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CERTIFIED



ORGANIC

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2009
Professional
Seed Catalog

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www.seedsofchange.com

OUR PLEDGE OF QUALITY

Our growers take the utmost care in all phases of your organic seed production. All seed is grown in accordance with the National Organic Program standards, and all varieties we carry are tested for high germination, purity and the absence of high-risk seed borne diseases. While product yields and performance will largely depend on your particular location and seasonal factors, we expect your satisfaction to always be assured.

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Your direct connection to experts from the Seeds of Change™ Research Farm. We will gladly work with you to address any grower needs or concerns.

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www.seedsofchange.com/market_growers

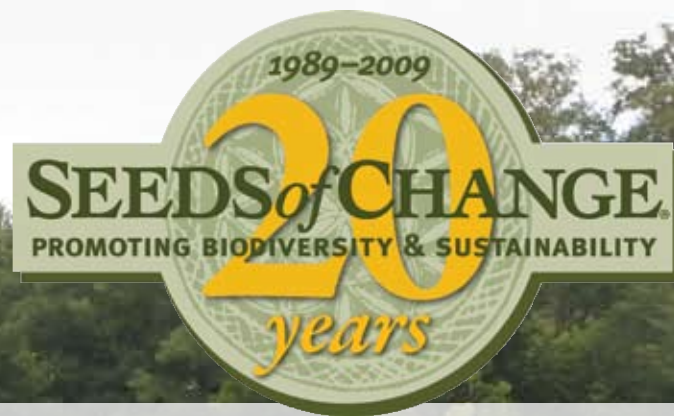
ON THE COVER

For quality crops and healthy fields, professional growers across the country start with Seeds of Change organic seed.

The crew at Roxbury Farm of Kinderhook, New York, harvests basil for their CSA members in the early morning air. Roxbury Farm's present owners are Jean-Paul Courtens and Jody Bolluyt. In the early 19th century, this farm was owned by Martin van Buren, 8th President of the United States, who later ran unsuccessfully for President on the Free Soil party ticket.

CERTIFIED ORGANIC

Seeds of Change™ is proud to be allied with organizations that include:



Dear Seeds of Change Grower:

Welcome to the 20th Anniversary Edition, 2009 Seeds of Change™ Professional Growers' Catalog. Experience shows that 100% organic seed, specifically bred for and used in mature organic farming systems, is inherently 'better seed.' This year's catalog features more than 75 new seed varieties, more detailed information within the all-important cover-crop section, and an entirely new section of essential accessories. If you are a past user of our products, your continued support is warmly appreciated. We hope the information and seed offerings in this catalog help to fulfill your professional organic growing needs.

Twenty years of history gives us pause to reflect on our past and seek ways to meet the growing needs of organic farmers in the future. We continue to embrace and act on our mission of Preserving Biodiversity and Promoting Sustainable Agricultural Practices. As part of our Anniversary celebration we are proud to be hosting Breeding Biodiversity, the first International IFOAM conference on Animal and Plant Breeding, in Santa Fe, New Mexico, on August 25-28, 2009. You are welcome to visit our website for details and join us for this exciting and important event.

While celebrating our 20th year, we find ourselves in a period of rapid growth. There is a growing demand in this largely conventional world for high quality organic products. As we grow, we have begun a concentrated effort to optimize our service and delivery systems. We have for instance a new website and a new call center number specific for professional growers. Our goal remains to provide you with superior certified organic seeds, steadfast service, outstanding research, and concrete information.

Over the next several years, we anticipate a co-evolutionary process with you to make this catalog 'THE' reference guide for organic and sustainable growers. We invite you to let us know what information we can include to help make organic growers and organic farming, in general, more successful. It could be something as simple as an inspiring quotation or more technical, agronomic information. We highly value your thoughts as we prepare to embark together on another successful growing season.

Thank you again for your continued support. We wish you all success for 2009.

The Seeds of Change Professional Growers' Team

NEW INTRODUCTIONS

New 2009 varieties bring the best to your field



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NEW THIS YEAR

We're delighted to introduce these brand-new, 100% organic open pollinated and hybrid selections in larger unit sizes, carefully trialed by our research staff and cleaned and tested to our exacting standards.

KEY CODES		SEED SUPPLIERS	
	Seeds of Change Original Variety		Mesa Maize
	Heirloom		Orsetti Seeds
	New This Year		Sakata Seed

AGRONOMIC TIPS

We're pleased to include helpful tips on planting, disease prevention and more, for most of our seed varieties. While we've drawn this information from our own experience and from university-based research, it is meant to be a general guide for you to use and adapt to your specific growing conditions. Varieties within kinds are placed in order by days to maturity.

THE SEEDS OF CHANGE™ UNCONDITIONAL GUARANTEE

We guarantee all of our products unconditionally. Our return policy is hassle-free. If any purchase fails to meet your standards or satisfaction, simply return it for an exchange or full and prompt refund of the purchase price (shipping costs may apply).

Artichoke *Cynara scolymus*



IMPERIAL STAR PVP

(80-90 days). Bred to facilitate annual production scheme, Imperial Star requires the shortest period of vernalization (and produces chokes in the first season). (~500 hours below 50° F). Rounded, nearly spineless bud size 3-4" with 6-8 mature buds per plant. Very serviceable artichoke. Treat as perennial to Zone 7, otherwise grow as an annual.

S21052	20 seeds	\$3.29	S21523	65 seeds	\$8.70
S20860	250 seeds	\$24.25	S20861	1,000 seeds	\$69.00
S20862	5,000 seeds	\$297.00	S20863	25,000 seeds	\$1,267.00

ARTICHOKE AGRONOMICS

SEED PACKETS CONTAIN ~20 SEEDS

GROWING CONDITIONS

Artichokes are a perennial in the thistle group of the sunflower (Composite) family. In full growth, under optimal conditions, the plant can spread to cover an area six feet in diameter and reach a height of three to four feet. They grow best in sun, in a deep, rich, loose, well-drained soil. The plants prefer cool weather over a long period, usually producing their best crops before the arrival of any summer heat.

PLANTING

Best sown indoors, about 8 weeks before last frost, germinate at 70-80°F. However, where winters average above 15°F, seeds can be direct seeded in the fall, ¼" deep into lightly moistened soil. As an annual, it will be important to ensure an adequate vernalization period to induce early budding.

HARVEST/STORAGE

Cut the edible buds at an immature stage, 1-1½" below the base of the bud, before they begin to open or spread, removing all buds of a suitable size. Remove all stems once all buds have been harvested to allow for new stem growth from the base of the plant. Remove field heat from the bud (take below 40°F) as quickly as possible to maintain good quality and storage life. Buds can be placed into refrigeration (32-33°F with relative humidity of 95-100%) where they can keep for a longer period of 2-3 weeks.

Asparagus *Asparagus officinalis*

UC-157 F-2

The standard bearer for yield and quality of fresh, all green spears from robust plants that have a high level of Fusarium- and rust-resistance. Spears are smooth, tight tipped, medium diameter, the most widely grown variety on the market. Some amount of female crowns.

S20867	30 crowns	\$38.00
S20868	125 crowns	\$119.00
S20869	750 crowns	\$525.00



JERSEY GIANT F-1

First male hybrid (90%) asparagus variety released by Rutgers University. Widely adaptable with excellent yields over a wide range of regions. High level of resistance to rust. Good resistance to Fusarium root and crown rot for high yield potential. Excellent spear size and color for fresh market (green spear/purple bracts). Very attractive presentation.

S20864	30 crowns	\$47.00
S20865	125 crowns	\$144.00
S20866	750 crowns	\$690.00

JERSEY KNIGHT F-1

Another excellent male hybrid (90%) from Rutgers University. Will do quite well in heavier soils and is widely adaptable over a wide range of regions. Yields are superb. Green spears with purple bracts.

S21520	30 crowns	\$47.00
S21521	125 crowns	\$144.00
S21522	750 crowns	\$690.00



SWEET PURPLE F-1

Burgundy-colored spear with a creamy green interior. Tightly compressed scales with tight, rounded tip. Later spring production protects from early frost damage. Sweet and tender, this eye-catching asparagus turns green when cooked.

S20870	30 crowns	\$48.00
S20871	125 crowns	\$119.00
S20872	750 crowns	\$525.00

ASPARAGUS AGRONOMICS

GROWING CONDITIONS

Asparagus is a long-lived perennial, so choose a permanent location before planting. It likes the sun but can accept a partially shady spot. While adaptable to a wide range of climates, rich fertilization is important, and a well-drained soil with a pH between 7.0 and 7.2 is a necessity for long-term success.

PLANTING

Be sure the soil has warmed to at least 50° F before planting, as the crowns do poorly in cold, wet soils. Create a furrow about 7-10 inches deep (at the shallow end for clay-like soils), and then place the crowns 12-14 inches apart within the furrow (closer in for Purple Passion). Closer spacing between crowns makes for thinner spears, conversely for thicker spears when spaced wider apart. While it is not necessary to spread the roots of the crown for successful establishment, doing so will make for better long-term root penetration. After planting, fill the furrow back to the original soil level, but do not compact the soil, keeping in mind the need for drainage. Under moist conditions spears should emerge within a week.

Do not harvest any spears in the first year. Allow them to grow whereupon the tips will open and create branches of ferns. These ferns accumulate carbohydrates providing nourishment to the roots for next year's spear production. Asparagus is quite drought-tolerant, so avoid over-watering, but maintain ground moisture throughout its first year of establishment. Do not cut down the ferns at the end of the first season. Mow or cut the old fern growth the following spring before new growth resumes, leaving the mulch to reduce any weed pressure. For each subsequent year, the ferns can be mowed in the fall after they have died naturally. Apply additional compost or aged manure each fall or spring.

HARVEST/STORAGE

The first year after planting crowns, asparagus can be harvested over a 3-4 week period in the mid-spring. Harvest by snapping a 7-9 inch spear with tight tips. Make sure that the asparagus patch is harvested clean (i.e., do not allow any tips to loosen or "fern out") or this could provide habitat for asparagus beetles to lay their eggs. Harvest in the morning when air temperatures are cool, immediately placing spears in conditions to remove field heat. Refrigerate at 38-40° F whereupon asparagus will keep for up to two weeks. Second year crowns can be harvested for 4-6 weeks. In the third year after planting, harvesting can go for 6-8 weeks. Stop the season's harvest when the diameter of most spears becomes less than 3/8 inch. After harvest is completed, snap off any remaining spears to ground level and allow for new spears to emerge, fern out and create a canopy.

PESTS, DISEASES & WEED CONTROL

Remarkably free of much pressure, inspection of the ferns may reveal chewing damage caused by asparagus beetles, whereupon you might apply pyrethrins. After planting, it is of importance to keep weeds under control with hand hoeing and/or mechanical cultivation.

Beans *Phaseolus vulgaris* (Unless otherwise noted)

GREEN BUSH

PROVIDER

(55-60 days). Versatile variety that will yield very well under a diversity of conditions. Produces 5-6" beans from purple seed, which tends to germinate better than white seed in the cooler soils of early plantings. Very popular medium green bean on a 15" compact plant.

S10820	pkt.	\$3.29	S21187	½ lb.	\$5.40
S17591	1 lb.	\$8.70	S17592	5 lb.	\$34.40
S17595	25 lb.	\$139.75	S17596	50 lb.	\$262.50

BLUE LAKE BUSH

(55-60 days). The best tasting green bean in our field trials. Yields tender, sweet, 6-7", round, stringless, straight green pods on a vigorous and productive, yet compact 15-18" tall bush.

S14121	pkt.	\$3.29	S21188	½ lb.	\$6.40
S15338	1 lb.	\$10.90	S15727	5 lb.	\$45.00
S17408	25 lb.	\$135.00	S16387	50 lb.	\$199.00

FLACO

(55 - 60 days). Multiple pickings yield plentiful 4" long green, round pods of a smaller sieve (diameter). Pod position placed medium to high on this 20" plant. Beans remain tender and straight, holding for a long harvest period. Smaller size of this bean will draw customers in and superior taste will bring them back.

S21054	pkt.	\$3.29	S21189	½ lb.	\$6.00
S17425	1 lb.	\$12.00	S17432	5 lb.	\$51.00
S17446	25 lb.	\$143.50	S17453	50 lb.	\$230.00



PALERMO

(55 - 60 days). Sturdy 24" plant with 5-5½" green, round pods produces over an extended harvest. Slower seed development inside the bean makes for a long harvest window. Beans are held well off the ground on this larger than average plant.

S21056	pkt.	\$3.29	S21190	½ lb.	\$6.50
S17412	1 lb.	\$11.00	S17422	5 lb.	\$49.00
S17434	25 lb.	\$139.75	S17443	50 lb.	\$245.00

BUSH ITALIAN FLAT POD

ROMA II

(55-60 days) Full, rich flavor packaged in a smooth 5-7" Romano-type, flat green bean on a sturdy determinate plant. This selection is an improvement over the original bush Romano.

S17165	pkt.	\$3.29
S21196	½ lb.	\$9.00
S21197	1 lb.	\$15.00
S21198	5 lb.	\$62.00
S21199	25 lb.	\$205.00
S21524	50 lb.	\$305.00



BEAN AGRONOMICS

SEED PACKETS CONTAIN ~70 SEEDS (EXCEPT WHERE NOTED)

GROWING CONDITIONS

Beans are a frost-sensitive, warm-season crop. They grow best on silt-loam or loam soils with a pH above 5.8. Avoid compacted or crusted soils. Seed into moist soil and avoid irrigation until emergence to avoid soil crusting or seed rot. Avoid water-stress during bloom and pod set.

PLANTING

Always direct-seed beans. Plant in spring when soils have warmed. Inoculate seed with Rhizobium bacteria prior to planting to enhance nitrogen availability. Germination is best at 70-85°F. Plant at shallow depths in cooler periods and deeper when temperatures are high. Use our new Planting Guide for Vegetables (p34-35) to determine seeding depth, spacing and rates. Average emergence is 6-12 days.

HARVEST/STORAGE

Harvest beans when full size, but before they become tough. Pick frequently to encourage continuous production. Market fresh or store at 40-45°F and 95% RH. Chill-injury may occur below 38°F.

PEST AND DISEASE PREVENTION

Seed rot and seedling disease due to damping-off pathogens may be a problem in cool soils. Shallow plantings into 60°F or higher soils will reduce risk of seedling disease. Avoid or minimize potentially devastating white mold by practicing rotation with cereal crops and irrigating early in the day to allow drying of foliage. Bacterial blights of beans can be controlled through crop rotation and composting of crop debris. Encourage beneficial insect activity by planting cilantro and other umbels. Seed late in season and release *Pediobius foveolatus* wasps for suppression of Mexican bean beetles.

FILETS/HARICOT VERT



TAVERA

(55-60 days) Excellent haricot vert of stringless, extra-slimmer 4-5" beans. Medium sized 15-20" plants produce very fine dark green pods that remain slender for better harvest uniformity. Your chef accounts may even elevate this bean to calling card status.

\$21034	pkt.	\$3.29
\$21192	½ lb.	\$7.00
\$17599	1 lb.	\$10.40
\$17601	5 lb.	\$47.00
\$17604	25 lb.	\$197.40
\$17607	50 lb.	\$355.15

MAXIBEL

(50-55 days) Pencil-thin, gourmet (haricot vert), stringless 7" green beans with excellent flavor produced on upright 24" plants that yield prolifically. Hand pick beans at anytime from slender to full size depending on your customers' preferences. They are truly a cut above the rest.

\$14279	pkt.	\$3.29	\$21191	½ lb.	\$7.90
\$16445	1 lb.	\$14.10	\$16446	5 lb.	\$57.00
\$19830	25 lb.	\$225.00	\$17597	50 lb.	\$385.00

YELLOW BUSH/SPECIALTY

GOLD RUSH

(50-55 days) Very early, strongly determinate 16-20" plant produces one main, heavy picking of 5-5½" round, golden-yellow, straight, tender and tasty pods. A superb fresh market choice.

\$21055	pkt.	\$3.29	\$21193	½ lb.	\$7.90
\$17406	1 lb.	\$11.95	\$17411	5 lb.	\$42.50
\$17417	25 lb.	\$185.00	\$17420	50 lb.	\$340.00



ROC D'OR

(50-55 days) Classic tender, crisp variety of French influence with honest color and a delicious buttery flavor contained within a 6-9" bean. Upright 16-20" plant grows from a black seed.

\$10825	pkt.	\$3.29	\$21194	½ lb.	\$6.00
\$15156	1 lb.	\$12.50	\$15157	5 lb.	\$51.00
\$17435	25 lb.	\$189.00	\$17439	50 lb.	\$299.00

ROYAL BURGUNDY

(50-55 days) Deep-purple pods are delicious, round, and stringless, supported by a 16-20" stocky and durable bush. Prolific producer, even in cooler conditions. Though color fades when cooked, this bean is a show-stopper on the farmstand.

\$14980	pkt.	\$3.29	\$21195	½ lb.	\$5.55
\$15337	1 lb.	\$8.10	\$15728	5 lb.	\$24.25
\$17449	25 lb.	\$101.25	\$17456	50 lb.	\$184.00



POLE



BLACK SEEDED BLUE LAKE

Stringless green bean, exceptional for fresh eating, as well as canning and freezing. Vigorous vines produce abundant yields of straight 6-7" beans. Much more productive overall than bush beans.

\$10826	pkt.	\$3.29	\$21532	½ lb.	\$8.00
\$11481	1 lb.	\$13.00	\$11482	5 lb.	\$43.00
\$15327	25 lb.	\$179.00	\$11484	50 lb.	\$275.00

KENTUCKY WONDER

Introduced in the mid-1880s, Kentucky Wonder comes from the state given in its name. Our classic brown-seeded strain yields 8" silvery green and fleshy pods with a unique and distinctive flavor.

\$10618	pkt.	\$3.29	\$21561	½ lb.	\$7.15
\$12655	1 lb.	\$10.35	\$12656	5 lb.	\$46.00
\$12657	25 lb.	\$187.45	\$12658	50 lb.	\$356.00



ITALIAN

This bean surpassed all others in our trials as the most highly rated for flavor and tenderness. It is extremely productive as its vines bear wide, 7-8" long, flat pods. We highly recommend this one.

\$10956	pkt.	\$3.29	\$21533	½ lb.	\$9.00
\$21534	1 lb.	\$16.00	\$21535	5 lb.	\$52.00
\$21536	25 lb.	\$205.00	\$21537	50 lb.	\$305.00

VEGETABLE SOYBEAN *Glycine max*



SAYAMUSUME EDAMAME

(75-85 days) Very productive and flavorful edamame of buttery sweetness on a 16-20" plant. Vivid green pods have three large beans each. A highly nutritious bean that is rich in protein, calcium, potassium, phytoestrogens, and many vitamins. Light pubescence on the pods. (~150 seeds/pkt.)

\$15907	pkt.	\$3.29
\$21228	½ lb.	\$10.75
\$21229	1 lb.	\$18.75
\$21230	5 lb.	\$85.00
\$21231	25 lb.	\$379.00
\$21531	50 lb.	\$675.00

FAVA BEANS *Vicia faba*



BROAD WINDSOR

(65-85 days) Classic English fava with strong upright plants 24-28" in height. The pods bear 4-7 large and tender light, green seeds for fresh shelling. When seeds are more mature, they become brown and are excellent in soups or made into hummus. Cooler weather crop. (~15 seeds/pkt.)

\$21090	pkt.	\$3.29
\$21224	½ lb.	\$9.00
\$21225	1 lb.	\$14.00
\$21226	5 lb.	\$44.00
\$21227	25 lb.	\$180.00
\$21530	50 lb.	\$275.00



JACOB'S CATTLE



PAINT DRY

BUSH DRY BEANS

JACOB'S CATTLE

(80-100 days) High-yielding beauty with an ancient origin, similar to the southwest Anasazi. Popular in the shorter, cooler or long-day environments. Works wonderfully as a baking bean.

\$10954	pkt.	\$3.29	\$21185	½ lb.	\$5.00
\$21182	1 lb.	\$8.50	\$21178	5 lb.	\$34.00
\$21186	25 lb.	\$146.00	\$21525	50 lb.	\$259.00

PAINT DRY

(100-110 days) A cousin of the Yellow Eye, though with three distinct patterns. A drought resistant dry bean,

ideal for making jewelry, though primarily used in soups and other vegetarian dishes.

\$14705	pkt.	\$3.79	\$21204	½ lb.	\$5.00
\$21205	1 lb.	\$8.50	\$21206	5 lb.	\$34.00
\$21207	25 lb.	\$146.00	\$21527	50 lb.	\$259.00

RED MEXICAN

(85-100 days) An ancient red kidney-type bean, also known as "Montezuma's Red." Highly adaptable, it's a reliable producer of reddish-brown seeds, great for baked beans and chili dishes. Produced on a compact, determinate 12-15" plant.

\$10959	pkt.	\$3.29	\$21200	½ lb.	\$5.00
\$21201	1 lb.	\$8.50	\$21202	5 lb.	\$34.00
\$21203	25 lb.	\$146.00	\$21526	50 lb.	\$259.00



CANNELLINI SOUP



SCARLET EMPEROR



AZTEC HALF RUNNER

ITALIAN SHELL BEAN

CANNELLINI SOUP

(80-85 days) First grown in the US around the 1820s. The large kidney-shaped beans are perfect when used in minestrone. Their nutty flavor make for delicious Italian-style baked beans. Half-runner plant grows well, even in cooler weather. (~20 seeds/pkt.)

\$10622	pkt.	\$3.29	\$21220	½ lb.	\$9.45
\$21221	1 lb.	\$14.30	\$21222	5 lb.	\$58.00
\$21223	25 lb.	\$225.00	\$21529	50 lb.	\$387.50

HALF-RUNNER BEANS *Phaseolus coccineus*

SCARLET EMPEROR

(90-95 days) Time honored as an ornamental or when used in traditional ceremonies as done by the indigenous cultures of the southwest US or Mexico. Extraordinary large cines produce stunning scarlet flowers. The large, stringless pods of savory, purple and black mottled beans up to 1" in length are delicious eaten fresh. Often called 'jewelry beans.' (~20 seeds/pkt.)

