P1144B Blue**                                      **P1144D White**
- P1144E Deep Pink**
- P1144 Mix** Formula blend of above.

Prices for Poetry colors & mix: Pkt. (10 pellets) \$4.35; 250 pellets \$17.05; 1,000 pellets & over \$45.41 per M.



Matthiola Bicornis



Nemesia Miniature Red & White



Nasturtium Cream Troika



Nasturtium Whirlybird Mix



Nemophila Baby Blue Eyes



Nicotiana Perfume Mix



Nicotiana Saratoga Purple Bicolor



## NASTURTIIUM



**CULTURE:** Approx. 175 seeds per oz/28 g. Sow seed directly into peat pots, hanging baskets or containers. For bedding plant sales, sow April 10th, 4-5 weeks before sale. Sow outdoors May 1st after the ground warms up. Thin seedlings to 8 in/20 cm apart. Plants bloom about 50 days from seeding. Popular as an edible flower to garnish salads.

**1127 Cream Troika** (10 in/25 cm) Pale creamy yellow blooms with distinct maroon markings on bicolor variegated foliage. Pkt. (25 seeds) \$2.50; oz. \$11.60; 1/4 lb. \$30.85; lb. & over \$123.40 per lb.

**1124J Peach Melba** (12 in/30 cm) Hanging basket type. Pkt. (25 seeds) \$2.50; oz. \$14.25; 1/4 lb. \$37.95; lb. & over \$151.80 per lb.

**1126 Tall Dark Foliage Mix** (2 ft/61 cm) Excellent ground cover for sunny slopes. Orange, gold and red double flowers.

**1128A Jewel Mix** (12 in/30 cm) A rainbow of brilliant yellow, red, orange, pink, chamois, rose and some bicolored double blooms. Standard bedding plant strain.

**1128 Empress of India** (2 ft/61 cm) Cascading clumps of single dark scarlet flowers for hanging baskets.

Prices for the three above: Pkt. (25 seeds) \$2.50; oz. \$4.95; 1/4 lb. \$13.15; 1/2 lb. \$26.30; lb. \$52.60.

**1130 Alaska Mix** (12 in/30 cm) Unusual creamy-white and green foliage plus all the popular colors. Bicolored foliage is great for rock gardens or hanging baskets. Pkt. (25 seeds) \$2.50; oz. \$11.90; 1/4 lb. \$31.70; 1/2 lb. \$63.40; lb. & over \$126.80 per lb.

### WHIRLYBIRD™

(12 in/30 cm) A top blooming series with separate colors and mix. Flowers are without the usual black spur and consequently are able to sit open-faced, right on the top of the stem. Excellent for hanging baskets, rock gardens or flower beds.

**1124A Cherry Rose**  
**1124E Scarlet**

**1124C Mahogany**  
**1124 Whirlybird Mix**

Prices for Whirlybird colors & mix: Pkt. (25 seeds) \$2.75; oz. \$16.70; 1/4 lb. \$44.40; 1/2 lb. \$88.80; lb. & over \$177.60 per lb.



Nicotiana Saratoga Appleblossom



## NEMOPHILA (Insignis Blue)



**CULTURE:** 11,000 seeds per oz/28 g. Sow directly into peat pots or paks April 15th for late May sales. Flowers in June. Germinate at 70°F/21°C. Sow outdoors in May, thin to 8 in/20 cm apart.

**1129 Baby Blue Eyes** (4 in/10 cm) An ideal border plant. Sow where it is to bloom May 15th, to produce a cloud of cup shaped flowers, sky blue in color. Season from June till frost. Pkt. (250 seeds) \$2.15; 1/8 oz. \$3.40; 1/4 oz. \$4.50; oz. \$18.00.



## NIGELLA (Love in the Mist)



**CULTURE:** 11,000 seeds per oz/28 g. First cuts are the best quality, so successive sowings are recommended several weeks apart for a continuous supply. Sow outdoors May 20th after danger of frost. Plants do not transplant well, direct sowings are advised. In mild climates sow in Sept. and overwinter for spring blooms. Seed germinates 20 days at 60°F/16°C. Double blooms, veined seed pods.

**1140A Mulberry Rose** (24 in/61 cm) Large 2 in/5 cm double, rose and pink blooms. Pkt. (100 seeds) \$2.35; 1/4 oz. \$4.00; oz. \$11.40; 1/4 lb. \$45.60.



## NOLANA



**CULTURE:** Annual. Approx. 5,500 seeds per oz/28 g. Sow indoors in pots or paks 6 weeks before May sales. Easy to grow. Used primarily in hanging baskets. Produces blooms in 8-10 weeks from seed. Blooms in cooler early summer months. Remove seed pods after flowering (like pansies) to encourage blooms. Germinate at 70°F/21°C for 15 days, press seed into soil surface, but do not cover.

**1113 Sky Blue** (4 in/10 cm) Dwarf, creeping plants spread 15 in/38 cm producing masses of 2 in/5 cm morning glory type blooms. Sky blue with contrasting large white throats. Likes dry, sunny areas. Pkt. (50 seeds) \$2.35; 1/16 oz. \$2.95; 1/8 oz. \$4.10; 1/4 oz. \$5.85; oz. \$23.40.



Oxalis Valdiviensis Yellow



## NICOTIANA



### FLOWERING TOBACCO

**CULTURE:** 168,000 per oz/28 g. Sow March 10th-April 1st indoors at 75°F/24°C soil temperature for 14 days. Do not cover seed - needs light for germination. Sow outdoors May 15th. Blooms 6 weeks from seed.

**1137 White** (36 in/91 cm) Noted for it's fine perfume.

**1134 Daylight Sensation** (29 in/75 cm) Opens in the daylight. Colors in shades of white, pink and carmine.

Flowering Tobacco prices: Pkt. (1,000 seeds) \$2.35; 1/8 oz. \$3.40; 1/2 oz. \$8.00; oz. \$16.00.

### HYBRID NICOTIANA

250,000 seeds per oz/28 g. Bushy free flowering plants. Sow about March 1st, transplant into 2.25 in/6 cm containers for sale. For June 6 in/15 cm pot sales, sow 10 to 12 weeks before sales. No pinching. Allow 10-12 weeks from seeding for flowering pots; 6 weeks for the sale of green bedding plants. Responds to Cycocel 3 weeks after transplanting.

### PERFUME

(16 in/41 cm) F1 hybrid. Highly scented. Ideal for 4 in/10 cm pots.

**1142A Deep Purple AAS Winner**  
**1142B Perfume Mix** Blend of 6 colors.

Prices for Perfume: Pkt. (50 seeds) \$2.35; 1,000 seeds & over \$9.79 per M.

### SARATOGA™

(10 in/25 cm) The earliest and shortest nicotiana on the market. Vigorous seedlings produce uniform plants for use in paks, 4 in/10 cm pots or gallon containers. Pelleted seed only.

**P1196A White**  
**P1196C Lime**

**P1196B Red**  
**P1196F Appleblossom**

**P1196E Purple Bicolor**

**P1196 Saratoga Mix** Blend of 8 colors.

Prices for Saratoga colors & mix: Pkt. (50 pellets) \$2.50; 1,000 pellets & over \$19.08 per M.

## OXALIS

**1805 Oxalis Yellow** (8-12 in/20-30 cm) Valdiviensis. Annual. Easy to grow. Nice green plant with clover type leaves and 2 in/5 cm golden yellow flowers that keep blooming from June to Sept. Use in flower beds as a border plant or for potted sales. Crop time approx. 50 days. Pkt. (80 seeds) \$3.95; 1/4 oz \$24.70; oz. \$53.60.



## HYBRID PANSY



### DELTA™ PREMIUM SERIES

(4-6 in/10-15 cm) Large 3 in/8 cm blooms in a wide color range of clear and blotched types. Bred for increased overall plant strength and vigor. Uniform plants are extremely heat and weather tolerant. Short, sturdy stems hold blooms upright for maximum appeal. Hardy below the 43rd parallel (Detroit, Michigan).

- NEW** 1745H Blue Morpho 1745F Deep Blue  
 1744A Beaconsfield 1744M Pure Violet  
 1744C Gold Blotch 1744N Pure White  
 1744D Marina 1744P Pure Yellow  
 1744E Neon Violet 1744R Red Blotch  
 1744G Primrose Blotch 1744S Rose Blotch  
 1744T Tapestry Red/gold 1744U True Blue  
 1744H Pure Golden Yellow 1744V Violet & White  
 1744J Pure Lemon 1744W White Blotch  
 1744K Pure Light Blue 1744X Yellow Blotch  
 1744Y Yellow/Purple Wing 1744L Pure Primrose  
 1744F Persian Medley Lilac shades  
 1744 Delta Premium Mix Blend of best Delta colors  
 1744Z Blotch Mix Blend of colors with blotches

Prices for Delta Premium colors & mixes: Pkt. (20 seeds) \$3.25; 250 seeds \$13.35; 1,000 seeds & over \$32.40 per M.

### MAMMOTH®

(6-8 in/15-20 cm) F1 Hybrid. The most uniform extra large pansy on the market. Compare to Colossus XXL and Majestic Giants II. All 12 colors provide excellent contrasts. Use for spring or fall sales. A strong branching habit fills containers quickly, resisting stretching in the greenhouse and outdoors during warm weather - due to a strong robust root system. Extra large blooms have firm petals that stand up to rain and irrigation. Compact plants have reduced daylength sensitivity which provides excellent foliage/bloom ratios during spring and fall conditions. Crop time 10-12 weeks. Hardy below the 43rd parallel (Detroit, Michigan). M = 1,000 Seeds.

- 1735A Big Red Dark red/black blotch/gold eye  
 1735B Blue-ti-ful Blue/black blotch/gold eye  
 1735C Deep Blue Dazzle with black blotch/gold eye  
 1735D Glamarama White with purple blotch/gold eye  
 1735E On Fire Red Cap/yellow picotee/dk brown blotch  
 1735F Prima Yellorina Mid yellow/strong yellow blotch  
 1735G Queen Yellow Bee Yellow/reddish brown blotch  
 1735H Rocky Rose Wine rose/black blotch/gold eye  
 1735J Sangria Punch Scarlet/yellow picotee/wine blotch  
 1735K Viva la Violet Cap/white picotee/violet blotch  
 1735L White Hot Pure white/yellow eye  
 1735M Pink Berry Pink shades  
 1735 Mammoth Mix Formula blend of above colors

Prices for Mammoth colors & mix: Pkt. (20 seeds) \$3.25; 250 seeds \$13.50; 1,000 seeds & over \$31.63 per M.

### SPRING MATRIX™

(8 in/20 cm) Grower tested and selected throughout northern USA, Canada and Europe to provide extra short plant stems, thicker flower petals to resist curling. A better base branching plant habit that resists stretching and produces earlier spring flowers per plant. Very uniform and has superior performance under short daylength during late spring conditions, which provides better flower production for earlier sales. Spread 8-10 in/20-25 cm.

- 1738I Beaconsfield 1738W Primrose  
 1738V Lavender Shades 1738A Blue  
 1738X Purple & White 1738E Lemon  
 1738C Deep Orange 1738G Ocean  
 1738D Golden Yellow/Blotch 1738B Blue/Blotch  
 1738F Midnight Glow 1738H Pink Shades  
 1738K Red/Blotch 1738J Purple  
 1738M Sangria Bicolor 1738L Rose  
 1738U Rose Blotch 1738N Scarlet  
 1738Q White/Blotch 1738T Blue Wing  
 1738S Yellow/Blotch 1738P White  
 1738Z Spring Matrix Clear Mix 1738R Yellow  
 1738Y Spring Matrix Blotch Mix  
 1738 Spring Matrix Mix Formula blend of colors

Prices for Spring Matrix: Pkt. (20 seeds) \$3.25; 250 seeds \$13.90; 1,000 seeds & over \$33.71 per M.

### FRINGED VARIETY

#### FRIZZLE SIZZLE™

An F1 hybrid version of the fringed or ruffled edge chalon type. Plants average 4 in/10 cm and provide finished plants in about 10 weeks from seeding. Large 3 in/8 cm single ruffled blooms on well-branched uniform plants. Excellent for pots or massed beds.

- 1989H Lemonade 1989A Blue  
 1989B Burgundy 1989D Yellow/Blue Swirl  
 1989C Yellow 1989G Raspberry  
 1989E Orange 1989 Frizzle Sizzle Mix

Prices for Frizzle Sizzle colors & mix: Pkt. (20 seeds) \$3.25; 500 seeds \$24.50; 1,000 seeds & over \$33.71 per M.



Mammoth Mix

### UNIQUE COLORS

**1192A Halloween** Pure black with yellow eye. Pkt. (20 seeds) \$2.50; 250 seeds \$14.55; 500 seeds \$25.65; 1,000 seeds & over \$39.20 per M.

**1157C Ultima Morpho** Blue/yellow. AAS Winner. Pkt. (20 seeds) \$3.85; 250 seeds \$15.80; 1,000 seeds & over \$42.53 per M.

### MAJESTIC GIANTS II

Larger flower size, with earlier, more compact plant and freer flowering than original series. Hardy below Detroit, Michigan.

**1195 Majestic Giants II Mix** 250 seeds \$14.95; 500 seeds \$26.40; 1,000 seeds & over \$36.32 per M.

### F2 HYBRID PANSY

**1146C Joker Poker Face** Replaces Jolly Joker. Same dark orange petals/purple cap with black face. Pkt. (25 seeds) \$2.50; 250 seeds \$8.70; 1,000 seeds & over \$14.87 per M.

### STOKES SWISS GIANT PANSIES

Noted for robust habit of growth and large, long stemmed blooms. Winter hardy strain to zone 4B. Best O/P variety. Over 10 color formula blend. Popular with large commercial growers.

**1145 Exhibition Mix** Formula blend from the most popular European grown plain and blotched types. Pkt. (125 seeds) \$2.50; 1/16 oz. \$9.70; 1/8 oz. \$15.90; 1/2 oz. \$49.65.



Delta Premium Mix





## VIOLAS - MINI PANSIES & TRAILING PANSIES



Approx. 40 seeds per 1/512 oz/0.11 g. Approx. 17,000-28,000 seeds per oz/28 g. Seed size varies according to color. Most growers treat pansies and violas as annual crop - sowing seed in the greenhouse from Dec.15th- Feb.15th for early spring or summer sales. Allow 14-18 weeks from seed to sale for paks and 16-20 for pots. Pre-chill seed at 35-40°F/2-4°C for 24 hours. Sow seed in shallow 1/8 in/3 mm deep trenches, press seed into the surface and cover lightly with a dusting of fine soil. Keep soil temps. cool at 65-70°F/18-21°C for 8-15 days. Cover seed flats with black plastic or newspaper. Keep seeds without light until germination. Choose a cool shaded area out of direct sunlight so you will not cook the seed under the plastic. Reduce soil temperatures to 50°F/10°C after germination. Transplant 4 weeks later - grow plants cool, in well ventilated area. **M = 1,000 Seeds or Pellets.**



### F1 HYBRID VIOLA



#### SORBET® XP IMPROVED COLORS

(6-8 in/15-20 cm) F1 hybrid. Early prolific bloomers with uniform habit that remains compact in a range of weather conditions.

- NEW** 1988N Pink Wing      1988L True Blue
- NEW** 1988P Yellow Burgundy Jump Up      1988C Morpho
- NEW** 1988Q Yellow Blue Jump Up      1987V Marina
- NEW** 1988R Raspberry Sundae Mix      1987H Purple
- NEW** 1988S Autumn Mix      1987L White
- 1988G Orange Jump-up      1987L White
- 1988M Deep Orange      1987M Yellow
- 1988K Yellow Pink Jump Up      1987R Raspberry
- 1988H Lavender Pink      1987Q Delft Blue
- 1988J Coconut Swirl      1988E White/Blotch
- 1987A Beaconsfield      1987B Blue/Blotch
- 1987T Lemon Blueberry Swirl      1987U Blackberry
- 1987N Yellow/Blotch      1987W Pink Halo
- 1987P Yellow Jump-up      1987Y Red Blotch
- 1988 Jump-up Mix      1987Z Mix
- 1988Z Spring Select Mix

1988F Y.T.T. (Yesterday, Today, Tomorrow) Changes color as it matures, opens white then to shades of blue.

Prices for XP colors & mixes: Pkt. (20 seeds) \$2.75; 500 seeds \$18.80; 1,000 seeds & over \$25.90 per M.

#### PENNY™

(4-6 in/10-15 cm) Penny's unique mounded plant habit suits a wide range of pot and container sizes. Tolerates more heat and stretches less than other hybrid violas. Hardy to 44th parallel. Spring croptime 11-13 weeks. Fall croptime 9-10 weeks.

- 1742Y Marina      1742A Orange
- 1742B Orange Jump-up/wine      1742C Red/Blotch
- 1742D White Jump-up/wine      1742F Yellow
- 1742E Yellow Jump-up/wine      1742J Purple Picotee
- 1742H Peach Jump-up/purple      1742N Mickey
- 1742L Denim Jump-up/blues      1742Q Clear Yellow
- 1742P Red Wing      1742S Marlies
- 1742R White/Blotch
- 1742T Primrose Picotee Yellow/Purple
- 1742W Azure Dawn Pastel Blue and Yellow Shades
- 1742 All-Seasons Mix Blue/Orange/Yellow/Yellow Frost

Prices for Penny colors & mix: Pkt. (20 seeds) \$2.75; 500 seeds \$17.60; 1,000 seeds & over \$23.35 per M.

### GIANT VIOLA

#### COLORMAX™

(4 in/10 cm) F1 hybrid. ColorMax is a giant-flowered viola that is heat tolerant and fills pots easily, even under heat stress where standard violas suffer. It is a superb autumn performer and a great choice to start the season. This alternative to pansies comes in a number of eye-catching and unique colors that are extremely versatile - perfect for pots, packs, baskets and mixed containers.

- NEW** 1990Z Lemonberry Pie Mix      1990F Lemon Splash
- 1990A Berry Pie      1990C Clear Purple
- 1990G Popcorn      1990B Clear Orange
- 1990K Yellow Jump-up      1990E Icy Blue
- 1990J Rose w/Blotch      1990D Clear Yellow
- 1990 ColorMax Mix      1990H Purple Glow

Prices for ColorMax colors & mix: Pkt. (20 seeds) \$2.75; 250 seeds \$17.05; 1,000 seeds & over \$41.40 per M.



### MINI HYBRID PANSY



#### PANOLA® XP

(6-8 in/15-20 cm) Free flowering, resists stretching in warm weather, are very early and hardy to the 44th parallel (Toronto, Chicago) Crop time 60 days. XP = Improved.

- 1103A Beaconsfield XP      1104A Marina XP
- 1103B Deep Blue/Blotch XP      1104B Yellow XP
- 1103L Purple/Face XP      1103D Fire XP
- 1103H Deep Orange XP      1103R True Blue XP
- 1103T White/Blotch XP      1103S White XP
- 1103Y Rose Picotee XP

Prices for Panola XP colors: 250 seeds \$12.85; 1,000 seeds & over \$31.23 per M.

- 1103M Autumn Blaze Mix XP Red/Yellow Shades
- 1103N Panola Mix XP Full color mix
- 1104S Clear Mix XP Best of clear colors

Prices for Panola XP mixes: Pkt. (20 seeds) \$3.05; 250 seeds \$12.85; 1,000 seeds & over \$31.23 per M.



## HYBRID TRAILING PANSY

#### WONDERFALL™

(8-10 in/20-25 cm) Unique plants spread 18-24 in/46-61 cm and have medium to large sized blooms. Vigorous well branched, early flowering habit requires fewer plants per container. Provides fast, uniform, well filled containers for spring sales of premium quarts, 6 in/15 cm pots and hanging baskets. Plants have a long shelf life with continuous flowering through all seasons. Crop time: Spring 10-12 weeks. Fall: 9-11 weeks from plugs.

- 1754F Blue w/Blotch      1754G Purple
- 1754L Yellow      1754D Rose Shades/Face
- 1754K Yellow w/Blotch      1754C Purple/Blue Shades
- 1754A Blue Picotee Shades      1754E Yellow/Red Wing
- 1754B Lavender Picotee Shades

Prices for WonderFall colors: Pkt. (20 seeds) \$6.25; 250 seeds \$51.00; 1,000 seeds & over \$140.74 per M.

#### COOL WAVE®

(8 in/20 cm) Plants have a very prostrate, spreading 24-30 in/60-75 cm habit - perfect for hanging baskets and unique ground cover landscaping. Blooms are similar in size to mini pansies and hold up well in rainy weather better than large flowered types. Crop time: Seed to finish approx. 20-21 weeks. Most popular pansy in chain stores. Primed Seed.

- NEW** R1748N Lemon      **NEW** R1748M Fire
- R1748L Raspberry      R1748J Blue Skies
- R1748G Blueberry Swirl      R1748C White
- R1748H Sunshine N' Wine      R1748F Purple
- R1748E Golden Yellow

- R1748A Frost White/Blue Edge
- R1748B Violet Wing White/Purple Cap
- R1748 Cool Wave Mix Above colors plus Lemon
- R1748Z Pastel Mix White/Yellow/Frost/Violet Wing

Prices for Cool Wave colors & mix: Pkt. (20 seeds) \$7.25; 100 seeds \$26.55; 1,000 seeds & over \$183.40 per M.



Sorbet XP Raspberry Sundae Mix



Sorbet XP Autumn Mix



Easy Wave South Beach Mix



Opera Supreme Raspberry Ice



Trilogy White



Tidal Wave Silver



Ramblin' Amethyst



Hurrah Lavender Tie-Dye



Celebrity Blue Ice

## HYBRID MULTIFLORA PELLETTED PETUNIAS

Multiflora petunias are much better garden performers than the more popular grandifloras. The Celebrity series has the earliness of grandifloras, the garden performance of the old multifloras, a slightly larger bloom and better pak and pot appearance. We prefer to call these "floribundas". GERMINATION: Most multifloras and grandifloras average 90% germ. CULTURE: For early spring container sales, start seed in Feb.-Mar. and transplant into paks or flats, then move transplants to containers about 4 weeks before sale. For early spring pak sales, allow 12 weeks from time of sowing at 50°F/10°C temperature. Germinate at soil temp. of 80°F/27°C in light (86°F/30°C air temp). A 80°F/27°C air temp. at night should maintain a 60°F/16°C soil temp. Use seedling mix as a growing medium with bottom heat if possible. All Multifloras are sold as pelleted seed only.