\$10955	pkt.	\$3.29	\$21216	½ lb.	\$14.00
\$21217	1 lb.	\$26.00	\$21218	5 lb.	\$110.00
\$21219	25 lb.	\$450.00			

AZTEC HALF-RUNNER

(60-75 days) Plump, large white beans make for a hearty, thick soup. The 6-7" pods are particularly succulent and delicious when eaten either raw or cooked. A must bean to have as a runner. (~20 seeds/pkt.)

\$10816	pkt.	\$3.79	\$21790	½ lb.	\$7.90
\$11474	1 lb.	\$14.00	\$11475	5 lb.	\$56.00
\$11476	25 lb.	\$220.00	\$12797	50 lb.	\$365.00



PAWNEE SHELL



TIGER'S EYE

PAWNEE SHELL

(85-95 days) Unique patterns create joyfulness at picking time. Deeply marked seeds are brown on beige with an appearance similar to Jacob's Cattle, though with more frequency of smaller spots.

\$14125	pkt.	\$3.29
\$21212	½ lb.	\$5.00
\$21213	1 lb.	\$8.50
\$21214	5 lb.	\$34.00
\$21215	25 lb.	\$146.00
\$21528	50 lb.	\$259.00

TIGER'S EYE

(85-95 days) Beautiful orange, dry bean with dark-maroon swirling stripes resembling a tiger's eye. It has similarity in taste to a pinto, but creamier in texture. Easy to grow and harvest. Can also be picked at an earlier stage and eaten as a snap bean.

\$17510	pkt.	\$3.29
\$21208	½ lb.	\$12.00
\$21209	1 lb.	\$19.00
\$21210	5 lb.	\$74.00
\$21211	25 lb.	\$259.00

Beets *Beta vulgaris*

RED TABLE

BORO F-1

(50-55 days). Extremely smooth, very dark purple beet can be harvested early for fresh market minis or later as a 3" round root for marketing or whole pickling. Excellent keeper. 12" tops, lush and tender, are outstanding when steamed. Good field resistance to Cercospora and Alternaria.

\$21538	pkt.	\$3.29	\$20346	1,000 seeds	\$8.00
\$17436	10,000 seeds	\$58.00	\$17452	50,000 seeds	\$194.00
\$17459	100,000 seeds	\$248.00	\$17462	500,000 seeds	\$890.00



PRONTO

(50-60 days). Classy, burgundy 4" flattened globe to round shaped beet with a deep red interior. Lush, dark green leaves with deep-red petioles for great definition. Faster than many other red beets, but with a long harvest window.

\$16625	pkt.	\$3.29
\$17475	1 oz.	\$7.05
\$16658	¼ lb.	\$24.00
\$16662	1 lb.	\$89.00
\$17483	5 lb.	\$396.00
\$17490	10 lb.	\$755.00



SHIRAZ TALL TOP

(55-60 days). Dual purpose beet selected for its lush, fast-growing tops and dark red, flavorful, uniformly round 3-4" roots. Grow it for the tops, but keep it for its vibrant roots. Selected for resistance to Rhizoctonia dry rot, resulting in incredibly smooth skins. More uniform and attractive than Red Ace in our trials.

\$16947	pkt.	\$3.29
\$17495	1 oz.	\$5.90
\$17500	¼ lb.	\$18.50
\$17506	1 lb.	\$62.65
\$17511	5 lb.	\$248.00
\$17620	10 lb.	\$480.00

DETROIT DARK RED

(60-70 days). A true classic, this smooth, globe-shaped, deep red 2-4" beet has large, full savoyed tops with deep red petioles. Rated highest for flavor in our taste tests. Earthy and sweet.

\$10915	pkt.	\$3.29	\$11544	1 oz.	\$5.00
\$11545	¼ lb.	\$16.00	\$14386	1 lb.	\$59.00

MONOGERM

MONETA

(60-65 days). Round, dark purple 3-4" beet is a monogerm seed (beets can have as many as four embryos per "seed"). Precision seeding of these types eliminates the need for thinning and produce beautifully uniform roots. Great for fresh market, processing and storage. Flavorful, 14" tops.

\$21540	pkt.	\$3.29	\$20287	1,000 seeds	\$9.50
\$17471	10,000 seeds	\$49.00	\$17474	50,000 seeds	\$196.00
\$17478	100,000 seeds	\$350.00	\$17482	500,000 seeds	\$1,590.00

SPECIALITY

BULL'S BLOOD

(35 days leaf/60 days roots). Beautiful, burgundy leaves. Add pizzazz to any salad mix. Leaf color intensifies as the plant matures, but the tops can look sharp even when harvested under low light conditions. The roots, best harvested young, are attractive as well with some zoning or candy-stripping throughout the interior.

\$16130	pkt.	\$3.29
\$17644	1 oz.	\$5.45
\$18906	¼ lb.	\$12.75
\$17649	1 lb.	\$42.00
\$17653	5 lbs.	\$185.00
\$20940	25 lbs.	\$875.00



TOUCHSTONE GOLD

(45 baby size-60 days full size). Very attractive green leaved tops, sharpened by yellow stems, will stand out in salad mixes. Tops are mild-flavored when cooked. These sweet, round golden roots appear in all the most popular farmer's markets and farmstands.

\$21058	pkt.	\$3.29
\$17662	1 oz.	\$11.00
\$17667	¼ lb.	\$36.00
\$17671	1lb.	\$125.00
\$17683	5 lb.	\$595.00



CHIOGGIA

(55-60 days). Cut open the root and get an internal peppermint stick. This is an improved selection that originally came from Italy in the 1800s. A very popular fresh market choice. Light green tops with light red exterior on the roots make this beet very distinctive.

\$11083	pkt.	\$3.29
\$20873	1 oz.	\$5.75
\$20874	¼ lb.	\$13.00
\$20875	1lb.	\$41.00
\$20876	5 lb.	\$179.00
\$20877	25 lb.	\$830.00



Broccoli

Brassica oleracea var. italica



NUTRI-BUD

(55-70 days). Early-maturing variety, 16-20" tall, developed in our breeding program by Dr. Alan Kapuler. Unusually high in free glutamine, a building block of protein and an important healing nutrient. Large central 6-8" head with medium-sized side shoots on vigorous plants. Harvests of mature heads can extend over a 2 week period. Will tolerate some cold weather.

\$11073	pkt.	\$3.29
\$15174	1 oz.	\$12.00
\$15179	¼ lb.	\$35.00
\$17521	1 lb.	\$117.00
\$17526	5 lb.	\$494.00

BEET & CHARD AGRONOMICS

BEET SEED PACKETS CONTAIN ~90 SEEDS

GROWING CONDITIONS

Beets and chard may be grown from early spring through fall and year-round in mild climates. They are tolerant of a broad range of growing conditions and soil types, but grow best on silt-loam or sandy-loam soils with a pH of 6.0 or higher. Maintain uniform soil moisture for best quality roots or leaves. Irrigate frequently during emergence to avoid soil crusting, but avoid the waterlogging of the soil.

PLANTING

Beets and chard are most commonly direct-seeded, but may be transplanted. Direct-seed beginning in early spring when the soil warms. Beets may be sown approximately every two weeks throughout the growing season for a continuous supply. Use our new Planting Guide for Vegetables (p34-35) to determine seeding depth, spacing and rates.

HARVEST/STORAGE

Beet roots may be pulled and bunched with leaves on (3-5 beets/bunch is common) or topped and stored for longer periods. Harvest chard leaves when 10-18" long and sell in bunches. Cool or hydro-cool post harvest. Both crops are best marketed fresh for optimum leaf and root quality, but store well at 32°F and 98-100% RH.

PEST AND DISEASE PREVENTION

Practice crop rotations with all beets and chards to prevent Cercospora leaf spot and other soil-borne diseases. Also avoid rotation with potatoes, as the same organism responsible for scab on potatoes can affect beets as well. Shiraz Tall Top beets have been selected for, and demonstrated resistance to, Rhizoctonia dry rot, a fungal disease that causes black scarring on the root surface. Use row covers to exclude leaf-hoppers and prevent transmission of beet curly top virus.

EARLY GREEN

(60-70 days). Short-season variety produces a large, tight 5-7" head followed by an abundance of tasty side shoots. Some variability in maturity makes this a good variety for the market grower preferring an extended harvest. 18-24" plant.

\$10947	pkt.	\$3.29	\$12884	1 oz.	\$10.50
\$12885	¼ lb.	\$32.00	\$12887	1 lb.	\$113.00
\$17519	5 lb.	\$485.00			

CALABRESE

(60-90 day). Came across the pond from the old country along with the Italian immigrants of the 1800s. Calabrese continues to produce dozens of delicious side shoots up until the first hard frost.

\$10933	pkt.	\$3.29
\$15161	1 oz.	\$7.50
\$15168	¼ lb.	\$17.75
\$21233	1 lb.	\$49.00
\$21542	5 lb.	\$225.00



FIESTA F-1

(65-70 days). High, dark blue-green 6-7" dome on a medium compact 18-20" plant. Suitable for summer and fall production, as it is tolerant of temperature fluctuations.

\$20289	pkt.	\$3.29	\$17524	1,000 seeds	\$19.50
\$17530	5,000 seeds	\$94.00	\$17535	25,000 seeds	\$389.00
\$17540	50,000 seeds	\$675.00	\$17546	100,000 seeds	\$1,260.00

BELSTAR F-1

(65-70 days). Blue-green 6-8" dome on a medium compact 18-20" plant. Widely adapted and suitable for spring, summer, and fall production. Prolific side shoots for ample second cuttings. Moderate resistance to Downy Mildew.

\$20288	pkt.	\$3.29	\$17504	1,000 seeds	\$19.50
\$17509	5,000 seeds	\$94.00	\$17518	25,000 seeds	\$389.00
\$17522	50,000 seeds	\$675.00	\$17527	100,000 seeds	\$1,260.00

• BROCCOLI AGRONOMICS, SEE PAGE 10.

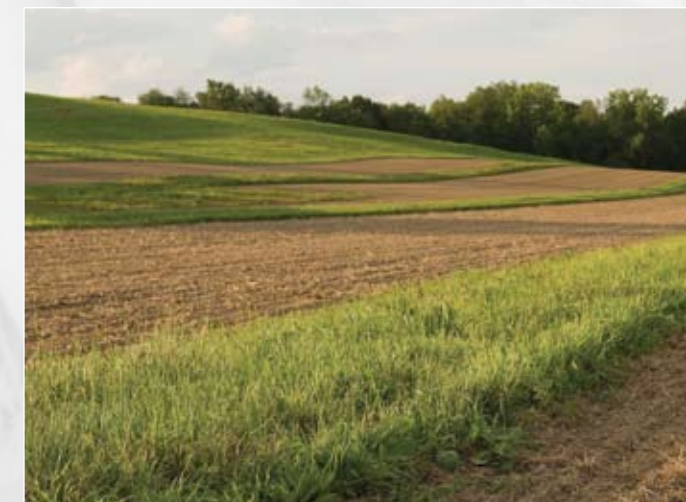



Photo by Brian Kimmel, Optic Nerve Productions



SPECIALTY BROCCOLI

SANTEE SPROUTING F-1  *Brassica rapa*
(72-115 days). This new unique variety has burgundy red florets that are great for bunching or selling for a stir fry mix. Planted in August, Santee will produce an abundance of small spears from the end of February to early summer. A unique color and mild flavor will make this a favorite with your market buyers. Winter hardy down to 18°F.

\$21803	pkt.	\$3.29	\$21804	1,000 seeds	\$88.00
\$21805	5,000 seeds	\$365.00	\$21806	25,000 seeds	\$1,455.00
\$21807	50,000 seeds	\$2,450.00	\$21808	100,000 seeds	\$4,250.00



BROCCOLI RAAB *Brassica rapa*
(40-60 days). Broccoli, turnip, and radish flavors harmonize this fast growing, cool-weather 12" plant that is best eaten raw (salad mixes) or lightly sautéed. Prized in Italy, the stems from small buds, surrounded by tender young leaves that make beautiful and attractive bunches when cut.

\$14357	pkt.	\$3.29
\$15753	1 oz.	\$7.50
\$15759	¼ lb.	\$13.00
\$17999	1 lb.	\$43.00
\$18009	5 lb.	\$195.00



Sang Lee Farm in Long Island, New York.
Photo by Brian Kimmel, Optic Nerve Productions

BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, CHINESE CABBAGE, KALE & KOHLRABI AND ALL BRASSICA AGRONOMICS

SEED PACKETS CONTAIN ~100 SEEDS

GROWING CONDITIONS

All Brassica oleracea, napus & rapa crops are relatively cold hardy, and perform best in cool, moist and moderate climates. They grow best on fertile, well-drained, loam soils, with high organic matter and a pH of 5.5-7.2. Best production requires adequate soil moisture throughout the growing period. Excessively high temperatures for broccoli and cauliflower may result in premature head formation, the presence of leaves in heads, or development of loose heads. None of the crops in this group thrive when daytime temperatures exceed 85°F.

PLANTING

All of these crops may be direct seeded or transplanted. Direct-seed when outdoor temperatures are above 50°F (optimum 60-65°F). Use our new Planting Guide for Vegetables (p34-35) to determine seeding depth, spacing and rates. Transplant: Transplant 5-6 week old seedlings. Harden off for 5-7 days prior to transplanting. Maintain greenhouse temperatures above 45°F night and below 85°F day. 1 oz. seeds will give approximately 8,000 row ft. of transplants at spacing plants 18" apart.

HARVEST/STORAGE

Harvest broccoli & cauliflower heads and side shoots when buds are still small and tightly closed. Harvest cabbage, Chinese cabbage and Brussels sprouts when heads are relatively young and firm. Harvest kohlrabi when root/stem is 4-5" in diameter. Harvest kale continuously starting at the bottom of the plant while the leaves are still young and healthy. If necessary, store all Brassicas at 32°F and 90-95% RH.

PEST AND DISEASE PREVENTION

Practice 2-4 year crop rotations between all Brassicaceae species. Maintain a pH at or above 7.2 for suppression of club root (*Plasmodiophora brassicae*). Plant disease-free seed to avoid seed borne pathogens such as black rot (*Xanthomonas campestris*) and black leg (*Phoma lingam*). Encourage beneficial insect activity for suppression of aphids, and control aphid outbreaks with insecticidal soap. Control cabbage worms and loopers with Bt, available commercially as Dipel. Insect pressure on fall-harvested brassicas is typically not as heavy as on spring crops. Floating row covers used from the day of planting will protect from heavy flea beetle damage on spring crops.

NOTE THE LOCATIONS FOR THE FOLLOWING AGRONOMICS:

- BROCCOLI, PAGE 9
- BRUSSELS SPROUTS, PAGE 11
- CABBAGE, PAGE 11
- CAULIFLOWER, PAGE 14
- CHINESE CABBAGE, PAGE 14
- KALE, PAGE 24
- KOHLRABI, PAGE 25



Brussels Sprouts

Brassica oleracea

NAUTIC F-1 

(140-155 days). Mid to late high-yielding variety produces fine, round, dark green sprouts with a small stem attachment. Stands well in the field. (~25 seeds/pkt.)

\$21543	pkt.	\$3.29
\$17554	1,000 seeds	\$64.00
\$17561	5,000 seeds	\$266.00
\$17570	25,000 seeds	\$989.00
\$17574	50,000 seeds	\$1,800.00
\$17578	100,000 seeds	\$3,275.00

Cabbage *Brassica oleracea*

GREEN

FARAO F-1 

(60-65 days). Very early, fresh market, 2½ - 3½ lb. round green cabbage with short, dense cores. Crisp, peppery-sweet leaves for great taste. Holds well in the field without splitting. Suitable for very dense planting. Thrips resistant.

\$20292	pkt.	\$3.29	\$17590	1,000 seeds	\$29.00
\$17594	5,000 seeds	\$129.00	\$17598	25,000 seeds	\$545.00
\$17602	50,000 seeds	\$990.00	\$17606	100,000 seeds	\$1,875.00



INVENTO F-1 

(65-70 days). Early, fresh market, perfectly round, 3-4 lb. dense green heads with fine, crisp texture. Good wrapper leaves and short internal core. Resists Fusarium yellows and tip burn. Excellent for close spacing in production.

\$20293	pkt.	\$3.29
\$17572	1,000 seeds	\$29.00
\$17577	5,000 seeds	\$129.00
\$17581	25,000 seeds	\$545.00
\$17585	50,000 seeds	\$990.00
\$17589	100,000 seeds	\$1,875.00

SHELTON F-1 

(150-155 days). Flattened round, very large, 7-9 lb. dense green cabbage suitable for kraut processing and/or fresh market with long term storage capability. Good internal structure with a short core, substantial wrapper leaves, and very good holding ability in the field. Tolerant to tip burn.)

\$20349	pkt.	\$3.29	\$17600	1,000 seeds	\$30.00
\$17605	5,000 seeds	\$134.00	\$17613	25,000 seeds	\$575.00
\$17617	50,000 seeds	\$1,045.00	\$17622	100,000 seeds	\$1,965.00

RED

RED EXPRESS 

(60-68 days). An extra early compact 2-4 lb. red cabbage comes on compact plants. Solid heads show good appearance and when eaten give very good flavor. Reasonably split resistant. More suitable for northern latitudes or higher elevations when deeper in the south.

\$21544	pkt.	\$3.29	\$21234	1 oz.	\$14.00
\$21235	¼ lb.	\$34.00	\$21236	1 lb.	\$119.00



INTEGRO F-1 

(90-95 days). Productive main season hybrid for fresh market. Suitable for medium-long storage, if sown late. Compact, uniform 3-5 lb. heads with short cores. Attractive red color throughout. Recommended for growing where high plant densities are needed.

\$21545	pkt.	\$3.29
\$18910	1,000 seeds	\$43.00
\$18911	5,000 seeds	\$197.00
\$18913	25,000 seeds	\$780.00
\$18914	50,000 seeds	\$1,325.00

BUSCARO F-1 

(105-110 days). Versatile and beautiful, round, 5-8 lb. dark red cabbage suitable for fresh market, processing, and short storage. Sweet flavor with great internal color, resistant to tipburn.

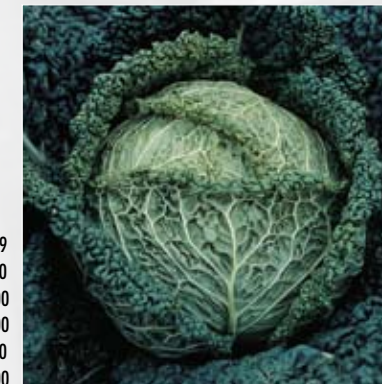
\$20290	pkt.	\$3.29	\$17571	1,000 seeds	\$43.00
\$17576	5,000 seeds	\$197.00	\$17580	25,000 seeds	\$780.00
\$17584	50,000 seeds	\$1,325.00	\$17588	100,000 seeds	\$2,390.00

SAVOY












FAMOSA F-1 

(70-75 days). Early maturing, medium green, round, 4-5 lb. savoyed cabbage for fresh market or processing. Fine yellow-tinted interior with a crisp texture in the leaves.

\$20291	pkt.	\$3.29
\$17609	1,000 seeds	\$27.00
\$17618	5,000 seeds	\$110.00
\$17623	25,000 seeds	\$480.00
\$17625	50,000 seeds	\$890.00
\$17629	100,000 seeds	\$1,675.00



• BRUSSELS SPROUTS AND CABBAGE AGRONOMICS, SEE PAGE 10.

KEY CODES		SEED SUPPLIERS	
	Seeds of Change Original Variety	 Bejo	 Mesa Maize
	Heirloom	 Chriseed	 Orsetti Seeds
	New This Year	 Genesis Seeds Ltd.	 Sakata Seed
		 Hild	 Vitalis

Carrots *Daucus carota var. sativus*

NANTES & IMPERATOR

YAYA F-1

(50-55 days). Early 6" Nantes carrot is bright orange with that classic cylindrical shape and blunt tip. Yaya is widely held to be one of the best tasting of all the Nantes cultivars for all seasons. Great bunching variety for fresh market appeal with strong 12" tops.

\$20297	pkt.	\$3.29	\$17645	10,000 seeds	\$19.00
\$17650	25,000 seeds	\$37.00	\$17654	100,000 seeds	\$123.00
\$17659	500,000 seeds	\$475.00			



NAPOLI F-1

(55-60 days). Very early, full-sized, cylindrical, slightly tapered 7-8" Nantes. Excellent buncher with bright orange roots and strong, dark green 10-12" tops. One of the best for harvesting cold-enhanced, super-sweet tasting carrots through the fall and winter. More days to maturity are required as the days shorten. This is Eliot Coleman's favorite winter carrot.

\$20295	pkt.	\$3.29			
\$17631	10,000 seeds	\$18.00			
\$17639	25,000 seeds	\$36.00			
\$17648	100,000 seeds	\$119.00			
\$17643	500,000 seeds	\$460.00			



SCARLET NANTES

(65-75 days). Superbly sweet and crisp fresh-eating 6-8" carrot, bunches beautifully. Improved strain, selected by John Navazio, exhibits a uniformly Nantes look and flavor. We consider this the most uniform open-pollinated Nantes available on the market.

\$10912	pkt.	\$3.29			
\$12857	1 oz.	\$16.00			
\$16399	¼ lb.	\$55.00			
\$14388	1 lb.	\$175.00			
\$17636	5 lb.	\$690.00			

MIAMI F-1

(90-95 days). Mid-season 8-10" Nantes/Imperator cross for summer and fall harvest. Produces a smooth, cylindrical, slender root with strong, upright foliage. Great variety for bunching or packing and suitable for storage.

\$20294	pkt.	\$3.29	\$17611	10,000 seeds	\$17.00
\$17615	25,000 seeds	\$35.00	\$17627	100,000 seeds	\$114.00
\$17621	500,000 seeds	\$475.00			

NEGOVIA F-1

(90-95 days). Mid-season Nantes with smooth, cylindrical 8-10" roots. This fresh market bunching carrot has good internal color and strong tops up to 13". Well-adapted to continental climates with large temperature fluctuations. Good storage variety.

\$20296	pkt.	\$3.29			
\$18378	10,000 seeds	\$18.00			
\$18392	25,000 seeds	\$36.00			
\$18382	100,000 seeds	\$119.00			
\$18386	500,000 seeds	\$460.00			

CARROT AGRONOMICS

SEED PACKETS CONTAIN ~600 SEEDS

GROWING CONDITIONS

Carrots are best planted in deep, fertile, well-drained, loamy soils with a pH of 5.5-7.0. Avoid excessively wet and heavy soils. Maintain surface soil moisture during seedling emergence.

PLANTING

Always direct-seed carrots. Seed from early spring through summer, sowing fall carrots 80-90 days prior to the first fall frost date. Use our new Planting Guide for Vegetables (p34-35) to determine seeding depth, spacing and rates found. Seedlings are not typically thinned, but for best fresh market quality, thin to 1-3" between roots.

HARVEST/STORAGE

To prepare carrots for market, hydro-cool and wash the roots thoroughly. For extended storage wash carefully, avoiding injury or store unwashed and topped at 32-34°F and 98-100% RH.

PEST AND DISEASE PREVENTION

Three to four year crop rotations are recommended to avoid Alternaria leaf blight, Cercospora leaf blight, downy mildew, and white mold. Avoid overwatering to prevent damping-off of seedlings and root diseases for more mature carrots. Minimize physical injury of roots prior to storage to prevent post harvest diseases. In areas with heavy carrot fly maggot pressure, floating row covers will provide protection.

INTERCEPTOR F-1

(120-125 days). 8-10" long. Imperator type for the cut and peel market. Has smooth, cylindrical roots with good internal and external color, and good Alternaria resistance.

\$20350	pkt.	\$3.29			
\$17614	10,000 seeds	\$19.00			
\$17619	25,000 seeds	\$37.00			
\$17626	100,000 seeds	\$123.00			
\$18335	500,000 seeds	\$475.00			



Photo by Brian Kimmel, Optic Nerve Productions

SPECIALTY & COLORED

RED CORE CHANTENAY

(65-75 days). Red Core is repeatedly rated one of the best tasting carrots in our trials. This classic 5-7" long orange chantenay strain has been selected for consistently smooth sides that taper to a blunt tip. Its broad shoulders and strong tops make for easy pulling. Great winter keeper.

\$10908	pkt.	\$3.29	\$11542	1 oz.	\$14.00
\$11543	¼ lb.	\$43.00	\$14387	1 lb.	\$144.50
\$17642	5 lb.	\$614.00			



KUROTA CHANTENAY

(80-90 days). Attractive, rich orange, smooth-sided 5-8" carrot tapers to a tip. Strong tops shade shoulders, are attractive in bunches, and are easy to pull for harvest. Bright-orange color develops earlier in the season than other varieties, imparting sweet flavor even during summer.

\$10913	pkt.	\$3.29			
\$13519	1 oz.	\$15.00			
\$13520	¼ lb.	\$48.00			
\$17610	1 lb.	\$167.00			
\$17616	5 lb.	\$690.00			



DRAGON

(70-90 days). Deep purple, smooth 6-8" carrot with a purplish-orange outer skin and an orange-yellow inner core. Broad shouldered and tapered to a point. Slightly spicy and sweet, good for fresh eating, but best when cooked or roasted. Good keeper.

\$17624	pkt.	\$3.29			
\$17633	1 oz.	\$21.00			
\$17637	¼ lb.	\$72.00			
\$17641	1 lb.	\$195.00			
\$18923	5 lb.	\$820.00			

ORGANICALLY PELLETIZED CARROT SEED

Pelletizing seed creates a uniform size and shape that reduces thinning costs and results in more even plant stands. Our pelletizing is a 9:1 build-up, with pelletized seed weights approximately 24,900 seeds per lb., and are Stanhay 13.0 or 13.5 sized.

Variety	10,000 seeds	100,000 seeds	500,000 seeds
Interceptor F-1	\$18316 \$23.00	\$18324 \$149.00	\$18334 \$560.00
Miami F-1	\$18315 \$28.00	\$18320 \$168.00	\$18326 \$654.00
Negovia F-1	\$18337 \$27.00	\$18342 \$161.00	\$18347 \$627.00
Napoli F-1	\$18318 \$27.00	\$18323 \$161.00	\$18329 \$627.00
Yaya F-1	\$18333 \$27.00	\$18336 \$161.00	\$18339 \$627.00
Yellowstone	\$17657 \$22.00	\$17673 \$127.00	\$17766 \$492.00

YELLOWSTONE

(70-75 days). Open pollinated 9-10" yellow carrot with big shoulders, pointed tip, and large tops. Carefully selected for a uniform shape. Nearly as sweet as the traditional orange carrots, this variety has a consistently pleasing, mild flavor. Vigorous and widely adapted.

\$21059	pkt.	\$3.29			
\$17646	10,000 seeds	\$14.00			
\$17651	25,000 seeds	\$27.00			
\$17658	100,000 seeds	\$84.00			
\$17664	500,000 seeds	\$360.00			




CARROT VARIETY COMPARISON

Variety	Type	DTM	Root Size	Root Shape	Primary Uses	Interior Color	Top Length
Yaya F-1	Nantes	50-55	6 in. x 1 ¼ in.	C, B	FM	Bright Orange	12 in.
Napoli F-1	Nantes	55-60	7-8 in. x 1 ¼ in.	C, T, B	FM, S	Bright Orange	10-12 in.
Scarlet Nantes	Nantes	65-75	6-8 in. x 1 ¼ in.	C, B	FM	Bright Orange	10-12 in.
Miami F-1	Nantes x Imperator	90-95	8-10 in. x 1 ¼ in.	C, B	FM, S	Orange	12-14 in.
Negovia F-1	Nantes	90-95	8-10 in. x 1 ¼ in.	C, T, B	C, CP	Bright Orange	11-13 in.
Interceptor F-1	Imperator	120-125	8-10 in. x 1 ¾ in.	C, T	FM, S	Orange	14-16 in.
Red Core Chantenay	Chantenay	65-75	5-7 in. x 2 in.	BR, T, B	FM	Bright Orange	12-14 in.
Kurota Chantenay	Chantenay	80-90	5-8 in. x 1 ¾ in.	MB, T, B	FM	Bright Orange	12-14 in.
Dragon	Danvers	70-90	6-8 in. x 2 in.	BR, T	FM	Purplish-Orange	12-16 in.
Yellowstone	Danvers	70-75	9-10 in. x 2 in.	BR, T	FM	Medium Yellow	14-16 in.

DTM=Days to Maturity C=Cylindrical BR=Broad MB=Medium Broad B=Blunt T=Tapered FM=Fresh Market C=Cello CP=Cut & Peel S=Storage

Cauliflower *Brassica oleracea*



CASSIUS F-1 
(65-70 days). Mid-early, dense, 6-8" wide-domed white cauliflower for summer harvest. Very dark green upright leaves on a medium to large, extremely vigorous plant offer good cover. Holds well in the field for longer harvest window, and has good tolerance to riceyness.


\$21546	pkt.	\$3.29
\$21547	200 seeds	\$16.00
\$17647	1,000 seeds	\$48.00
\$17655	5,000 seeds	\$187.00
\$17660	25,000 seeds	\$797.00

SKYWALKER F-1

(95-100 days). Mid-late variety usually harvested in early fall. Very robust with erect leaf structure and excellent wrappers to protect the 6-8" wide milky white curds on this 2 lb. head. Late season frost makes this head sweeter.

\$21548	pkt.	\$3.29	\$21549	200 seeds	\$16.00
\$17652	1,000 seeds	\$48.00	\$17656	5,000 seeds	\$187.00
\$17661	25,000 seeds	\$797.00			

ROMANESCO

VERONICA F-1 
(90-95 days). Attractive 6-8" green Cauliflower for late summer and fall harvest. Bears striking, fresh green florets that spiral up to form a cone-shaped head. This uniform variety is very tolerant to riceyness and red discoloration.



\$21550	pkt.	\$3.29
\$21551	200 seeds	\$23.00
\$17663	1,000 seeds	\$84.00
\$17668	5,000 seeds	\$327.00

- SEED PACKETS CONTAIN ~25 SEEDS
- CAULIFLOWER AGRONOMICS, SEE PAGE 10.

Celery & Celeriac

Apium graveolens



TANGO 
(80-85 days). An early and heavy yielder with exceptionally smooth, 18-20" green stalks. Each stalk is especially tender, sweet, and never stringy. Widely adapted.

\$20299	pkt.	\$3.29
\$21242	1,000 seeds	\$11.00
\$18225	5,000 seeds	\$36.00
\$18227	25,000 seeds	\$119.00
\$18228	100,000 seeds	\$434.00

CELERIAC/CELERY ROOT




MARS 
(105-115 days). Light-colored, large, smooth high round root with dark green, upright foliage. Remarkably high robustness against septoria. Suitable for either bunching or bulbs. Produce for the fresh market or industry. Very good keeping quality.

\$21552	pkt.	\$3.29
\$21005	1,000 seeds	\$8.15
\$21006	5,000 seeds	\$36.85
\$21007	25,000 seeds	\$168.75
\$21008	100,000 seeds	\$623.00

- SEED PACKETS CONTAIN ~100 SEEDS

Chinese Cabbage

Brassica rapa

NIKKO F-1 
(50-55 days). Early maturing variety for summer and fall. 11" x 5" barrel-shaped, dark green, compact plants have good bolting tolerance and resist Fusarium Yellows. More suited to fresh market sales.



\$20301	pkt.	\$3.29
\$17563	1,000 seeds	\$11.00
\$17575	5,000 seeds	\$44.60
\$17579	25,000 seeds	\$197.00
\$17583	50,000 seeds	\$360.00

BILKO F-1

(65-70 days). Barrel-shaped, dense, 12x5" Napa type is suitable for summer and fall production. Capable of a modest amount of short term storage. Resists Club Root, Fusarium Yellows, and Downy Mildew.

\$20300	pkt.	\$3.29	\$18276	1,000 seeds	\$11.00
\$18280	5,000 seeds	\$44.60	\$18285	25,000 seeds	\$197.00
\$18291	50,000 seeds	\$360.00			

- SEED PACKETS CONTAIN ~100 SEEDS

Chard *Beta vulgaris*

BROADSTEM GREEN

(50-60 days). Large, generous leaves with wide, white, succulent midribs on 20-24" of plant height. Excellent for bunching. Broadstem is an improved selection from Fordhook Giant. **Sorry, we had a CROP FAILURE on this, come back next year or call for a substitute recommendation.**



SILVERADO

(30 days baby, 55-60 days full). Dark, deep-green, heavily savoyed leaves exhibit an attractive sheen on smaller than average framed plant (16-18"). If you need loft and weight in your mix, use the leaves of this chard. Very slow to bolt providing a long harvest window.

\$21553	pkt.	\$3.29
\$18924	1 oz.	\$5.50
\$18926	¼ lb.	\$16.75
\$18927	1 lb.	\$45.00
\$18929	5 lb.	\$198.00



GOLDEN

(50-60 days). Dark green, semi-savoyed leaves offset by luminescent golden petioles and veins on 20-24" of plant height. A wonderful complement to all other colors in the bright and multi-colored lights of chard.

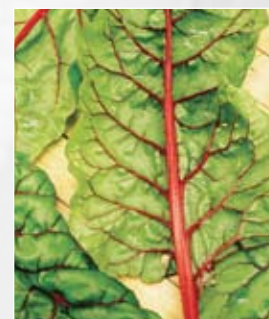
\$15924	pkt.	\$3.29
\$17674	1 oz.	\$5.50
\$16412	¼ lb.	\$17.40
\$16717	1 lb.	\$56.00
\$17678	5 lb.	\$239.00



ORANGE FANTASIA

(50-60 days). Bright orange stalks and contrasting dark green shiny leaves on a gorgeous plant. We offer a new color in the rainbow of Swiss chard varieties. Robust and upright growth, it is suitable for baby greens or full sized.

\$21060	pkt.	\$3.29
\$20424	1 oz.	\$5.50
\$20425	¼ lb.	\$17.40
\$20426	1 lb.	\$56.00
\$20427	5 lb.	\$239.00



RHUBARB

(50-60 days). Abundant, deep-green leaves accented with brilliant-red veins on 18-24" tall plants. This improved selection has wider, more consistently red petioles, with leaves that retain their green color even after mild frosts.

\$10972	pkt.	\$3.29
\$17675	1 oz.	\$4.50
\$15730	¼ lb.	\$15.25
\$14742	1 lb.	\$41.00
\$17679	5 lb.	\$195.00

- SEED PACKETS CONTAIN ~150 SEEDS
- CHARD AGRONOMICS, SEE PAGE 9.

Corn *Zea mays*

YELLOW

TRUE GOLD (SU) 

(70-80 days). Longtime favorite with a truly delicious, buttery, rich flavor. 7-8" ears have sweet golden-yellow kernels. Productive 6' plants resist lodging. Superb corn taste best marketed soon after picking. Sugars convert to starch within 24 hours unless kept in cold storage. Great for CSA's, Farmers Markets or Farmstands.

\$10627	pkt.	\$3.29	\$12671	1 lb.	\$13.50
\$12672	5 lb.	\$59.75	\$17681	10 lb.	\$109.00
\$12673	25 lb.	\$245.00	\$12674	50 lb.	\$445.00



BI-COLOR



LUSCIOUS F-1 (SE) 

(75-78 days). 2nd-Early to Main Season bicolor hybrid produces 7-8" blocky ears with a 16-18 row count. Ears are very easy to snap off with placement on stalks 2' off ground. Germinates vigorously even in cooler soils.

\$21554	pkt.	\$3.29
\$20428	1,000 seeds	\$9.25
\$20429	5,000 seeds	\$44.50
\$20430	25,000 seeds	\$194.00
\$20431	100,000 seeds	\$697.00

CORN AGRONOMICS

SEED PACKETS CONTAIN ~100 SEEDS

GROWING CONDITIONS

Corn may be grown in a wide range of soil types with a pH of 5.5-7.0, although poorly drained soils should be avoided. It is a warm season crop sensitive to cool soil conditions. Since it is wind-pollinated and the pollen may travel one mile or more, it must be isolated from genetically modified varieties to ensure crop integrity.

PLANTING












Always isolate sweet corn varieties from super sweets, popcorn and starch type varieties. Begin direct seeding when soil temperatures reach 60°F. Seed approximately every two weeks for continuous harvests. Plant in blocks for optimum pollination and kernel set. Use our new Planting Guide for Vegetables (p34-35) to determine seeding depth, spacing and rates.

HARVEST/STORAGE

Normal sugary varieties are best marketed and consumed fresh. Sugary enhanced varieties will retain their sweetness for several days after picking. Harvest ears when kernels reach 70-75% moisture or release milky liquid when punctured with a fingernail. If storage is necessary, hold at 32°F and 95-98% RH.

PEST AND DISEASE PREVENTION

Practice crop rotations. Destroy or incorporate crop residue to control leaf blights. Stewart's Wilt, a serious bacterial disease, is spread by the flea beetle and can be difficult to manage in areas of heavy flea beetle pressure. Use *Bacillus thuringiensis* (Bt) for suppression of corn ear-worms or cut off damaged portion of ears prior to sale. Plant away from wooded areas or maintain a high, secure fence to prevent raccoon and deer damage.

KEY CODES	SEED SUPPLIERS
 Seeds of Change Original Variety	 Bejo  Mesa Maize
 Heirloom	 Chriseed  Orsetti Seeds
 New This Year	 Genesis Seeds Ltd.  Sakata Seed
	 Hild  Vitalis

VEGETABLES

BROCADE F-1 (SE) 🌽

(75-81 days). Bicolor with delectable sweetness does not compromise on good old fashioned corn flavor. Heavy 8-9" ears, easily picked and protected by tight wrapper leaves, come from 8' stalks. Sensitivity to cool soils makes this a main season corn.

\$21555	pkt.	\$3.29	\$18272	1,000 seeds	\$9.10
\$18277	5,000 seeds	\$41.00	\$18281	25,000 seeds	\$187.50
\$18286	100,000 seeds	\$650.00			

WHITE



TRUE PLATINUM (SU) 🌽

(75-85 days). One of the few white, open-pollinated sweet corns still available, producing 7-8" ears of tender, succulent kernels with a real corn flavor on a 6' stalk. Best consumed immediately after picking for maximum sweetness or kept on ice/in cold storage before market.

\$10907	pkt.	\$3.29
\$12853	1 lb.	\$14.00
\$12854	5 lb.	\$61.00
\$17686	10 lb.	\$112.00
\$12855	25 lb.	\$255.00
\$12856	50 lb.	\$460.00

SUGAR PEARL F-1 (SE) 🌽

(72-75 days). Standout white kernels on 14-16 rows produced on 7½-8" fancy, tapered ears. Excellent eating quality and tip cover, all on a 6½' stalk make this a great main season producer.

\$21556	pkt.	\$3.29	\$20434	1,000 seeds	\$9.50
\$20435	5,000 seeds	\$46.00	\$20436	25,000 seeds	\$198.00
\$20437	100,000 seeds	\$705.00			

SPECIALTY SWEET

BLACK AZTEC (SU) 🌽

(70-95 days) This remarkable variety was introduced in the 1860s by seedsman John Gregory. Classic, vigorous sweet and flour corn produces 8" ears with white kernels during the milk (eating) stage, then a deep blue black when dry.

\$10626	pkt.	\$3.29	\$21562	½ lb.	\$9.00
\$12667	1 lb.	\$16.00	\$16133	5 lb.	\$69.00
\$21563	10 lb.	\$125.00			

HOOKERS (SU)

(60-70 days) Grown by Ira Hooker of Olympia, WA, for over 50 years, this early variety produces flavorful, white 5-6" ears that mature to a dark purple. It prefers a mild summer but can produce in a small space on a 4-5' stalk.

\$10628	pkt.	\$3.29	\$21567	½ lb.	\$9.00
\$21170	1 lb.	\$16.00	\$21250	5 lb.	\$69.00
\$21568	10 lb.	\$125.00			

CORN VARIETY COMPARISONS

Variety	Type	Ear Length	Stalk Height	Prm. Kernal Color	DTM	Primary Uses	Misellaneous
True Gold	SU	7-8"	6'	Y	70-80	FM	Sell quickly or ice for storage
Luscious F-1	SE	7-8"	6'	Bi	75-78	FM	Good husk cover
Brocade F-1	SE	8-9"	8'	Bi	75-81	FM	Tolerant to Stewart's Wilt
True Platinum	SU	7-8"	6'	W	75-85	FM	Sell quickly or ice for storage
Sugar Pearl F-1	SE	7½" - 8"	6½'	W	72-75	FM	Vigorous plant
Black Aztec	SU FL	8"	6'	Bl-Blk	70-95	FM, Flour	Introduced in 1860
Hookers	SU	5-6"	4-5'	Wh to P	60-70	Orn, FM	Produces in small space
Rainbow Inca	SU FL	8-9"	7-9'	Multi	75-80; 120	FM, Orn, Flour	Multiple uses
Triple Play	SU	5-6"	4-5'	Multi	60-70	Orn, FM	Tolerates cool soil
Supai Red	PA	8"	6-7'	R	105-110	Parch	SoC Breeding
Anasazi	FL	6-7"	6-9'	Multi	100-110	Orn, Flour	Ancient variety
Hopi Blue	FL	6-7"	5-6'	Bl	80-100	Flour	Grown for over 800 years
Hopi Pink	FL	8"	5-6'	Pink	85-95	Flour	Long taproot
Mandan Red	SU FL	6"	4-5'	R	80-85	FM, Flour	2-3" per stalk
Wachichu Flint	F	9-11"	7-9'	Multi	90-105	Orn; Forage	Lots of tillers
Dakota Black	POP	4-5"	4-6'	Blk	95-105	S, Popping	Vigorous plant

SU=Normal Sugary SE=Sugar Enhanced F=Flint POP=Popcorn PA=Parching, FL=Flour;
DTM=Days to Maturity Bi=Bi-Colored Y=Yellow W=White Blk=Black Bl=Blue,
Multi=Multi-Colored P=Purple FM=Fresh Mkt Orn=Ornamental S=Storage

SU=NORMAL SUGARY; SE=SUGAR ENHANCED



BLACK AZTEC



HOOKERS



RAINBOW INCA



TRIPLE PLAY



SUPAI RED



ANASAZI



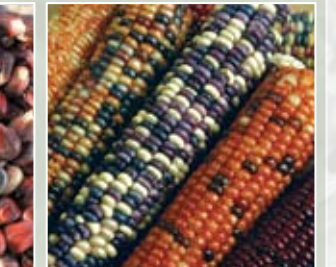
HOPI BLUE



HOPI PINK



MANDAN RED



WACHICHU

RAINBOW INCA (SU) 🌽

(75-80 days, sweet; 80-95 days, roasting; 120 days, mature dry) Selected by Dr. Alan Kapuler in the 70s, this robust variety is a fascinating cross between a large, white, flat-seeded Peruvian chokelo; multicolored southwest native corns; and other heirloom sweet corns. Delicious fresh or cooked corn comes on an 8-9" ear that increases in color as it ages, making a superb flour corn when mature. 7-9' stalk.

\$10727	pkt.	\$3.29	\$21565	½ lb.	\$9.00	\$12748	1 lb.	\$16.00
\$12749	5 lb.	\$69.00	\$21566	10 lb.	\$125.00			

TRIPLE PLAY (SU)

(60-70 days) A selection of Hooker's that produces a tri-color of white, yellow and blue on multiple ears. A delicious short, season corn on a 4-5' stalk that tolerates cool soil. "When the yellow shows, it's ready to eat; blue showing, it's really sweet."

\$10906	pkt.	\$3.29	\$21569	½ lb.	\$9.00	\$12849	1 lb.	\$16.00
\$12850	5 lb.	\$69.00	\$21570	10 lb.	\$125.00			

PARCHING

SUPAI RED 🌽

(105-110 days). An excellent parching corn (dry roasted on a skillet) from Seeds of Change co-founder Alan Kapuler and plant breeding collaborator, Carol Deppe. Kernels display a distinctive starburst pattern on an 8" ear. One or two ears per stalk.

\$10977	pkt.	\$3.29	\$20443	½ lb.	\$10.00	\$20444	1 lb.	\$18.00
\$20445	5 lb.	\$74.00	\$20446	10 lb.	\$134.00			

FLOUR

ANASAZI 🌽

(100-110 days) A traditional, stunning variety from the ancient Anasazi tribe of the American southwest. Contains every color found in native corns. Produces multiple ears on 6-9' stalks.