### MULTIFLORA HANGING BASKET TYPES

#### WAVE®

6 in/15 cm dwarf plants spread over 2 ft/60 cm with 2 in/5 cm blooms. Allow 12-14 wks. The Waves are daylength sensitive and are slow to flower during short daylength (12 hours or less). Purple Classic and Lavender are AAS Winners. Pelleted seed only.

- P1200A Pink
- P1200B Misty Lilac
- P1200 Purple Classic
- P1200E Lavender

Prices for Wave: 20 pellets \$8.65; 100 pellets \$27.10; 500 pellets \$97.60; 1,000 pellets & over \$186.91 per M.

#### EASY WAVE®

Earlier to flower under short daylength (12 hours or less) which provides more flowers in the paks during spring sales. Plant habit is a bit more mounded than the Waves - with a mature height of 8 in/20 cm and a spread of 2.5 ft/77 cm. Plants fill out well, stay full of blooms longer and look good all season. Pelleted seed only.

**NEW** P1206D South Beach Mix Mix of red, violet and coral reef.

- P1206A Pink Passion
- P1206B Silver
- P1206C Yellow
- P1202J Berry Velour
- P1202B Pink
- P1202D White
- P1202T Burgundy Velour
- P1202K Rosy Dawn
- P1202F Blue
- P1202L Coral Reef
- P1202G Red
- P1202N Burgundy Star
- P1202P Plum Vein
- P1202Q Violet
- P1202R Neon Rose
- P1202V Red Velour
- P1202X Great Lakes Mix Violet, blue & white
- P1202Y Plum Pudding Mix Plum Vein & Violet
- P1202Z Easy Wave Formula Mix Best color mix.

Prices for Easy Wave colors & mixes: 20 pellets \$8.65; 100 pellets \$27.10; 500 pellets \$97.60; 1,000 pellets & over \$186.91 per M.

#### TRILOGY™

(12 in/30 cm) Plant habit is spreading/trailing with blooms that are much tighter together than Easy Wave which makes this series an excellent choice for hanging baskets. All colors have a long shelf life; flowers retain short internodes even after blooming and plants are less sensitive to daylength than other spreading petunias. Pelleted seed only.

- P1908B Purple
- P1908H Blue
- P1908E Salmon Morn
- P1908C Rose
- P1908F Scarlet
- P1908G White

Prices for Trilogy colors: 20 pellets \$6.15; 100 pellets \$19.35; 1,000 pellets & over \$133.38 per M.

#### RAMBLIN™

Bred for its' rambling habit, Ramblin' grows to only 10-14 in/25-36 cm high, but spreads or trails to 30-36 in/76-90 cm. Plants are 2 weeks earlier than Waves, on short internodes. Crop time 10-12 weeks. Pelleted seed only.

- P1207R Sky Blue
- P1207B Lavender
- P1207Q Amethyst
- P1207C Lilac Glo
- P1207D Pink
- P1207F Nu Blue
- P1207E Neon Rose
- P1207G Peach Glo
- P1207H Red
- P1207K Shades O'Pink
- P1207J Salmon Capri
- P1207L Violet
- P1207M White
- P1207P Sugar Plum
- P1207 Ramblin' Mix
- P1207Y Calypso Mix Neon Rose, Peach Glo and Salmon Capri
- P1207Z Razzleberry Mix Nu Blue, Lilac Glo and Chrome Burgundy

Prices for Ramblin': 20 pellets \$6.60; 100 pellets \$20.75; 500 pellets \$74.75; 1,000 pellets \$143.10 per M.

#### OPERA SUPREME®

Similar to the original Wave type in its prostrate 6 in/15 cm height, but with a much stronger stem and more abundant flowers. Crop time is only 10 weeks from seed. Excellent trailing/spreading habit, with plants extending to 3.5 ft/110 cm wide (twice that of Waves). Pelleted seed only.

- P1203E Raspberry Ice
- P1203C Red
- P1203B Lilac Ice
- P1203A Opera Pink Morn Rose Pink/White. AAS Winner.

Prices for Opera Supreme pellets: 20 pellets \$7.65; 100 pellets \$22.75; 500 pellets \$87.20; 1,000 pellets & over \$156.98 per M.

### MULTIFLORA BEDDING & POT TYPES

P1172Z Evening Scentsation™ A low, spreading, vigorous habit with a large number of indigo blooms. Great garden and landscape performer, also great for mixed containers and hanging baskets. Flowers have a hyacinth like scent with hints rose and honey. AAS Winner. Pelleted seed only. 20 pellets \$7.45; 100 pellets \$23.35; 1,000 pellets & over \$161.28 per M.

### MULTIFLORA BEDDING & POT TYPES

#### CELEBRITY

As early as Carpets, but with a wider color range, they are also freer flowering during wet weather. Bushy 11 in/28 cm plant with 3 in/8 cm blooms. 11.5 weeks from seed to bloom. Pelleted seed only.

- P1168A Red
- P1168B White
- P1168C Blue
- P1168D Salmon
- P1168F Blue Ice
- P1168I Pink
- P1168K Burgundy
- P1168L Lilac Morn
- P1168M Lilac
- P1168N Pink Morn
- P1168Q Neon
- P1168R Rose
- P1168T Red Morn
- P1168U Ice Mix
- P1168V Morn Mix
- P1168W Burgundy Star
- P1168X Carmine
- P1168Z Chiffon Morn
- P1168Y Yellow
- P1168 Niagara Mix Blue, lilac, purple and white
- P1168R Celebrity Mix Blend of best colors.

Prices for Celebrity colors & mixes: 500 pellets \$4.45; 1,000 pellets & over \$7.10 per M.

#### TIDAL WAVE®

The most dense ground cover of all. 10 in/25 cm high plants spread to a diameter of 3 ft/90 cm at maturity. Masses of 2 in/5 cm blooms cover each plant. Pelleted seed only.

- P1199E Red Velour
- P1199B Blue Veined
- P1199C Hot Pink
- P1199D Purple
- P1199A Silver Silvery white to pale lavender with dark purple veins. AAS Winner.

Prices for Tidal Wave: 20 pellets \$8.65; 100 pellets \$27.10; 500 pellets \$97.60; 1,000 pellets & over \$186.91 per M.

#### HURRAH™

Earliest multiflora series on the market, especially in low light or short day locations. Compact non-stretching (8-10 in/20-25 cm) mounded plant habit. Crop time 9.5-11 weeks. Pelleted seed only.

- P1979A Blue
- P1979B Blue Veined
- P1979D Lavender Tie-Dye
- P1979E Pink
- P1979J Plum
- P1979M Red Star
- P1979L Red
- P1979N Rose
- P1979P Rose Star
- P1979Q Salmon
- P1979T Velvet
- P1979U White
- P1979 Hurrah Mix

Prices for Hurrah colors & mix: 500 pellets \$5.90; 1,000 pellets & over \$9.40 per M.



Fuseables Healing Waters



Supercascade Rose



EZ Rider White



Shockwave Red



Dreams Midnight Blue



Limbo GP Red Veined



Picobella Light Lavender



Tritunia Mix

## HYBRID GRANDIFLORA PETUNIAS

### DREAMS®

Dreams bloom about 10 weeks from seeding in paks or 13 weeks in pots or hanging baskets. Good cold-wet weather tolerance. Appleblossom and Red Picotee are AASWinners. Pelleted seed only.

- |                                |                            |
|--------------------------------|----------------------------|
| <b>P1169A Red</b>              | <b>P1169B White</b>        |
| <b>P1169C Midnight Blue</b>    | <b>P1169D Salmon</b>       |
| <b>P1169E Pink</b>             | <b>P1169F Neon Rose</b>    |
| <b>P1169K Burgundy</b>         | <b>P1169L Appleblossom</b> |
| <b>P1169N Rose</b>             | <b>P1177B Rose Picotee</b> |
| <b>P1177A Burgundy Picotee</b> | <b>P1177D Sky Blue</b>     |
| <b>P1177C Red Picotee</b>      | <b>P1177E Rose Morn</b>    |
| <b>P1177G Coral Morn</b>       |                            |
- P1169 Dreams Mix** Formula blend of the best colors.  
**P1169P Dreams Patriot Mix** Red, white and blue  
**P1169Q Dreams Waterfall Mix** Sky blue, midnight blue and white

Prices for Dreams colors & mixes: Pkt. (100 pellets) \$2.75; 500 pellets \$6.25; 1,000 pellets & over \$9.23 per M.

### LIMBO GP™

Blooms about 10-11 weeks from sowing. The only natural dwarf non-stretching grandiflora petunia on the market. Well branched plant is covered in huge flowers and recovers well from rain damage. Flowers reach a garden height of 8-10 in/20-25 cm or 4-6 in/10-15 cm in pots. Pelleted seed only.

- |                                |                           |
|--------------------------------|---------------------------|
| <b>P1251R Burgundy Picotee</b> | <b>P1251V Pink</b>        |
| <b>P1251S Red Picotee</b>      | <b>P1251D Rose Veined</b> |
| <b>P1251T Rose Picotee</b>     | <b>P1251E Red Veined</b>  |
| <b>P1251U Orchid Veined</b>    | <b>P1251F Pink Morn</b>   |
| <b>P1251N Burgundy</b>         | <b>P1251H Salmon Morn</b> |
| <b>P1251Q Mid Blue</b>         | <b>P1251A Rose</b>        |
| <b>P1251Z Heather's Mix</b>    | <b>P1251B Salmon</b>      |
| <b>P1251P Sky Blue</b>         | <b>P1251C Red</b>         |
| <b>P1251L Deep Purple</b>      | <b>P1251J Peach</b>       |
| <b>P1251G Rose Morn</b>        | <b>P1251M Violet</b>      |
| <b>P1251K White</b>            |                           |

Prices of Limbo colors & mix: Pkt. (100 pellets) \$2.95; 1,000 pellets & over \$19.04 per M.

### TRITUNIA™

(10 in/25 cm) Based on top performers in Goldsmith's Ultra and Storm series that are matched for uniformity, flower size, plant habit and flowering time. The "best of the best" one-stop shop for colors. Crop time 8-14 weeks. Pelleted seed only.

- |                            |                         |
|----------------------------|-------------------------|
| <b>P1174A Blue</b>         | <b>P1174B Blue Vein</b> |
| <b>P1174C Blue Star</b>    | <b>P1174D Burgundy</b>  |
| <b>P1174E Crimson Star</b> | <b>P1174F Lavender</b>  |
| <b>P1174G Pink</b>         | <b>P1174H Pink Morn</b> |
| <b>P1174J Pink Vein</b>    | <b>P1174K Plum</b>      |
| <b>P1174L Purple Star</b>  | <b>P1174M Red</b>       |
| <b>P1174N Red Star</b>     | <b>P1174P Rose</b>      |
| <b>P1174Q Rose Star</b>    | <b>P1174R Salmon</b>    |
| <b>P1174S Salmon Vein</b>  | <b>P1174T Sky Blue</b>  |
| <b>P1174U Violet</b>       | <b>P1174V White</b>     |
- P1174 Tritunia Mix A** selected blend of above colors.

Prices of Tritunia colors & mix: Pkt. (100 pellets) \$2.75; 500 pellets \$6.10; 1,000 pellets & over \$9.00 per M.



Fuseables use either 2 different colors of Bacopa or two colors of Coleus or combining Petunias and Bacopa in the same precision multi-pellet to produce great container combos. Crop time 8-12 weeks sow to finish. Multi-Species. See index for more Fuseables®!

**P1901S Rise N Shine** Combines Easy Wave Yellow and Rosy Dawn in the same precision multi-pellet.

**P1901R Ooh La La** Combines Easy Wave Burgundy Star, Easy Wave Neon Rose and Shock Wave Coconut petunias in the same precision multi-pellet.

**P1901J Healing Waters** Combines Shockwave Denim, Easy Wave Violet petunias and large-flowered blue Bacopa in the same precision multi-pellet.

**P1901Q Strawberry Wine** Easy Wave Shell Pink, Dreams Red and Daddy Red petunias a precision multi-pellet.

**P1901C Blue Dawn** Combines Easy Wave Rosy Dawn Petunia and Blutopia Bacopa in a precision multi-pellet.

**P1901D Silk N' Satin** Combines Shock Wave Pink Shades Petunia and Snowtopia Bacopa a precision multi-pellet.

Prices of the above six Fuseables: Pkt. (10 pellets) \$7.75; 100 pellets \$51.00; 1,000 pellets \$370.31 per M.

**P1901L Blueberry Lime Jam** Sophistica Lime Green and Dreams Midnight petunias in a precision multi-pellet.

**P1901N Lime Coral** Dreams Coral Morn and Sophistica Lime Bicolor petunias in a precision multi-pellet.

**P1901G Pleasantly Blue** Combines Dreams Midnight and Daddy Blue petunias in the same precision multi-pellet.

Prices of the above three Fuseables: Pkt. (10 pellets) \$7.75; 100 pellets \$25.50; 1,000 pellets & over \$185.15 per M.

### EZ RIDER®

Suitable for cold growing conditions, genetics require 1/2 the PGR's to control stretching. Compact plants provide tight bloom windows so you can ship all colors together. Better base branching improves airflow to reduce Botrytis and lodging later in the season. Sow to transplant 6 weeks - 6 more weeks to flower. Pelleted seed only.

- |                           |                         |
|---------------------------|-------------------------|
| <b>P1179C Deep Salmon</b> | <b>P1179A Blue</b>      |
| <b>P1179D Red</b>         | <b>P1179B Deep Pink</b> |
| <b>P1179F White</b>       | <b>P1179E Rose</b>      |
- P1179M EZ Rider Mix** Formula blend of above colors.

Prices for EZ Rider: Pkt. (100 pellets) \$2.75; 500 pellets \$10.30; 1,000 pellets & over \$15.28 per M.

### SUPERCASCADE™

Super sized 4.75 in/12 cm blooms, specially designed for containers. A vast improvement on the original Cascade type. Plants are 3 days earlier and are more suitable for hanging baskets. Pelleted seed.

- |                    |                     |
|--------------------|---------------------|
| <b>P1252 Pink</b>  | <b>P1252B White</b> |
| <b>P1252A Red</b>  | <b>P1252J Lilac</b> |
| <b>P1252M Blue</b> | <b>P1252L Rose</b>  |
- P1252P Burgundy**  
**P1252D Cascade Blend** Formula blend of 10 supercascade colors plus Sugar Daddy and 2 bicolors.

Supercascade colors & mix prices: Pkt. (100 pellets) \$2.75; 500 pellets \$6.25; 1,000 pellets & over \$9.23 per M.

**P1101 Prism Sunshine** One of the best yellow grandiflora petunias. It is free flowering and holds it's color during cooler early and late summer months. Plants average 6 in/15 cm in paks and 8 in/20 cm in the garden. Flowers average 4 in/10 cm in diameter. Blooms from seed in 75 days. Pkt. (100 pellets) \$2.75; 500 pellets \$6.85; 1,000 pellets & over \$9.99 per M.

## HYBRID MILLIFLORA PETUNIA



### PICOBELLA™

(8-10 in/20-25 cm) Similar 1-1.25 in/2.5-3 cm blooms as Fantasy, but plants have more vigor, weather tolerance and spreading habit - making them more suitable for massed beds and large containers. No growth controls are needed. Crop time is between 8-10 weeks from seeding. Pelleted seed only.

- |                              |                            |
|------------------------------|----------------------------|
| <b>P1982A Blue</b>           | <b>P1982B Carmine</b>      |
| <b>P1982C Light Lavender</b> | <b>P1982D Rose</b>         |
| <b>P1982E White</b>          | <b>P1982F Red</b>          |
| <b>P1982G Salmon</b>         | <b>P1982H Rose Morn</b>    |
| <b>P1982J Rose Star</b>      | <b>P1982 Picobella Mix</b> |

Prices for Picobella pellets: Pkt. (100 pellets) \$4.05; 500 pellets \$13.10; 1,000 pellets & over \$20.92 per M.



### SHOCK WAVE®

Earliest to flower of all spreading types - 3 days earlier than Easy Waves. Lush plants are blanketed with masses of small 1.5 in/4 cm self cleaning blooms on mounded spreading foliage. Blooms recover from rain faster than any other petunia. Pelleted seed only.

- |  |                           |
|--|---------------------------|
| <b>P1212L Yellow</b>                                 | <b>P1212B Pink Shades</b> |
| <b>P1212C Pink Vein</b>                              | <b>P1212E Rose</b>        |
| <b>P1212F Denim</b>                                  | <b>P1212G Coconut</b>     |
| <b>P1212H Coral Crush</b>                            | <b>P1212J Red</b>         |
| <b>P1212K Deep Purple</b>                            |                           |
| <b>P1212Y Spark Mix</b> Coconut, Denim & Pink Shades |                           |

Prices for Shock Wave colors & mix: 20 pellets \$8.65; 100 pellets \$27.10; 500 pellets \$97.60; 1,000 pellets \$186.91 per M.



Petunia Frost Series



Phlox Grammy Pink & White



Petunia Double Cascade Orchid Mist



Osteospermum Asti White



Pentas Lucky Star Raspberry



## HYBRID GRANDIFLORA PETUNIAS



**1293C Frillytunia® White** Grandiflora single blooms are unique - heavily fringed and average 3.5 in/9 cm in diameter. Pkt. (50 seeds) \$2.75; 500 seeds \$7.40; 1,000 seeds & over \$10.94 per M.

### FROST™

A combination of the Frost types, all of which have various solid colors ringed with a white outer halo. All are 3.5 in/9 cm blooms and have wavy edges. Raw seed only.

**1205 Blue Frost**

**1205B Velvet Frost**

**1205C Fire Frost**

**1205D Cherry Frost** A deeper rosy, cherry red with a white picotee.

Prices of Frost colors: 500 seeds \$6.05; 1,000 seeds & over \$8.78 per M.

### DADDY®

All veined types - rich pastel or clear, ruffled colors with contrasting darker veins of a similar color.

**1294 Sugar Orchid**

**1294A Pink**

**1294E Orchid** AAS Winner **1294G Blue** Light blue

**1294B Peppermint** Silvery orchid

**1294D Red**

**1294M Daddy Mix** A blend of all of the above plus silvery white with darker overlaid veins.

Prices for Daddy colors & mix: Pkt. (100 seeds) \$3.25; 500 seeds \$5.35; 1,000 seeds & over \$7.81 per M.

### SOPHISTICA®

A collection of unique color combinations with wavy edged grandiflora blooms on 10 in/25 cm plants. Pelleted seed only.

**P1181D Antique Shades**

**P1181E Blue Morn**

**P1181F Lime Bicolor**

**P1181H Lime Green**

**P1181A Twilight**

**P1181G Blackberry** Matures from black to black with purple undertones.

Prices for Sophistica colors: Pkt. (10 pellets) \$4.50; 100 pellets \$23.80; 1,000 pellets & over \$107.06 per M.



## DOUBLE PETUNIAS



Grandiflora Double. Popular for containers, pots, formal bedding. Allow 11-13 weeks from seed to flower in paks; 14 weeks for pots. Mostly 12 in/30 cm plants, blooms fully double 3.5 in/9 cm. Double Cascades are at least 2-3 weeks earlier to flower. Purple Pirouette is an AAS Winner. Pellets only.

**P1162W Red Pirouette** Red/white edge

**P1162X Purple Pirouette** Violet Purple/white edge

**P1162Y Rose Pirouette** Rose/white edge

**P1162 Double Glorious Mix** 8 colors and 3 bicolors.

Prices for above pellets: Pkt. (50 pellets) \$4.50; 500 pellets \$14.60; 1,000 pellets & over \$21.76 per M.



## DOUBLE PETUNIAS



### DOUBLE CASCADE

**P1245A Pink**

**P1245B Burgundy**

**P1245D Orchid Mist**

**P1245F Blue**

**P1162N Valentine Red**

**P1245M Mix** Select blend of above colors.

Prices for Double Cascade pellets: Pkt. (50 pellets) \$4.50; 500 pellets \$14.60; 1,000 pellets & over \$21.76 per M.



## PHLOX DRUMMONDII



CULTURE: 15,000 seeds per oz/28 g. Sow thinly, in paks Feb.15th-April 1st for May sales. Germinate at 60-65°F/16-18°C for 10 days, 1/8 in/3 mm deep. Lightly cover seed and place flat in total darkness.

**1228 Globe Mix** (8 in/20 cm) Standard dwarf for bedding plant sales. Plain edged bloom - pastel and solid colors. Transplants easily. AAS Winner. Pkt. (225 seeds) \$2.50; 1/4 oz. \$6.95; oz. \$19.90.

**1231 Twinkle Mix** (8 in/20 cm) Dwarf star shaped bloom mix. Many solid colors and bicolors. Pkt. (225 seeds) \$2.35; 1/4 oz. \$4.90; oz. \$14.10.

**1220 Grandiflora Choice Finest Mix** (15 in/38 cm) Large flower head and taller stems for commercial cutting. A wide range of solid and pastel colors. Pkt. (225 seeds) \$2.85; 1/4 oz. \$6.50; oz. \$18.60.



## HYBRID PHLOX



### 21ST CENTURY

(10 in/25 cm) Daylength neutral vigorous plants. Lateral branching plants have a much fuller appearance in massed beds, jumbo paks, 4 in/10 cm pots or gallon containers. Tolerates heat. Primed seed.

**R1229A Blue**

**R1229B Crimson**

**R1229C White**

**R1229M 21st Century Mix** Blue, crimson, rose, white, salmon, scarlet and magenta rose

Prices for 21st Century colors & mix: 20 seeds \$3.90; 250 seeds \$22.35; 1,000 seeds & over \$64.67 per M.

**R1227A Grammy Pink & White** (6 in/15 cm) F1 hybrid. The most compact phlox drummondii available. Free flowering bi-color blooms produce color all summer long. Use in mixed containers, window boxes or for sunny garden areas. Very uniform potted plant. Fleuroselect Gold Medal Winner. 10-12 week crop. Primed Seed. Pkt. (20 seeds) \$5.25; 500 seeds \$44.35; 1,000 seeds & over \$75.08 per M.



**Order Online Now!**  
[www.StokeSeeds.com](http://www.StokeSeeds.com)



## PENTAS



CULTURE: Commercial growers should plant one pellet per plug cell Jan/Feb for May flowering potted plant sales. Crop time 14-18 weeks from seeding, depending on greenhouse temperatures, soil pH, pot size and fertilizer program. Press pellets into soil surface. Germinate at 73-79°F/23-26°C for 10-14 days. As cotyledons sprout, reduce temperatures to 70-73°F/21-23°C. As first true leaf appears, reduce temps to 64-70°F/18-21°C. Fertilize at 150 ppm nitrogen. Maintain pH levels between 6.5 and 6.8 to avoid magnesium deficiencies or iron toxicity. Cooler temps below 50°F/10°C will delay flowering. Pelleted seed.

### LUCKY STAR™

(12-16 in/30-41 cm) Enjoy continuous, showstopping color on full, lush plants that are bred for the fastest follow-up blooms. The tight, compact habit keeps plants looking tidy with little effort and the large clusters of starry blooms attract pollinators.



**P1675E Raspberry**

**P1675B Dark Red**

**P1675D White**

Prices for Lucky Star: Pkt. (10 pellets) \$4.50; 100 pellets \$16.10; 1,000 pellets & over \$108.60 per M.



## OSTEOSPERMUM



### CAPE DAISY

Multi-branched plants maintain compact, bushy shape without pinching. Long flower cycles in cool weather continuing at night when below 75°F/24°C. Higher day temps reduce flowers until cooler. Drought tolerant - like well drained, dry, sandy soil, in full sun. CULTURE: Sow in greenhouse: April 1 for flowers in paks - 80 days later; Sept.15th for heavy flowering larger plants - 110 days later. Nick seeds and germ. at 70°F/21°C for 7-10 days. Grow plants at 65-70°F/18-21°C days; 40-50°F/7-10°C nights. Hardy Annuals.

### ASTI™

(17 in/43 cm) No virus or tag issues! Great heat and cold tolerance. No vernalization needed. High percentage of usable transplants with excellent seed germ.

**1801A Lavender Shades**

**1801B White** AAS Winner

**1801C Purple**

**1801D Purple Bicolor**

**1801 Asti Mix**

Prices for Asti colors & mix: 20 seeds \$11.20; 100 seeds \$38.45; 500 seeds \$178.10; 1,000 seeds & over \$274.48 per M.

### AKILA®

(16 in/41 cm) F1 hybrid. Best seed grown Osteo for both plant habit and seed quality. Great for retail paks and pots - provides landscapers an economical choice for massed plantings and containers. This is the most compact seed series available. Plants branch without pinching. All colors flower within a 7-10 day window. No vernalization is needed - good drought tolerance with mature plants.

**1802E Daisy White**

**1802B Purple**

**1802A Lavender Shades**

**1802C White**

**1802D White/Purple Eye**

**1802 Akila Mix**

**1802Z Grand Canyon Mix** Includes popular colors like yellow, magicians and rose-reds, as well as purple, lavender, creams and white.

Prices for Akila colors & mixes: 20 seeds \$12.15; 100 seeds \$41.55; 500 seeds \$192.70; 1,000 seeds & over \$296.95 per M.



Blue Arrows



Amazon Mist



Purple Majesty



Zebra Pink



Portulaca Sundial Orange



Twisted Dart



Happy Hour Mix



## ORNAMENTAL GRASSES



### DWARF ANNUAL GRASSES

CULTURE: Detailed growing instructions are printed on our packages or available online.

**P1719 Live Wire®** Isolepis Sedge (8 in/20 cm) Dense mound of green leaves; unique flowers. Multiseed pellets.

**P1722D Spiky Blue®** Corynephorus (8 in/20 cm) Uniform neat tufts of gray-green foliage. Sow March 15. Germinate 3 weeks at 65°F/18°C. Crop time 14 weeks. Multiseed pellets.

**P1722E Amazon Mist®** Carex (10 in/25 cm) Light green on medium green background. Cascading foliage with twisted tips on mounded plant habit. Likes full sun. Crop time 33 weeks spring; 19 weeks summer. Multiseed pellets.

Prices for the above: Pkt. (10 pellets) \$5.75; 100 pellets \$16.20; 1,000 pellets & over \$115.32 per M.

### TALL ORNAMENTAL GRASSES

**NEW** **P1707D Zebra Pink** Ornamental Corn. (4-5 ft/1.2-1.5 m) Green and white striped foliage add drastic color and texture in late season containers or gardens. Foliage changes to a range of purples, red and pinks with cool nights and long days. Each stalk produces small ears with purple kernels and tassels. Pkt. (10 seeds) \$5.75; 100 seeds \$28.40; 250 seeds \$65.50; 1,000 seeds & over \$200.93 per M.

**P1707C Jade Princess** (24-30 in/61-76 cm) Orn. Millet. Intense chartreuse foliage and rich brown pollenless panicles have a controlled, compact, mounded shape. Perfect for large containers and landscapes. Requires warmer temperatures (60°F/16°C) than other millets to perform well. 10 seeds \$6.05; 100 seeds \$28.40; 1,000 seeds & over \$201.80 per M.

**P1722A Red Rooster®** Carex Sedge (24 in/61 cm) Upright red bronze leaves, curled tips. For backgrounds. Sow Feb.10. Germinate for 3 weeks at 65°F/18°C. Crop time 17 weeks. Multiseed pellets. Pkt. (10 pellets) \$5.75; 100 pellets \$16.20; 1,000 pellets & over \$115.32 per M.

**P1707A Jester** Ornamental Millet (3.5 ft/1.1 m) F1 hybrid. Shorter burgundy version of Purple Majesty.

**P1707 Purple Majesty** Ornamental Millet (4 ft/1.2 m) F1 hybrid. Deep purple foliage with 12 in/30 cm 'Cat tail' seed spikes. Use as cut flower. Crop time 10-14 weeks. Sow indoors Feb.15 - March 1.

Jester & Purple Majesty prices: 10 seeds \$6.05; 100 seeds \$28.40; 1,000 seeds & over \$201.80 per M.

**P1707B Field of Dreams** (5-6 ft/1.5-2 m) Novelty bicolor corn foliage with wide, medium green and white stripes running through the leaves. Plants should stay shorter at 36-48 in/90-122 cm in large containers. Remove any small cobs or suckers by August to prevent bird damage. Crop time 5-7 weeks. Pkt. (10 seeds) \$5.75; 100 seeds \$26.10; 250 seeds \$60.20; 1,000 seeds & over \$184.68 per M.

### PERENNIAL GRASSES

**P1720D Twisted Dart** (14 in/36 cm) Dwarf version of Twisted Arrows. Multiseed pellets. Pkt. (10 pellets) \$5.75; 100 pellets \$26.75; 1,000 pellets & over \$190.09 per M.

**P1716 Blue Fescue** Festuca Ovina Glauca (16 in/41 cm) Needle like, silver blue grass for edging. Trim twice a year. Approx. 42,000 seeds per oz/28 g. Pkt. (200 seeds) \$2.75; 1,000 seeds & over \$4.00 per M.

**P1717 Pony Tails®** Stipa Tenuissima (16 in/41 cm) Great for 4 in/10 cm pots, gallon containers or backgrounds. Plants grow to 3 ft/90 cm in second year. Sow Jan.15-Feb.1st for May sales. Crop time 14 weeks from seed. Multiseed pellets. Pkt. (10 pellets) \$5.75; 100 pellets \$16.20; 1,000 pellets & over \$115.32 per M.

**P1720C Blue Dart®** Juncus (16 in/41 cm) Upright blue foliage for sun or shade. Use in baskets, containers and beds - faster, more reliable than dracaena spikes. Works indoors or as a water plant. Tender perennial zone 5A. Multiseed pellets. Pkt. (10 pellets) \$5.75; 100 pellets \$16.20; 1,000 pellets & over \$115.32 per M.

**P1720 Twisted Arrows** (3 ft/90 cm) A mix of Straight Blue Arrows and curly blue-green Juncus. Drought tolerant plants have same use as Blue Arrows. Crop time 5-6 weeks. Hardy to zone 5. Multiseed pellets. Pkt. (10 pellets) \$5.75; 100 pellets \$26.75; 1,000 pellets & over \$190.09 per M.

**P1720A Blue Arrows®** Juncus (36 in/90 cm) Tall upright, stiff blue-green foliage, used like Dracaena - also as pond plant. Drought/heat tolerant. Tender perennial to zone 5. Crop time 5-6 weeks. Multiseed pellets.

**P1720B Javelin®** Juncus (4 ft/1.2 m) Tall rugged plant grows in ponds, excess heat or drought. Green foliage maintains upright habit until fall when it turns a straw color. Likes full sun. Grow in gallon containers. Hardy to zone 6. Crop time 5-6 weeks. Multiseed pellets.

Prices for the above two: Pkt. (10 pellets) \$5.75; 100 pellets \$16.20; 1,000 pellets & over \$115.32 per M.

**P1720P Pampas Grass Cortaderia White** (10 ft/3 m) Ornamental grass with long silver white plumes. Sow February 15th indoors. Germinate at 65°F/18°C for 4 weeks. Should be cut back and straw protected in harsh winters.

**P1715A Pampas Grass Cortaderia Pink** (10 ft/3 m) Ornamental type grass, with long light pink plumes.

Prices for Cortaderia Pink & White: Pkt. (25 seeds) \$2.35; 1,000 seeds & over \$4.70 per M.



### Pelleted Seed

Seed is enclosed in a pellet of inert material for ease of planting.



## PORTULACA



CULTURE: 280,000 seeds per oz/28 g. Sow Jan.15th - March 1st for May sales. Direct seed thinly into paks 1/4 oz/7 g sows 250 -7.5 x 5.5in/19 x 14 cm paks. Press seed into soil, cover lightly, maintain soil temp. at 70°F/21°C days, 60°F/16°C nights for 3 or 4 days. Grow at 60°F/16°C. Sow outdoors in warm dry locations May 20th. Blooms 30 days from seed. Thin to 4 in/10 cm apart.

**P1240A Sunnyside Mix** (5 in/13 cm) O/P with the widest range of colors and highest percentage of double blooms. Blend of coral, pink, gold, flame, orange, lemon, cherry, rose, yellow and white. Pkt. (500 seeds) \$2.75; 1/16 oz. \$13.40; 1/4 oz. \$46.90; oz. \$134.25.



### HYBRID PORTULACA

#### SUNDIAL

(5 in/13 cm) A breakthrough - 2 weeks earlier than Calypso! Plants are more base branching than the F2 hybrid, giving protecting surface roots from intense sun. Supplied as multi-pellets.

**P1239B Pink**

**P1239J Peppermint**

**P1239E Scarlet**

**P1239G Orange**

**P1239N Tangerine**

**P1239 Sundial Mix** A blend of all Sundial colors

Prices for Sundial colors & mix: Pkt. (50 pellets) \$4.75; 1,000 pellets & over \$33.92 per M.

**P1239D Yellow**

**P1239K Mango**

**P1239F White**

**P1239C Fuchsia**

#### HAPPY HOUR SERIES

(8-10 in/20-25 cm) This series flowers under shorter daylength than other varieties currently on the market. Mounded plants are easier to ship than regular prostrate types. Fuller base branching plant habit, larger semi double blooms with vivid colors sell on sight in garden centers. Drought tolerant, excellent garden performance. Supplied as multi-pellets.

**P1242C Deep Red**

**P1242E Lemon**

**P1242F Orange**

**P1242Z Tropical Mix** Deep Red, orange, banana

**P1242A Banana** Pastel orange/red center

**P1242B Coconut** Creamy white/yellow center

**P1242M Happy Hour Mix** Formula blend of colors

Prices for Happy Hour colors & mixes: 100 pellets \$6.50; 500 pellets \$21.20; 1,000 pellets & over \$32.47 per M.

**P1242D Fuschia**

**P1242G Peppermint**

**P1242H Rosita**

#### HAPPY TRAILS SERIES



(9 in/23 cm) Spreads, cascades or trails, 14-18in/36-46 cm from hanging baskets, containers or in landscape plantings. Unique cascading plant habit is superior to other trailing types. Plants bloom easily in 10 hour days - 2 weeks earlier than other types. Delay sowing until daylength reaches 10 hours. Use 288 cell trays, do not cover. Supplied as multi-pellets.

**P1243M Happy Trails Mix** Formula blend of 10 colors

Prices for Happy Trails mix: 100 pellets \$6.50; 500 pellets \$21.20; 1,000 pellets & over \$32.47 per M.



Rudbeckia Denver Daisy



Rudbeckia Indian Summer



Poppy Shirley Mix



Sanvitalia Million Suns



Scabiosa Finest Mix



## RUDBECKIA (Gloriosa Daisy)



**CULTURE:** Seed size varies. Semi-dwarf types average 56,000 seeds per oz/28 g. Taller types average 40,000 seeds per oz/28 g. Use semi-dwarf types for medium height containers, bedding or wind tolerant cut flowers. Use tall types for backgrounds or commercial cut flowers. Sow indoors March 1st for green spring plant sales. Sow outdoors in May for fall cutting.

### TALL RUDBECKIA

**1258C Irish Eyes** (28 in/71 cm) Unique 4.5 in/11 cm single pure gold daisy flowers with green raised centers. Heavy blooming. Pkt. (125 seeds) \$2.35; 1/4 oz. \$9.50; oz. \$27.05.

**1258G Prairie Sun** (3 ft/90 cm) Extra large 5 in/13 cm single, bicolor blooms are primrose yellow with a gold disc and unique light green "Irish Eyes" central cones. For May sales, grow in 5-6 in/13-15 cm pots. Crop time 15 weeks from seed to flower. AAS Winner. Coated seed. Pkt. (20 seeds) \$3.35; 250 seeds \$13.90; 1,000 seeds & over \$47.02 per M.

**1256 Indian Summer** (3 ft/90 cm) Sturdy wind tolerant plants with huge 6-9 in/15-23 cm single and semi-double golden yellow blooms. AAS Winner. Pkt. (25 seeds) \$2.35; 250 seeds \$8.65; 1,000 seeds & over \$13.40 per M.

**1258 Gloriosa Daisy Mix** (3 ft/90 cm) Large single daisy-like blooms in yellow, mahogany, bronze, and gold with many bicolored combinations. Pkt. (125 seeds) \$2.35; 1/4 oz. \$3.00; oz. \$8.90; 1/4 lb. \$30.30.



### SEMI DWARF RUDBECKIA



**1257Z Maya** (18-20 in/46-51 cm) First semi-dwarf, wind tolerant, fully double golden yellow rudbeckia for containers, borders or short stem cut flowers. Extra large 4-5 in/10-13 cm blooms. Coated seed. Pkt (50 seeds) \$3.50; 250 seeds \$13.25; 1,000 seeds & over \$39.67 per M.

**1258E Sonora** (15 in/38 cm) Large golden yellow blooms, large black center. Great potted plant! Coated seed. Pkt. (25 seeds) \$2.35; 250 seeds \$11.25; 1,000 seeds & over \$29.73 per M.

**1258F Cherokee Sunset** (16 in/41 cm) Double flowered mix in pastel shades of yellow, orange, bronze and brown. AAS Winner. Pkt. (50 seeds) \$3.35; 500 seeds \$15.90; 1,000 seeds & over \$22.48 per M.

**1258H Autumn Colors Mix** (20 in/51 cm) Formula blend of red, gold and bronze fall colors. Large, single 5-7 in/13-18 cm blooms, 14 week crop for 8 in/20 cm gallon pots. Coated seed. Pkt. (50 seeds) \$2.45; 250 seeds \$11.25; 1,000 seeds & over \$29.73 per M.

**1258J Denver Daisy** (18 in/46 cm) Earliest flowering variety at this height. Best heat tolerance for parks, landscaping. Coated seed. Pkt. (50 seeds) \$3.25; 250 seeds \$11.25; 1,000 seeds & over \$29.73 per M.



### DWARF RUDBECKIA

**CULTURE:** Seed size varies greatly between types. Dwarf types average 70,000 seeds per oz/28 g. Sow indoors Feb.1st for early May blooms in 4-6 in/20-25 cm pots. Grow plants at 70°F/21°C days and 50°F/10°C nights to prevent stretching. They like sandy soil that is slightly dry. Crop time 13-16 weeks.

### TOTO®

(12-15 in/30-38 cm) 70,000 seeds per oz/28 g. Irresistible in 4-6 in/10-15 cm pots for May-June sales. Early flowering plants with well branched deep green foliage. 4 in/10 cm semi double blooms have dark brown center cones. Do not over water! Filmcoated seed.

**1258D Gold** Golden yellow with 5% bronze shades

**1258M Lemon** **1258N Rustic** Mahogany/yellow

Pkt. (50 seeds) \$2.45; 1,000 seeds & over \$17.71 per M.



## POPPY (PAPAVER)



**CULTURE:** 260,000 per oz/28 g. Sow anytime from Apr.30th-June 30th. Press fine seed into the surface. Seed sown in Oct. will usually come up next spring.

**1209C National Mix** (16 in/41 cm) Blend of large bright red blooms/white centers and pure white blooms provide a beautiful combo for large borders. Pkt. (100 seeds) \$2.50; 1/16 oz. \$5.80; 1/4 oz. \$13.80; oz. \$42.10.

**1213 Shirley Mix** (28 in/71 cm) The most attractive single poppy. Pink, red and salmon shading to white.

**1214 Double Shirley Mix** Ryburgh Hybrid (25 in/64 cm) Double blooms in salmon, pink, rose and scarlet.

Prices for Shirley & Double Shirley: Pkt. (100 seeds) \$2.35; 1/4 oz. \$5.20; oz. \$8.65.



## PTILOTUS EXALTATUS



Drought and heat tolerant plant from Australia. Sow anytime from Jan. 15th to June 1st. Allow 12-16 weeks crop time from seed to bloom. **CULTURE:** Germinate at 75°F/24°C for 7 days. Cover seed lightly in slightly moist soil. Transplant 8 weeks later in clean soil. Grow at 70°F/21°C. Fertilize weekly at 100 ppm nitrogen.

**1921A Joey®** (15 in/38 cm) Large, feathery 4 in/10 cm bottlebrush flower spikes are silvery pink with neon pink tips. Pkt. (10 seeds) \$7.50; 100 seeds \$40.55; 500 seeds \$187.85; 1,000 seeds & over \$289.50 per M.



## SALPIGLOSSIS

**PAINTED TONGUE CULTURE:** 125,000 per oz/28 g. Sow indoors March 1 for early summer blooms. Germinate in 70°F/21°C soil for 20 days in total darkness. Press fine seed into soil surface. Do not cover. Sow outdoors thinly in shady areas June 1. Space plants 12 in/30 cm apart.

**1280 Bolero Hybrids Mix** (25 in/64 cm) F2 hybrid. Trumpet shaped blooms with gold veined throats. Pkt. (400 seeds) \$2.35; 1/16 oz. \$3.45; 1/4 oz. \$4.95; oz. \$19.80.



## SANVITALIA



**Creeping Zinnia CULTURE:** 50,000 per oz/28 g. Sow indoors February 15th or outdoors May 15th. Use as a ground cover for sunny or shady areas or hanging baskets in dry areas. Some tolerance to powdery mildew. Plants flower from June till frost. Dwarf, spreading 4-12 in/10-30 cm plants. Transplant young seedlings! Full Sun.

**1281B Million Suns** (8 in/20 cm) Similar to vegetative varieties but easier to grow (no pinching required). Compact base branching plant habit with very intense flowering. Crop time for 4 in/10 cm pots is 9 weeks. Pkt. (20 seeds) \$3.50; 250 seeds \$20.05; 1,000 seeds & over \$67.90 per M.

**1282 Mandarin Orange** (9 in/23 cm) Intense orange flowers with black centers. AAS Winner. Pkt. (100 seeds) \$3.25; 250 seeds \$4.50; 1,000 seeds & over \$11.15 per M.



## SCABIOSA

**MOURNING BRIDE CULTURE:** 4,500 per oz/28 g. For July blooms, sow March 5th in 75°F/24°C soil for 12 days.

**1300 Scabiosa Finest Mix** (30 in/76 cm) An excellent blend of crimson, rose, pink, lavender and white. A great cut flower! Pkt. (60 seeds) \$2.40; 1/4 oz. \$5.15; oz. \$12.20; 1/4 lb. \$48.80.

### DIAMONDS

(8 in/20 cm) **JAPONICA ALPINA.** For first year blooming summer sales - as annual (9-13 weeks); as tender perennial spring cool crop (zones 5-7). A genetic dwarf - no growth regulator required. For perennials, sow in December; for annuals, sow in April. **CULTURE:** Press seed into soil surface and cover lightly. Germinate in 4 weeks at 75°F/24°C soil temp. An excellent tender perennial bedding plant.

**1308B Pink Diamonds** Pkt. (20 seeds) \$2.35; 250 seeds \$13.95; 1,000 seeds & over \$47.19 per M.



## SCHIZANTHUS



**CULTURE:** Known as Butterfly Flower. Sow January 1st for 3 in/8 cm pot plants in May. Germinate in 60°F/16°C soil. Press fine seed into soil. Seeds sprout in about 15 days, light helps germination. Grow seedlings @ 60°F/15°C for 4 weeks, then transplant into 4 in/10 cm pots and grow cool @ 60°F/15°C. Allow plants to develop lots of roots and become a bit pot-bound to promote early flowering during the winter months. Makes a perfect pot plant without pinching. For mid winter 5 in/13 cm pots, sow August 20th for March blooms. Sow outside by May 1st for July cut flowers. Great potted plant. This is a tender perennial like pansies and is grown as an annual above zone 6. Use slow release fertilizers. Crop time approx. 90-100 days.

**1315Z Angel Wings Mix** (8 in/20 cm) Very compact ball shaped plants covered with masses of brightly colored, medium sized orchid-like blooms. An excellent choice for 4 in/10 cm pots or gallon containers in outdoor shady locations. Formula mix contains shades of pink, rose, lilac, red, white, violet, purple and many bicolors with graceful blotches and markings. Pkt. (25 seeds) \$2.15; 1/4 oz. \$5.10; oz. \$8.95.