\$10842	pkt.	\$3.29	\$21557	½ lb.	\$9.00	\$16416	1 lb.	\$16.00
\$16133	5 lb.	\$69.00	\$21558	10 lb.	\$125.00			

HOPI BLUE 🌽

(80-100 days) Widely adapted and drought tolerant flour corn, this venerable and revered variety has been raised by the Hopi Indians of northern Arizona for over 800 years. The ears are produced on a 5-6' stalk.

\$21035	pkt.	\$3.29	\$21179	½ lb.	\$10.00	\$19925	1 lb.	\$18.00
\$21248	5 lb.	\$74.00	\$19836	10 lb.	\$134.00			

HOPI PINK 🌽

(85-95 days) A long taproot makes this variety a product and drought tolerant choice. The 5-6' bushy plants produce 8" ears with 12-14 rows of striking pink kernels.

\$10843	pkt.	\$3.29	\$21573	½ lb.	\$10.00	\$16540	1 lb.	\$18.00
\$21254	5 lb.	\$74.00	\$21574	10 lb.	\$134.00			

MANDAN RED 🌽

(80-85 days) Originates from the Mandan Indians of the Central Plains area. Pale yellow and highly edible at the milk stage, it matures to a deep red when dry. 2-3 six inch ears per 4-5' stalk.

\$14142	pkt.	\$3.29	\$21571	½ lb.	\$9.00	\$16419	1 lb.	\$16.00
\$21252	5 lb.	\$69.00	\$21572	10 lb.	\$125.00			

WACHICHU FLINT 🌽

(90-105 days). Slender 9-11" ears on a 7-9' stalk exhibit a spectacular range of colors and patterns. Kernels have a hard, translucent seed coat. Vigorous bushy plants (lots of tillers) make an effective wind break or an excellent livestock forage. Tolerant to cool soils.

\$16134	pkt.	\$3.29	\$20439	½ lb.	\$9.00			
\$20440	1 lb.	\$16.00	\$20441	5 lb.	\$69.00	\$20442	10 lb.	\$125.00

POPCORN

DAKOTA BLACK 🌽

(95-105 days). Unusual, dark red to nearly black, pointed kernels producing two ears on a 5-7' plant, with an occasional white kernelled ear. Good stalk strength and great seedling vigor, even in cold soils. Reliable producer in both hot and cool growing seasons.

\$16630	pkt.	\$3.29
\$17677	½ lb.	\$9.00
\$17685	1 lb.	\$16.00
\$17691	5 lb.	\$69.00
\$17696	10 lb.	\$125.00



Cucumbers *Cucumis sativus*


SLICERS



SWEET MARKETMORE
(60-65 days). One of the most widely grown slicer/salad varieties. Prolific 4-6' vines. Dark green, smooth-skinned 6-8" variety has sturdy skin that holds up well in packing and transport. A selection from Marketmore 80.

S10633	pkt.	\$3.29
S11189	1oz.	\$5.75
S11190	¼ lb.	\$13.00
S11192	1 lb.	\$42.00
S17699	5 lb.	\$190.00



SABER F-1 
(45-55 days). Strong vigorous grower of a dark-green crop with good side-shoot development and recuperation after cold periods. Dark-green cylindrical fruit are spined with a length of 7-9". Very good resistance to CMV and low temperatures. High yielder.

S21256	pkt.	\$3.29
S21257	100 seeds	\$31.50
S20878	500 seeds	\$146.00
S20879	1,000 seeds	\$265.00
S20880	5,000 seeds	\$1,040.00
S20881	10,000 seeds	\$1,840.00




AKITO F-1 
(50-60 days). Seeds of Change is excited to bring you this main season American slicing hybrid cucumber. Steady grower with plentiful early and overall production. Fruit is 6-8" of a straight uniform, dark green color with market-winning taste, though not without a few spines. Intermediate powdery mildew and CMV resistance.

S21258	pkt.	\$3.29
S21259	100 seeds	\$30.00
S20447	500 seeds	\$141.00
S20448	1,000 seeds	\$255.00
S20449	5,000 seeds	\$1,010.00
S20450	10,000 seeds	\$1,790.00

PICKLING



ADAM F-1 
(50-55 days). Heavy-yielding, long lasting parthenocarpic plant with crispy fruit. Smaller 2-4" fruit perfect for smooth gherkin pickles. Resistant to powdery mildew, downy mildew, and cucumber mosaic virus.

S21575	pkt.	\$3.29
S20362	100 seeds	\$9.00
S18278	500 seeds	\$34.00
S18282	1,000 seeds	\$55.00
S18287	5,000 seeds	\$240.00
S18292	10,000 seeds	\$440.00

BEIT ALPHA/MID-EAST MIDEAST PROLIFIC

(50-60 days). Thin-skinned variety has excellent flavor and is never bitter. Vines bear extremely early and were the most productive in our field variety trials. Adaptable to a variety of climates. 5-7" long fruit.

S10632	pkt.	\$3.29
S11185	1 oz.	\$15.00
S11186	¼ lb.	\$39.00
S11188	1 lb.	\$109.00
S17684	5 lb.	\$392.00



DVIR F-1

(55-60 days). Very smooth thin skinned Beit Alfa-type cucumber with small seed cavity and great flavor. Very productive variety with uniform, medium-dark green 4-5" fruits. Suitable for field or greenhouse production. Powdery mildew and downy mildew tolerant.

S21260	pkt.	\$3.29	S21261	100 seeds	\$5.00
S17688	500 seeds	\$7.25	S17693	1,000 seeds	\$13.25
S17697	5,000 seeds	\$60.50	S17702	10,000 seeds	\$110.00

CUCUMBER AGRONOMICS

SEED PACKETS CONTAIN ~50 SEEDS

GROWING CONDITIONS

Cucumbers are a frost-sensitive, warm-season crop, but since they mature quickly they can be grown in regions with short summers. They grow best on fertile, light soils with a pH of 5.8-6.7. The use of row covers for 4-8 weeks after planting can aid in frost and insect pest protection, but remove cover when flowering begins to allow for pollination. Drip irrigation is preferable. Asian varieties (e.g. Satsuki, Midori & Suyo Long) must be trellised to produce straight fruit.

PLANTING

Cucumbers are almost always direct-seeded. Plant when soil temperatures reach 65-70°F and all danger of frost has passed. Use our new Planting Guide for Vegetables (p34-35) to determine seeding depth, spacing and rates.

HARVEST/STORAGE

Harvest regularly and remove old fruit to encourage continuous fruit set. Cucumbers are best marketed fresh, but may be stored at 50-55°F and 90-95% RH. Chilling damage may occur at temperatures below 45°F and yellowing will quicken at higher temperatures. Avoid contact with ethylene gas.

PEST AND DISEASE PREVENTION

Avoid overhead irrigation and mulch with biodegradable plastic to reduce incidence of powdery and downy mildew. Varieties resistant to these fungal diseases and to cucumber mosaic virus (CMV) are also available; check variety descriptions. Practice crop rotations with all Cucurbitaceae species. Cover young seedlings with floating row cover to prevent cucumber beetle damage and the bacterial wilt they can vector, but uncover plants during flowering for pollination.

ASIAN



SUYO LONG

(60-70 days). Remarkable Chinese variety produces large quantities of 10-16" long, curvaceous fruits. Spiny skin protects the delicious, crispy, non-bitter flesh. Almost seedless, the fruits are burpless, crisp, and tender.

S10765	pkt.	\$3.29
S15734	1oz.	\$15.00
S15736	¼ lb.	\$38.50
S14624	1 lb.	\$132.50
S17698	5 lb.	\$515.75



SATSUKI MIDORI


(60-70 days). Very rare Asian variety. 10-14" long, slender fruits have tender skin and few seeds. Extremely delicious and never bitter, this has quickly become one of our favorite slicing cukes.

S16136	pkt.	\$3.29
S16675	1oz.	\$19.50
S16679	¼ lb.	\$66.25
S17695	1 lb.	\$225.50

SPECIALTY



ARMENIAN

Cucumis melo 
(60-70 days). This unusual and attractive 12-18" cuke is always sweet and crispy, even when fruit is large. Thin skinned with deep ridges it is perfect for the fresh market. Handle carefully to avoid bruising. Botanically, a close relative of the honeydew melon. Thrives in hot weather.

S10761	pkt.	\$3.29
S17160	1oz.	\$12.25
S17180	¼ lb.	\$41.75
S17687	1 lb.	\$141.75
S17692	5 lb.	\$625.00




LEMON

(60-70 days). Very uniform and unique variety is a prolific yielder that keeps producing late in the season when others have stopped. 3" diameter, round, yellow cukes are juicy, crisp and refreshing. Great for fresh slicing and pickling. Have the patience to wait for this one, they are wonderful.


S10631	pkt.	\$3.29
S12681	1oz.	\$7.50
S12682	¼ lb.	\$16.50
S12684	1 lb.	\$52.00
S17703	5 lb.	\$225.00

Eggplant *Solanum melongena*

FALCON F-1 
(80-85 days). Once this beauty starts to set 2½ x 6½" fruit, it does so over entire season. They come in early and their color is dark, elegant and shiny with a bright-green calyx. Classic Italian look. Suitable for both protected cropping and open field. (~10 seeds/pkt.)

S21262	pkt.	\$3.29
S20474	50 seeds	\$14.00
S20470	250 seeds	\$63.00
S20472	1,000 seeds	\$225.00



IMPERIAL BLACK BEAUTY 
(80-85 days). Introduced around 1910, this popular variety has rich flavored fruits that hold up well. Plump, slightly lobed, 4-5" diameter fruits are a beautiful, shiny purple-black.

S11018	pkt.	\$3.29
S11621	1/8 oz.	\$8.00
S11623	1oz.	\$29.00
S17700	¼ lb.	\$89.00
S14390	1 lb.	\$290.00

EGGPLANT AGRONOMICS

SEED PACKETS CONTAIN ~50 SEEDS

GROWING CONDITIONS

Eggplant is a cold-sensitive, heat-loving crop and requires a long, warm growing season for successful production. It is best grown on moderately fertile, sandy-loam soils with a pH of 6-6.8. It is often grown with the use of plastic mulch or plastic covered hoops to increase soil temperatures. Drip irrigation is recommended.

PLANTING

Eggplant is most commonly transplanted. Start seeds 9-10 weeks prior to planting. Optimum greenhouse temperatures are 64-70°F at night and 70-81°F daytime. Use our new Planting Guide for Vegetables (p34-35) to determine seeding depth, spacing and rates.

HARVEST/STORAGE

Harvest when fruits have developed color, but are still firm to the touch. Market fresh or store at 50-55°F and 90-95% RH. They are chill-sensitive below 50°F and deteriorate readily at higher temperatures.

PEST AND DISEASE PREVENTION

Practice crop rotations with grass cover crops, if possible, to reduce incidence of Verticillium wilt, a soilborne fungal pathogen with a broad host range. Use drip irrigation to minimize foliar diseases such as anthracnose, and use covers to manage flea beetles.



LITTLE FINGER

(60-65 days). Slender fruit of 4-6" with a glossy black skin and green calyx. Harvest when fruit is young and cook quickly for delicate flavor. An excellent baby eggplant to delight your buyers.

S21064	pkt.	\$3.29
S20455	1/8 oz.	\$8.00
S20456	1 oz.	\$28.00
S20457	1/4 lb.	\$84.00
S20459	1 lb.	\$280.00



SNOWY

(60-65 days). Non-bitter fruit enjoyed in a long, uniform 8-10" sharp-white fruit. Earlier to bear fruit than others and will enhance any collection of eggplant when displayed with others of varying colors.

S15898	pkt.	\$3.29
S20460	1/8 oz.	\$11.00
S20461	1 oz.	\$55.00
S20462	1/4 lb.	\$179.00
S20464	1 lb.	\$385.00



LOUISIANA LONG GREEN

(70-75 days). Unusual color for an eggplant. LLG produces a mild, sweeter tasting fruit in a quality package. These fruit typically are typically 7-9" long with a green calyx.

S15900	pkt.	\$3.29
S20465	1/8 oz.	\$11.00
S20466	1 oz.	\$33.00
S20467	1/4 lb.	\$89.00



ROSA BIANCA

(80-90 days). A gorgeous white and pink blushed, Italian variety with a delicate, mild flavor, creamy consistency, and no bitterness. Considered one of the best by gourmet chefs. 5-7" long, 4-6" diameter.

S14146	pkt.	\$3.29
S15738	1/8 oz.	\$11.00
S16413	1 oz.	\$41.00
S17701	1/4 lb.	\$119.00
S17709	1 lb.	\$370.00



TURKISH ORANGE

(85-90 days) A unique, brilliant orange fruit, sweet and fragrant when freshly cut. Best eaten once fruits are tennis ball-sized or when slightly orange with green striping. Also great when stuffed. Vigorous bush bears 15-25 fruits per plant.

S10812	pkt.	\$3.29
S21264	1/8 oz.	\$11.00
S12795	1 oz.	\$41.00
S12796	1/4 lb.	\$119.00

Garlic *Allium sativum*
HARDNECK



CHESNOK RED

Colorful strain with rich aroma that lingers to a medium-hot flavor. Maroon-skinned garlic retains flavor when cooked, thus making it great for baking. Avg. 6-7 cloves per bulb.

S21265	3 bulbs	\$13.00
S21266	15 bulbs	\$49.70
S21267	5 lbs.	\$79.60
S21268	25 lbs.	\$274.20
S21576	100 lbs.	\$997.65



MUSIC PINK

Described by Chester Aaron as "one of the heartiest, largest, and tastiest garlics." Its large cloves produce a rich flavor for ideal roasting. And the pale-pink bulbs keep 5-8 months. Avg. 3-4 cloves per bulb.

S21269	3 bulbs	\$13.00	S21270	15 bulbs	\$49.70
S21271	5 lbs.	\$79.60	S21272	25 lbs.	\$274.20
S21577	100 lbs.	\$997.65			

SOFTNECK



EARLY ITALIAN PURPLE

Large and white-skinned garlic with purple stripes and numerous small cloves, this artichoke-type produces a vigorous plant better adapted to summer heat than our Italian Late. When people think of garlic they often associate Gilroy, California with being the "garlic capital" of the world, where this variety is widely grown.

S21758	3 bulbs	\$15.00	S21759	15 bulbs	\$64.00
S21760	5 lbs.	\$98.00	S21761	25 lbs.	\$424.00



LATE ITALIAN

Light colored wrappers surround the cloves which are generally fat and round on this silverskin-type garlic. And, the extra-tight skins make for better keeping capability. While the variety matures somewhat later than Early Italian variety, Italian Late tends to be somewhat smaller in size. Consider it for use in braiding and for decorative purposes.

S21763	3 bulbs	\$15.00	S21764	15 bulbs	\$64.00
S21765	5 lbs.	\$98.00	S21766	25 lbs.	\$424.00

GARLIC AGRONOMICS

GROWING CONDITIONS

Garlic responds to temperature and photoperiods for suitable clove and bulb formation in particular regions. In addition, final bulb and clove size relates to the amount of vegetative growth that takes place before bulb growth and clove initiation occurs. Other related factors that help determine bulb and clove size are the optimum storage temperature prior to planting, the planting date, associated growing temperatures and the change in day length throughout. No one practice is best suited for every situation. Talk with other garlic growers in your area to determine what combinations will likely work best for your operation or experiment with different cultural practices to learn over time. In general, soft-neck varieties are not recommended for northern climates where the hard-neck cultivars do better. Garlic will grow in almost any well-drained, friable soil, preferably with good organic matter content and full sun. Garlic is a heavy feeder. Fiable soils allow the bulbs to expand without becoming misshapen and will aid soil water holding capacity. Soils must have a pH above 6.0. Ideal pH is between 6.5 and 7.0

PLANTING

Garlic can be planted in early fall (September or early October through January) in milder areas. Where the winters are severe and/or snow cover is unreliable, plant 4-6 weeks before the ground freezes to allow for good root development but no above ground growth. Then mulch in heavily to reduce the risk of frost heaving which can break up root development. Plant the cloves about 1 - 4 inches deep, root side down, depending upon the severity of the average winter in your area. Medium-sized cloves may generate the best economic return due to increased counts per pound and the reduced number of pounds required for planting. Cloves that are small may not segment adequately. Garlic is often grown on raised beds. Typical beds are 40 inches apart center to center, with 2 rows of garlic grown on top of each bed. Rows are spaced 12 inches apart. The more space that is given between cloves when planted generally results in larger bulbs when harvested. Typical populations range from 100,000 to 150,000 plants per acre.

HARVEST/STORAGE

Gauge and observe the bulbs in the ground to determine when to harvest. Each year it can be a slightly different time to pull or dig the bulbs. When 5-6 green leaves remain on the majority of plants, dig and examine a few bulbs to determine if you should then dig the entire field. If dug too early, incomplete skin covering over the entirety of the cloves may result, or if dug too late, the cloves may begin to pull apart from each other. Loosen the soil around the bulbs, pull the bulbs and free from the soil, gently brush away any excess soil, and remove to a shaded well ventilated area quickly leaving the tops intact. Curing can take anywhere from 3 weeks to 2 months, depending upon humidity and air circulation. Once cured trim the roots, cut off the stalks, unless to be used in the making of braids, and gently clean the remaining dirt from the bulbs. If you intend to use the garlic for seed purposes, it should not be stored under refrigeration. Optimum storage temperature for garlic seed is 50°F with a humidity of 65-70%. Lower temperatures storage can result cloves sprouting prematurely or rough bulbs, side-shoot sprouting (witches-brooming) and early maturity. Storage above 65°F results in delayed sprouting and later maturity. To maximize shelf life, store well cured garlic at 32°F and 65-70% relative humidity in a well-ventilated area. Higher humidity environments can cause root and mold growth.

WEED CONTROL

Good weed control is essential for optimal garlic production. Otherwise, garlic can suffer from severe yield loss when in competition with weeds. Some locations use a smother crop such as buckwheat prior to planting garlic. Buckwheat is chosen because it easily breaks down prior to planting the garlic. Other smother crops can also be used such as rye or sorghum-sudan grass. Flame weeding can also work well with garlic after the four-leaf stage.

Gourmet Greens

SEED PACKETS CONTAIN ~100-600 SEEDS

ARUGULA

'SPUTNIK' *Eruca sativa* var. *sativa*

(30-40 days). Mild flavored, very fast growing 3-6" arugula. Bred by John Navazio, it has a wide diversity of leaf shapes ranging from smooth and strappy to finely cut and lobed leaves. Ideal for bunching.



S17499	pkt.	\$3.29	S17981	1oz.	\$6.00
S17991	1/4 lb.	\$15.00	S18005	1 lb.	\$39.00
S18010	5 lb.	\$169.00	S18021	25 lb.	\$550.00

ARUGULA *Eruca sativa* var. *sativa*

(35-45 days). A staple in markets across the country, in salad mixes, or on its own. This particular 3-6" variety is great for cutting young or selling in bunches when mature. Deeply lobed leaves.

S10637	pkt.	\$3.29	S13511	1oz.	\$5.50
S13512	1/4 lb.	\$13.00	S14385	1 lb.	\$37.00
S18380	5 lb.	\$149.00	S17987	25 lb.	\$525.00

SYLVETTA *Diplotaxis tenuifolia*

(45-55 days). Tender perennial variety has classic arugula taste with a slightly sharper, peppery flavor. Much hardier and adaptable than standard arugula, Sylvetta is smaller and slower growing with more deeply cut leaves. Prized for growing in protected winter conditions, it is much hardier and adaptable to temperature extremes than standard arugula. Cut around 3-6" in length.



S15919	pkt.	\$3.29	S21580	1 oz.	\$16.00
S17111	1/4 lb.	\$44.00	S17107	1 lb.	\$159.00

ASIAN



MIZUNA *Brassica rapa* ssp. *nippisnica*

(20-25 baby, 40-50 days mature). Slender white stalks bear feathery, mildly spicy, serrated leaves. Harvest at 3-6" for salads, or larger (8-10") for braising. Don't leave this one out of your mixes. It's highly recognizable.

S10744	pkt.	\$3.29	S13551	1oz.	\$5.15
S13552	1/4 lb.	\$10.90	S15332	1 lb.	\$26.00
S18032	5 lb.	\$121.00	S21789	25 lb.	\$570.00



KOMATSUNA *Brassica rapa* ssp. *nippisnica*

(35-40 days). Upright plants produce dark green, spoon-shaped leaves to be used in salad or braising mixes. Widely used in numerous Japanese dishes. The slender stems are entirely edible while plants are still young at 4-8".

S15916	pkt.	\$3.29	S20481	1 oz.	\$19.00
S20482	1/4 lb.	\$49.00	S16277	1 lb.	\$150.00

VEGETABLES

SHUNGIKU (EDIBLE CHRYSANTHEMUM)

Chrysanthemum coronarium

(40-45 days). Cut this zesty, edible green just after it appears (4-6" tall) for an unusual addition to salads, canned goods, or freshly prepared vegetable dishes. If left to flower, use the edible flowers to jazz up any presentation.

\$10878 pkt. \$3.29 **\$20490** 1 oz. \$14.00
\$20491 ¼ lb. \$39.00 **\$21815** 1 lb. \$109.00



CHINA CHOI

Brassica rapa ssp. chinensis

(40-45 days). Stir-fry staple with thick, succulent stalks and dark-green leaves forms a loosely headed rosette. Sow in early spring or late summer, 6-8 weeks before frost, to produce a delicious 14-16" tall pac choy.

\$10937 pkt. \$3.29
\$20495 1 oz. \$19.00
\$20496 ¼ lb. \$44.00
\$20498 1 lb. \$95.00



TATSOI *Brassica rapa ssp. narinosa*

(45-55 days). Delicate, mild flavor for salads or stir-fries. Prolific oriental vegetable creates dense rosettes that lay flat to the ground. Can be harvested after a snowfall. Sow in the fall for biggest and best plants.