Maestro



Summer Jewel White



Big Blue



Amore Scarlet Bicolor



Evolution Violet



## SALVIA



**CULTURE:** oz/28 g approx. 6,400 seeds. For combination pots sow Feb.15th Feb.25th - Mar.15th for May-June sales. Start seed in Jiffy Mix, water well with 70°F/21°C water. Mark out rows 1/8 in/3 mm deep, sow seed at 6 seeds per in/25 mm. Since salvia seed is sensitive to light, (needs light to germinate) it must be left uncovered for 24-48 hours to satisfy or trigger light requirements. Once this has been accomplished, press the seed lightly into the soil surface, do not cover the seed - it still needs further light to germinate. Maintain a soil temp. of 70-75°F/21-22°C for 10-14 days until germination occurs. **TRANSPLANT** 15-20 days later, using the leaf (not the stem) when handling. Transplant young plants at the same depth as they were, as seedlings. Salvia is very sensitive to high (over pH of 5) soluble salt levels. Sometimes it is a good idea to soak the transplanting soil well, before using, to reduce possible salt levels. Salvia is also very sensitive to methyl bromide (gas soil sterilizer). Do not use it with this species! **GROW** plants at 55-60°F/13-16°C shading young transplants from direct sunlight, until they become established. **DIRECT SEED** sow outdoors May 30th. Transplant in 10-15 days - dwarf types 8 in/20 cm apart, tall types 16 in/41 cm apart. Plants respond to several light feedings of liquid fertilizer to keep the leaves dark green and the spikes blood red. Do not over fertilize - they burn quite easily. Combines very well with Silverdust (Dusty Miller). Maestro should flower approx. 10 weeks from sowing. Taller types like Bonfire are sold in paks without bloom. **CUTTING:** Regular strains of salvia make poor cut flowers. Only the farinacea and horminum types are grown for commercial cut flowers.

### EARLY EXTRA DWARF

**1290A Maestro** (8 in/20 cm) The earliest dwarf salvia available with dark green foliage. Good extended shelf life at chain stores in late spring. Nice 4 in/10 cm dark red spikes. Use in 4 in/10 cm pots. Pkt. (50 seeds) \$3.25; 1/16 oz. \$10.50; 1/4 oz. \$26.15; oz. \$104.60.

**1268 St. John's Fire** (12 in/30 cm) Popular early salvia for pak sales. Heavy flowering. Stokes' special strain. Pkt. (50 seeds) \$2.35; 1/16 oz. \$3.80; 1/4 oz. \$11.10; oz. \$37.75.

**1285C Red Vista** (13 in/33 cm) Sturdy plants have dark green foliage and provide plenty of thick, dark red 7 in/18 cm spikes. Pkt. (50 seeds) \$3.25; 500 seeds \$9.55; 1,000 seeds & over \$14.65 per M.

**1291B Mojave Red** (14 in/36 cm) Daylength neutral compact plant with unique branching habit. Deep green leaves with blood red spikes. Crop time 9 weeks. Pkt. (50 seeds) \$3.25; 1/16 oz. \$10.50; 1/4 oz. \$26.15; 1/2 oz. \$52.30.

**1295A Salsa™ Scarlet** (15 in/38 cm) Daylength neutral (remains compact in summer). Bushy plants flower 8-10 weeks in paks. Excellent in 4 in/10 cm pots. Prolific bloomer! Use B-9 and high light intensity to stay extra dwarf. Pkt. (50 seeds) \$3.25; 250 seeds \$7.20; 1,000 seeds & over \$15.47 per M.

### AMORE™

(12-14 in/30-36 cm) Early flowering uniform plants are well branched. Although they are very compact in packs or pots they become very dense flowering after transplanting in the garden. Very suitable for pots or containers. Amazing garden performance. Day length neutral plants carry florets well above the foliage. Crop time 10-14 weeks from seed.

**1295N White**

**1295P Scarlet**

**1295Q Purple**

**1295R Scarlet Bicolor**

**1295S Amore Mix** 9 colors

Prices for Amore colors & mix: Pkt. (50 seeds) \$3.25; 250 seeds \$7.30; 1,000 seeds & over \$16.35 per M.

### SIZZLER™

Vivid and pastel colors on upright 16 in/41 cm plants. Daylength neutral like Salsas. 9-11 weeks in paks. Likes warm weather.

**1282S Purple**

**1282Z Red**

**1282W Sizzler Mix** Blend of 5 colors and bicolors

Prices for Sizzler colors & mix: Pkt. (25 seeds) \$2.35; 1/32 oz. \$5.65; 1/16 oz. \$10.25; 1/4 oz. \$28.10.

### TALL SALVIA

**1266 Bonfire** (24 in/61 cm) A select strain of Jersey Bonfire, which is slightly later and taller than Extra Early Bonfire. The perfect tall border for verandas and fences. Very free flowering. Plants mature in August. Pkt. (50 seeds) \$2.35; 1/16 oz. \$3.90; 1/4 oz. \$8.35; 1/2 oz. \$14.20.

### COCCINEA SALVIA



### SUMMER JEWEL

(20 in/51 cm) Unique early flowering spikes with .5 in/1.2 cm blooms. Loves full sun and is a favourite of hummingbirds for the sweet pollen and gold finches for the seed pods in the fall. Plants are base branching, rain and wind tolerant. Plants bloom 50 days from seeding. All Summer Jewel colors are AAS Winners!

**1273F Lavender**

**1273E White**

**1273C Red**

**1273D Pink**

Prices for Summer Jewel colors: Pkt. (25 seeds) \$2.50; 250 seeds \$12.20; 1,000 seeds & over \$18.58 per M.



### HORMINUM SALVIA



9,500 seeds per oz/28 g. Used as a late summer/fall cut flower for fresh or dried arrangements of intense pastel colors.

**1274A Horminum Tricolor Mix** (27 in/68.5 cm) Formula blend of blue, pink and cream shades. Pkt. (100 seeds) \$2.35; 1/8 oz. \$3.00; 1/4 oz. \$4.45; oz. \$17.80.



### FARINACEA SALVIA

An excellent cut flower that withstands hot weather better than regular salvia. Approx. 35,000 seeds per oz/28 g.



**1283Z Big Blue** (24-36 in/61-91 cm) Vigorous flowering annual in a beautiful clear blue color. Super easy and super showy for back of border plantings. Performs great in heat, low maintenance with no deadheading required. Pollinator friendly. Pkt. (10 seeds) \$3.50; 100 seeds \$26.85; 1,000 seeds & over \$198.43 per M.

**1297 Mini Victoria** (12 in/30 cm) An improved Rhea, dwarf strain of Victoria. For borders and containers. Pkt. (25 seeds) \$2.35; 1/32 oz. \$6.70; 1/16 oz. \$12.25; 1/4 oz. \$33.50.

**1283 Victoria** (16 in/41 cm) Deep violet blue slim spikes, bushy medium green plant. Never goes out of flower! Hardy annual for massed beds or cutting. 25,000 seeds per oz/28 g. Pkt. (25 seeds) \$2.35; 1/32 oz. \$5.30; 1/16 oz. \$9.50; oz. \$104.80.

**1291A Evolution™ Violet** (18 in/46 cm) Extra long, very dark violet blue flower spikes, deep green contrasting foliage and free flowering bushy plants make this vivid blue annual an excellent choice for large containers, backgrounds, mass plantings - an outstanding cut flower. Plants are frost and heat tolerant. AAS and Fleuroselect Winner.

**1291C Evolution™ White** (18 in/46 cm) Silvery-white companion to the original. Some extra long well branched spikes. Ideal container or background plant.

Prices for Evolution: Pkt. (25 seeds) \$2.50; 500 seeds \$6.80; 1,000 seeds & over \$11.33 per M.

**1284A Strata** (14 in/36 cm) Bicolor blue and white spikes. Each blue florette is highlighted by a white calyx. Novel cut flower. AAS and Fleuroselect Winner. Pkt. (25 seeds) \$2.35; 1/32 oz. \$7.30; 1/16 oz. \$13.25; 1/8 oz. \$23.60.



Horminum Tricolor Mix



Summer Jewel Red



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Snaptnini Burgundy Bicolor



Snaptnini Peach



Candy Showers Purple



Twinny Appleblossom



Fantasita Mix



## SNAPDRAGON - DWARF AND SEMI DWARF TYPES



**CULTURE:** 200,000 seeds per oz/28 g. Freeze seed for 48 hrs. before sowing. Sow Feb.1st-Mar.15th for early May sales. Use Jiffy Mix or sterilized sandy loam. Firm and water thoroughly before seeding. Press seed into surface 1/8 in/3 mm (do not cover). Cover with plastic. Germinate at 70°F/21°C soil temp. 7 days. Shade or vent seed flats in direct sunlight to keep seed from being destroyed by excessive heat under plastic. Keep soil moist at all times and lower night temperatures to 60°F/16°C for best results. As seedlings appear, grow at 50°F/10°C. Transplant 6 weeks after seeding at the same depth as they were as seedlings. Shade fresh transplants with cheese cloth from direct sun until well established. Keep well watered with tempered 60°F/16°C water. Pinch back maturing plants to delay flowering until late July. **DIRECT SEEDING:** Sow outside in early May - transplant dwarf types 6 in/15 cm. apart, tall types 8 in/20 cm apart. Cut flowers last about 3-4 days or longer if a bit of bleach is added to the water. Germination varies according to color. **M = 1,000 Seeds or Pellets.**



### SNAPTINI™

(6-8 in/13-20 cm) F1 hybrid. This compact, well-branched and early flowering snap looks stunning in high-density pots. Consistent crop timing across all seasons.

- P463Q Burgundy Bicolor
- P463T Rose Bicolor
- P463U Scarlet
- P463W Violet
- P463Y Yellow

- P463R Peach
- P463S Red
- P463V Sunglow
- P463X White
- P463Z Mix

Prices for Snaptnini: Pkt. (50 pellets) \$2.35; 500 pellets \$7.35; 1,000 pellets & over \$10.85 per M.

### FLORAL SHOWERS™

(5 in/13 cm) Extra dwarf, F1 hybrid series for small 4 in/10 cm pots and early flowering, formal bedding plant works at estates or public parks. Plants are vigorous, base branching and flower at the same time as Pansies. Retains compact mound-like habit during extreme heat.

- 452L Apricot Bicolor /white
- 452C Deep Bronze
- 452K Lavender Bicolor /white
- 452Q Red and Yellow Bicolor
- 452N Wine Bicolor /white
- 452M Bicolor Mix 4 bicolors
- 452 Floral Showers Mix

- 452B Crimson
- 452P Fuchsia
- 452J Lilac
- 452D Purple
- 452F Rose Pink
- 452G White
- 452H Yellow

Prices for Floral Showers colors & mixes: Pkt. (50 seeds) \$2.35; 500 seeds \$5.00; 1,000 seeds & over \$7.37 per M.

### MONTEGO™

(8 in/20 cm) F1 hybrid. Uniform blooming colors that flower about 5-7 days earlier than other dwarf snaps. Base branching, sturdy plants provide excellent garden performance during hot weather conditions.

- 454A White
- 454C Pink
- 454G Purple
- 454P Scarlet
- 454K Orange Bicolor /yellow
- 454L Burgundy Bicolor /white throat
- 454R Sunset Tricolor Orange to yellow blend
- 454 Montego Mix Formula blend of best colors
- 454B Rose
- 454D Yellow
- 454N Red
- 454Q Violet

Prices for Montego colors & mix: Pkt. (50 seeds) \$2.35; 500 seeds \$6.20; 1,000 seeds & over \$9.15 per M.

### CANDY TOPS

(8 in/20 cm) F1 hybrid. Strong stems with an abundance of blooms on dwarf plants provide constant color and sweet fragrance. This show stopper plays well with others in mixed species containers. Pelleted seed only.

- P462A Orange
- P462C Rose
- P462E Yellow

- P462B Red
- P462D White
- P462 Mix

Prices for Candy Tops: Pkt. (50 pellets) \$2.35; 500 pellets \$8.30; 1,000 pellets & over \$12.23 per M.

### DWARF TRAILING TYPES

#### CANDY SHOWERS™



(8 in/20 cm) F1 hybrid. First ever dwarf, trailing snapdragon from seed. Ideal for hanging baskets and mixed containers with pansies. Strong stems ship easily and hold up in the garden. Sow at the same time as pansies. Pelleted seed only.

- P461F White
- P461B Orange
- P461D Rose
- P461 Mix

- P461A Deep Purple
- P461C Red
- P461E Yellow

Prices for Candy Showers: Pkt. (25 pellets) \$4.50; 250 pellets \$43.65; 1,000 pellets & over \$128.55 per M.

#### TWINNY™



(12 in/30 cm) F1 hybrid semi-double azalea flowered dwarf snap. Plants are tolerant to hot or wet weather conditions. Recommended for 4-5 in/10-13 cm pots and large containers. Plants are base branching and provide long shelf life during sales periods. Exceptional garden performance. Twinny Peach is an AAS Winner. Crop time 12 weeks.

- 449B Peach
- 449D Yellow Shades
- 449F Rose
- 449H Bronze Shades

- 449C White
- 449E Appleblossom
- 449G Violet
- 449 Twinny Mix

Prices for Twinny colors & mix: Pkt. (50 seeds) \$2.75; 500 seeds \$13.10; 1,000 seeds & over \$19.32 per M.



Candy Tops Mix

## WIND TOLERANT SEMI DWARF SNAPS

### SOLSTICE™



(16-20 in/41-51 cm) F1 hybrid. Best knee-high, cool loving, wind tolerant series for backyard backgrounds or cut flowers. Performs best in fall short days and cool weather; like pansies. Plant at the same time as pansies. Occasional deadheading will promote additional flowering. Bushy plants spread 10-14 in/25-36 cm wide. Likes semi shade or 6 hours of full sun. Use for gallon containers. Sow in March for spring sales.

- 458A Burgundy
- 458C Orange Tricolor
- 458E Purple
- 458G Rose
- 458J Yellow

- 458B Lavender
- 458D Pink
- 458F Red
- 458H White
- 458 Mix

Prices for Solstice colors & mix: Pkt. (50 seeds) \$4.25; 250 seeds \$18.70; 1,000 seeds & over \$55.10 per M.

### TALL HYBRID SNAPDRAGON

#### ROCKET™

(36 in/91 cm) Long, strong spikes of beautifully colored blooms. Plants should be staked in windy areas for cut flower production, or bedding plant use. Larger flower spikes than other hybrids. A summer flowering snap.

- 428A Red
- 428E Yellow/gold
- 428G Pink

- 428B Rose
- 428F White
- 428 Rocket Blend

Prices for Rocket colors & mix: Pkt. (50 seeds) \$2.25; 500 seeds \$4.60; 1,000 seeds & over \$6.78 per M.

### TALL DOUBLE AZALEA FLOWERED

441 Madame Butterfly™ Mix (28 in/71 cm) Double azalea flowered snap. Color range: Scarlet, crimson, rosy-bronze, yellow, pink, light golden bronze, red-magenta. Flower stalks support 14 open-faced 1.5 in/4 cm double butterfly blooms each. Pkt. (50 seeds) \$3.75; 500 seeds \$11.75; 1,000 seeds & over \$17.29 per M.



## LINARIA (Baby Snap)



Novel dwarf series bred for compact habit. **CULTURE:** Sow in greenhouse Feb.15th - March 1st for early May sales. Crop time 50-60 days. Press seed into surface (do not cover). Cover seedling tray. Germinate at 65°F/18°C for 7-14 days. Keep flats semi-shaded until seedlings are ready to transplant. Grow seedlings and plants cool 60-70°F/16-21°C days, 45-50°F/7-10°C nights. Transplant into 4-6 in/10-15 cm pots, large containers or outdoors in massed beds.



**P972Z Fantasista™ Mix** (3-5 in/8-13 cm) Extra dwarf plants with an exceptionally compact basal branching habit. Blooms 7-10 days earlier and can withstand frost to -4°C/26°F. Pkt. (25 pellets) \$3.75; 500 pellets \$51.45; 1,000 pellets & over \$81.63 per M.

**P972 Fantasy™ Mix** Outstanding bedding plant for massed formal beds in parks and public gardens in cool semi-shaded areas during spring and fall. A delicate, fragile cut flower. Pelleted seed. Blend of the best colors. Pkt. (25 pellets) \$3.25; 500 pellets \$22.55; 1,000 pellets & over \$35.80 per M.





Stocks Vintage Burgundy



Statice Pastel Shades



Stocks Mime Blue



Stocks Mime White



Sweet Pea Mammoth Series

## **SILENE (Catchfly)**

A beautiful hardy annual upright cut flower from the Ukraine. Plants have huge flower heads similar in shape to heliotrope. **CULTURE:** 258,000 per oz/28 g. Germinate at 60-65°F/16-18°C for 10 days. Sow outdoors just before last spring frost, when iris are in bloom. Do not cover seed.

**P1259D Starry Dreams** (4 in/10 cm) Pure white star shaped blooms on dwarf plants for pots. Crop time 9-10 weeks. Tender perennial zones 5-8. Pkt. (20 pellets) \$2.85; 250 pellets \$8.65; 1,000 pellets & over \$28.91 per M.

**1259 Royal Elektra** (16 in/41 cm) Carmine pink. Pkt. (130 seeds) \$2.15; 1/128 oz. \$3.30; 1/64 oz. \$4.95.

## **STATICE**

### **LIMONIUM SINUATUM**

**CULTURE:** 11,000 seeds per oz/28 g. Seed has been specially cleaned to remove it from clumps. This French strain is superior to U.S. grown seed. Sow Feb.-March for Aug.- Oct. cut flower material. For bedding plant sales allow 10-12 weeks from seed to sale. Hardy annual in zone 6.

#### **PACIFIC**

- 1321 American Beauty** Rich deep rose
- 1320 Heavenly Blue** Mid blue
- 1322 Iceberg** White

Prices for Pacific colors: Pkt. (120 seeds) \$2.50; 1/8 oz. \$9.15; 1/4 oz. \$17.10; 1/2 oz. \$29.65.

**1329 Pastel Shades** (30 in/76 cm) Developed by Takii from tissue cultures. This is an elite blend of light blue-lavender, rose pink, soft pink and white. Pkt. (50 seeds) \$2.95; 500 seeds \$12.50; 1,000 seeds & over \$18.89 per M.

## **DWARF SWEET WILLIAM**

**CULTURE:** 26,000 per oz/28 g. For flowering paks in May - sow Feb. 15th in the greenhouse at 70°F/21°C for 5 days. Sow direct for best results. Grow cool at 50°F/10°C. Sow outdoors May 1st, as a ground cover or transplant into rock gardens.

**872 Wee Willie** (8 in/20 cm) Standard miniature, blooms. Good for pots. Crop time 6-8 weeks. Pkt. (30 seeds) \$2.05; 1/16 oz. \$3.25; 1/4 oz. \$5.95; oz. \$16.50.





Silene Starry Dreams

## **STOCKS**

**CULTURE:** 18,500 seeds per oz. Sow indoors Mar.15th at 70°F/21°C soil temp. for 7-10 days. Press seeds into surface but do not cover with soil. Keep moist. Select only light green seedlings for transplants. Darker seedlings are single flowered. Grow plants cool at 50-55°F/10-13°C. In beds, plants retain height of 12 in/30 cm in long daylength. Allow 12-16 weeks from seed to sale. **COLUMN STOCKS** can be started and grown from July 15th to Feb.15th (for flowers Jan. 10th); late May during shorter days. Sowings after this period will not flower.

#### **MIME**

(15-18 in/38-45 cm) F1 hybrid. Early and abundant fragrant blooms top true green foliage. Uniform to flower with approximately 55% double blooms. Strong stems allow a nice upright form that is very showy in the garden.

-  **1338S Blue**
- 1338V Pink**
- 1338W Purple**
- 1338Y Rose**
-  **1338T White**
- 1338X Red**
- 1338Z Mix**

Prices for Mime colors & mix: Pkt. (50 seeds) \$2.95; 500 seeds \$8.30; 1,000 seeds & over \$13.38 per M.

#### **VINTAGE**

(10 in/25 cm) Excellent base branching compact plants are free flowering with 60% double fragrant spikes. Use for window boxes, containers or bedding.

- 1337B White**
- 1337F Burgundy**
- 1337 Mix**
- 1337D Lavender**
- 1337H Red**
- 1337M Antique Mix**

Prices for Vintage colors & mixes: Pkt. (50 seeds) \$2.35; 1/16 oz. \$18.65; 1/4 oz. \$61.55; 1/2 oz. \$113.80.

**1343 Dwarf Ten Weeks Mix** (12 in/30 cm) Highly recommended for bedding plant sales. Scented mixture of white, pink, red, light and dark blue. Pkt. (100 seeds) \$2.50; 1/4 oz. \$8.10; 1/2 oz. \$11.90; oz. \$20.15.

## **DWARF SWEET PEAS**

Sow indoors in Jiffy Strips March 15th. Germinate 0.5 in/13 mm deep and cover seed. Keep dark in 55°F/13°C soil. (higher temperatures will prevent sprouting) for 14 days. Transplant outside May 10th. Great for containers in short season areas.

**1626 Cupid Pink** Rose pink with white picotee edge. Beautiful perfumed 1 in/3 cm blooms on dwarf bushy plants are free flowering. Pkt. (30 seeds) \$2.35; oz. \$11.15; 1/4 lb. \$41.75; lb. & over \$127.25 per lb.

**1625A Explorer Mix** (14 in/36 cm) A non-climbing Sweet Pea with no tendrils. Florets are closely spaced on the stems. Plants are very free flowering and the extra leaves help to conserve soil moisture and shade tender roots during early summer. Blend of 8 colors. Pkt. (35 seeds) \$2.35; oz. \$19.80; 1/4 lb. \$52.20; lb. & over \$191.10 per lb.

**1645 Bijou Mix** (12 in/30 cm) Unique bush type Sweet Pea for window boxes, beds or borders. Extremely early flowering plants smothered in bright, ruffled blooms. A rainbow of red, salmon, blue, rose, lilac and pink. Stems are just long enough for cutting. Pkt. \$2.35; oz. \$9.00; 1/4 lb. \$23.70; 1/2 lb. \$43.35.

## **TALL SWEET PEAS**

Sweet Peas are available in several types. Heat tolerant strains will lengthen the spring season into the hotter weather. Cuthbertson-Floribundas and Summer Flowering Spencers are valuable for cutting. **CULTURE:** 250-300 seeds per oz/28 g. Sow indoors March 15th. Germinate 0.5 in/13 mm deep; cover seed. Keep dark in 55°F/13°C soil for 14 days. Transplant outside May 10th. Sweet peas prefer heavy rich soil, not sandy. Water well during dry spells. Plan harvests for early summer or fall.

#### **ROYAL FAMILY SERIES**

Improved Cuthbertson. Heat tolerant strain with 6-7 large blooms per stem has extra strong stems and average plant height of 6 ft/2 m. Can be used for spring greenhouse crops or commercial field cut flowers, if staked.

- 1680A Maroon**
- 1680E Lavender Rose**
- 1680 Mix A** beautiful formula mix of 9 colors.
- 1680B White**
- 1680F Rose Pink**

Prices for Royal Family colors & mix: Pkt. (80 seeds) \$2.35; oz. \$9.00; 1/4 lb. \$21.35; 1/2 lb. \$42.70; lb. & over \$85.40 per lb.

**1618 Mammoth Series Mix** One of our best extra large flowered types for commercial cuts. Long stems. Deep rose, salmon, cream, pink, scarlet, white, mid blue, crimson. Pkt. (80 seeds) \$2.35; oz. \$9.25; 1/4 lb. \$24.35; 1/2 lb. \$43.95; lb. & over \$87.90 per lb.

**1624 Summer Flowering Finest Mix** An elite Summer Spencer strain, 5 to 6 large fragrant flowers per stem. Salmon, ice blue, cerise, pink, rose, scarlet and white. Pkt. (80 seeds) \$2.35; oz. \$7.20; 1/4 lb. \$19.00; 1/2 lb. \$34.30.

**1627 Streamers Mix** Novelty white bicolor mix of scarlet, purple, pink, orange, lavender, chocolate and blue. All are striped with white flakes on each bloom. A unique fragrant cut flower! Pkt. (80 seeds) \$3.25; oz. \$25.45; 1/4 lb. \$67.05; lb. & over \$242.15 per lb.

**1628 Incense Mix** Best color selection of the most fragrant cutting varieties. Pkt. (80 seeds) \$3.25; oz. \$22.45; 1/4 lb. \$59.20; lb. & over \$213.70 per lb.



Sweet Pea Cupid Pink



Torenia Kauai Mix



Ursina Anethoides



Vinca Tattoo Raspberry



Vinca Tattoo Tangerine



Vinca Valiant Mix



## TALINUM



CULTURE: Cover seed, germinate at 74°F/24°C for 4 days. Grow seedlings at 70°F/21°C days; 64°F/18°C nights. Crop time 10 weeks.

**1750 Limón** (28 in/71 cm) Mounded lime green leaves spread 44 in/112 cm, upright seed stalks have tiny pink blooms. Drought and heat tolerant. 100 seeds \$29.95; 1,000 seeds & over \$170.24 per M.



## THUNBERGIA



CULTURE: 1,000 seeds per oz/28 g. Sow April 1st into Jiffy strips at 2 seeds per pot. Likes high 75-80°F/24-27°C soil temp. for 15-20 days. Sow outside June 1st. Order fresh seed every year.

**1350 Alata** (Black Eyed Susan) Mixture of orange, cream, and yellow shades - black centers. Pkt. (30 seeds) \$2.35; 1/8 oz. \$3.10; 1/4 oz. \$5.50; oz. \$18.45.

**1350B Alata Susie Mix** Contains 3 basic colors - orange, white and yellow in both clear and black eye types. Pkt. (10 seeds) \$2.95; 1/8 oz. \$18.00; 1/4 oz. \$31.80; oz. \$84.70; 1/4 lb. \$338.80.



## TITHONIA



CULTURE: 3,000 per oz/28 g. Sow indoors at 70°F/21°C soil temp. in pots April 1st for 8 in/20 cm plants for June transplants. Blooms in mid July.

**1342 Goldfinger** (30 in/76 cm) Huge 3.5 in/9 cm burnt orange, single blooms. Good cut flower. Great for hedges or tall borders. Pkt. (25 seeds) \$2.15; 1,000 seeds & over \$6.34 per M.



## TORENIA



CULTURE: Sow Feb.-April for May to July crops in 4 in/10 cm pots. Germinate at 70°F/21°C for 10 days. Grow plants cooler at 55°F/13°C to keep them short. For shady areas. Available in pelleted seed only.

**P1340 Kauai Mix** (8 in/20 cm) Has superior performance outdoors during extreme heat and a tighter flowering window of 7-9 days between 8 vivid colors. Use for indoor or outdoor containers in shaded locations. Pkt. (25 pellets) \$3.35; 250 pellets \$14.95; 1,000 pellets & over \$43.29 per M.

**P1341 Duchess™ Mix** (8 in/20 cm) Dwarf plants are ideal for 4 in/10 cm pots. Great for shaded window boxes. Blend of 5 tricolors in white, blue and pink shades - all with yellow throats. Pkt. (25 pellets) \$3.35; 250 pellets \$13.25; 1,000 pellets & over \$38.33 per M.



## URSINIA



CULTURE: 15,000 seeds per oz/28 g. Use as a winter flowering house plant or for rock garden. Sow direct into 2.25 in/6 cm peat pots April 1st. Germinate at 70°F/21°C 12 days. 8 weeks from seed to sale.

**1349 Anethoides** (16 in/41 cm) Bright orange native of South Africa similar to gazania, flowers close at night or on cloudy days. Thrives in hot, poor soil. Pkt. (100 seeds) \$2.35; 1/16 oz. \$2.75; 1/4 oz. \$7.15.



## VINCA



CULTURE: 20,000 seeds per oz/28 g. Sow indoors from February 15th - March 15th in 75-78°F/25-26°C soil. Cover seed lightly. Germinate in total darkness for 20 days. Transplant as soon as possible. Keep plants dry! NEVER overwater. M = 1,000 Seeds or Pellets.



### TATTOO™

(10-14 in/25-36 cm) Bold, fun and head turning! This vinca's unique petals have an airbrushed look with soft strokes of black. Very floriferous and well-branched plants with an overlapping, fully round form that won't show gaps in hot temperatures. Outstanding color in hot, sunny conditions.

**1843X Black Cherry**      **1843Z Tangerine**  
**1843Y Raspberry**

Prices for Tattoo colors: 100 seeds \$9.25; 500 seeds \$36.60; 1,000 seeds & over \$52.65 per M.

### PACIFICA XP

(12 in/30 cm) Extra large 2 in/5 cm blooms, base branching plants. Blooms 60 days from seed. Early flowering. PVP.

**1400A Punch XP**      **1400C Polka Dot XP**  
**1400F Apricot XP**      **1400L Lilac XP**  
**1400N Lipstick Mix XP**      **1400R Icy Pink XP**  
**1400S White XP**      **1400T Really Red XP**  
**1400U Burgundy Halo XP**      **1400V Dark Red XP**  
**1400W Cranberry XP**      **1400M Pacifica Mix XP**

Prices for Pacifica XP colors & mix: Pkt. (50 seeds) \$2.50; 500 seeds \$7.30; 1,000 seeds & over \$10.53 per M.



### TRAILING VINCA



### CORA® CASCADE™ HYBRIDS

(32 in/81 cm spread) Glossy green foliage with extra large flowers. As ground cover, plants average 8 in/20 cm high. Retains the same patented Aerial Phytophthora tolerance as the original Cora series but with a more vigorous trailing plant habit. Very uniform flowering.

**1842G White**      **1842A Cherry**  
**1842F Violet**      **1842B Lilac**  
**1842C Polka Dot**      **1842D Strawberry**  
**1842E Apricot**

**1842 Cora Cascade Mix** Apricot, lilac, cherry, polka dot white, magenta, strawberry and peach.

Cora Cascade prices: Pkt. (25 seeds) \$4.75; 100 seeds \$15.60; 500 seeds \$61.60; 1,000 seeds \$88.54 per M.

### MEDITERRANEAN XP

(24 in/61 cm spread) Heat tolerant. Improved trailing habit for hanging baskets. PVP.



**1403M Burgundy Halo XP**      **1403U Red XP**  
**1403T White XP**      **1403R Hot Rose XP**  
**1403 Mediterranean Mix XP**  
**1403Z Lipstick Mix XP**

Prices Mediterranean XP colors & mixes: Pkt. (25 seeds) \$3.50; 100 seeds \$5.25; 500 seeds \$20.75; 1,000 seeds & over \$29.84 per M.

**1404B Jams 'N Jellies Blueberry** (16 in/41 cm) Deep purple-blue with violet-black center.

**1404A Jams 'N Jellies Blackberry** (16 in/41 cm) Dark purple with white eye. AAS Winner. PVP

Prices of the above two: Pkt. (25 seeds) \$3.75; 100 seeds \$9.25; 500 seeds \$36.60; 1,000 seeds \$52.65 per M.



### HYBRID VINCA



### CORA®

(14-16 in/36-41 cm) The best hybrid vinca we have seen so far. Patented Aerial Phytophthora tolerant plants have glossy green foliage, extra large flowers plus uniform habit and flowering time. Likes full sun. Crop time 14-17 weeks.

**1841A Apricot**      **1841B Burgundy**  
**1841D Lavender/White eye**      **1841E Violet**  
**1841F White**      **1841G Punch**  
**1841H Pink**      **1841J Red**  
**1841K Strawberry**  
**1841C Deep Lavender/White eye**  
**1841 Cora Mix** Formula blend of 6 colors

Prices for Cora colors & mix: Pkt. (25 seeds) \$4.05; 100 seeds \$9.30; 500 seeds \$36.65; 1,000 seeds & over \$52.71 per M.



### VALIANT™



(14 in/36 cm) Extra large flowers and Phytophthora tolerant upright, well branched, plants show superior plant vigor during hot sun, drought and cool/damp conditions. Excellent landscape or bedding plant series. Crop time 9 weeks.

**1844A Apricot**      **1844C Lilac**  
**1844B Burgundy**      **1844D Orchid**  
**1844F White Pure**      **1844E Punch**  
**1844 Valiant Mix** Formula blend of above colors

Prices for Valiant colors & mix: Pkt. (25 seeds) \$4.50; 100 seeds \$10.45; 500 seeds \$41.20; 1,000 seeds & over \$59.24 per M.



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Verbena Tuscany Peach



Verbena Quartz Violet/Eye XP



Zinnia Magellan Mix



Zinnia Profusion Lemon



Zinnia Profusion AAS Mix



## VERBENA



**CULTURE:** 10,000 seeds per oz/28 g. Both hybrids germinate much better than O/Ps. Sow indoors Feb.15th - April 1st for May sales. 1/8 in/3 mm deep, cover lightly. Water trays 24 hours before sowing. Germinate at 72-75°F/22-24°C soil temp. for 7 days. Transplant in 4 weeks. Grow at 50°F/10°C. Use well drained sandy soil and do not overwater seeds or seedlings. Keep well ventilated.

### TUSCANY®

(10 in/25 cm) F1 hybrid. Unique breeding provides an extra early flowering window of 18-24 days after plants have produced 4 to 6 leaves - long daylength or extra light triggers flowering. Bushy plants are more tolerant to moist media after transplanting. Crop time after transplanting: Paks 6-8 weeks; 4 in/10 cm pots 7-9 weeks; Baskets 8-11 weeks.

- |                               |                         |
|-------------------------------|-------------------------|
| <b>1366M Scarlet w/Eye</b>    | <b>1366B Peach</b>      |
| <b>1366A Lavender Picotee</b> | <b>1366D Rose w/Eye</b> |
| <b>1366C Pink Picotee</b>     | <b>1366F White</b>      |
| <b>1366H Orchid Frost</b>     | <b>1366K Blue</b>       |
| <b>1366G Burgundy w/Eye</b>   | <b>1366J Scarlet</b>    |
- 1366 Tuscany Mix**

Prices for Tuscany colors & mix: Pkt. (25 seeds) \$3.85; 500 seeds \$15.95; 1,000 seeds & over \$25.38 per M.

Primed seed: 1,000 seeds & over \$28.79 per M.

### QUARTZ XP™

(10 in/25 cm) F1 hybrid. Plants are more vigorous than O/P strains. The Quartz series has been improved and updated as XP types. New genetic breakthrough provides 85% plus plug potential and 12-13 weeks to flower in paks from seed. Allow 14 weeks from seed to bloom in 4 in/10 cm pots.

- |                              |                               |
|------------------------------|-------------------------------|
| <b>1372Q Violet/Eye XP</b>   | <b>1372A Scarlet XP</b>       |
| <b>1372B White XP</b>        | <b>1372F Red/White XP</b>     |
| <b>1372G Burgundy/Eye XP</b> | <b>1372K Purple XP</b>        |
| <b>1372L Pink XP</b>         | <b>1372N Waterfall Mix XP</b> |
- 1372 Quartz Mix XP**

Prices for Quartz XP colors & mixes: Pkt. (25 seeds) \$2.95; 500 seeds \$15.55; 1,000 seeds & over \$24.75 per M.

Primed seed: 1,000 seeds & over \$28.41 per M.

**NOTE: Primed seed is available for Tuscany and Quartz XP series in increments of 1,000 and 5,000. Place an 'R' in front of the code when ordering.**



## TRAILING VERBENA



Rigida Venosa must be sown in January for spring sales. Germinate at 70°F/21°C for 15-20 days. Press seed into soil in total darkness. Transplant 4-5 weeks later. Grow at 50°F/10°C. Keep ventilated. Spray for aphids.

**1370 Imagination®** (12 in/30 cm) Violet blue on lacy green foliage. Pkt. (25 seeds) \$2.50; 250 seeds \$9.50; 1,000 seeds & over \$16.23 per M.



## ZINNIA



Growers using the Magellans should start seed 9 weeks before sale in the North for flowering pots, 6 weeks prior to sale for green plants. In the South, start 8 weeks before sale for flowering pots or 5 weeks ahead for green plant sales. All of these large flowered dwarfs are quite sensitive to daylength, so to prevent tall leggy plants do not try to start them too early. PVP = Plant Variety Protected.

**CULTURE:** 2,500-6,200 seeds per oz/28 g. Seed size varies greatly according to color and type. **GREENHOUSE:** Sow March 20th - April 1st for June sales. Germinate in 80°F/27°C soil, 1/8 in/3 mm deep and cover lightly. Use tempered water. Transplant as soon as possible (10 days from seeding) at the same depth as seedlings. Keep well ventilated - no cold drafts. **DIRECT SEED:** Limit outdoor sowings to the less expensive open pollinated types (hybrids not practical). Sow or broadcast seed after June 10th or when soil temp. reaches 70°F/21°C. Transplant tall types 20 in/50 cm apart, dwarf types 8-10 in/20-25 cm apart. Cut flowers last 4-5 days. **M = 1,000 Seeds or Pellets.**



### DWARF BUTTON TYPE

(10-12 in/25-30 cm) 6,200 seeds per oz/28 g. Neat compact plants are covered with fully double flowers 1.5 in/4 cm in diameter. Ideal for borders, massed beds, pots or planters.

**1406 Button Box Mix** Standard bedding plant mixture for borders, massed beds, pots or containers. Plants bloom in paks and have large fully double flowers. Color range includes red, white, yellow, pink, cherry, rose and orange. Pkt. (80 seeds) \$2.35; 1/4 oz. \$3.50; oz. \$6.90.

**1417 Thumbelina** (6 in/15 cm) Semi-double flowers. Plants are excellent for borders, arranged in alternate double rows 8 in/20 cm apart. 2,800 seeds per oz/28 g. Pkt. (80 seeds) \$2.35; 1/4 oz. \$3.60; oz. \$8.00.



### SMALL FLOWERED DOUBLES

#### LILLIPUT (POMPON)

(2 ft/60 cm) Small flowered solid blooms 2 in/5 cm in diameter. Plants provide an ideal bedding or cut flower item.

**1468 Lilliput or Pompon, Finest Mix** Colors include crimson, rose, pink, yellow, lavender, white. Pkt. (100 seeds) \$2.35; 1/4 oz. \$2.90; oz. \$4.65; 1/4 lb. \$18.60.

#### OKLAHOMA™

(30-40 in/76-102 cm) Medium sized semi-double and double dahlia flowered 1.5 in/4 cm blooms. Sturdy plants have some tolerance to powdery mildew. High yielding cut flower w/ long vase life.

**1469 Oklahoma Mix** Formula blend of salmon pink, golden yellow, scarlet and white. Some powdery mildew tolerance. Use as a background flower in hot, dry locations or as a cut flower. Pkt. (50 seeds) \$2.50; 250 seeds \$5.75; 1,000 seeds & over \$9.82 per M.



### HYBRID GRANDIFLORA DWARF

#### SWIZZLE™

(10-12 in/25-30 cm) Bushy plants fill 4 in/10 cm pots quickly. Height is between Short Stuff and Peter Pan types. Plants spread 8-10 in/25-30 cm and are not mildew tolerant - so do not crowd them too tight in pots or beds. Large fully double 2 in/5 cm blooms cover sun loving plants. Crop time 8-9 weeks. Coated Seed.

**1484A Cherry/Ivory**      **1484B Scarlet/Yellow**

Prices for Swizzle: Pkt. (10 seeds) \$5.95; 100 seeds \$34.05; 500 seeds \$138.00; 1,000 seeds & over \$212.52 per M.



### HYBRID GRANDIFLORA DWARF

#### MAGELLAN™

(12-14 in/30-36 cm) Replaces the Peter Pan series as our best dwarf Dahlia flowered Zinnia for pots or bedding. Very uniform. Exceptional, large fully double blooms. Coated seed.

- |                      |                               |
|----------------------|-------------------------------|
| <b>1485A Cherry</b>  | <b>1485B Coral AAS Winner</b> |
| <b>1485C Ivory</b>   | <b>1485D Orange</b>           |
| <b>1485E Pink</b>    | <b>1485F Salmon</b>           |
| <b>1485G Scarlet</b> | <b>1485H Yellow</b>           |
- 1485 Mix**

Prices for Magellan colors & mix: Pkt. (15 seeds) \$5.50; 100 seeds \$23.55; 500 seeds \$95.50; 1,000 seeds & over \$147.03 per M.

#### PROFUSION™

(12 in/30 cm) Very early, small flowered 2 in/5 cm single blooms cover bushy dwarf plants. Plants have tolerances to powdery mildew and hot weather. The Double series has 2 in/5 cm double blooms. Orange, cherry white and red are AAS Winners. Profusion and Profusion Double are PVP. Coated seed.

**NEW** **1483K AAS Mix** Orange, cherry, white & red

- |                               |                          |
|-------------------------------|--------------------------|
| <b>NEW</b> <b>1483Z Lemon</b> | <b>1483J Red</b>         |
| <b>1483A Cherry</b>           | <b>1483B Orange</b>      |
| <b>1483C White</b>            | <b>1483D Fire Bronze</b> |
| <b>1483E Apricot</b>          | <b>1483F Coral Pink</b>  |
| <b>1483M Mix</b>              | <b>1483H Yellow</b>      |

Prices for Profusion colors & mixes: Pkt. (15 seeds) \$3.25; 100 seeds \$9.20; 500 seeds \$37.90; 1,000 seeds & over \$54.14 per M.

#### PROFUSION DOUBLE™

(12 in/30 cm) Both hot cherry and deep salmon are AAS Winners. Coated seed.

- |                         |                          |
|-------------------------|--------------------------|
| <b>1482D Yellow</b>     | <b>1482E Deep Salmon</b> |
| <b>1482F Hot Cherry</b> | <b>1482A Golden</b>      |
| <b>1482B White</b>      | <b>1482C Fire</b>        |
| <b>1483G Cherry</b>     | <b>1482M Mix</b>         |

Prices for Profusion Double colors & mix: Pkt. (15 seeds) \$3.25; 100 seeds \$9.20; 500 seeds \$37.90; 1,000 seeds & over \$54.14 per M.



Zinnia Double Zahara White



Double Zahara Bright Orange



Zinnia Double Zahara Salmon



Zinnia Zinderella Lilac



Bee Feed Wildflower Mix

## DWARF LARGE ZINNIAS



### ZAHARA®

(12 in/30 cm) Marylandica type with 20% larger single blooms. Extra PM and drought tolerance! Spreads 12-18 in/30-46 cm. For beds and containers. Coated seed. M = 1,000 Seeds or Pellets. PVP.

- 1456K Red
- 1456J Raspberry
- 1456F Starlight Rose
- 1456H Sunburst Red with orange tips.
- 1456G Cherry
- 1456C White
- 1456D Yellow
- 1456 Zahara Mix Formula blend of above colors.

Prices for Zahara colors & mix: Pkt. (15 seeds) \$3.50; 100 seeds \$8.70; 500 seeds \$32.20; 1,000 seeds \$49.55 per M.

### DOUBLE ZAHARA®

(16 in/41 cm) Medium height fully double blooms and disease tolerant plants. Larger double flowers than Double Profusion - which is only semi-double. Good dry weather tolerance. Coated seed. Cherry = PVP.



1575F Bright Orange



1575G Salmon



1575H White

1575D Yellow

1575A Cherry AAS Winner

1575 Mix

1575B Fire AAS Winner

1575Z Brilliant Mix

Prices for Double Zahara: Pkt. (15 seeds) \$3.95; 100 seeds \$10.10; 500 seeds \$37.30; 1,000 seeds \$57.40.

## TALL LARGE ZINNIAS

### ZAHARA® XL

(18-24 in/46-61 cm) Tall Single. Similar taller plant to Zowie Yellow Flame but has a large single Zahara flower size. High disease and drought tolerance, flowers summer and fall. Crop time 12 weeks. Space plants 8 in/20 cm apart. PVP. Coated seed.

- 1458A Zahara XL Fire
- 1458C Zahara XL White
- 1458B Zahara XL Pink
- 1458D Zahara XL Yellow

Prices for Zahara XL: Pkt. (15 seeds) \$3.50; 100 seeds \$8.70; 500 seeds \$32.20; 1,000 seeds \$49.55 per M.



### AFRICAN ZINNIYA (Melampodium)

(8 in/20 cm) Very dwarf plants with bright green leaves and 0.75 in/2 cm single, daisy flowered blooms. Plants spread 15 in/38 cm. Outstanding potted plant with great drought tolerance and better mildew tolerance. Sow indoors April 1st.

- 1474K Jackpot Gold (6-12 in/15-30 cm) Extremely floriferous. Performs well in hot and humid climates. Improved larger, better shaped flowers.
- 1474B Lemon Delight (8 in/20 cm) Lemon yellow

Prices of the above two: Pkt. (15 seeds) \$2.50; 100 seeds \$7.20; 500 seeds \$26.60; 1,000 seeds & over \$45.19 per M.