\$10973 pkt. \$3.29
\$12908 1 oz. \$6.50
\$12909 ¼ lb. \$15.40
\$12911 1 lb. \$31.00
\$18018 5 lb. \$145.00
\$21587 25 lb. \$645.00



MARUBA SANTOH

Brassica rapa

(30-50 days). Non-heading mustard-like green with large, light-green leaves and succulent, broad white stalks. Grows well in high heat and/or humidity. This quick growing, excellent salad or braising mix item comes to us from Japan.

\$21047 pkt. \$3.29
\$21583 1 oz. \$21.00
\$21584 ¼ lb. \$49.00
\$21585 1 lb. \$155.00

AMERICAN *Amaranthus cruentus x A. powelli*

AMARANTH, HOPI RED DYE

(25-40 days). Deep red 4-8" leaves add colorful contrast to salad mixes. Young plants make nutritious steamed greens. Tips can also be cut as additions to a mix.

\$13444 pkt. \$3.29 **\$14903** 1 oz. \$13.00
\$15155 ¼ lb. \$27.00 **\$17972** 1 lb. \$89.00
\$21024 5 lb. \$380.00

AMARANTH, GOLDEN GIANT

(25-40 days). A golden cousin of the 'Hopi Red Dye' offers added contrast to salad mixes. A tasty and nutritious addition to steamed greens.

\$10723 pkt. \$3.29 **\$20476** 1 oz. \$13.00
\$20477 ¼ lb. \$27.00 **\$20479** 1 lb. \$89.00

RUBY ORACH (MOUNTAIN SPINACH)

Atriplex hortensis

(35-40 days). Cultivated since the 1800s, this will do well in warmer climates whereas true spinach will not. In coastal regions, it will perform despite salt and wind effects. The magenta leaves will turn green when cooked, but are colorful additions to salad or micro-green mixes.

\$10747 pkt. \$3.29
\$20485 1 oz. \$17.00
\$20486 ¼ lb. \$45.00
\$20488 1 lb. \$149.00



CRESS

CRESS, CRESSIDA *Lepidium sativum*

(20-30 days). Curly leaved, vigorous cress also known as peppergrass. Can be grown indoors or open field throughout the spring or late summer-early fall.

\$21062 pkt. \$3.29 **\$17995** 1 oz. \$6.00
\$18007 ¼ lb. \$12.00 **\$18028** 1 lb. \$29.00
\$18038 5 lb. \$97.00

UPLAND CRESS *Barbarea verna*

(50-55 days). Dryland watercress-like dark green rosettes are easy to grow. Slow to bolt and long-standing, this plant is sometimes referred to as "creasy greens" by those south of the Mason-Dixon Line. Best cress to grow outdoors.

\$21063 pkt. \$3.29 **\$20499** 1 oz. \$18.50
\$20500 ¼ lb. \$37.00 **\$20502** 1 lb. \$94.00

SORREL, GARDEN

Rumex acetosa

(80-90 days) A tart, lemony leaf, high in vitamin C, accents a salad or hearty soup. Often cooked with Mountain Spinach, the pointed leaves form thick clumps.

\$13443 pkt. \$3.29
\$21286 1 oz. \$16.00
\$21287 ¼ lb. \$52.00
\$21593 ½ lb. \$92.00

MUSTARDS *Brassica juncea*

GREEN WAVE MUSTARD

(40-45 days). Bright green leaves, heavily curled and frilly. This very vigorous mustard does not bolt in the heat as quickly as most others. While 'slick mustard' is often preferred in the South, this variety is quickly becoming the standard on organic vegetable shelves. Hot mustard flavor mellows when cooked.

\$10657 pkt. \$3.29
\$20504 1 oz. \$8.00
\$20505 ¼ lb. \$19.00
\$20507 1 lb. \$67.00

RED GIANT

(20-25 days baby, 45-55 days mature) Attractive, flavorful mustard of large purple-tinted leaves that is slower to bolt than other colors and extremely winter hardy. Use this full size or in a mix, a workhorse

\$10974 pkt. \$3.29 **\$21282** 1 oz. \$7.55
\$21283 ¼ lb. \$18.65 **\$21284** 1 lb. \$66.50
\$21285 5 lb. \$280.00



OSAKA PURPLE

(20-25 days baby, 40-50 days mature) Beautiful, savoyed shaped leaves pungent and sharp tasting when eaten raw. Great as a micro, baby-leaf in mixes or bunched to steam or stir-fry. Cool weather crop, but shows bolt-resistance in warmer temps.

\$10658 pkt. \$3.29
\$11237 1 oz. \$9.00
\$11238 ¼ lb. \$24.00
\$11240 1 lb. \$78.00
\$21281 5 lb. \$370.00

PURPLE WAVE MUSTARD

(70-80 days). This cross between Osaka Purple and Green Wave Mustard was developed by Dr. Alan Kapuler, Seeds of Change co-founder. Light-purple leaves with green edging and semi-frilled leaf margins outstanding on a 1-2' plant. Robust, hot and spicy.

\$14509 pkt. \$3.29 **\$15775** 1 oz. \$9.00
\$16396 ¼ lb. \$21.00 **\$18027** 1 lb. \$74.00

BRAISING MIX LEAF VARIETIES

USUALLY PLANTED ONE WEEK AFTER SALAD MIX LETTUCE CHOICES WHEN CREATING A "SIGNATURE" MIX

Variety	Type	Description	1 oz.	¼ lb.	1 lb.	5 lbs.
Hopi Red Dye	Amaranth	Red spade shaped leaves	\$14903 \$13.00	\$15155 \$27.00	\$17972 \$89.00	\$21024 \$380.00
Golden Giant	Amaranth	Medium green spade shaped leaves	\$20476 \$13.00	\$20477 \$27.00	\$20479 \$89.00	Call for P&A*
Roquette	Arugula	Lobed leaves with nutty flavor	\$13511 \$5.50	\$13512 \$13.00	\$14385 \$37.00	\$18380 \$149.00
Sputnik	Arugula	More strapped leaved than Roquette	\$17981 \$6.00	\$17991 \$15.00	\$18005 \$89.00	\$18010 \$169.00
Sylvetta	Arugula	Deeply lobed leaves, smaller plants. Very cold hardy.	\$21580 \$16.00	\$17107 \$44.00	\$18006 \$159.00	Call for P&A*
Cressida	Cress	Bright green frilled leaves with spicy flavor	\$17995 \$6.00	\$18007 \$12.00	\$18028 \$29.00	\$18038 \$97.00
Bellesque	Endive	Highly frilled pale green leaves, with mildly bitter taste	\$16699 \$25.00	\$16706 \$85.00	\$18014 \$272.00	Call for P&A*
Tres Fine Maraichere	Endive	Narrow, finely cut green leaves with mildly bitter flavor.	\$11376 \$14.00	\$11377 \$44.00	\$11379 \$156.00	\$18030 \$492.00
Mizuna	Mustard	Feathery, mildly spicy, long green leaves.	\$13551 \$5.15	\$13552 \$10.90	\$15332 \$26.00	\$18032 \$121.00
Purple Wave	Mustard	Green base with purplish red highlights. Frilled edges. Spicy taste.	\$15775 \$9.00	\$16396 \$21.00	\$18027 \$74.00	Call for P&A*
Red Giant	Mustard	Large purple-tinted leaves. Extremely winter hardy.	\$21282 \$7.55	\$21283 \$18.65	\$21284 \$66.50	\$21285 \$280.00
Osaka Purple	Mustard	Savoyed medium green leaves, purple-red veins.	\$11237 \$9.00	\$11238 \$24.00	\$11240 \$78.00	\$21281 \$370.00
Tatsai Spoon	Mustard	Dark green spoon shaped leaves with white stems and mild flavor.	\$12908 \$6.50	\$12909 \$15.40	\$12911 \$31.00	\$18018 \$145.00
Green Wave	Mustard	Bright green leaves with frilled edges and spicy flavor.	\$20504 \$8.00	\$20505 \$19.00	\$20507 \$67.00	Call for P&A*
Komatsuna	Mustard	Elongated spoon shaped, deep green leaves with mild flavor.	\$20481 \$19.00	\$20482 \$49.00	\$16277 \$150.00	Call for P&A*
Shungiku	Chrysanthemum	Narrow, highly toothed, succulent leaves with mildly spicy flavor.	\$20490 \$14.00	\$20491 \$39.00	\$21815 \$109.00	Call for P&A*
Ruby Orach	Orach	Velvet purple-red arrowhead shaped leaves.	\$20485 \$17.00	\$20486 \$45.00	\$20488 \$149.00	Call for P&A*
Red Russian	Kale	Medium green ruffled leaves with red stems.	\$11200 \$9.50	\$11203 \$18.35	\$17710 \$47.00	\$20493 \$195.00
Dinosaur	Kale	Deep green savoyed strap leaves.	\$16695 \$8.50	\$16700 \$29.00	\$17717 \$79.00	\$20942 \$339.00
Red Ursa	Kale	Red Russian and True Siberian cross; softer looking leaf.	\$21290 \$14.50	\$21291 \$44.00	\$21292 \$129.00	Call for P&A*
China Choy	Pac Choy	Thick succulent white stalks, dark green leaves.	\$20495 \$19.00	\$20496 \$44.00	\$20498 \$95.00	Call for P&A*

*Call for price and availability

RICCIA PANCALIERI

(45-60 days). Extra cut and fringed leaves offer a unique light green color with pink petioles. Decent tolerance to hotter and colder swings in air temperature for year-round production in many areas.

S21046	pkt.	\$3.29	S20514	¼ oz.	\$9.00
S20515	1 oz.	\$22.00	S20516	¼ lb.	\$74.00
S20517	1 lb.	\$198.00			



EROS

(60-65 days). Early, upright plant with broad green leaves, a yellow heart, and white midribs. Grown for summer and autumn harvest. Has good bolting tolerance and resists tipburn.

S21065	pkt.	\$3.29
S17998	¼ oz.	\$39.00
S18024	½ oz.	\$57.00
S18039	1 oz.	\$96.00
S18049	¼ lb.	\$286.00

RADICCHIO *Cichorium intybus*

SEED PACKETS CONTAIN ~50 SEEDS

EARLY TREVISO

(80-90 days). Long, upright, compact leaves are green in summer. Turns pink to deep red in cooler weather, with white midribs and veins. Tender, slightly bitter yet pleasant tasting leaves and central heart. Very uniform for an open-pollinated variety. 10-14" in height.

S17501	pkt.	\$3.29	S18031	1 oz.	\$18.00
S18045	¼ lb.	\$54.00	S18064	1 lb.	\$189.00

INDIGO

(65-70 days). Early round 4-5" diameter heads with brilliant red inner leaves, white midribs, and green outer leaves. Resistant to bolting and tipburn. As with any radicchio, cut into a mix or lightly sauté to reduce bitter flavor.

S21078	pkt.	\$3.29	S18022	250 seeds	\$14.00
S18041	500 seeds	\$24.00	S18056	1,000 seeds	\$37.00
S18077	5,000 seeds	\$137.00	S18096	25,000 seeds	\$595.00



LEONARDO

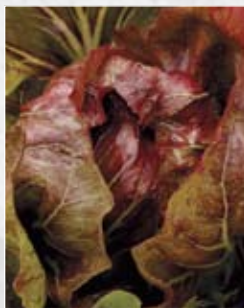
(80-85 days). Extremely vigorous, round, dense, 4-5" diameter red heads resistant to bolting. Great for fall production, as color becomes more intense in cooler weather.

S21079	pkt.	\$3.29
S18019	250 seeds	\$14.00
S18033	500 seeds	\$24.00
S18046	1,000 seeds	\$37.00
S18057	5,000 seeds	\$137.00
S18071	25,000 seeds	\$595.00

EARLY PALLA ROSSA

(85-100 days). Dark green outer leaves surround a dense, 4-5" diameter, round wine-red head with white midribs. Holds well in the field, developing flavor and color as the season progresses into cooler times.

S11068	pkt.	\$3.29	S17121	1 oz.	\$15.25
S17123	¼ lb.	\$55.00	S18026	½ lb.	\$88.00
S18044	1 lb.	\$197.00			



Kale / Collards

Brassica ssp.

SEED PACKETS CONTAIN ~300 SEEDS



DINOSAUR (LACINATO BLUE)

B. oleracea

(50-60 days). Classic Italian 'Dino' kale has deep blue-grey, super-savoyed long and narrow leaves. Extremely winter-hardy variety becomes sweeter after a hard frost. In replicated trials our Lacinato was faster growing and excelled in vigor compared with other commercial sources. Pick leaves with twice the level of anti-oxidant carotenoids compared to other varieties from the bottom up for continuous harvest.

S10894	pkt.	\$3.29	S16695	1 oz.	\$8.50	S16700	¼ lb.	\$29.00
S17717	1 lb.	\$79.00	S20942	5 lb.	\$339.00			

RED RUSSIAN *B. napus*

(50-60 days). Old favorite is an excellent red-veined bunching kale. Sweeter and more tender than other kales during warm weather, yet also tolerates extreme cold. Color deepens in the cold. 24-30" plant height.

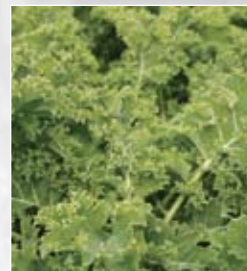
S10642	pkt.	\$3.29	S11200	1 oz.	\$9.50
S11203	¼ lb.	\$18.35	S17710	1 lb.	\$47.00
S20493	5 lb.	\$195.00			



TRUE SIBERIAN *B. napus*

(50-60 days). Large, frilly blue-green leaves grow quickly on this exuberant kale. Slow to bolt in summer and withstands hard frosts. This is an outstanding kale in both flavor and texture.

S10643	pkt.	\$3.29	S20519	1 oz.	\$12.00
S20520	¼ lb.	\$27.00	S20522	1 lb.	\$89.00



RIPBOR F-1 *B. napus*

(65-70 days). Dark green, finely curled Vates type for autumn and winter harvest. Becomes much sweeter with the onset of cold weather as is common with all kales. Resists yellowing and leaf drop. 24-26" plant height.

S20307	pkt.	\$3.29
S17707	1,000 seeds	\$31.00
S17714	5,000 seeds	\$144.00
S17718	25,000 seeds	\$632.00



RED URSA

(55-65 days) A cross between Red Russian and our true Siberian, this striking kale is the most bolt resistant of all. Similar to Red Russian, the leaves are more rounded and curled at the ends.

S10757	pkt.	\$3.29
S21290	1 oz.	\$14.50
S21291	¼ lb.	\$44.00
S21292	1 lb.	\$129.00



VATES CHAMPION COLLARD

Oleracea var. acephala

(65-80 days). Robust collard with thick, long, wavy, dark blue-green and tender leaves. Tolerant of temperature extremes and has some bolt resistance. More compact with a long-standing habit. (~10 seeds/pkt.)

S11085	pkt.	\$3.29
S21293	1 oz.	\$24.00
S21294	¼ lb.	\$54.00
S21295	1 lb.	\$97.00

Kohlrabi *Brassica oleracea*



KORIST F-1

(60-65 days). Very early variety, suitable for open field or protected environments. Has a flat globe shape with mild, crisp white flesh that holds while staying tasty and crunchy.

S20364	pkt.	\$3.29
S18274	1,000 seeds	\$30.00
S18279	5,000 seeds	\$140.00
S18283	10,000 seeds	\$260.00
S18288	25,000 seeds	\$593.00

- SEED PACKETS CONTAIN~100 SEEDS
- KOHLRABI AGRONOMICS, SEE PAGE 10

LEEK AGRONOMICS

SEED PACKETS CONTAIN ~300 SEEDS

GROWING CONDITIONS

Leeks are widely-adapted but grow best in cool, moderate climates. They are best grown on well-drained, fertile soils with good moisture retention and a pH of 6.5-7. Leeks have a shallow root system and require consistent soil moisture. Hilling the shanks of the leeks several times a season to blanch is a common practice.

PLANTING

Seed early spring, about 4-6 weeks before average last frost date or late summer for a fall planting. Use our new Planting Guide for Vegetables (p34-35) to determine seeding depth, spacing and rates. Transplanting: Transplant seedlings 10-12 wk. old or when pencil thick. Harden off for 1-2 wks. prior to planting. Bury seedlings 4-6" deep to blanch shanks.

HARVEST/STORAGE

Harvest when shanks reach a good marketable size. Strip browned and dirty outer leaves and trim tops to prepare for market. Smaller leeks can be harvested late summer, while hardy varieties may be harvested throughout the winter or the following spring. During warm weather, hydro-cool post-harvest prior to storage. Store leeks at 32°F and 95-100% RH.

PEST AND DISEASE PREVENTION

Practice crop rotations (3-4 years) between all Alliaceae species to control white rot and other diseases. Cover with floating row covers in areas where onion maggot or thrips are a problem. Nearby insectaries can also harbor beneficials to help control pests as they become troublesome.

Leeks *Allium ampeloprasum*

SHERWOOD

(75-85 days). Use this King Richard-type leek either as a quick growing full-size product for fresh market or thickly to produce mini leeks. Shanks can grow a foot tall before leafing. Mild, sweet flavor on high yields. Not an over-wintering variety.

S10930	pkt.	\$3.29
S20527	1 oz.	\$24.00
S20528	¼ lb.	\$59.00
S20530	1 lb.	\$175.00

FALLTIME

(80-90 days). The longest shank and most tender eating leek we carry. The delicious shanks can grow up to 3' long. It is considered a summer leek, as it will not winter-over in hard conditions.

S10929	pkt.	\$3.29	S11558	1 oz.	\$17.00
S11559	¼ lb.	\$55.00	S11561	1 lb.	\$172.00

SCOTLAND

(85-90 days). A Scottish heritage in this leek goes back many generations. The hardy, short shank produces wonderful flavor and texture. Our best over-wintering variety.

S11091	pkt.	\$3.29
S12980	1 oz.	\$18.00
S12981	¼ lb.	\$54.00
S12983	1 lb.	\$170.00
S21596	5 lb.	\$490.00

PRIZETAKER

(110-135 days). Extremely cold hardy with tender, solid 8-10" shanks of excellent eating quality. This venerable leek is also known as Lyon. Plant height reaches to 30-36" on this class.

S17514	pkt.	\$3.29	S17708	1 oz.	\$15.00
S17712	¼ lb.	\$49.00	S17726	1 lb.	\$164.00

TADORNA *Vitalis*

(120-130 days). Contrasting medium-length white shaft with very dark, upright, blue-green foliage. Holds well throughout the winter in moderate climates. A superb, quality fall leek with some leaf disease resistances.

Check back later on for availability

BANDIT

(130-140 days). Blue-green, erect flag and very thick 12-13" shanks that exhibit no bulbing. Harvest during autumn or winter. Extremely winter hardy.

S21067	pkt.	\$3.29
S17711	1,000 seeds	\$9.00
S17715	5,000 seeds	\$29.25
S17721	25,000 seeds	\$109.00
S17727	50,000 seeds	\$184.00
S17732	100,000 seeds	\$320.00



Lettuce *Lactuca sativa*

LOOSELEAF LETTUCE

Green Leaf



TWO STAR

Often considered the standard for greenleaf lettuces, this slower bolting Waldmann's type appears more often on store shelves across America than pretty much all others.

(~200 seeds/pkt.)

S21604	pkt.	\$3.29
S21297	1,000 seeds	\$4.65
S21298	5,000 seeds	\$9.80
S21299	25,000 seeds	\$33.65
S21300	100,000 seeds	\$97.00
S21605	500,000 seeds	\$387.00

WALDMANN'S

(50-55 days). This is the original standard for green-leaf lettuces in the produce trade. Performs better in the early spring or when harvested in the fall, but it is possible for summer production depending on location

S21598	pkt.	\$3.29	S21599	¼ oz.	\$7.00
S21600	1 oz.	\$18.00	S21601	¼ lb.	\$43.00
S21602	1 lb.	\$119.00	S21603	5 lb.	\$570.00



BLACK-SEEDED SIMPSON

(50-55 days). Introduced in 1850, this well-traveled variety still earns praise for its bright green, sweet tasting, large, and crumpled leaves. Succulent inner leaves are nearly self-blanching. Stands up to the heat and drought. Slow bolter, never bitter, yet early and adaptable. Important salad mix variety.

S10649	pkt.	\$3.29	S21296	¼ oz.	\$7.00
S20537	1 oz.	\$13.00	S20538	¼ lb.	\$34.00
S20540	1 lb.	\$94.00			

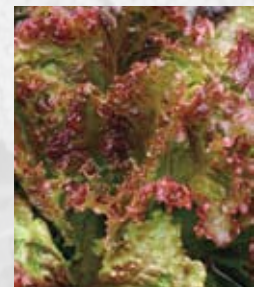


THAI GREEN

(50-55 days). As the name implies, this light-green lettuce tolerates much hotter weather compared to most lettuces without becoming bitter. Its small frame matures to a presentable, fresh market package.

S11114	pkt.	\$3.29
S21301	¼ oz.	\$6.85
S20541	1 oz.	\$12.00
S20542	¼ lb.	\$33.00
S20544	1 lb.	\$92.00

Red Leaf



NEW RED FIRE

(55-60 days). Beautiful red ruffled leaves held aloft by a green base and interior. Relatively slow to bolt, this red leaf has been the standard for years in the commercial shipper market. Tough to beat.

S21038	pkt.	\$3.29
S20549	1,000 seeds	\$4.05
S20550	5,000 seeds	\$8.95
S20551	25,000 seeds	\$26.00
S20552	100,000 seeds	\$78.00
S20888	500,000 seeds	\$297.00

ROUGE DE GRENOBLOUSE

(55-60 days). Batavian qualities make beautiful purplish-red savoyed leaves with a green interior. Tolerates heavy frost, yet extremely bolt resistant, it remains sweet and marketable two weeks after reaching maturity. Durable to ship, its first rate flavor and appearance combine to make this an outstanding commercial red leaf lettuce.

S10735	pkt.	\$3.29	S20317	¼ oz.	\$6.50
S11364	1 oz.	\$17.00	S11365	¼ lb.	\$59.00
S11367	1 lb.	\$193.00	S17763	5 lb.	\$786.00

RED SAILS

(29 days, baby; 50-55 days, full) Still the slowest bolting red leaf around, yet the brittle ribs do not recommend this one for commercial shipping. The attractive heads have ruffled, fringed leaves of deep, burgundy over green. Nice and crisp, it retains its bitter-free taste for a long time.

S21607	pkt.	\$3.29	S21606	¼ oz.	\$6.90
S21347	1 oz.	\$12.50	S21348	¼ lb.	\$34.00
S21346	1 lb.	\$119.00	S21349	5 lb.	\$505.00

Green Oak

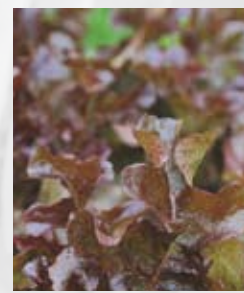


EMERALD OAK

(55-65 days). A butter and green oak cross by Seeds of Change grower, Frank Morton. Brilliant green, oak-shaped leaves form a tight rosette with a soft buttery texture. One of the sweetest in our trials. Gorgeous harvested as baby or full heads.

S16138	pkt.	\$3.29	S20319	¼ oz.	\$11.00
S16423	1 oz.	\$22.00	S16424	¼ lb.	\$69.00
S16425	1 lb.	\$257.00	S17753	5 lb.	\$935.00

Red Oak



OSCARDE

(55-60 days). Compact, red oak leaf-type lettuce produces an exceptionally full rosette of deep red, curled oak shaped leaves. A good red oak leaf for shipping.

S21608	pkt.	\$3.29
S20944	1,000 seeds	\$6.00
S20945	5,000 seeds	\$19.00
S20946	25,000 seeds	\$69.00
S20947	100,000 seeds	\$169.00
S20948	500,000 seeds	\$545.00

RED OAK LEAF

(55-60 days). Stunning large oak-shaped leaves mature to a deep burgundy. Somewhat heat tolerant, but exceptionally vigorous in cooler weather.

S10647	pkt.	\$3.29	S20324	¼ oz.	\$7.00
S14441	1 oz.	\$14.90	S14442	¼ lb.	\$29.00
S16459	1 lb.	\$95.00			



BRONZE ARROW

(60-65 days). Delicious and uniquely attractive, slow to bolt and retains its strong vigor and beauty after light frosts. Very cold hardy. Unique arrow-shaped leaves make beautiful heads. Baby leaves add diversity to salad mixes.

S11129	pkt.	\$3.29	S20318	¼ oz.	\$6.90
S13529	1 oz.	\$14.25	S13530	¼ lb.	\$32.00
S14409	1 lb.	\$99.00			

BATAVIAN (SUMMER CRISP)

Crisp and juicy like the icebergs, though with the attractive color and appearance of the loose-leaf lettuces. These lettuces tolerate the summer heat much more than the others with their unusually thicker leaf. Often used as additions to salad mixes for their weight and shelf life.

GREEN SUMMER CRISP

CONCEPT

(50-55 days). Outstanding, dense Batavian type suitable for salad mixes or full-size heads. Exceptionally sweet flavor. Good heat resistance and holds up well in cool fall conditions. (~100 seeds/pkt.)

S21609	pkt.	\$3.29	S20949	1000 seeds	\$5.40
S20950	5000 seeds	\$9.70	S20951	25,000 seeds	\$37.00
S50952	100,000 seeds	\$120.00	S20913	500,000 seeds	\$545.00



Signature Mesclun Mix sprinkled with edible flowers and petals.

NEVADA

(50-55 days). Heavy head of bright green leaves that form an upright spiral. Thick leaves resist tipburn, bottom rot and bolting. Throughout the summer heat, its taste remains mild and sweet.

S21071	pkt.	\$3.29	S21344	¼ oz.	\$7.00
S20561	1 oz.	\$26.00	S20562	¼ lb.	\$75.00
S20564	1 lb.	\$186.75	S20895	5 lb.	\$850.00

REINE DES GLACES

(65-70 days). The French call it "Queen of the Ices" for its wild-looking spikes on the outer wrapper leaves, which resemble a crown. Excellent baby leaf with good loft and unique frilly leaf edge. Grows in the cold when others have stopped.

S11082	pkt.	\$3.29
S20316	¼ oz.	\$6.50
S14879	1 oz.	\$25.00
S14880	¼ lb.	\$69.00
S15317	1 lb.	\$179.00
S17771	5 lb.	\$820.00



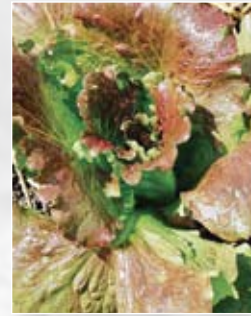
SALAD MIX LETTUCE CHOICES

USE THIS CHART TO PRIMARILY CHOOSE SUITABLE SALAD MIX CHOICES

Variety	Type	Description	Prices/1 oz.	Prices/¼ lb.	Prices/1 lb.	Prices/5 lbs.
Dark Lolla Rossa	Lolla Rossa	Broad, deep dark red, highly frilled leaves	\$20902 \$17.00	\$20903 \$59.00	\$20904 \$190.00	\$20905 \$780.00
Simpson Black Seeded	Green Leaf	Bright green, frilled leaves	\$20537 \$13.00	\$20538 \$34.00	\$20540 \$94.00	Call for P&A*
Thai Green	Green Leaf	Bright green savoyed leaves with frilled edges, heat tolerant	\$20541 \$12.00	\$20542 \$33.00	\$20544 \$92.00	Call for P&A*
Red Sails	Green Leaf	Purplish-red savoyed leaves with green interior. Slow bolt.	\$21347 \$12.50	\$21348 \$34.00	\$21346 \$119.00	\$21349 \$505.00
Merlot	Red Leaf	Very deep burgundy, savoyed leaves with frilled edges	\$17742 \$19.00	\$17756 \$59.00	\$17774 \$190.00	\$20906 \$950.00
Redina	Red Leaf	Dark red broad leaves with frilled edges. Downy Mildew resistant.	\$17758 \$19.00	\$17770 \$69.00	\$21816 \$225.00	\$20907 \$930.00
Emerald Oak	Green Oak	Green, compact, rounded oak leaves	\$16423 \$22.00	\$16424 \$69.00	\$16425 \$257.00	\$17753 \$935.00
Bronze Arrow	Red Oak	Green to red-bronze, rounded arrow leaves, cold hardy	\$13529 \$14.25	\$13530 \$32.00	\$14409 \$99.00	Call for P&A*
Red Oak Leaf	Red Oak	Large, burgundy, oak-shaped leaves. Cold tolerant	\$14441 \$14.90	\$14442 \$29.00	\$16459 \$95.00	Call for P&A*
Cosmo-Savoy	Romaine	Large, green, savoyed leaves. Cold tolerant	\$11344 \$16.00	\$11345 \$51.00	\$11347 \$169.00	\$17735 \$692.00
Forellenschluss	Romaine	Green with red splashes, upright leaves	\$15200 \$16.00	\$15201 \$49.00	\$16415 \$159.00	\$17745 \$509.00
Ruben's Red	Red Romaine	Red with emerald green base, savoyed. Cold tolerant	\$13539 \$19.45	\$13540 \$56.00	\$14643 \$148.00	\$17772 \$525.00
Outredgeous	Red Romaine	Deep red ruffled strap leaves	\$20909 \$19.00	\$20910 \$44.00	\$20911 \$149.00	\$20912 \$575.00
Reine Des Glaces	Summer Crisp	Green, extra frilly, toothed edges. Downy mildew resistant.	\$14879 \$25.00	\$14880 \$69.00	\$15317 \$179.00	\$17771 \$820.00
Green Deer Tongue	Green Bibb	Green, pointy, thick strap leaves	\$15740 \$18.00	\$15741 \$49.00	\$16715 \$139.00	\$17755 \$498.00
Red Deer Tongue	Red Bibb	Red with green tinted, pointy leaves	\$11562 \$19.00	\$11563 \$52.00	\$11565 \$145.00	\$17752 \$505.00
Sucrine	Buttercos	Green romaine leaf with buttery texture	\$11218 \$23.00	\$11219 \$69.00	\$11221 \$245.00	\$17764 \$890.00
Winter Density	Buttercos	Dark green, upright, slightly savoyed	\$11222 \$21.00	\$11223 \$65.00	\$11225 \$195.00	\$17765 \$887.00
Rouge d'Hiver	Red Buttercos	Green with red highlights. Heat and cold tolerant	\$20914 \$19.00	\$20915 \$47.00	\$20916 \$139.00	\$20917 \$445.00
Riccia Pancallieri	Endive	Light green leaves, extra cut & fringed with pink petioles	\$20515 \$22.00	\$20516 \$74.00	\$20517 \$198.00	Call for P&A*

*Call for price and availability

Red Summer Crisp



CARDINALE
(50-60 days). Very consistent, tight bronze-red iceberg type. An eye catcher highly rated for baby leaf with thick shiny leaves, but equally good as a full size head. Good for summer and fall production. Tolerant to bottom rot and tipburn. (~100 seeds/pkt.)

S21610	pkt.	\$3.29		
S20953	1,000 seeds	\$6.00		
S20954	5,000 seeds	\$14.00		
S20955	25,000 seeds	\$45.00		
S20956	100,000 seeds	\$144.00		
S20957	500,000 seeds	\$590.00		

SANTA FE

(55-60 days) Early Batavian lettuce with texture like a crisphead produces a very loose head of outer leaves rimmed in bronze surrounding a bright interior of a small, blanched head. Heat tolerant lettuce as only summer crisp types can be.

S21618	pkt.	\$3.29	S21337	¼ oz.	\$11.00
S21335	1 oz.	\$29.00	S21336	¼ lb.	\$65.00
S21334	1 lb.	\$175.00	S21619	5 lb.	\$595.00

BUTTERHEADS

Green

OPTIMA

(55-60 days). Dark green, big-framed 12-14" butterhead tolerant to heat. A high level of resistance to downy mildew, bottom rot, and tipburn. Optima is a standard in this class of lettuces. (~100 seeds/pkt.)

S21611	pkt.	\$3.29	S20958	1,000 seeds	\$5.90
S20959	5,000 seeds	\$11.00	S20960	25,000 seeds	\$37.00
S20961	100,000 seeds	\$97.00	S20962	500,000 seeds	\$469.00



CAPITAINE

(60-65 days). Impressively large and tight, light-green 8-10" heads made of curly leaves with a delicate, soft texture. Captain of the butterheads in flavor.

S11128	pkt.	\$3.29	S20310	¼ oz.	\$6.50
S13531	1 oz.	\$25.00	S13532	¼ lb.	\$69.00
S15319	1 lb.	\$179.00	S17730	5 lb.	\$820.00



SYLVESTA

(50-60 days). Large, fresh-looking, medium-green butterhead. Strong against heat and tipburn, robust against bolting. Resistant to downy mildew (races 1-17,19,21,&23) and the Nasonovia aphid. Compare to Nancy. (~200 seeds/pkt.)

S21074	pkt.	\$3.29		
S20565	1,000 seeds	\$6.75		
S20566	5,000 seeds	\$30.25		
S20567	25,000 seeds	\$119.80		
S20568	100,000 seeds	\$397.00		

Red

PIRAT

(45-50 days). Medium green with an overlay of brick-red, gently savoyed leaves on a medium large frame. Well-folded, tender hearts blanch to a creamy yellow. Reliable and well-adapted to all seasons, but especially strong in warm weather. Bolt resistant and compact.

S10645	pkt.	\$3.29	S21345	¼ oz.	\$6.50
S20570	1 oz.	\$21.00	S20571	¼ lb.	\$69.00
S20573	1 lb.	\$184.00	S20901	5 lb.	\$790.00

CARMONA RED

(50-55 days). Very large, extremely vigorous, bright red 10-12" butterhead. Holds well in the field and demonstrates strong disease resistance.

S17517	pkt.	\$3.29		
S20963	1,000 seeds	\$5.90		
S20964	5,000 seeds	\$11.00		
S20965	25,000 seeds	\$37.00		
S20966	100,000 seeds	\$97.00		
S20967	500,000 seeds	\$469.00		

ROXY

(45-55 days). Voluminous, red heading lettuce with slightly blistered leaves and an attractive, shiny color. Slow to bolt, very strong against tipburn on a solid base. Roxy is a successful standard variety in the global organic community. (~100 seeds/pkt.)

S21073	pkt.	\$3.29		
S20574	1,000 seeds	\$14.00		
S20575	5,000 seeds	\$55.00		
S20576	25,000 seeds	\$224.00		
S20577	100,000 seeds	\$690.00		



LETTUCE AGRONOMICS

SEED PACKETS CONTAIN ~450 SEEDS

GROWING CONDITIONS

Lettuce is a cool-season crop and grows best at 60-70°F, but can be planted early spring as soon as the soil can be worked. Seed dormancy can occur at temperatures above 90°F. Optimum growth occurs on well-drained, fertile, high organic matter soils with a pH of 6-7. Provide adequate Ca and avoid excessive N and P to prevent tipburn. Irrigate frequently to provide continuous moisture and cool the soil, but avoid water logging. Use shade cloth when sowing in hot weather.

PLANTING

Lettuce can be direct-seeded or transplanted. Plant head lettuces approximately every three weeks and baby leaf once a week for continuous harvests. Sow less frequently during cool spring and fall conditions. Optimum germination occurs from 60-70°F, but seeds will germinate at as low as 40°F. Use our new Planting Guide for Vegetables (p34-35) to determine seed depth, spacing and rates. Seed at higher densities (up to 60 seeds/ft.), often scattered, for baby leaf production. Transplanting: Sow in open flats or plug trays and transplant when seedlings are 4-6 weeks old. Barely cover seeds with soil or vermiculite.) Approximately ¼ lb./acre or 1 oz./7,000 row ft. seed is needed for transplanting. Harden-off plants prior to transplanting.

HARVEST/STORAGE

Hydro-cool lettuces post harvest by dipping in near-freezing water. Wash, gently drain and pack as soon as possible, and then store in cooler. Lettuce, particularly butter and loose leaf types, are fragile and should be handled as little as possible. Lettuce is best stored at 32°F and 98-100% RH, but will incur freezing damage at 31°F.

PEST AND DISEASE PREVENTION

Downy mildew is one of the most serious diseases of lettuce. Varieties are available with resistance packages to some or all races of this fungal pathogen. Disease pressure for this and other lettuce diseases may be mitigated by increasing row spacing, orienting rows for optimum air flow, using drip irrigation, and practicing crop rotations. Lettuce mosaic virus (LMV) is transmitted by many species of aphids and can also be seed-borne. Encourage beneficial insect activity to suppress aphid population.

FOUR SEASONS

(60-70 days). Classic 8-12" butterhead with a rich, velvety texture, deep-red savoyed outer leaves and a creamy heart. Fast maturing, all-season variety is compact and cold tolerant.

S10731	pkt.	\$3.29	S20312	¼ oz.	\$6.90
S15195	1 oz.	\$14.25	S15196	¼ lb.	\$32.00
S14640	1 lb.	\$113.00	S17747	5 lb.	\$487.00

ROMAINE LETTUCE

GREEN



FRESH HEART

(68-73 days) A very dense romaine with yellow interior and medium green outer leaves makes for excellent pack-out. Wrapper leaves are slightly savoyed on a 11-13" frame. An excellent commercial variety works well in the desert during the wintertime. (~200 seeds/pkt.)

S21614	pkt.	\$3.29	S21333	1,000 seeds	\$8.00
S21331	5,000 seeds	\$21.00	S21332	25,000 seeds	\$49.00
S21330	100,000 seeds	\$127.00	S21615	500,000 seeds	\$570.00



JERICHO

(60-65 days). Bred for the hot desert of Israel, this robust, bolt-resistant variety stays sweet and crisp in hot weather. Holds up the best in summer heat of all varieties trialed at our New Mexico research farm. Very large, medium green, dense 14-16" heads are great for packing.

S11032	pkt.	\$3.29	S20329	¼ oz.	\$7.50
S11629	1 oz.	\$15.00	S11630	¼ lb.	\$39.00
S11631	1 lb.	\$116.00	S18187	5 lb.	\$565.00

VERTE MAR

(65-75 days). Dark green, mid-sized and semi-savoyed romaine. This consistent lettuce can be grown for salad mix leaves or grown-out to a full head. Great for either spring or fall production.

S21075	pkt.	\$3.29	S21351	¼ oz.	\$6.50
S20579	1 oz.	\$15.00	S20580	¼ lb.	\$42.00
S20582	1 lb.	\$129.00	S20583	5 lb.	\$545.00

BARCAROLE

(70-75 days). Compact 10-12" romaine with dark-green, crisp leaves, a rich flavor, and beautiful hearts. Exceptionally frost tolerant.

S11119	pkt.	\$3.29	S20326	¼ oz.	\$6.90
S13527	1 oz.	\$12.00	S13528	¼ lb.	\$37.00
S16421	1 lb.	\$112.00	S17719	5 lb.	\$550.00



COSMO-SAVOY

(60-65 days). Fast-growing, deep green savoyed Romaine with wavy margins and blanched hearts is best grown as a fall lettuce. Makes a stunning 10-14" full size head. Ruffled edges add loft to salad mixes.

S10728	pkt.	\$3.29			
S20327	¼ oz.	\$7.40			
S11344	1 oz.	\$16.00	S11345	¼ lb.	\$51.00
S11347	1 lb.	\$169.00	S17735	5 lb.	\$692.00

LITTLE CAESAR

(65-75 days). Vigorous romaine of miniature stature, perfect for close spacing. Dark green, savoyed, thick outer leaves with golden inner. Very sweet taste throughout. Useful for salad mix, teenage heads or full-sized. Best when spring planted.

S21037	pkt.	\$3.29	S21343	¼ oz.	\$6.90
S20584	1 oz.	\$17.00	S20585	¼ lb.	\$44.00
S20587	1 lb.	\$127.00	S20588	5 lb.	\$555.00

CLAREMONT

(45-50 days) An elegant mini green romaine. The upright heads average 9" tall with deep green leaves of delicious, crispy ribs, open at the top, and tapering to a dense heart. Ideal for specialty markets. Works well in a rainbow mixed box of mini-heads. Resistant to DM.

S21612	pkt.	\$3.29	S21327	¼ oz.	\$8.00
S21325	1 oz.	\$21.00	S21326	¼ lb.	\$49.00
S21324	1 lb.	\$149.00	S21613	5 lb.	\$605.00

RED

RUBEN'S RED

(60-65 days). Deep burgundy, sweet and juicy savoyed leaves with an emerald-green base. Crisp and shiny, forms a beautiful 12-14" head or cut into a mix for an attractive salad leaf. Cool weather variety, plant in early spring or late summer.

S10648	pkt.	\$3.29		
S20330	¼ oz.	\$7.70		
S13539	1 oz.	\$19.45		
S13540	¼ lb.	\$56.00		
S14643	1 lb.	\$148.00		
S17772	5 lb.	\$525.00		



SPECIALTY

GREEN DEER TONGUE

(50-60 days). Medium green, pointy-leafed fall lettuce with tapered cos-like leaves that form a loose head at maturity. Very buttery texture and thick leaves. Contrasting green color for any salad mix. Tight rosettes at a young age make this an excellent choice for baby head production.

S16640	pkt.	\$3.29	S20320	¼ oz.	\$7.00
S15740	1 oz.	\$18.00	S15741	¼ lb.	\$49.00
S16715	1 lb.	\$139.00	S17755	5 lb.	\$498.00



WINTER DENSITY

(55-65 days). Dark green, upright 8-10" heads have a crisp texture and broad, slightly savoyed leaves. Slow bolter, also withstands light frosts. Best suited for mature salad mixes in both summer and fall.

S10651	pkt.	\$3.29	S20309	¼ oz.	\$9.00
S11222	1 oz.	\$21.00	S11223	¼ lb.	\$65.00
S11225	1 lb.	\$195.00	S17765	5 lb.	\$887.00

SUCRINE

(60-65 days). Smaller-headed (6-8") French gourmet variety with both romaine and butterhead tendencies. Has a very buttery texture and excellent flavor, perfect for teenage mixes. Very well suited for baby leaf or teenage in dense plantings. Cold tolerant for fall and/or winter in milder areas.

S10650	pkt.	\$3.29	S20308	¼ oz.	\$8.00
S11218	1 oz.	\$23.00	S11219	¼ lb.	\$69.00
S11221	1 lb.	\$245.00	S17765	5 lb.	\$890.00

RED DEER TONGUE

(60-65 days). Named for its pointed leaves with thick midribs, which form tender rosettes. Slow to bolt and cold resistant.

S10938	pkt.	\$3.29		
S20323	¼ oz.	\$7.50		
S11562	1 oz.	\$19.00		
S11563	¼ lb.	\$52.00		
S11565	1 lb.	\$145.00		
S17752	5 lb.	\$505.00		





HAOGEN



SWAN LAKE



SUN GOLD



EIN DOR



CHARENTAIS



CRENSHAW



ARAVA



BLENHHEIM ORANGE



EEL RIVER



HALE'S BEST

Melons *Cucumis melo*

SPECIALTY

HAOGEN

(80-90 days). Unusual yet dependable Israeli variety has juicy, light-green flesh and a sweet, tangy flavor reminiscent of citrus and pineapple. Thin, mottled green skin turns yellow on maturity. With thinner, more delicate skin than most other melons, it is best sold for direct market or CSA.

\$10652	pkt.	\$3.29	\$21361	¼ oz.	\$8.45
\$13549	1 oz.	\$18.85	\$13550	¼ lb.	\$40.00
\$17787	1 lb.	\$103.00	\$17795	5 lb.	\$445.00

SWAN LAKE

(80-90 days). An Asian-type specialty melon with exceptional flavor packaged inside a smooth yellow rind accented with white sutures. The white flesh is uniquely swirled with orange, peach, and salmon in a 2-3 pound fruit. Clearly a fresh market melon.

\$10806	pkt.	\$3.29	\$21352	¼ oz.	\$9.00
\$12785	1 oz.	\$16.00	\$12786	¼ lb.	\$32.00
\$12788	1 lb.	\$97.00	\$20598	5 lb.	\$447.00

SUN GOLD CASABA

(85-95 days). A short-season wonder stores extremely well. Flesh ripens to a sweet and juicy finish inside a golden fattened football-shaped exterior, roughly 3-5 pounds. These melons will ship a long way.