### STAR™

(8 in/20 cm) Angustifolia multiflora single zinnia. Used as an extra dwarf ground cover. Small, single 1.5 in/4 cm daisy-like blooms cover bushy plants from July until frost. Some mildew tolerance.

- 1476 Star Mix (8 in/20 cm) Orange, yellow and white Pkt. (50 seeds) \$2.35; 500 seeds \$4.95; 1,000 seeds & over \$6.71 per M.

## GIANT CACTUS FLOWERED ZINNIYA

1448 Burpeeana Giant Mix (35 in/89 cm) O/P. Cactus type. Blended from separate colors - pink, orange, red, rose and white, average 5-6 in/13-15 cm. Pkt. (80 seeds) \$2.25; 1/4 oz. \$3.15; oz. \$4.00; 1/4 lb. \$14.20.

## DAHLIA FLOWERED ZINNIAS

1435 Giant Dahlia Flowered Mix (2.5 ft/76 cm) Blend of standard colors used by the bedding plant trade; green, lavender, light rose, orange, purple, red, rose, scarlet and yellow. Pkt. (80 seeds) \$2.15; 1/4 oz. \$3.95; oz. \$6.80; 1/4 lb. \$24.65; lb. \$98.60.

1462 State Fair Mix (2.5 ft/76 cm) One of the best giant flowered zinnias for the bedding plant trade. This tetraploid strain produces huskier plants and shows a tolerance to mildew and alternaria. Pkt.(40 seeds) \$2.50; 100 seeds \$5.10; 500 seeds \$10.20; 1,000 seeds & over \$15.74 per M.

## BENARY'S GIANT

(40-50 in/102-127 cm) Fresh Cut Flower of the Year award by ASCFG, this magnificent series produces high yields of long thick extra large, fully double 4-5 in/10-13 cm blooms on sturdy stems. Proven better field tolerance to Powdery Mildew than other O/P tall types. Use for commercial cut flowers or backgrounds.

- 1455A Bright Pink
- 1455B Carmine Rose
- 1455D Golden Yellow
- 1455E Salmon Rose
- 1455C Deep Red
- 1455J Orange
- 1455K Purple
- 1455L Scarlet
- 1455M White
- 1455N Lime
- 1455G Coral
- 1455H Lilac
- 1455W Wine
- 1455 Benary's Giant Mix

Prices Benary's Giant colors: Pkt. (25 seeds) \$2.75; 100 seeds \$5.15; 500 seeds \$19.00; 1,000 seeds \$33.03.

1457B Graffiti Mix (24-32 in/61-81 cm) Nice dahlia flowered mix of bright colors, yellow, orange, red, pink and bicolored gold with red flecks. Crop time (sowing until flower) - 90 days. Use for cut flowers or tall backgrounds. Pkt. (80 seeds) \$2.35; 1/4 oz. \$5.80; oz. \$15.90.

1463 Peppermint Stick (28 in/71 cm) Great cut flower! Beautiful double dahlia flowered blooms striped and flecked with many bicolors. Pkt. (80 seeds) \$2.35; 1/4 oz. \$3.90; oz. \$6.90; 1/4 lb. \$22.40.

1478 Whirligig (20 in/51 cm) Mixture includes yellow/crimson, red/white, pink/white, cream/rose, bronze/red double 3-4 in/8-10 cm blooms. Pkt. (80 seeds) \$2.15; 1/4 oz. \$3.85; oz. \$5.40; 1/4 lb. \$17.60.

## TALL SINGLE & SEMI DOUBLE

1484Z Salsiendo Mix (25 in/64 cm) Superb bicolor mix of Dahlia flowered rose/white and scarlet/gold 3 in/8 cm blooms. For borders or cut flower use. Pkt. (80 seeds) \$2.50; 1/4 oz. \$8.75; oz. \$23.80.

1486 Zowie!™ Yellow Flame (24 in/61 cm) Hybrid. A beautiful tall bushy plant Large 3.5-4 in/9-10 cm blooms with magenta-orange centres and yellow tips. Coated seed. Pkt. (10 seeds) \$4.75; 100 seeds \$25.80; 500 seeds \$104.65; 1,000 seeds & over \$161.12 per M.

## NOVELTY FLOWERED TYPES

1457A Pop Art Golden & Red (24-32 in/61-81 cm) Novelty bicolor dahlia flowered zinnia - eye catching golden yellow petals with blood red flecks. Pkt. (80 seeds) \$4.25; 1/4 oz. \$33.00; oz. \$90.00.

1489A Zinderella Lilac (31 in/79 cm) Attractive extra double Scabiosa flowered lilac pink with dark eye.

1489B Zinderella Peach (29 in/74 cm) Lovely bicolored extra double Scabiosa flowered light orange with cream and rose contrasting dark centers.

Prices of Zinderella: Pkt. (15 seeds) \$3.25; 250 seeds \$17.60; 1,000 seeds & over \$47.50 per M.

## HYBRID DAHLIA FLOWERED ZINNIAS



### SUN™

(20 in/51 cm) Early dahlia flowered type with powdery mildew tolerance. Plants bloom 60-70 days from seed. Colors do not fade in intense sunlight, blooms average 4 in/10 cm across and are fully double. Wind tolerant.

- 1436 Red Sun
- 1436A Gold Sun
- 1436B Cherry Sun
- 1436M Sunshine Mix Blend of red, golden yellow, cherry and white.

Prices for Sun colors & mix: Pkt. (15 seeds) \$3.50; 100 seeds \$10.50; 500 seeds \$42.55; 1,000 seeds & over \$65.49 per M.

1487A Uproar™ Rose (28 in/71 cm) Intense wine colored, double blooms cover plants. Coated seed. Pkt. (10 seeds) \$4.75; 100 seeds \$25.80; 500 seeds \$104.65; 1,000 seeds & over \$161.12 per M.



## WILDFLOWER MIXTURES



CULTURE: Sow as early as possible when the snow disappears. Seed count varies but averages 1 lb/454 g per 8,500 sqft/790 sqm. 5 lbs/2 kg per acre. Avoid shady areas. Complete directions on packets.

1396E Bird & Butterfly Mix An annual and perennial mixture that is perfect for creating a backyard habitat to attract your favorite winged friends. Flowers provide colorful blooms all season long as well as nectar and seed for birds, butterflies & hummingbirds.

1396C Bee Feed Wildflower Mix A good mix of annual and perennial flowers that provide nectar and pollen for honeybees and other pollinators all season long. Spring, summer and fall blooming varieties. A wide range of colors for garden beds and meadows.

1396A Eastern Canadian Wildflower Mix Contains a collection of annuals and perennials in red, white, blue, yellow, pink and lavender.

Prices for Wildflower mixes: Pkt. (1,000 seeds) \$2.75; 1/4 oz. \$11.85; oz. \$22.50; 1/2 lb. \$130.10; lb. & over \$193.00 per lb.



Capsicum Midnight Fire



Capsicum Sangria



Canna South Pacific Scarlet



Capsicum Sedona Sun



Capsicum Purple Flash

## POTTED PLANTS FOR COMMERCIAL GREENHOUSE GROWERS

### ASPARAGUS

CULTURE: 600-750 seeds per oz/28 g. Soak seed for 48 hrs. in warm water or wet paper towel. Viable seeds will swell up. Sow in a sterile medium - cover seed lightly. Maintain uniform moisture. Use clear plastic or glass to cover seed flats to control humidity and temperatures. Germinate seed at 75-80°F/24-27°C for 21-42 days. Grow seedlings at 65-70°F/18-21°C. Transplant into 4 in/10 cm pots. Sow in April or Nov. - plants mature 26-28 weeks from seeding.

**610 Plumosus Nanus** Base branching, fine fern-like lime green foliage for bouquets. Pkt. (20 seeds) \$5.25; 100 seeds \$18.80; 500 seeds \$64.50; 1,000 seeds & over \$90.73 per M.

### ORNAMENTAL EGGPLANT

**1353 Pumpkin-on-a-Stick** Solanum Aethiopicum. Tiny ribbed 2.5 in/6 cm red-orange pumpkin shaped fruit are dried or used fresh as autumn decorations. Great shelf life. Spreading 30 in/76 cm plant. Sow indoors April 15th. Pkt. (10 seeds) \$2.50; 100 seeds \$11.35; 1,000 seeds & over \$31.19 per M.

### CACTUS

CULTURE: Cacti are slow growing and may be sown indoors anytime. Seeds respond to alternating temperatures of 65-80°F/18-27°C in about 20-50 days. Seed needs light, do not cover. Keep moist. Seedlings may remain in their pot for several months before transplanting. Soils should be open in texture to insure proper drainage. Sand may be added to soil.

**721A Super Greenhouse Mix** Blended from small seeded types. Good variety for greenhouse and sales. Pkt. (20 seeds) \$4.25; 1/256 oz. \$6.40; 1/128 oz. \$11.10; 1/32 oz. \$33.15.



Pumpkin-on-a-Stick

### CANNA

CULTURE: Approx. 1,500 scarified seeds per lb. Plants should bloom 100-130 days from seeding. Sow indoors Jan. 15 -Feb.15th, 0.25 in/ 6 mm deep, cover seed with soil. Germinate at 70-75°F/21-24°C for 10-15 days. Grow seedlings cooler at 65°F/15°C, transplant at 2 leaf stage into 4 in/10 cm pots. 5-6 leaf stage transplant again into gallon containers or 10 in/25 cm pots. Plants flower at 1.5 ft/45 cm. Seed has been scarified for easier germination.

#### TROPICAL™

**746A Red**  
**746C Yellow**  
**746 Rose**

**746B Salmon**  
**746D White**

Prices for Canna colors: Pkt. (10 seeds) \$8.05; 100 seeds \$42.20; 500 seeds \$164.20; 1,000 seeds & over \$328.40 per M.

**1766A South Pacific Scarlet** F1 hybrid. Compact, vigorous virus free, daylength neutral, well branched plant. Repeats blooming on multiple spikes. AAS Winner. Pkt. (10 seeds) \$11.25; 100 seeds \$59.15; 500 seeds \$230.25; 1,000 seeds & over \$460.50 per M.

### HYBRID CINERARIA

CULTURE: 100,000 per oz/28 g. Sow Aug. - Nov. for March and April plants for Easter. Germinate at 75°F/24°C for 14 days. Do not cover seeds. Seed germinates irregularly.

**P816B Jester® Mix** (6 in/15 cm) Compact, very uniform, small flower, small leaf miniature. High percentage of bicolors in a 5 color mix. Use for 5-6 in/13-15 cm pots. Pelleted seed only. Pkt. (10 pellets) \$3.85; 100 pellets \$14.15; 500 pellets \$62.70; 1,000 pellets & over \$95.21 per M.



Cineraria Jester Mix

### CAPSICUM (Ornamental Pepper)

CULTURE: 8,000 seeds per oz/28 g. Sow peppers April 15th. Germinate at 72°F/ 22°C soil temperature for 14 days, cover seed. Use Jiffy Mix or sandy soil. Allow 4-6 months from seed.

**815G Wicked** (6-8 in/15-20 cm) Compact plant with stunning extra-large fruit that start purple and turn red. Perfect for fall mixed containers. Crop time 7-13 weeks from transplant. Fruit has mild heat.

**815F Midnight Fire** (9-12 in/23-30 cm) Distinctive dark black foliage accented by purple fruit which mature bright red. Best used in 6-8 in/15-20 cm pots. Crop time 7-13 weeks from transplant.

**815H Blaze** (4-8 in/10-20 cm) Large fruit in eye-catching autumn tones that start yellow and mature red. Fruit has medium heat. Crop time 7-13 weeks from transplant.

Prices for the above three: Pkt. (10 seeds) \$4.95; 100 seeds \$16.60; 500 seeds \$72.15; 1,000 seeds & over \$112.32 per M.

**815D Hot Pops** (4-5 in/10-13 cm) Small round peppers in both purple and orange, grow like Medusa. Best grown in quarts and pots. Crop time 8-12 weeks. Fruit is very hot.

**807M Medusa** (8 in/20 cm) "Sweet fruit" type (not hot) matures ivory, yellow, orange, red. 2 in/5 cm slender fruit at 40-50 per plant. PVP

**815C Sedona Sun** (9-12 in/23-30 cm) Masses of distinctive lemon yellow and carrot orange fruit, grow like Sangria. Best grown in gallon container and pots. Crop time 8-12 weeks. Fruit is hot.

**815A Sangria** (12 in/30 cm) "Sweet fruit" type (not hot) with continuous setting purple and red fruit on well branched, spreading, semi-indeterminate plants.

Prices for above four: Pkt. (10 seeds) \$4.95; 100 seeds \$16.60; 500 seeds \$72.15; 1,000 seeds & over \$112.32 per M.

**807C Purple Flash** (15 in/38 cm) Unique, layered, exotic plant with bright purple and black bicolor leaves, topped with small, round, black hot fruit.

**807A Black Pearl** (24 in/61 cm) Tall green foliage turns glossy black at maturity - used for tall foliage backgrounds. Dark red edible fruit are hot! AAS Winner. PVP

Prices for above two: Pkt. (10 seeds) \$4.95; 100 seeds \$24.70; 500 seeds \$107.05; 1,000 seeds & over \$166.73 per M.



Succulents Hens and Chickens



Gerbera Festival Select Growers Mix



Cyperus Wild Spike



Ranunculus Magic Mix



Platycodon Sentimental Blue

## POTTED PLANTS FOR COMMERCIAL GREENHOUSE GROWERS

### CROSSANDRA

CULTURE: Allow 17-20 weeks crop time for flowering 4 in/10 cm pots. Popular (10 in/25 cm) indoor pot plant in the northeast. Loves heat! Germinate at 80°F/26°C days and 70°F/21°C nights for 21-28 days. Grow plants at 68-75°F/20-24°C.

**822A Tropic Flame** Salmon orange flowers on shiny foliage. Pkt. (15 seeds) \$6.65; 100 seeds \$19.75; 500 seeds \$85.20; 1,000 seeds & over \$136.89 per M.

### CYPERUS (Umbrella Plant)

CULTURE: An excellent house plant or a unique foliage plant for wet areas. Sow indoors - soak seed for 10 hours before sowing in January/March at 70°F/21°C soil temp. Press seed into soil - do not cover. Germinates in 15-21 days.

**1709 Wild Spike** Alternifolia. (18-30 in/46-76 cm) Unique foliage for containers, indoors or outdoors. 300,000 seeds per oz/28 g. Pkt. (25 seeds) \$2.05; 250 seeds \$2.35; 1,000 seeds & over \$7.98 per M.

### DRACAENA (Spikes)

CULTURE: Sow in August for good 3 in/8 cm pots for May sales and December for 2.5 in/6 cm plants. Requires 15 months for husky 4-5 in/10-13 cm plants. Soak seed for 4 hours, then sow on soil surface (requires light to sprout). Germinate at 80°F/27°C for 28-35 days. Rubbed Seed.

**895A Indivisa** Long, sword shaped green leaves. Pkt. (65 Seeds) \$2.35; 250 seeds \$4.15; 1,000 seeds & over \$8.49 per M.

### GLOXINIA

CULTURE: A December - January sowing is preferred for June flowers. Sow May 30th for Christmas plants. Germinate at 75°F/24°C day and night for 20 days. Grow at 70°F/21°C. The small late seedlings are the best colors. Pelleted seed.

**968 Empress Mix** (10 in/25 cm) Best potted plant blend of solid colors and picotee shades. European strain. Pkt. (25 seeds) \$3.50; 250 seeds \$12.70; 1,000 seeds & over \$33.89 per M.



Gerbera Royal Premium Mix

### GERBERA (Transvaal Daisy)

CULTURE: In the Northeast, sow Nov. 20th for early May flowering pots. Sow Feb. for Sept. blooms. Use a 128 cell tray with well-drained sterile medium like Pro Gro with good aeration, slightly fertilized for a pH of 5.5 to 5.8. Germinate at 75°F/24°C for 8-10 days. Leave seed uncovered and keep moist. Press seed into media surface but do not cover. Try to maintain a humidity of 70-75% and incandescent light of at least 12 hours per day in your germination chamber - for 8 to 14 days. Keep seedlings slightly shaded and cooler at 68-72°F/20-22°C, 20-30% humidity. Do not over water seedlings or keep them too damp between waterings. During dark weather, maintain supplementary lighting at 300-500 foot candles for 14 hours per day. As plugs or transplants develop 2 to 4 true leaves (4-6 weeks later), lower growing temps to 60°F/16°C. Allow 6 to 10 weeks from transplanting to flower. Grow plants at 72°F/22°C days and 65°F/18°C nights. Crop time for 5 in/15 cm pots 13-18 weeks.

**908C Majorette Mix** (8-10 in/20-25 cm) The most uniform gerbera series ever! Perfect for large containers with multiple plants. Slick coated seed for streamlined sowing. Pkt. (10 seeds) \$5.75; 100 seeds \$35.35; 1,000 seeds & over \$282.89 per M.

**908A Festival Select Growers Mix** (6 in/15 cm) F1 hybrid. Compact uniform plants with tight flowering window. 8 weeks earlier than some hybrids. Bright filmcoat. Pkt. (10 seeds) \$5.75; 100 seeds \$27.80; 1,000 seeds & over \$222.75 per M.

**908B Royal Premium Mix** (6 in/15 cm) F1 hybrid. Formula blend of a dozen fantastic colors. Uniform flowering time, lots of semi double flowers per plant, short culture time. Pkt. (10 seeds) \$5.75; 100 seeds \$34.60; 1,000 seeds & over \$276.93 per M.

### POLKA DOT PLANT (Hypoestes)

CULTURE: Germinate at 70°F/21°C for 7 days, cover seed lightly. Use several light applications of a growth regulator. This should keep potted plants short for a while after sale. Pinching is not recommended. Plants take 11-13 weeks from seed to sale. Use 5 or 6 seedlings per 6 in/15 cm pot. Long daylength outdoors will cause plants to stretch to 16 in/41 cm.

**1244 Pink Splash Select** Pink spots/green leaves  
**1244D Red Splash Select** Red spots/green leaves

Prices for Splash colors: 50 seeds \$2.75; 500 seeds \$11.70; 1,000 seeds & over \$18.72 per M.

### PLATYCODON

CULTURE: 27,500 seeds per oz/28 g. Sow indoors Jan. 1st at 70°F/20°C for 21 days. Press seed into the soil, expose to light. Plants bloom 14 weeks from seed. To use Komachi as a cut flower, scald stems with hot water after cutting. PERENNIAL.

**1270A Komachi Blue Balloon** (10 in/24 cm) Unique 1.5 in/4 cm balloon shape. Pkt. (25 seeds) \$5.25; 1/256 oz. \$23.70; 1/128 oz. \$44.05; 1/64 oz. \$67.60.

**1270 Sentimental Blue** (8 in/20 cm) A tender perennial potted plant which is hardy from zones 3-8. Crop time 14 weeks. Star shaped 2 in/5 cm blooms. Pkt. (25 seeds) \$3.75; 250 seeds \$14.65; 1,000 seeds & over \$46.85 per M.

### HYBRID RANUNCULUS

CULTURE: Crop time 21-24 weeks from seeding. Used for greenhouse cut flowers, indoor house plants and outdoor cut flowers in the fall. Germinate cool at 50°F/10°C for 14 to 21 days from Sept.-Jan. Grow plants at 60°F/15°C days and 40°F/5°C nights.

#### MACHÉ™

(12-16 in/30-41 cm) Very early flowering, large flowered type with faster growing dark green foliage. Blooms mature about 10 weeks earlier than Bloomingdales. Stems become longer as daylength increases. Grow cool! Active growth ceases at 70°F/20°C. Sow in August for March sales.

**1732A Orange**

**1732C Yellow**

**1732 Maché Mix** Formula blend of yellow, purple, cream, scarlet, orange, rose and red.

Prices for Maché colors and mix: Pkt. (10 seeds) \$4.50; 100 seeds \$11.70; 1,000 seeds & over \$80.94 per M.

#### MAGIC™

(6-8 in/15-20 cm) One of the best dwarf types available for potted plant production. Plants do not require growth retardants. Large blooms on short stems. Sow September 15th. Crop time 22-24 weeks.

**1733A White**

**1733 Magic Mix** 6 colors

Prices for Magic White and mix: Pkt. (10 seeds) \$4.75; 1,000 seeds & over \$115.09 per M.

### SUCCULENTS

CULTURE: Germinate at 65-75°F/18-24°C for 3-4 weeks. For pots and dish gardens. Sow seed from February 15th - April 15th. Seed size is variable.

**1303 Hens and Chickens Mix** Sempervivum. Fleshy leaf rosettes with rose, red or purple tones. Pkt. (150 seeds) \$2.75; 1,000 seeds & over \$8.02 per M.



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Saxifraga Rocco Red



Ornamental Mini Mint



Ornamental Oregano Kirigami



Primula SuperNova Mix



Dichondra Silver Falls



## PRIMULA

### HYBRID PRIMULA ACAULIS

**CULTURE:** Pre-chill before sowing at 35-40°F/2-4°C for 48 hours. Sow from February 1 to April 1 or July 15 to August 1. Stems will get too tall if sown after August 7. Maintain soil at 70°F/21°C for 40 days. Keep moist. Don't cover seed. Most primulas overwinter better than pansies in the Northeast. Allow 16-20 weeks from transplanting to sale in flowering pots.

**1256C Danova Mix** (5 in/13 cm) Extremely uniform plants and flowering, grandiflora size blooms. Best series for 4 in/10 cm pots. Pkt. (10 seeds) \$3.95; 100 seeds \$13.70; 1,000 seeds & over \$67.29 per M.

#### ORION®

(5 in/13 cm) Our best mid-season flowering acaulis for late winter and early spring sales. Large scented flowers on compact plant. All colors bloom together. High quality seed. Crop time 16-19 wks (6-8 wks from 288 plugs).

**1253M Orion Mix** Formula blend of 9 colors. Pkt (25 seeds) \$4.50; 250 seeds \$22.30; 1,000 seeds & over \$64.27 per M.

### HYBRID PRIMULA POLYANTHUS

**CULTURE:** Germinate like other primulas. This type is winter hardy and more upright in habit. Blooms are held above foliage. Allow 18-20 weeks from transplanting time to sale. Grow plants cool at 40°F/4°C. Use in milder climates. Zone 5b.

**1261M SuperNova™ Mix** (8 in/20 cm) Not as hardy as Pacific Giants but has better disease tolerance and is earlier flowering. Extra large 2 in/5 cm blooms on 4 in/10 cm umbels. Wider color range of up to 11 colors. Pkt. (25 seeds) \$4.60; 100 seeds \$14.60; 1,000 seeds & over \$67.07 per M.



Alternanthera Purple Prince



Primula Danova Mix



Primula Orion Mix



Asparagus Sprengeri

Quality Seed Since 1881



## COMPANION PLANTS

For an attractive foliage plant to compliment your containers or hanging baskets. The selection below are designed to add interesting texture and color to your favourite plant selections, or use as a stand alone eye catching feature.

### ALTERNANTHERA

**1515A Purple Prince** (10-16 in/25-41 cm) A durable carpet of ruby/burgundy foliage works great as a spiller in high-impact containers. Low maintenance and drought tolerant. Pkt. (10 seeds) \$4.75; 250 seeds \$66.20; 1,000 seeds & over \$189.15 per M.

### ASPARAGUS

**CULTURE:** 600-750 seeds per oz/28 g. Soak seed for 48 hrs. in warm water or wet paper towel. Viable seeds will swell up. Sow in a sterile medium - cover seed lightly. Maintain uniform moisture. Use clear plastic or glass to cover seed flats to control humidity and temperatures. Germinate seed at 75-80°F/24-27°C for 21-42 days. Grow seedlings at 65-70°F/18-21°C. Transplant into 4 in/10 cm pots. Sow in April or Nov. - plants mature 26-28 weeks from seeding.

**611 Sprengeri** Long graceful needle-like sprays for baskets. Pkt. (40 seeds) \$2.75; 100 seeds \$3.95; 500 seeds \$13.45; 1,000 seeds & over \$18.95 per M.

### BEGONIA



#### SEMI DWARF GREEN FOLIAGE

**CULTURE:** Use a well drained, disease-free, soilless medium with a pH of 5.8-6.2 and some initial fertilizer to aid germination. Press multi-seed pellets lightly into the media. Do not cover pellet. Water thoroughly to help dissolve the pellet. Germinate at 72-78°F/22-26°C for 10-12 days. Saturated media and high relative humidity are critical for successful germination. Sow one pellet per cell in 288 or larger plug tray. Begin fertilization 5 days after seedlings appear, 2-3 times per week. Do not allow seedlings to dry out or wilt, but allow medium to dry out between waterings. Transplant 7-8 week old seedlings into larger containers. As plants mature, keep day temp. 65-75°F/18-24°C; night temp. 62-67°F/16-19°C. Allow media to drain to normal moisture. No pinching or growth regulators needed.

**P677 Gryphon** (14-16 in/36-41 cm) Unique, shiny dark green veins on medium green, hand-size leaves have a tropical appearance. Mounded, upright plants spread 16-18 in/41-46 cm, and thrive at temps above 40°F/4.4°C in sun or shade. Use mature plants indoors or out, in 10 in/25 cm pots or gallon containers. Does not flower. Multi-seed pellets. Pkt. (10 pellets) \$6.25; 100 pellets \$29.50; 1,000 pellets & over \$219.96 per M.



### IREesine



**CULTURE:** 44,800 seeds per oz/28 gr. Sow February 1st - 15th. Allow 11-14 weeks for finished 4 in/10 cm pots or 10 in/25 cm hanging baskets. Cover seed lightly, germinate at 74°F/23°C for 4 days. Use as purple foliage for cascading baskets or as ground cover. Spreads 3-4 ft/1-1.2 m.

**966A Purple Lady** (8 in/20 cm) Plant with coleus or impatiens in partial sun. Pkt. (10 seeds) \$5.75; 100 seeds \$24.60; 1,000 seeds & over \$170.24 per M.



### DICHONDRA

**CULTURE:** 6,070 seeds per oz/28 gr. Allow 11-12 weeks for finished 4 in/10 cm pots and 13-14 weeks for 10 in/25 cm containers. Sow January 15th - February 1st. Germinate at 72-76°F/22-24°C for 4 days. Grow plants at 65-76°F/18-24°C days and 62-65°F/16-18°C nights. Rounded, fan shaped silver 1 in/3 cm leaves on short 0.75 in/2 cm side stems with long, 4 ft/1.2 m main trailing stems. Great for containers or as a ground cover. Branches without pinching, heat tolerant. Silver or green leaves.

**P910B Emerald Falls Green** (Multi-pellet only.)

**910A Silver Falls Silver**

Prices for Dichondra colors: Pkt. (10 seeds) \$4.75; 100 seeds \$24.60; 250 seeds \$52.00; 1,000 seeds & over \$170.24 per M.



### FOLIAGE HELICHRYSUM



#### PETIOLARE MINUS

**P973A Silver Mist** (8 in/20 cm) Round silver leaves 0.25 in/0.6 cm on silver stems 18 in/46 cm long. Plants branch and spread well without pinching (unlike vegetative species). Silver foliage appears greenish under short spring and late fall daylength. Silver color intensifies with longer daylength. Use for hanging baskets or containers. Germinate at 76°F/24°C for 7 days. 12-14 week crop. Multi-pellet. 25 pellets \$7.40; 100 pellets \$23.85; 1,000 pellets & over \$170.24 per M.

### ORNAMENTAL OREGANO

**1799 Kirigami** (8-10 in/20-25 cm) The perfect patio plant! Eye-catching, non-edible oregano with large purple-green bracts, rose flowers and light green foliage. Its pleasant fragrance is attractive to pollinators. Heat and drought tolerant. Perfect for hanging baskets, borders and rock gardens. Pkt. (10 seeds) \$3.75; 250 seeds \$17.05; 1,000 seeds & over \$48.75 per M.

### ORNAMENTAL MINT

**P1899 Mini Mint** An easy economical way to grow an attractive, highly fragrant groundcover or small pot plant. Each multi-seed pellet contains 8-12 seeds, one plug in a 4 in/10 cm pot delivers a nice fast fill. Leaves are non-toxic but do not have a palatable flavor. Multi-pellets. Pkt. (10 pellets) \$3.75; 100 pellets \$13.10; 500 pellets \$29.50; 1,000 pellets & over \$54.60 per M.



Aquilegia Winky Single Mix



Aubretia Mixed Hybrids



Coreopsis Sunkiss



Coreopsis Double the Sun



Candytuft Snow White



Chrysanthemum Snow Lady



Bellis Perennis Tasso Mix

## PERENNIALS AND BIENNIALS (See Index - page 2 - for hardiness zones)



### ACHILLEA (Yarrow)



**CULTURE:** Sow April 15th 6 to 8 weeks before sale in paks. Germinate at 68°F/20°C for 10 days. Press seed into soil surface, do not cover. Reduce night soil temperature during germination period. Grow seedlings cool at 60°F/16°C. Plants mature in August/September from seed the first year. Plants bloom June to August.

**481 Summer Pastels Mix** (24 in/61 cm) F2 Hybrid. Mix of pink, rose, apricot, cream, tan, purple, red, white. AAS Winner. Pkt. (100 seeds) \$3.75; 500 seeds \$11.15; 1,000 seeds & over \$19.94 per M.



### ASCLEPIAS (Butterfly Weed)



**CULTURE:** 3,500 seeds per oz/28 g. *Blooms first year* from June-August. Sow indoors December - March. Germinate 70-75°F/21-24°C for 28 days. Leave seed exposed to light or press seed into soil. Grow seedlings at 65°F/18°C. Perennial for zones 4-9.

**605 Tuberosa** (30 in/76 cm) Upright 3 in/8 cm clusters of 0.75 in/2 cm bright orange shades. Pkt. (25 seeds) \$2.35; 250 seeds \$9.20; 1,000 seeds \$15.73 per M.



### AUBRIETA



**CULTURE:** 114,000 seeds per oz/28 g. Germinate at 60°F/16°C uniform soil temp. for 20 days. Higher temperatures prevent germination.

**690 Mixed Hybrids** (4 in/10 cm) Resembles a cushion type dianthus. Dense green foliage covered with lavender, rose and lilac blooms. Pkt. (500 seeds) \$2.35; 1/32 oz. \$3.25; 1/4 oz. \$11.70; 1/2 oz. \$23.40.



### BELLIS PERENNIS (English Daisy)

**CULTURE:** 135,000 seeds per oz/28 g. Germinate at alternating 70-80°F/21-27°C soil temp. for about 7 days. Press into soil. Do not cover seed. Sow Dec/Jan or July/Aug. Keep well watered. Grow cool 60-65°F/15-18°C. Mulch in fall. Multiflora doubles replace most grandiflora types due to their improved double flower shape. Biennial.

**670 Tasso™ Mix** (5 in/12 cm) Multiflora. Larger Tasso flowers with tight tubular petals have a much better double appearance than grandifloras or pomponettes. Very compact plants have short, strong flower stems that set buds uniformly. Earlier multiflora blooms than Grandifloras, more double and slightly smaller. 100 seeds \$2.40; 500 seeds \$7.90; 1,000 seeds & over \$9.50 per M.



**4 Easy Easy Ways To Order!**  
Please see page 1 for Details.



### AQUILEGIA (Columbine)



**CULTURE:** 15,500 seeds per oz/28 g. Sow indoors February 1st - March 15th. Chill seeds at 40°F/4°C for 5 days before sowing. Germinates at 70-80°F/21-27°C soil temp. in 25 days. Do not cover seed. Sow in late May or June for plants that bloom next year.

#### WINKY

(12-16 in/30-41 cm) Unique, dwarf series available in both single and double flowered mixes. Plants need vernalization (cold subzero exposure during winter months) to flower the second year. Both mixes have unusual upward facing flowers. Plants are mildew tolerant and daylight neutral after vernalization. Crop time 46 weeks. Sow mid June to late July. Hardy to Zone 3.

**596A Winky Single Mix** 7 colors. 20 seeds \$3.30; 100 seeds \$9.00; 1,000 seeds & over \$62.79 per M.

**596B Winky Double Mix** 4 colors. 20 seeds \$5.80; 100 seeds \$15.95; 1,000 seeds & over \$111.23 per M.

**585 Songbird Mix** (12 in/30 cm) Dwarf hybrid. *Blooms first year.* Blend of yellow, white, blue and rose/white, blue/white, lavender/white. 20 seeds \$5.35; 100 seeds \$19.30; 1,000 seeds \$131.63 & over per M.



### BUDDLEYA



**CULTURE:** Sow indoors March 1st for late summer flowers or outdoors 10 days after last spring frost. Germinate at 70°F/21°C for 25 days. Flowers the first season at 15 in/38 cm plant height, matures to 5 ft/1.5 m in the second year.

**602 Violet Butterfly** (5 ft/1.5 m) Violet blue flowers 6 months from seeding. Same species as popular nursery stock item. Fragrant cut flower or flowering shrub. Plants attract butterflies. Pkt. (50 seeds) \$2.35; 250 seeds \$6.05; 1,000 seeds & over \$15.38 per M.



### COREOPSIS



**CULTURE:** 11,000 seeds per oz/28 g. Sow during the early spring for perennial sales. Sow outdoors anytime from April to June. Self-seeds easily, once established. Plants thrive in full sun from June to August.

**731D Double the Sun** (12-14 in/30-36 cm) Early, semi-double 2.5 in/6 cm golden yellow flowers. Great controlled habit with strong flowering. Primed seed. Zone 4A-9B.

**731B Sunfire** (24 in/61 cm) Single golden-yellow flowers with burgundy eye. Naturally compact plant works great in pots. Heat tolerant. Primed seed.

**731A Sunkiss** (12-14 in/30-36 cm) A color breakthrough in seed, the brightest yellow with large deep red blotch on the market! Well branched, excellent heat tolerance and easy to grow. *Blooms first year.* Primed seed.

Prices for the above three: Pkt. (25 seeds) \$2.75; 250 seeds \$12.85; 1,000 seeds & over \$38.61 per M.



### CANDYTUFT (Iberis)



**CULTURE:** 8,500 seeds per oz/28 g. Blooms during May-June, in sun or partial shade. Germinate cooler at 60°F/16°C for 16 days. Grow plants at 45-50°F/7-10°C. Sow seed March 1st, 10 weeks before spring pot sales. Sow outdoors 6 weeks before last spring frost or first fall frost.

**757 Snow White** (12 in/30 cm) *Blooms 2nd year.* Snow white flat umbels on spreading plants. Great for landscaping difficult areas like slopes, steep banks. A long lasting cut flower. Pkt. (25 seeds) \$2.75; 250 seeds \$15.90; 1,000 seeds & over \$27.06 per M.



### CATANANCHE (Cupid's Dart)



**CULTURE:** Approx. 12,000 seeds per oz/28 g. Sow March 15th, cover seeds lightly, germinate at 65°F/18°C for 10 days. Grow plants cool at 60°F/15°C. Sold green in paks about 11-12 weeks.

**791 Caerulea** (24 in/61 cm) Smaller blooms in first year - larger blooms following year. Semi double 2 in/5 cm, light to mid blue papery blooms. Thin 8 in/20 cm leaves, wiry stems. Blooms Aug/Sept. Pkt. (30 seeds) \$2.75; 1/16 oz. \$3.55; 1/8 oz. \$4.85; 1/4 oz. \$7.30.



### CENTAUREA



**CORNFLOWER CULTURE:** 1,200 per oz/28 g. Sow outside May 1st at 60°F/16°C soil temp. maximum. in total darkness for 30 days. Germinates irregularly. Thin to 16 in/41 cm apart. Sow indoors April 1.

**786A Classic Artistic Mix** (32 in/81 cm) Hardy annual. Exceptional Cornflower mix for knee high borders, landscaping or cut flowers. Blend of red, white, pink, maroon, light and dark blue bicolors with white tips. Blooms May to Sept. from an outdoor Spring sowing. Pkt. (100 seeds) \$2.75; 1/4 oz. \$4.15; oz. \$9.10.



### CHRYSANTHEMUM



#### LEUCANTHEMUM - SHASTA DAISY

**CULTURE:** 21,000 seeds per oz/28 g. Sow January 15 - February 15th for perennial plant sales in May. Germinate at 60-65°F/16-18°C (no higher) for 20 days. Do not cover seed. Lower night temperatures to 50°F/10°C for best results. Grow plants cool. Use dwarf types for pots.

**853 Crazy Daisy** (24 in/61 cm) Large white shaggy, quilled, double flowers with yellow eyes, average 2.5 in/6 cm across. *Blooms June/July the second year.* For backgrounds or cutting. Pkt. (25 seeds) \$2.35; 250 seeds \$12.70; 1,000 seeds & over \$21.69 per M.

**846 Snow Lady** (10 in/25 cm) F1 hybrid. Dwarf Shasta. 4 in/10 cm pots. *Blooms first year.* Pkt. (25 seeds) \$3.75; 250 seeds \$13.30; 1,000 seeds & over \$42.38 per M.





Foxglove Camelot Mix



Campanula Rapido Blue



Echinacea PowWow Wild Berry



Gaillardia Arizona Apricot



Delphinium Pacific Giants Mix



## CAMPANULA



CULTURE: 198,000 seeds per oz/28 g. F1 hybrid. Recommended as a first year blooming 24 in/61 cm biennial cut flower. Attractive bell shaped flowers do not have saucers and last for 15 days after cutting. Strong multi stem branching plant. Sow Dec/Jan like pansies for June blooms. Germinate at 70°F/21°C for 14 days. Champion series is pelleted seed.

**P743J Champion Blue P743K Champion Pink**

Prices of Champion colors: Pkt. (10 pellets) \$3.75; 100 pellets \$10.50; 1,000 pellets & over \$70.61 per M.

**736A Clockwise™ Deep Blue** (8-12 in/20-30 cm) Campanula portenschlagiana. First year flowering, offers fast, uniform production. Pkt. (10 seeds) \$3.75; 100 seeds \$10.00; 1,000 seeds & over \$67.13 per M.

**736 Cup & Saucer Canterbury Bell Mix** (30 in/76 cm) Calycanthema. Bell-shaped flowers with a flat base or saucer, rose, white rose, white and blue. 120,000 seeds per oz/28 g. Pkt. (100 seeds) \$2.35; 1/4 oz. \$6.80; oz. \$27.20.



## CAMPANULA CARPATICA

CULTURE: Sow indoors in greenhouse, Dec/Jan. like pansies for April blooms. Sow tiny seeds 1/16-1/8 in/1.5-3 mm deep in rows. Press seed into soil, but do not cover as seeds need light to germinate. Germinate at 65-72°F/18-22°C for 14 to 30 days. Transplant seedlings about 30 days after germination into 3-4 in/8-10 cm pots or paks in groups of 3-5 seedlings per pot - from Feb. until June. Grow at 55-60°F/13-15°C air temps, in loose, well-drained, slightly alkaline compost. Plants are daylength sensitive. To force early spring crops into flower, allow 12-14 weeks and use additional light to extend daylength to about 12.5 hours per day at 40W per sq metre. Crop time 4-5 months. Flowering time requires longer 14 hour days by March/April (20 weeks from seed). Hardiness zones 3-8. Transplant outdoors in late May. Pests and Diseases: Powdery Mildew, Rust, Thrips & Mites.

### RAPIDO

F1 hybrid. (5-7 in/13-18 cm) high plants are mounded in shape and spread 5-8 in/13-20 cm. Space 12-14 in/30-36 cm apart outdoors. Young plants have better vigor and uniformity which delivers better finished plants. Pelleted seed only.

**P742Y White P742Z Blue**

Prices for Rapido colors: Pkt. (10 pellets) \$3.25; 100 pellets \$7.05; 500 pellets \$23.55; 1,000 pellets \$40.05.



## FOXGLOVE (Digitalis)



CULTURE: 130,000 seeds per oz/28 g. (seed size varies). Sow indoors Feb.1st for May sales. Germinate @ 70°F/21°C soil temp. for 7 days. Press seed into surface. Grow plants cool at 50-60°F/10-15°C for 7 weeks. Divide plants in spring. Biennial. Protect plants above zone 5. Pelleted seed only.

**P887M Dalmatian™ Mix** (16 in/41 cm) Blooms first year. Dwarf tender perennial with hardiness to zone 5a (0°F/-17°C). Well branched plant for gallon pots. Pkt. (20 pellets) \$3.25; 100 pellets \$12.95; 500 pellets \$38.80; 1,000 pellets & over \$63.38 per M.

**P1540 Camelot™ Mix** (3.5 ft/1m) F1 hybrid. Blooms first year. Very uniform huge tubular florets with speckled throats. Rose, cream, lavender, white. Pkt. (20 pellets) \$3.25; 100 pellets \$11.35; 500 pellets \$34.00; 1,000 pellets & over \$52.24 per M.



## ECHINACEA (Rudbeckia)



CULTURE: 10,000 seeds per oz/28 g. Sow in rows or clumps outdoors in early May for fall bloom. Sow indoors March 15th for August blooms. Plants flower 16 weeks after seeding. Germinate at 70°F/21°C, 15-20 days. Drought tolerant, hardy zones 3-9.

### POWWOW®

(16 in/41 cm) Blooms first year. More flowers per plant.

**903D White** Pure white with yellow center

**903W Wild Berry**

Pkt. (10 seeds) \$4.75; 100 seeds \$40.35; 1,000 seeds & over \$186.97 per M.

**903A Bright Star** (18 in/46 cm) Lavender-pink, single gloriosa type 3 in/8 cm blooms. Pkt. (25 seeds) \$2.95; 250 seeds \$4.15; 1,000 seeds & over \$7.10 per M.

**903C Cheyenne Spirit** (22 in/56 cm) More blooms per plant. Shades of red, orange, cream, purple, yellow and scarlet. Pkt. (10 seeds) \$6.75; 100 seeds \$68.65; 1,000 seeds & over \$425.70 per M.

### PRAIRIE SPLENDOR®

(24 in/61 cm) Blooms first year from mid summer until fall. 3 weeks earlier than Bright Star. Extra large blooms like full sun.

**903E Rose Compact** Pkt. (10 seeds) \$3.50; 100 seeds \$27.35; 1,000 seeds & over \$169.48 per M.

**903B Deep Rose** Pkt. (10 seeds) \$3.50; 250 seeds \$20.40; 1,000 seeds & over \$50.64 per M.



## GAILLARDIA



CULTURE: 10,000 per oz/28 g. Sow anytime from April to August. Germinate at 80°F/27°C soil temp. for 21 days. Needs full sun. Blooms June/November. Crop time 7-10 weeks from transplant.

### MESA™

(16 in/41 cm) F1 hybrid. Blooms first year. Well branched upright plants. Drought tolerant. Use 4 in/10 cm pots.

**922R Red  
922Y Yellow**

**922P Peach Bicolor peach/red  
922X Bright Bicolor Gold/scarlet**

Prices for Mesa: Pkt. (25 seeds) \$4.35; 250 seeds \$27.45; 1,000 seeds & over \$84.32 per M.

### ARIZONA™

(12 in/30 cm) Blooms first year. Huge 3.5 in/9 cm early summer-fall flowering dwarf plant for gallon containers. Hardiness zones 2-10.

**922F Sun** Bicolor red/yellow, AAS Winner.

**922G Red Shades** Deep crimson

**922H Apricot** Pure apricot

Prices for Arizona: Pkt. (25 seeds) \$2.95; 100 seeds \$8.30; 1,000 seeds & over \$38.07 per M.



## DELPHINIUM



CULTURE: 10,000-18,000 seeds per oz/28 g. Freeze seed for 24 hrs. before sowing. Sow outdoors August 20th. Do not pinch plants. Add lime to soil each year. GREENHOUSE: Sow indoors from Jan-Feb.15th for spring sales. Germinate in cool sand at 54°F/12°C for 20 days. High soil temperatures will prevent germination. Grow seedlings at 60°F/16°C days, 50°F/10°C nights.

**877D Summer™ Stars** (10-12 in/25-30 cm) White flowers cover lacy leaves. Compact, well branched extra dwarf plant well suited as pot crop or in mixed containers. Blooms earlier with more heat tolerance. Can be grown as an annual. First year blooming perennial. Pkt. (25 seeds) \$3.05; 250 seeds \$11.50; 1,000 seeds & over \$36.62 per M.