\$10945	pkt.	\$3.29	\$21368	¼ oz.	\$8.00
\$11578	1 oz.	\$16.00	\$11579	¼ lb.	\$31.00
\$11581	1 lb.	\$90.00	\$20603	5 lb.	\$425.00

EEL RIVER

(90-100 days). Often referred to as the Crane melon, continual selections in refinement make this one of our finest melons. Bear Jones of Humboldt County, CA, grew-out this unique melon with

seed from Japan after WWII. Luscious orange flesh is infused with a distinctive, creamy peach flavor throughout this 3-8 lb. beauty. Uniform fruits. Full slip.

\$13451	pkt.	\$3.29	\$21359	¼ oz.	\$9.00
\$14883	1 oz.	\$21.00	\$14884	¼ lb.	\$43.00
\$17783	1 lb.	\$109.00	\$17789	5 lb.	\$447.00

EIN DOR

(100-110 days). A fragrant bouquet with a hint of banana flavor sets this 2½ lb. melon apart. Small seed-cavity inside sweet, juicy pale-green flesh. Slow to mature, but worth the wait.

\$16142	pkt.	\$3.29	\$21360	¼ oz.	\$7.00
\$16688	1 oz.	\$16.00	\$16697	¼ lb.	\$26.00
\$20605	1 lb.	\$89.00	\$20606	5 lb.	\$358.00

CHARENTAIS

(80-90 days). Legendary in Provence, France, for its superb, gourmet flavor. The dense aromatic flesh is extremely sweet and has been rated the most flavorful from an independent taste panel. Tricky to determine when to cut the fruit from the vine; look for when the juncture between fruit and stem starts to crack. The fruit will remain delicious thereafter, but perhaps unsaleable. 1½-2½ lb fruit.

\$21621	pkt.	\$3.29	\$21356	¼ oz.	\$7.00
\$21354	1 oz.	\$19.00	\$21355	¼ lb.	\$44.00
\$21353	1 lb.	\$134.00	\$21622	5 lb.	\$525.00

CRENSHAW

(90-100 days). Velvety, smooth flesh encapsulated as pale orange and juicy. This one is a favorite on our research farm. The large, oval fruits are dark green, non-netted, yet become streaked with yellow when ripe. 4-6 lb. fruit.

\$14152	pkt.	\$3.29	\$21358	¼ oz.	\$7.00
\$16691	1 oz.	\$14.00	\$16696	¼ lb.	\$31.00
\$21357	1 lb.	\$96.00	\$21620	5 lb.	\$445.00

GALIA

ARAVA F-1

(70-75 days). Outstanding main season Galia melon with powdery mildew race I resistance. Uniform high quality, blemish-free 3-4 lb. melons with exceptionally sweet flesh make it an instant favorite. Good shipper as it keeps well. Comes in a bit earlier than the named Galia melon. Full slip. (~20 seeds/pkt.)

\$17532	pkt.	\$3.29
\$17773	250 seeds	\$19.00
\$17786	1,000 seeds	\$54.00
\$17790	5,000 seeds	\$225.00
\$17796	10,000 seeds	\$390.00

GALIA F-1

(70-80 days). Classic Galia melon has aromatic, sweet green flesh. Slightly oval fruit, approximately 6" in diameter. Heavily netted fruits have moderate resistance to powdery mildew. Full slip. (~20 seeds/pkt.)

\$21623	pkt.	\$3.29
\$17777	250 seeds	\$9.00
\$17791	1,000 seeds	\$29.00
\$17798	5,000 seeds	\$138.00
\$17804	10,000 seeds	\$258.00

MUSKMELON

SIVAN F-1

(75-85 days). Sweet melon has rich orange flesh with a hint of butterscotch flavor. Fruits are round with ridging and slight netting, charentais-like quality. Sivan ranked #1 for flavor with the highest soluble solids content and 3rd highest in yield out of 52 commercial melon varieties trialed at Rutgers University in 2006. Full slip. (~100 seeds/pkt.)

\$21626	pkt.	\$3.29
\$17782	250 seeds	\$14.00
\$17794	1,000 seeds	\$41.00
\$17801	5,000 seeds	\$143.00
\$17809	10,000 seeds	\$250.00

ROCKY FORD

(85-95 days). Renowned for its firm, fine-textured, and sweet, salmon-colored flesh. An industry benchmark for its shipability. The slightly ribbed exterior is well-netted. Has some powdery mildew resistance. 2-3 lb. fruits.

\$15019	pkt.	\$3.29	\$21366	¼ oz.	\$6.00
\$21363	1 oz.	\$12.00	\$21365	¼ lb.	\$29.00
\$21364	1 lb.	\$89.00	\$21625	5 lb.	\$374.00

BLENHHEIM ORANGE

(80-85 days). Muskmelon/cantaloupe of orange flesh with a finely netted exterior. Though on the small size, this 1-2 pound fruit is perfect as a single-serving dessert melon with surpassing taste and aroma. Its eating quality gives every bit the aromatic taste sought. One of our more cold tolerant melons.

\$10981	pkt.	\$3.29	\$21369	¼ oz.	\$7.00
\$12920	1 oz.	\$14.00	\$12921	¼ lb.	\$31.00
\$12923	1 lb.	\$96.00	\$20593	5 lb.	\$355.00



SHARLYN

(85-95 days). Juicy, aromatic pale-green flesh turns orange around the seed cavity. Dark-green rind matures to yellow or orange with a shallow, full net. Remarkably consistent great flavor and texture, with high productivity and good holding capacity. Ideal for direct market or wholesale.

\$10804	pkt.	3.29	\$21367	¼ oz.	\$7.00
\$11462	1 oz.	\$14.00	\$11463	¼ lb.	\$31.00
\$11465	1 lb.	\$96.00	\$17780	5 lb.	\$445.00

HALE'S BEST JUMBO

(80-90 days). Great taste of firm, sweet, aromatic flesh. The oval fruits have a yellow-green rind with a heavy-coarse net and slight rib. Drought and mildew tolerant. 3-4 lb. fruit.

\$14153	pkt.	\$3.29	\$21362	¼ oz.	\$7.00
\$14443	1 oz.	\$13.00	\$14444	¼ lb.	\$31.00
\$14410	1 lb.	\$98.00	\$21624	5 lb.	\$397.00

MELON & WATERMELON AGRONOMICS

SEED PACKETS CONTAIN ~35 SEEDS

GROWING CONDITIONS

Melons are a frost-sensitive, heat-loving crop. They grow best on light, well-drained soils with a pH above 6.0. Plastic mulch or floating row covers are often used to increase soil and air temperatures in cooler regions, but covers must be removed during flowering to allow for pollination. Melons are best grown with drip irrigation. Provide ample water and nutrients throughout growing period to maintain green healthy foliage. Reduce watering during fruit maturation, as too much water will dilute soluble solids content and sweetness of fruit.

PLANTING

Optimum temperature for germination is 70-95°F. Seed in the spring after all danger of frost has past, when soil temperatures reach 65°F. Direct seed: Melons are most commonly direct seeded. Use our new Planting Guide for Vegetables (p34-35) to determine seeding depth, spacing, and rates. Transplanting: Transplanting is sometimes used in areas with shorter seasons to achieve maturity. Plant 3-4 week old seedlings when soils have warmed and all danger of frost has passed.

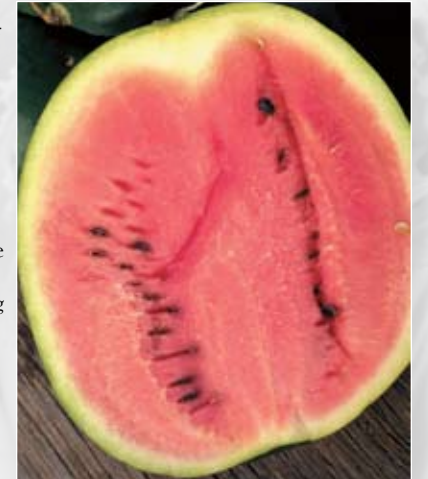
WATERMELONS *Citrullus lanatus*

Note: Watermelon Fruit Blotch is a bacterial disease that can be spread by infected seed, transplants, or by mechanical means. We have done everything possible to insure our seeds are not infected, however, due to the seriousness of this disease we require all watermelon customers sign a waiver prior to purchase. Please see the back of our order form to locate the waiver and send in the signed waiver along with your order. Thank you

SUGAR BABY

(75-80 days). If you are one of few who remain uninitiated to the summertime treat of a Sugar Baby, you will revel in its abundant fruit set on thick, near-black rinds at maturity. The quality and sweetness of the flesh is good and the smaller overall ~10 lb. size makes icebox cooling easy. A must on any farmstand during long, hot summers.

\$14155	pkt.	\$3.29
\$15748	1 oz.	\$9.00
\$20608	¼ lb.	\$27.00
\$20609	1 lb.	\$79.00
\$20610	5 lb.	\$295.00



VERONA

(80-90 days). An exceptionally flavorful fruit with firm, red flesh. The round shape has a dark green rind that is thin but tough for good ship ability, and the early producer has fusarium wilt and anthracnose disease resistance. 10-30 lb fruit.

\$10656	pkt.	\$3.29	\$12703	1 oz.	\$14.00
\$12704	¼ lb.	\$49.00	\$12706	1 lb.	\$127.00
\$21507	5 lb.	\$425.00			

HARVEST/STORAGE

Harvest muskmelons at full slip for fresh market sales, half slip for shipping. Honeydew melons are ripe when the stem end is slightly springy and the skin begins to turn a creamy yellow. Watermelons are difficult to determine ripeness, however, with experience the hollow sound emitted when thumping with your finger can be a reliable technique. USDA grade 1 melons must have at least 8% sugar content, but 10-14% is desirable for fresh market. Sugars will not increase post-harvest. Melons are best marketed fresh, but if storage is necessary they may be held for short periods. Ideal holding temperatures are 32-34°F and 75% RH for muskmelons, and 36-40°F and 75-85% RH for honeydews and watermelons.

PEST AND DISEASE PREVENTION

Foliar diseases such as powdery and downy mildew, Alternaria blight, and anthracnose can be managed by avoiding overhead irrigation, using mulches to minimize splash-dispersal of spores, and practicing crop rotations for all species of Cucurbitaceae. Floating row covers prior to flowering will protect from cucumber beetle damage.

MALALI 

(90-100 days). A rare Israeli original, it needs a hot summer climate to reach its full sweetness, yet once arriving, it will be potently sweet with light-red flesh and unique black-ringed, tan seeds.

\$11093	pkt.	\$3.29	\$11678	1 oz.	\$10.50
\$11679	¼ lb.	\$29.00	\$11681	1 lb.	\$79.00
\$21498	5 lb.	\$295.00			



MOON AND STARS  

(85-95 days). Distinctive watermelon is sure to grab everyone's attention. Small, slightly oval fruit are splashed with irregular, bright orange yellow shapes to conjure up the imaginings of its name. The flesh is a dark pink with a moderate sweetness and citrus overtone. 3-5 lb fruit.

\$14154	pkt.	\$3.29	\$21500	1 oz.	\$15.00
\$21501	¼ lb.	\$54.00	\$21499	1 lb.	\$134.00
\$21502	5 lb.	\$460.00			



SWEET DAKOTA ROSE  

(80-90 days). Developed over 30 years ago by ND farmer David Podoll, this watermelon has been voted the sweetest with the least amount of seeds of all we offer. A cross between Early Canada and Black Diamond, after many generations of selections, this bright-red fleshed melon adapts well to cooler, shorter seasons. 10-20 lb fruit.

\$17168	pkt.	\$3.29	\$21504	1 oz.	\$24.00
\$21505	¼ lb.	\$89.00	\$21503	1 lb.	\$325.00



CRIMSON SWEET

(85-100 days). All America Selection Winner in 1964, this classic has juicy red flesh with high sugar content, few seeds, crisp texture, and rich flavor. Full-size fruits on 8-10 ft. vines. Thrives in most climates.

\$10653	pkt.	\$3.29	\$12699	1 oz.	\$10.50
\$12700	¼ lb.	\$29.00	\$12702	1 lb.	\$79.00
\$17785	5 lb.	\$295.00			



DESERT KING 

(90-110 days). Juicy, golden flesh with a tangy sweetness. Fruits are light green, shaped round to slightly oval. As the name implies, this is an excellent melon for the desert southwest. The extremely productive and rare melon produces 20-30 lb. fruits.

\$10808	pkt.	\$3.29	\$12789	1 oz.	\$13.00
\$12790	¼ lb.	\$45.00	\$12792	1 lb.	\$119.00
\$21497	5 lb.	\$410.00			

Okra *Abelmoschus esculentus*



LOUISIANA GREEN VELVET

(55-65 days). Exceptionally slender, smooth, 3-4 "green pods. Retains its vibrant color when cooked. Fast growing okra that keeps on producing over a long period.

\$14549	pkt.	\$3.29	\$15754	1 oz.	\$8.00
\$15073	¼ lb.	\$24.00	\$17803	1 lb.	\$79.00
\$17815	5 lb.	\$295.00			

RED VELVET

(60-70 days). Beautiful scarlet-red pods, leaves, and stems. Pods are slightly curved with gentle ridges. Vigorous plants produce 3-5 in. tender pods. An unexpected yet delightful addition to flower arrangements.

\$10722	pkt.	\$3.29	\$11336	1 oz.	\$9.00
\$11337	¼ lb.	\$26.00	\$11339	1 lb.	\$84.00
\$17793	5 lb.	\$305.00			



WINDY WOOD GREEN  

(55-65 days). Produces deep green, extra smooth and tender pods of the finest eating quality. Continue to pick daily for a long harvest period. Requires a warm environment to excel.

\$21039	pkt.	\$3.29	\$21371	1 oz.	\$11.00
\$21372	¼ lb.	\$36.00	\$21370	1 lb.	\$91.00
\$21373	5 lb.	\$334.00			

OKRA AGRONOMICS

SEED PACKETS CONTAIN ~40 SEED PACKETS

GROWING CONDITIONS

Okra is a tropical plant that grows optimally in hot climates. Best grown in well-drained, fertile sandy or silt-loam soils with a pH of 6-7. Adequate soil moisture should be applied throughout the growing period.

PLANTING

Okra can be direct-seeded or transplanted. Plant when soil temperatures reach at least 60°F, optimally 75-90°F. Planting Guide for Vegetables (p34-35) to determine seeding depth, spacing, and rates. Germination may be enhanced by soaking seed overnight prior to planting. Transplanting: Transplant 4-5 wk. old seedlings.

HARVEST/STORAGE

Pick fruits when young and tender (about 5-6 days after flowering). Handle with care as fruits are easily injured. Regular harvests increase yields. Market fresh or store at 45-50°F and 90-95% RH. Chilling injury may occur at temperatures below 45°F.

PEST AND DISEASE PREVENTION

Practice crop rotations. Avoid planting into cool soils. Scout for and remove stink bugs, which can cause wart-like growths on pods.

**A Word from
Seeds of Change Research**

Over many years and in many places, either as a plant breeder or as a product developer, I have visited many farms and talked with many growers. Whether large operations in Florida, Mexico, Central America, or small farms in the fertile valleys of Syria and Turkey, my frustration with what I saw and heard remained the same. It was this inescapable global trend towards uniformity: one crop, AND if possible, one variety!

Organic farms are very different not only in their scale, but also whether they supply a CSA, a farmer's market or a retailer. Organic farms are about diversity! As a seed company, our first duty is to provide superior seed quality and reliable genetics to the professional grower.

The next obvious question becomes, "What about being an organic seed company?" The vision at Seeds of Change for research and development activities is to work for diversity and not against it. This means building partnerships with plant breeders willing to work on flavor traits, colors, shapes, low

input fertilization techniques, interactions with insects and "weeds", disease resistances, local adaptation, and more.

We want you to buy our seeds not because there is a regulation that specifies you must buy them. We want you to buy our seeds because we bring something unique to your product offering, something more adapted to organic cultural practices. While this might sound like a long term approach, we have already put into place and run a broad trial network with growers, universities and extension services to match different growing conditions. In addition, your feedback as growers who buy our seed will be extremely important in our choices of varieties. As the future approaches, we are looking forward to growing together.

RICHARD BERNARD
RESEARCH MANAGER
SEEDS OF CHANGE
SAN JUAN PUEBLO, NEW MEXICO



**MARK YOUR CALENDAR FOR
OUR EXCITING EVENT IN 2009:**

Seeds of Change in cooperation with the International Federation of Organic Agriculture Movements (IFOAM) is organizing the global conference 'Breeding for Diversity – Plant and Animal Breeding for Organic and Low Input Agriculture, to be held August 26 – 28, in Santa Fe, New Mexico. IFOAM's mission is leading, uniting and assisting the organic movement in its full diversity. Their goal is the world wide adoption of ecologically, socially and economically sound systems that are based on the principles of Organic Agriculture. We are thrilled to partner with them on this event. Won't you come join us!



www.seedsofchange.com
877.470.7619


Planting Guide For Vegetables

Variety	Planting Rates				Planting Distances				
	Direct Seeded	Transplants	Direct Seeded	Per Acre	Seed Count (per oz.)	Between Rows (inches)	Apart in Row After Thinning (inches)	Planting Depth (inches)	Days to Germ
Artichoke	½ oz.	20	½ lb.	1,452	1,000	72	60	½	7-14
Asparagus	1 oz.	65-100	2-3 lbs.	7,260 -14,520	800	36-48	12-18	1-1½	7-21
Basil, Sweet	¼ oz.	60-100	1 lb.	17,423	22,500	24-36	10-12	¼	7-10
Bean, Fava	¾-1 lb.	-	100-150 lbs.	-	14-18	18-30	10-12	¼	7-10
Bean, Snap Bush	½-1 lb.	-	50-80 lbs.	-	60-90	18-30	2-3	1-½	6-10
Bean, Snap Pole	½-1 lb.	-	40-70 lbs.	-	60-100	36-48	4-6	1-½	6-10
Bean, Lima Bush	1-2 lbs.	-	50-70 lbs.	-	20-70	24-30	3-6	1-½	7-12
Bean, Lima Pole	½-1 lb.	-	25-40 lbs.	-	20-65	30-36	6-10	1-½	7-12
Beet	2 oz.	-	8-12 lbs.	-	1,500	12-18	2	½	7-12
Broccoli	½ oz.	70-85	1 lb.	11,616 -18,669	7,750	24-30	14-18	¼	6-9
Brussels Sprouts	½ oz.	65-100	1 lb.	11,616 -21,780	8,000	24-30	12-18	¼	6-9
Cabbage	½ oz.	60-100	1 lb.	10,445 -21,780	7,750	24-30	12-20	¼	6-9
Cabbage, Chinese	½ oz.	-	1 lb.	-	7,000	18-24	10-12	¼	6-9
Cantaloupe/Melons	1 oz.	-	1½-2 lbs.	6,534 -13,067	1,200	60-96	12	½	7-12
Carrot	½ oz.	-	2-5 lbs.	-	23,000	18-30	1-2	¼	12-18
Cardoon	½ oz.	-	-	-	700	36	18	½	8-14
Cauliflower	½ oz.	65-70	1 lb.	9,680 -11,616	8,900	30-36	18	¼	6-9
Celeriac	¼ oz.	150	1-2 lbs.	26,137-32,671	60,000	24-30	8	⅞	9-21
Celery	¼ oz.	150	1-2 lbs.	26,137-32,671	60,000	24-30	8	⅞	9-21
Chard, Swiss	2 oz.	-	8-10 lbs.	26,137-32,671	1,500	18-24	4-8	½	7-12
Chicory	½ oz.	120	1-2 lbs.	-	17,000	24	10	¼	12
Chive	1 oz.	-	2-3 lbs.	-	18,000	10-16	8	¼	8-12
Collards	½ oz.	80-120	3-4 lbs.	13,940 -26,136	8,000	24-30	10-15	¼	4-10
Coriander	2 oz.	-	8-12 lbs.	-	2,550	12-18	3-4	½	7-10
Corn, Sweet (Su/Se)	4 oz.	-	8-12 lbs.	-	100-200	30-36	8-14	1	5-12
Corn, Sweet (Sh ₂)	2-3 oz.	-	6-10 lbs	-	200-250	30-36	8-14	1	5-12
Cucumber	1 oz.	100	1½-3 lbs.	-	1,000	48-72	12	¾	7-10
Dill	1 oz.	-	2-3 lbs.	-	22,500	18-36	4-8	½	21
Eggplant	¼ oz.	67	1-2 lbs.	9,680	6,000	36	18	½	10-14
Endive	1 oz.	100-134	1-2 lbs.	21,780 -58,080	15,000	12-24	9-12	¼	10-14
Fennel, Florence	1 oz.	-	3 lbs.	-	7,100	18-24	6-8	½	6-17
Garlic, (Cloves)	-	5 lbs.	-	1,200 -1,500 lbs.	-	12-18	2-4	1	6-10
Kale	½ oz.	100-150	1-2 lbs	21,780 -43,560	7,500	18-24	8-12	½	3-10
Kohlrabi	½ oz.	300-400	2-3 lbs.	65,340 -116,160	8,000	18-24	3-4	¼	3-10
Leek	½ oz.	300-600	2-3 lbs.	87,120 -261,160	10,000	12-18	2-4	½	10-14
Lettuce, Head	½ oz.	86-100	1-2 lbs.	18,669 -29,040	20,000	18-24	12-14	¼	5-10
Lettuce, Leaf	½ oz.	200-300	1-2 lbs.	58,080 -130,680	20,000	12-18	4-6	¼	5-10
Mustard	1 oz.	-	2-3 lbs	-	15,000	12-18	2-6	¼	5-8
Okra	2 oz.	-	6-8 lbs.	-	500	28-36	15-18	1	8-12
Onion, (Seeds)	1 oz.	-	2½-3 lbs.	-	8,000	12-24	3-4	½	8-12
Onion, Seeds	1 oz.	-	2½-3 lbs.	-	8,000	12-24	3-4	½	7-12
Onion (Transplant)	-	300-400	-	65,340 -174,240	-	12-24	3-4	1-2	7-12
Onion, Sets (Bulbs for Planting)	-	2 lbs.	-	-	-	12-24	3-4	1-2	-
Onion, Bunching	Most seasons acceptable for growing green onions from seed-See Onion (seeds) for guide in planning.								
Parsley	½ oz.	-	3-4 lbs.	-	15,000	12-20	3-6	¼	15-20
Peas	1-2 lbs.	-	60-90 lbs.	-	90-150	18-30	2-3	1	7-10
Pepper	¼ oz.	50-67	2-3 lbs.	7,260 -14,520	4,000	24-36	18-24	½	10-14
Potato (Tubers)	-	10-12 lbs.	-	2,000 -2,100	-	30-36	6-10	4-6	8-16
Pumpkin	1 oz.	-	2-3 lbs.	100	72-120	30	1	7-12	7-12
Radish	1 oz.	-	10-12 lbs.	-	2,500	6-12	1-2	½	3-6
Radish, Daikon	1 oz.	-	4-6 lbs.	-	1500	18-24	4-6	½	5-7
Rutabaga	½ oz.	-	2-4 lbs.	-	8,000	18-24	8-12	½	5-10
Soybean	8 oz.	-	60-80 lbs.	-	175-350	24-36	3-4	1½	6-14
Spinach	1 oz.	10-15 lbs.	-	2,500	12-18	2-4	¾	¾	7-12
Squash, Summer	2 oz.	-	2-3 lbs.	-	300	60-96	16-24	1	7-10
Squash, Winter	1 oz.	-	2-3 lbs.	-	100	72-120	24-48	1	7-10
Tomato	½	35-65	1-2 lbs.	2,904 -9,680	10,000	36-60	18-36	½	7-14
Turnip	1 oz.	-	2 lbs.	-	9,000	15-18	1-3	¼	5-10
Watermelon, Small	½-1 oz.	-	1-2 lbs.	5,803	500-600	60-84	12-18	½-1	7-12
Watermelon, Large	1 oz.	-	2-3 lbs.	4,252	200-300	60-84	12-18	1	7-12

Onions *Allium cepa*

STORAGE YELLOW



MUSTANG F-1 
(90-100 days). Early and productive variety produces round 2½-3½" bulbs with a glossy yellow skin. Intermediate to long day type suited to long term storage.