### MAGIC FOUNTAINS

(30-36 in/76-90 cm) Blooms first year. Dwarf, wind tolerant. For cutting flowers or containers.

**868B Dark Blue/white bee 868E Pink/white bee  
868F Sky Blue/white bee 868H Cherry Blossom**

Prices for Magic Fountains colors: Pkt. (50 seeds) \$3.75; 250 seeds \$12.25; 1,000 seeds & over \$20.87 per M

### TALL PACIFIC STRAIN (Elatum)

**856 Pacific Giants Mix** (4 ft/125 cm) Blooms second year. Formula blend including dark violet, blue, rose shades, violet. Standard tall strain for cutting and plant sales. Best grown in well drained sandy soil. Pkt. (25 seeds) \$2.35; 250 seeds \$10.65; 1,000 seeds & over \$18.14 per M.

### BENARY'S PACIFIC GIANTS

(5 ft/153 cm) Blooms first year from a December greenhouse sowing, without vernalization. An improvement on the PACIFIC primary separate colors. Croptime 12 weeks for green plants; flowering containers 16 weeks; cut flower production 1-2 years.

**1740D Astolat** Raspberry rose & pink/dark bee  
**1740A Black Knight** Deep violet  
**1740B Galahad** Clear white  
**1740G King Arthur** Violet/white bee  
**1740C Benary's Mix** Ten color blend

Prices for Benary's Pacific colors & mix: Pkt. (25 seeds) \$3.75; 250 seeds \$12.25; 1,000 seeds & over \$20.87 per M.

### GUARDIAN™ HYBRIDS

(30-39 in/76-99 cm) An F1 hybrid breeding breakthrough. Uniform blooming plants are highly programmable. Excellent bloom production during short days for the cut flower market. Better than O/P's for greenhouse, high tunnels or field production. Thinner, stronger stems provide good post harvest handling. Blooms 6 weeks faster than O/P's. Harvest at 1/3 spike color.

**1907A Blue 1907C White 1907B Lavender  
1907G Guardian Mix** Blend of blue, lavender, white

Prices for Guardian colors & mix: 25 seeds \$7.60; 100 seeds \$24.35; 1,000 seeds & over \$136.89 per M.



Robinsons Giant Single Mix



Penstemon Electric Blue



Poppy Champagne Bubbles Mix



Rudbeckia Cherry Brandy



Sweet William Dynasty White Blush



Scabiosa Fama Deep Blue



Sweet William Dash Mix

## PENSTEMON (Beard Tongue)

CULTURE: 39,000 seeds per oz/28 g. Sow indoors March 1st. Freeze seed for 10 days before sowing. Germinate at 60°F/16°C for 20 days. Grow plants cool. Plants flower 14 weeks from seed. *Blooms first year.* Tender perennial Zone 6.

**902E Arabesque™ Red** (10-24 in/25-61 cm) F1 hybrid. Bicolor red 0.75 in/2 cm flowers blooms summer till frost. AAS Winner. Pkt. (25 seeds) \$5.25; 250 seeds \$47.40; 1,000 seeds & over \$125.60 per M.

**902A Electric Blue** (18 in/46 cm) Pkt. (25 seeds) \$3.50; 500 seeds \$31.90; 1,000 seeds & over \$42.31 per M.

## POPPY (PAPAVER)

CULTURE: Difficult to transplant - sow directly into peat pots, outdoors, May 1 - July in 75°F/24°C soil. Do not cover seed. Sow indoors March 1, reduce night soil to 60°F/16°C.

**1210B Pizzicato Mix** (24 in/61 cm) Wind tolerant. Large 8 in/20 cm blooms in red, pink, mauve, salmon, white and red with black centers. Pkt. (50 seeds) \$3.75; 250 seeds \$19.55; 1,000 seeds & over \$53.26 per M.

**1209 Wonderland Mix** (10 in/25 cm) Nudicaule. F2 hybrid for 4 in/10 cm pots or sales in paks. Large single 4 in/10 cm blooms, 10 months from seed. Shades of pink, orange, yellow and white. Biennial. Pkt. (50 seeds) \$2.50; 1,000 seeds & over \$11.26 per M.

**1209M Spring Fever™ Mix** (10-12 in/25-30 cm) Daylength neutral type produces multiple stems at one time. 5 color mix blooms late spring from a fall planting. Zones 2-7. Pkt. (50 seeds) \$3.35; 250 seeds \$10.30; 1,000 seeds & over \$17.56 per M.

**1211 Champagne Bubbles Mix** (15 in/38 cm) F1 hybrid. Biennial through zones 6a-8b (mid US). Frost tolerance to -10°F/-23°C. *Plants bloom first year* from seed, have strong stems, and improved colors. Primed seed. A mix of orange, pink, scarlet, white and yellow blooms with pale yellow centers. 50 seeds \$2.20; 250 seeds \$7.80; 1,000 seeds & over \$14.98 per M.

## PEROVSKIA (Russian Sage)

Upright 18-36 in/46-90 cm aromatic silver foliage produces a mass of small blue flowers on strong silver stems that ship easily. Sow Jan., 10th - one seed per 288 cell or 3 seeds per 128 cell. Cover seed with vermiculite to maintain a high moisture level for germination in 2-4 days until radical emerges - in soilless mix with a soil temp of 72°F/22°C. Keep seedlings moist and warm in plugs for 8 weeks, pinch before transplanting. Total crop time 20 weeks. Use growth regulator 3 or 4 times for bushy plants in gallon containers. Hardy to zone 4a. Heat tolerant. *Blooms first year.*

**1275E Blue Steel** Pkt. (10 seeds) \$4.75; 100 seeds \$29.75; 1,000 seeds & over \$250.02 per M.

## PYRETHRUM

CULTURE: 18,000 per oz/28 g. Sow March 1st for June blooms, or outdoors in July. Germinate in 75°F/24°C soil for 21 days. Plants produce single flowers first season from seed, then bloom May/June. Chrysanthemum/Daisy.

**1260 Robinsons Giant Single Mix** (30 in/ 76 cm) Best single, daisy flowered strain. Stems extremely strong. Red and pink shades. Pkt. (250 seeds) \$2.35; 1/16 oz. \$3.50; 1/4 oz. \$9.20; oz. \$26.20.

## RUDBECKIA (Fulgida/Hirta)

CULTURE: 25,000 seeds per oz/28 g. Sow indoors March 1st, alternate soil temperature from 65°F/18°C nights to 70°F/21°C days for 14-21 days. Press seed into surface. Grow seedlings and plants cool.

**1302 Goldsturm** (28 in/71 cm) Golden with dark discs. Blooms Aug-Sept., Zone 4. Primed Seed. Pkt. (25 seeds) \$3.75; 250 seeds \$24.95; 1,000 seeds & over \$42.56 per M.

**1258K Cherry Brandy** (24 in/61 cm) First ever red semi-hardy Rudbeckia from seed. Blooms all summer long. Hirta type zone 5. Pkt. (50 seeds) \$4.25; 250 seeds \$16.00; 1,000 seeds & over \$54.22 per M.

## SAXIFRAGA

CULTURE: 114,000 seeds per oz/28 g. Sow indoors December - June, allow 3-6 months to produce saleable plants which flower in March/April outdoors. Freeze seed for 72 hrs. before sowing to break dormancy. Germinate at 70°F/21°C for 15 days. Press seed into soil. Grow plants at 58-65°F/14-18°C for 9 weeks. Needs long daylength to flower. Likes partial shade or sun.

**P1830 Rocco Red** (3-5 in/8-13 cm) Saxifraga X arendsii makes a vigorous short stemmed plant that fills a container well. More uniform red color. Plants bloom second year. Hardy to Zone 4. Pkt. (50 pellets) \$3.75; 1,000 pellets & over \$24.38 per M.

## SCABIOSA

CULTURE: 2,000 per oz/28 g. Sow March 1st in peat pots at 70°F/21°C soil temp. (60°F/16°C nights) for 14-21 days. Sow outside in early June or Sept. Thin or transplant 12 in/30 cm apart in slightly alkaline soil with good drainage. Keep watered when hot.

**1309A Fama Deep Blue** (20 in/51 cm) Caucasica. Plants bloom from May to fall. Extra large blooms. Crop time: 288 plugs - 6 weeks; gallon pots - 12-14 weeks. Hardy through zones 3-7. Pkt. (10 seeds) \$4.95; 250 seeds \$61.65; 1,000 seeds & over \$151.96 per M.

## TRITOMA (Kniphofia/Torch Lily)

CULTURE: 9,000 seeds per oz/28 g. Sow indoors in Apr. at 80°F/27°C soil temp. or outdoors in June. To germinate, vary day/night soil temps. 65-70°F/18-21°C for 15 days. Grow plants cooler at 50°F/10°C. Sold green in paks.

**1347 Flamenco** (32 in/81 cm) Sow Jan. 15th for July blooms. Blend of cream, orange, yellow and red. Pkt. (25 seeds) \$2.75; 250 seeds \$17.80; 1,000 seeds \$52.82.

## VERONICA

CULTURE: 224,000 per oz/28 g. Should be sown outside where it blooms May 15. Excellent medium height rock garden perennial. It can be sown indoors Feb. 20th at 65°F/18°C for 16 days. Reduce soil temp. at night. Grow cooler at 45°F/7°C, 2 weeks after germination. Pelleted seed only.

**P1375B Blue Bouquet** (12 in/30 cm) *Blooms first year.* Flowers from late Spring throughout summer. Likes full sun. Increase soil fertility and moisture for longer stems. Pkt. (25 pellets) \$4.25; 250 pellets \$34.30; 1,000 pellets & over \$58.52 per M.

## SWEET WILLIAM (Barbatus)

CULTURE: 26,000 per oz/28 g. Sow indoors February 15th; April 15th outdoors. Blooms following summer. Plants self-seed. Sow 10-12 weeks before sale in pots. Germinate at 70°F/21°C for 10 days. Grow plants cooler at 50°F/10°C.

**P878C Rockin' Red** (18-24 in/46-61 cm) This dynamite red will keep perennial borders rocking for years. Lacy slightly scented flowers on long lasting plants. Reliably overwinters in zone 5 to assure multi-year performance. Pelleted seed only. 100 pellets \$32.00; 1,000 pellets & over \$143.91 per M.

**1352 Stokes Tall Double Mix** (18 in/46 cm) Choice extra double, large flowered mixture in bright color variations. Flowers 60% double the second year. Pkt. (300 seeds) \$2.50; 1/4 oz. \$6.80; oz. \$19.40.

## HYBRID SWEET WILLIAM

SWEET® 

F1 hybrid (18 in/46 cm) *First year blooming*, tender wind tolerant perennial - zone 7a (0°F/-15°C). Produces high yields of strong, upright stems. Fragrant cut flower. Very uniform, single flowered series with some frost and good heat tolerance. Taller growth 36 in/90 cm is possible from early, fall transplanted greenhouse plants. Pelleted seed only.

**P1822E Deep Pink** **P1822C Red**  
**P1822A Purple/White Bicolor** **P1822D White**  
**P1822B Black Cherry** **P1822 Sweet Mix**

Prices for Sweet colors & mix: Pkt. (30 pellets) \$4.75; 100 pellets \$10.65; 1,000 pellets & over \$47.84 per M.

## DOUBLE FLOWERED BARBATUS X CHINENSIS

DYNASTY

F1 hybrid (16-20 in/41-51 cm) Fully double lightly scented blooms look like mini carnations. Well branched plants have very strong, upright stems. Self cleaning. Excellent for massed beds or as a backyard cut flower. Heat tolerant hardy perennial to zone 6 (-10°F/-23°C; wind tolerant). Crop time: 12-13 weeks in late Spring/early Summer; 11-12 weeks for a late Summer/Autumn crop. Pelleted seed only.

**P1818D Red** **P1818E Rose Lace**  
**P1818F White Blush**  
**P1818 Dynasty Mix** Formula mix of Dynasty colors

Prices for Dynasty colors & mix: Pkt. (30 pellets) \$4.75; 250 pellets \$25.65; 1,000 pellets & over \$68.45 per M.

## DWARF SWEET WILLIAM

DASH®

(15-20 in/38-51 cm) Hardy perennial (-10°F/-23.3°C). No vernalization. Blooms Spring, Summer, Autumn the *first year.*

**P1819A Crimson** rose center **P1819 Mix**  
**P1819B Magician** rose/white shades

Prices for Dash colors & mix: Pkt. (30 pellets) \$5.75; 250 pellets \$40.10; 1,000 pellets & over \$107.06 per M.



Heuchera Melting Fire



Hollyhock Chaters Triumph Mix



Lavender Munstead Strain



Monarda Panorama Mix



Hibiscus Luna Pink Swirl

## EUCALYPTUS (Cinerea)

CULTURE: 42,000 seeds per oz/28 g. Tender perennial, hardy to only 25°F/-4°C in zones 9-11. Grow as an annual in the north. Sow Feb.15th for May pot sales. Germinate at 70°F/21°C for 14 days in a warm, humid area. Reduce temp to 45°F/8°C for 7 days until seeds sprout. Grow plants cool.

**1530A SilverDrop** (20 in/51 cm) Dwarf. Round silver blue-green leaves. Pkt. (25 seeds) \$3.75; 250 seeds \$15.65; 1,000 seeds & over \$51.78 per M.

## GAURA

Early blooming, compact, free flowering perennial *blooms first year* from a January sowing. Easy to grow no pinching necessary. Sell in 4-6 in/10-15 cm pots. Crop time 12-14 weeks (sowing to flower). Blooms 5 weeks from transplants. Drought tolerant. Germinate at suggested temp of 65-68°F. Garden height is 20 in/51 cm - spreads 12 in/30 cm. Likes full sun.

**1555 Sparkle White** Mounded compact plants with single 3.5 in/9 cm white flowers with a pink blush. Flowers June to Sept. Pkt. (25 seeds) \$4.50; 1,000 seeds & over \$86.11 per M.

## GYPSOPHILA

CULTURE: 34,000 per oz/28 g. Sow from May 1st until July 15th outdoors in beds 2 ft/60 cm apart. Germinate at 60°F/16°C soil temp. (shade summer sowings). Makes only 50% doubles from seed.

**962B Filou™ White** (6 in/15 cm) Compact Repens that blooms first year from seed. Crop time 15 weeks. Bushy plant for rock gardens, borders and containers. Pkt. (50 seeds) \$2.35; 250 seeds \$8.30; 1,000 seeds & over \$14.19 per M.

## HEUCHERA (Coral Bells)

CULTURE: 900,000 per oz/28 g. Sow indoors thinly March 1st, transplant in groups of 3 or 4 seedlings per pot. Sow outdoors, May 1st for blooms next May and June. For rock gardens and cutting.

**P983A Palace Purple** (16 in/41 cm) Dainty bell shaped blooms mature white to green on mahogany stems. Purple bronze foliage contrasts with silver or golden leaved plants. Pkt. (50 pellets) \$2.75; 250 pellets \$7.25; 1,000 pellets & over \$17.80 per M.

**P983M Melting Fire** (18 in/46 cm) Matures bright red curled leaves and coral florets. Crop time 20 weeks for pots. Pkt. (50 pellets) \$3.95; 250 pellets \$16.95; 1,000 pellets & over \$38.57 per M.

## LATHYRUS (Hardy Sweet Pea)

CULTURE: 600 seeds per oz/28 g. Sow indoors in peat pots March/April, or outdoors in May. Germinate cool at 60°F/15°C for 14 days. Grow cool. Blooms May/June.

**1030 Perennial Sweet Pea Mix** (3 ft/90 cm) Vigorous climber. Red, rose and white blooms. Pkt. (20 seeds) \$2.35; 1/4 oz. \$6.20; oz. \$16.55; 1/4 lb. \$66.20.

## HOLLYHOCK (Althaea)

CULTURE: 3,000 seeds per oz/28 g. Sow March 1st for perennial sales. Germinate 20 days in 60°F/16°C soil (higher temp. limits germ). Sow outdoors May-July. Blooms late June.

**990 Chaters Double Triumph Mix** (7 ft/2.1 m) Fully double. Rose, salmon, red, buff, yellow, maroon, white, scarlet. Pkt. (35 seeds) \$2.35; 1/4 oz. \$4.55; oz. \$12.20.

## HYBRID HIBISCUS

### LUNA™

(2-3 ft/60-90 cm) 2,835 seeds per oz/28 g. *Blooms first year*, 16 weeks from sowing. Seed should germinate in 5 days. Sow February 1st at 70°F/21°C, cover seed lightly. Grow plants at 68°F/20°C - needs 12 hours of light per day for flowering to begin. Does not need pinching. Plants like full sun and spread 2 ft/60 cm. Hardy to zone 5 (-20°F/-29°C). Impressive 6-8 in/15-20 cm blooms on bushy, well branched plants.

**1865C Red**  
**1865D Rose**

**1865E White**

Prices for Luna: Pkt. (10 seeds) \$7.95; 100 seeds \$60.55; 500 seeds \$283.75; 1,000 seeds & over \$476.66 per M.

**1865B Pink Swirl** 100 seeds \$60.55; 500 seeds \$283.75; 1,000 seeds & over \$476.66 per M.

## LAVENDER

Lavender is a tender perennial and should survive in areas that do not drop below -20° to -10°F/-29° to -12°C during the winter. CULTURE: Sow indoors in early April or outdoors April 15 - May 15th. Germinate @ 45-60°F/7-16°C for 4 or 5 days. Pre-chill seed for 24 hours before sowing. Press seed into the soil surface, do not cover - it needs light to germinate. Plug production will take 6-8 weeks. Transplant after 30 days into 4 in/10 cm pots - grow @ 60°F/15°C days and 52°F/9.5°C nights. Blooms late June-August. Tender perennial - Zone 5A.

**165D Lavance Deep Purple** (10 in/25 cm) *Blooms first year*. Deepest purple-blue color without bleaching. Strong branching, yields well during long daylength and does not break in shipping. Highly scented. 100 seeds \$8.80; 1,000 seeds & over \$36.58 per M.

**165B Lavender Munstead Strain** (12 in/30 cm) Dark blue dwarf strain with very fragrant blooms. Pkt. (100 seeds) \$2.35; 1/4 oz. \$27.65; oz. \$69.75; 1/4 lb. \$278.00.

## LUNARIA (Silver Dollar)

CULTURE: 1,500 seeds per oz/28 g. Sow in July to produce flat silvery seed pods the second year. Sow indoors April 1st at 70°F/21°C for 20 days. Flowers July-Sept.

**964 Biennis Alba** (3 ft/90 cm) Silver seed pod pouches do not appear until 2nd year. They are cut and dried. Pkt. (50 seeds) \$2.35; 1/4 oz. \$2.60; oz. \$3.45.

## MONARDA (Bee Balm)

CULTURE: 56,000 seeds per oz/28 g. Germinate at 60°F/16°C for 21 days, press seed into soil. Sow indoors February 15th. Sow outdoors spring or fall.

**914 Panorama Mix** (30 in/76 cm) Scarlet, pink, salmon and red 2 in/5 cm round, shaggy, semi double blooms. Blooms July/August. Leaves have mint aroma. Likes moist semi shaded soil. Pkt. (25 seeds) \$2.50; 250 seeds \$9.50; 1,000 seeds & over \$16.23 per M.

## MYOSOTIS (Forget-Me-Not)

CULTURE: 42,000 per oz/28 g. Sow outdoors June - August for blooms a year later. Year old field grown plants may stress in a hot early spring, becoming ragged, tall, overmature and discolored. GREENHOUSE: Sow December - January. Culture similar to pansy but not as hardy. Germinate in 54°F/12°C soil (no higher) for 10 days, in total darkness. Prefers moist location. 6-8 weeks from seed to sale in paks green. Excellent dwarf perennial shade plant for cutting. Blooms April to June. Mon Amie Blue = PVP.

**916A Mon Amie Blue** (8 in/20 cm) Use for florist 4.5 in/10 cm pots or 406 premium paks. Matures 3 months earlier than Blue Ball - *blooms first year*. Mounded plant habit. Total crop time 10 weeks. Pkt. (50 seeds) \$4.75; 250 seeds \$19.30; 1,000 seeds & over \$57.66 per M.

**916 Alpestris Blue Ball Ultramarine Strain** (8 in/ 20 cm) A special European strain for florist pots, greenhouse grown, formal bedding plant. Compact, ball shaped plants with masses of rich indigo blue flowers. Pkt. (100 seeds) \$2.50; 1,000 seeds & over \$2.84 per M.

## LUPINS

CULTURE: 1,200-1,500 seeds per oz/28 g. Freeze seed for 48 hrs., then soak seed for 24 hrs. in a damp newspaper. Sow indoors in peat pots February 15 - March 1st germinate and grow at 54°F/12°C for 20 days. Blooms May-June.

### GALLERY®

(20 in/51 cm) Best dwarf strain of lupins for gallon or quart containers, perennials or wind tolerant commercial cut flowers. Full 6 in/15 cm flower spikes. Coated seed.

**1047A White**      **1047B Blue/White**  
**1047C Yellow**    **1047D Rose/White**  
**1047E Red/White**    **1047 Mix**

Prices for Gallery colors & mix: Pkt. (40 seeds) \$3.95; 500 seeds \$40.20; 1,000 seeds & over \$57.46 per M.

## OENOTHERA (Evening Primrose)

CULTURE: 5,000 seeds per oz/28 g. Sow indoors January - February, 7-10 weeks before sale in paks. Chill seed 14 days before sowing. Germinate seed, alternating warmer day (75°F/24°C) and cooler night (60°F/16°C) soil temperatures for 14 days. Blooms June to August. Trailing plant habit.

**1270C Missouriensis - Sun Drops** (12 in/30 cm) Ground cover. Large 3 in/8 cm single Poppy-like, lemon yellow blooms cover compact plants. Pkt. (50 seeds) \$2.35; 250 seeds \$4.30; 1,000 seeds & over \$7.33 per M.

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## NEW HOME GARDEN RECOMMENDATIONS



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*Pg 20*



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*Pg 45*



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*Pg 22*



Rubillion

*Pg 37*



Hydra

*Pg 8*



Miniwarts

*Pg 46*



Skyhawk

*Pg 40*



SV3964PB

*Pg 40*



Roadster

*Pg 52*



TopHat Pink  
Begonia

*Pg 61*



Smiley  
Helianthus

*Pg 72*