S21627	pkt.	\$3.29
S17802	1,000 seeds	\$7.50
S17806	5,000 seeds	\$29.00
S17813	25,000 seeds	\$97.00
S17824	100,000 seeds	\$340.00




RIVERSIDE
(100-105 days). Short to intermediate day allium produces a globe-shaped, slightly flattened 3-4" bulb. Yellow brown skin of firm white flesh with a mildly pungent taste. Stores well for over five months. Pink root resistant.


S17303	pkt.	\$3.29
S21391	¼ oz.	\$15.00
S20611	1 oz.	\$17.00
S20612	¼ lb.	\$51.00
S17587	1 lb.	\$154.00

VALENCIA
(105-130 days). Large 4-6" globes, up to one pound, with a warm golden brown skin. Very adaptable for short to long day regimes. Utah strain of Yellow Sweet Spanish Onion is mild-flavored and a moderately good keeper. Also makes an excellent bunching onion when young.

S11095	pkt.	\$3.29	S21374	¼ oz.	\$11.00
S12984	1 oz.	\$19.00	S12985	¼ lb.	\$61.00
S12987	1 lb.	\$184.00			

CORTLAND F-1 
(105-110 days). Heavy-shouldered, very firm yellow 3-4" globe with rich brown, glossy skin and thin necks. Excellent keeper. Intermediate to long day type.

S21630	pkt.	\$3.29	S17797	1,000 seeds	\$7.50
S17805	5,000 seeds	\$29.00	S17816	25,000 seeds	\$97.00
S17823	100,000 seeds	\$340.00			

NEWBURG 
(110-120 days). Hot storage onion has 3-4" globe-shaped bulbs with amber wrapper leaves and crisp white flesh. An exceptional keeper. Long to intermediate day type.



S10970	pkt.	\$3.29
S21386	¼ oz.	\$11.00
S17138	1 oz.	\$24.00
S17147	¼ lb.	\$59.00
S17818	1 lb.	\$198.00

ONION AGRONOMICS

SEED PACKETS CONTAIN ~100 SEEDS

GROWING CONDITIONS
 Onions are a hardy crop adapted to a wide range of growing conditions. Day-length is important in variety selection of bulbing onions. Onions are an acid-sensitive crop and grow best on fertile, well-drained soils with a pH of 6-6.8. Shallow roots require light, frequent irrigations when plants are young. Stop watering when bulbs have reached full size and the tops drop.

PLANTING
 Seed as soon as soil can be worked in spring. Usually planted early spring, onions are sometimes late summer/early fall planted and overwintered. Germination occurs when soil temperatures are 50-85°F. Use our new Planting Guide for Vegetables (p34-35) to determine seeding depth, spacing, and rates. Transplanting: Start sowing mid-winter (Jan-Feb) and transplant 10-12 week old seedlings as soon as the ground can be worked. Harden-off for two weeks prior to planting.

HARVEST/STORAGE
 Onions for use in the green stage are harvested as soon as they attain edible size. For onions that are to be stored, harvest when tops are between 20-40% broken down. If left in the ground until foliage has completely dried down, bulbs may develop new roots, which reduce storage period and market value. Pull onions and field dry in windrows if possible, or bring into covered area to dry prior to storage. Cure for 3-4 weeks prior to storage ensuring that neck tissue is dry before topping and storing. Store at 32-35°F and 70-75% RH. Warm onions gradually when removing from storage to avoid sweating and minimize deterioration.

PEST AND DISEASE PREVENTION
 Botrytis leaf blight, gray mold, downy mildew, and purple blotch are fungal diseases of onions that can be challenging to control; Practice crop rotations (3-4 years) for all Alliaceae species and thoroughly compost or turn under all crop debris. Cover with floating row cover in areas with high onion maggot or thrips pressure. Nearby insectaries can also harbor beneficials to help control pests as they become troublesome.

CONSIDER PELLETS FOR YOUR ONIONS.
 BE SURE TO ORDER IN ADVANCE OF NEED.
 CALL US FOR DETAILS AT 877.470.7619


RED



ROSSA DI MILANO
(110-120 days). Very attractive, glossy, red Italian 3-4" onion with medium-hot flavor. Flat top tapers to a barrel-shaped bottom. A long to intermediate day type tolerant of cool climates. Very uniform shape. Excellent keeper.

S10983	pkt.	\$3.29
S21392	¼ oz.	\$16.00
S15764	1 oz.	\$29.00
S15700	¼ lb.	\$84.00
S16422	1 lb.	\$234.00




REDWING F-1 
(115-120 days). Large, dark red 3-3½" globe continues to develop its internal red coloring during storage. Excellent skin quality and good scale retention. Very hard bulbs that can be stored for the long term. Intermediate to long day type.

S21632	pkt.	\$3.29
S17811	1000 seeds	\$6.90
S17822	5000 seeds	\$21.00
S17835	25,000 seeds	\$88.00
S17842	100,000 seeds	\$299.00


RED BARON
 Details can be found in "bunching" section (P 38). Dual purpose onion.

WHITE

GLADSTONE 
(110-120 days). Medium-large white 3-3½" globes comparable to Blanco Duro. Very productive as a medium keeper. Intermediate to long day type.

S21076	pkt.	\$3.29
S20971	1000 seeds	\$4.95
S20972	5000 seeds	\$19.00
S20973	25,000 seeds	\$75.00
S20974	100,000 seeds	\$224.00














SWEET SISKIYOU SWEET 
(100-110 days). First brought to Walla Walla, Washington from Corsica around 1900, this unique selection is a treasure from the Siskiyou mountains of southwestern Oregon. Huge 5-7", sweet Spanish onion with light brown skin and mild, white flesh. Long-day type, but produces well in medium-day length areas. Plant for wintering-over in milder areas. Not a storage onion.

S10659	pkt.	\$3.29
S21393	¼ oz.	\$14.00
S13553	1 oz.	\$24.00
S13554	¼ lb.	\$66.00
S16430	1 lb.	\$196.00
S17832	5 lb.	\$714.00



ONION VARIETY COMPARISON

Variety	Color	Type	DTM	Day Length	Size	Shape	Flavor
Mustang F-1	Glossy Yellow	Storage	90-100	Intermediate to long	2½-3½"	Globe	Very Pungent
Riverside	Yellow Brown	Storage	100-105	Short to Intermediate	3-4"	Globe	Medium Pungent
Valencia	Golden Brown	Storage	105-130	Intermediate	4-6"	Globe	Medium Pungent
Cortland F-1	Rich Brown	Storage	105-110	Intermediate to Long	3-4"	Globe	Medium Pungent
Gladstone	White	Storage	110-120	Intermediate to Long	3-3½"	Globe	Medium Pungent
Newburg	Amber	Storage	110-120	Intermediate to Long	3-4"	Flattened Globe	Very Pungent
Rossa Di Milano	Glossy Red	Storage	110-120	Intermediate to Long	3-4"	Flat Top Barrel	Medium Pungent
Red Baron	Red	Storage	100-115	Intermediate to Long		Globe	Medium Pungent
Redwing F-1	Red Skin Internal Red	Storage	115-120	Intermediate to Long	3-3½"	Globe	Medium Pungent
Siskiyou Sweet	Light Brown	Sweet	100-110	Intermediate to Long	5-7"	Globe	Sweet

KEY CODES	SEED SUPPLIER
 Seeds of Change Original Variety	 Bejo  Mesa Maize
 Heirloom	 Chriseed  Orsetti Seeds
 New This Year	 Genesis Seeds Ltd.  Sakata Seed
	 Hild  Vitalis

BUNCHING/SPECIALTY MINI-PURLETTE

(60-65 days). Attractive purple-red skinned mini-onion with delicate, mild flavor. Looks great either topped or bunched with tops intact. Can be harvested very young as a bunching onion or as a 'pearl' onion. Turns pink when lightly cooked.

S17300	pkt.	\$3.29	S21385	¼ oz.	\$12.00
S20618	1 oz.	\$21.00	S20619	¼ lb.	\$48.00
S20621	1 lb.	\$104.00			



RED BARON F-1

(100-115 days). Makes a striking scallion/buncher when seeded tightly and harvested around 60 days. Also finishes out as an excellent large, red storage onion with vigorous tops and roots. Thick skin lengthens relatively long storage capacity, and color improves over time. Intermediate to long day type.

S21628	pkt.	\$3.29	S20614	1,000 seeds	\$7.25
S20615	5,000 seeds	\$27.00	S20616	25,000 seeds	\$89.00
S20617	100,000 seeds	\$284.00			



Photo by Brian Kimmel, Optic Nerve Productions



LISBON WHITE

(65-75 days). White, 10-12" bunching onion has a delicate flavor and is beautiful in bunches. Very hardy with a long harvest period. Slight bulb projects at the finish.

S15084	pkt.	\$3.29
S21383	¼ oz.	\$9.00
S17142	1 oz.	\$14.00
S17151	¼ lb.	\$39.00
S17812	1 lb.	\$124.00



PARADE

(70-80 days). Very uniform variety with dark green foliage and little to no bulb. Vigorous grower and a mild, pleasing onion flavor. 8-11" in length.

S21633	pkt.	\$3.29
S17808	1,000 seeds	\$5.45
S17817	5,000 seeds	\$16.00
S17830	25,000 seeds	\$59.00
S17836	100,000 seeds	\$104.00

YELLOW CIPOLLINI

(75-85 days). Medium-small, straw-yellow cipollini onion with exceptional flavor, both pungent and sweet. Patience is required for shape to manifest. Stores well. Recommended for latitudes 38-60°. Necks can become too thick at lower latitudes.

S17534	pkt.	\$3.29
S21399	¼ oz.	\$11.00
S20623	1 oz.	\$24.00
S20624	¼ lb.	\$62.00
S20626	1 lb.	\$196.00



TORPEDO RED BOTTLE

(100-110 days). This rarely offered, intermediate to short day variety has a spicy, hot flavor and is a moderate keeper. Bulbs were carefully selected for their elongated, torpedo shape (3"x 6-8"), and for their ability to produce single bulbs.

S11094	pkt.	\$3.29
S21394	¼ oz.	\$11.00
S17825	1 oz.	\$22.00
S17837	¼ lb.	\$74.00
S17849	1 lb.	\$188.00



Peas *Pisum sativum*

SHELLING



PIONEER

(55-70 days). Flavorful shelling pea of bountiful 3-4" pods bears 6-9 peas per pod. This 20-24" plant produces a good freezing variety of husked peas.

S11076	pkt.	\$3.29
S11643	1 lb.	\$9.80
S11644	5 lb.	\$39.50
S20628	25 lb.	\$190.00
S20629	100 lb.	\$675.00

OREGON TRAIL

(55-70 days). Delicious and productive English shelling pea. Yield is mostly 2 pods of 3" length from each node. Compact plant, 20-24" in height.

S11075	pkt.	\$3.29	S20630	1 lb.	\$9.95
S20631	5 lb.	\$44.00	S20632	25 lb.	\$197.00
S20633	100 lb.	\$690.00			

PEA AGRONOMICS

SEED PACKETS CONTAIN ~75 SEEDS

GROWING CONDITIONS

Peas are a cold-hardy crop, tolerant of cool soils. Best planted on uniform, well-drained soils with a pH above 6.5. Trellis fresh market peas for optimum quality and production.

PLANTING

Direct-seed in spring as soon as the soil can be worked. For a fall crop seed about 60 days before fall frost. Optimum germination occurs at 50-75°F. Inoculate seed with Rhizobium bacteria prior to planting for optimum N fertility. Peas are direct-seeded for commercial production. Use our new Planting Guide for Vegetables (p34-35) to determine seed depth, spacing and rates.

HARVEST/STORAGE

Harvest fresh market peas frequently to encourage continuous production. Cool immediately after harvest to avoid loss of sugar content. Store at 32°F and 85-95% RH.

PEST AND DISEASE PREVENTION

Peas are susceptible to various soilborne seed and seedling rots as well as foliar diseases such as Ascochyta blight and powdery mildew. Avoid overhead irrigation, trellis and increase plant spacing to maximize airflow, practice crop rotations, and compost crop debris to manage these and other diseases. Heavy thrips pressure may be controlled by use of row covers or OMRI-approved spinosad sprays.

SNAP/EDIBLE PODS

CASCADIA

(55-70 days). Short vines produce plentiful thick and juicy 3" snap peas. Good main season variety with resistance to pea enation and powdery mildew. Developed by Dr. James Baggott at Oregon State University.

S11078	pkt.	\$3.29
S20634	1 lb.	\$9.95
S20635	5 lb.	\$42.00
S20636	25 lb.	\$185.00
S20637	100 lb.	\$670.00



SUGAR DADDY

(60-65 days) Determinate 24-30" vines require little support to produce stringless first-rate, flavorful snap peas, two pods for each node, concentrated at the top to make for easy multiple pickings. This pea is actually a cross between a shelling and snow pea.

S21636	pkt.	\$3.29
S21400	1 lb.	\$9.70
S21403	5 lb.	\$45.00
S21402	25 lb.	\$214.00
S21401	100 lb.	\$746.00



SNOW

SUGAR POD II

(60-70 days). Thick and succulent, with ever-so tender 6-8 juicy berries form inside the edible pods. Two pods per node. A reliable 3-4" snow pea that thrives in cool weather. Excellent producer on a 24-30" vine.

S11077	pkt.	\$3.29
S20638	1 lb.	\$9.95
S20639	5 lb.	\$39.00
S20640	25 lb.	\$178.00
S20641	100 lb.	\$670.00



OREGON GIANT

(70-75 days). The first sweet-flavored, large-podded snow pea. Its sweet berries combine with its large 4½"x1" medium-green pods to make the harvest quick. Variety was developed by Dr. James Baggott of Oregon State University. 2½' vines grow with or without support.

S11079	pkt.	\$3.29
S11655	1 lb.	\$10.10
S11656	5 lb.	\$44.00
S11657	25 lb.	\$192.50
S21638	100 lb.	\$690.00

Peppers *Capsicum annuum*

(unless noted)

BELL



BENDIGO F-1 (55-65 days). Very early variety with particular suitability for production in cold greenhouses, late spring and summer. Excellent for open field production. Fruits are relatively small, though uniformly blocky with thick walls. Sets fruit very well, though fruit pruning is recommended. Very adaptable to all locations. (~5 seeds/pkt.)

\$21640	pkt.	\$3.29
\$21408	50 seeds	\$19.00
\$20657	250 seeds	\$79.00
\$20658	1,000 seeds	\$189.00



DOUBLE UP F-1 (60-70 days) Popular green to red bell pepper recognized for its consistent and dependable performance. Also known for its wide adaptability. Mid-early maturity with yields of high quality, extra large, 3-4 lobed blocky fruit. Medium large plant with great cover. Resistant to BLS 1, 2, & 3. (~20 seeds/pkt.)

\$21641	pkt.	\$3.29	\$21409	50 seeds	\$7.00
\$20925	250 seeds	\$23.35	\$20926	1,000 seeds	\$79.50
\$20927	5,000 seeds	\$339.75			

YANKEE BELL

(60 days, green; 80 days, red) As the name implies, it is for northern growers. Blocky, 3-4 lobed, medium size, green to red fruits. The plant has numerous branches for good leaf cover. Initial set may have fewer, though smooth and thick-walled peppers. Pick for productivity. They hold well onto the sweet red stage.

\$21646	pkt.	\$3.29	\$21432	1/8 oz.	\$12.00
\$21430	1 oz.	\$41.00	\$21431	1/4 lb.	\$129.00
\$21429	1 lb.	\$395.00			



CAL WONDER BELL (65-75 days). Archetypal bell pepper, tender, sweet and juicy without a hint of pungency. The dark-green 3-4" peppers ripen to a bright crimson. The fruits are large and blocky with 3-4 lobes and thick walls. Vigorous 18-24" upright plants.

\$14160	pkt.	\$3.29
\$21642	1/8 oz.	\$11.00
\$21643	1 oz.	\$39.00
\$21644	1/4 lb.	\$114.00
\$21645	1 lb.	\$395.00



CAL WONDER ORANGE BELL

(60 days-green, 80 days-orange ripe). Beautiful, glossy orange bell peppers with thick, sweet walls and 3-4 lobes. Productive plants provide good canopy cover, reducing pressure for sunscald.

\$17171	pkt.	\$3.29
\$17156	1/8 oz.	\$12.50
\$17841	1 oz.	\$42.00
\$17850	1/4 lb.	\$129.00
\$17861	1 lb.	\$395.00



MAGNO F-1

(65-75 days). Blocky green to orange maturing sweet pepper. Particularly adapted to non-heated greenhouse and plastic tunnel production, but performs in the open field as well. Strong plant with early production and high total yields.

\$21779	50 seeds	\$66.00
\$20662	250 seeds	\$220.00
\$20663	1000 seeds	\$767.00



PURPLE BEAUTY BELL

(70-80 days). Stocky bell comes ready to eat once the fruits turn a stunning deep purple with green undertone. Crisp and succulent, the 4-lobe fruits are thick walled and very productive. An 18-24" plant.

\$14552	pkt.	\$3.29
\$21422	1/8 oz.	\$14.00
\$21420	1 oz.	\$64.00
\$21421	1/4 lb.	\$189.00
\$21419	1 lb.	\$444.00

LAMUYO

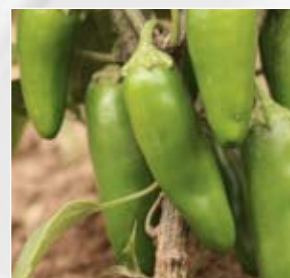


TEJAS F-1

(65-75 days). Larger than life, green-to-red Lamuyo pepper. Strong plant sets early, producing fruit throughout the season. Thick-walled fruit with a length of over 6". Widely adaptable with high resistance to numerous MV and intermediate resistance to tomato spotted wilt virus. (~5 seeds/pkt.)

\$21647	pkt.	\$3.29
\$20670	50 seeds	\$27.50
\$20667	250 seeds	\$109.15
\$20668	1,000 seeds	\$328.45

CHILES



JALAPEÑO, EARLY

(55 days-green, 75 days-red ripe). Early maturing jalapeño has classic shape and substantial heat units in slightly smaller fruits. Great for short season locations.

\$17008	pkt.	\$3.29
\$17143	1/8 oz.	\$8.00
\$17839	1 oz.	\$27.00
\$17851	1/4 lb.	\$69.00
\$17859	1 lb.	\$225.00



TRIUNFO F-1

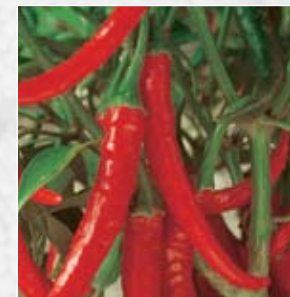
(65-75 days). Top selling jalapeño on extra large and vigorous plant producing excellent yields. Extra large fruits are very dark green and pungent. Resistant to bacterial leaf spot races 1,2, & 3 and potato virus Y, strains 0,1, & 2. (~15 seeds/pkt.)

\$21788	pkt.	\$3.29
\$20642	250 seeds	\$24.00
\$20643	1,000 seeds	\$79.00
\$20644	5,000 seeds	\$349.00

RING-O-FIRE CAYENNE

(80-85 days). While a little longer than the traditional cayenne fruit, this chile packs even more heat, is higher yielding and easier to pick. Great dried, fresh or strung up in a ristra.

\$10789	pkt.	\$3.29
\$15750	1/8 oz.	\$9.50
\$11449	1 oz.	\$33.00
\$11500	1/4 lb.	\$84.00
\$14647	1 lb.	\$260.00



HIDALGO

(80-90 days). This flame-shaped pepper is similar to a Serrano on a stockier, more vigorous, and higher-yield plant.

\$10861	pkt.	\$3.29
\$17838	1/8 oz.	\$15.00
\$17863	1 oz.	\$69.00
\$17869	1/4 lb.	\$197.00



ANCHO/POBLANO

(90-110 days). Among the most popular chiles in Mexico. Mildly hot, long, broad-shouldered fruits are used for making chile rellenos and mole. Known as Poblano when fresh, Ancho when dried.

\$10779	pkt.	\$3.29
\$15743	1/8 oz.	\$9.00
\$11437	1 oz.	\$29.00
\$11438	1/4 lb.	\$79.00
\$17831	1 lb.	\$250.00



HABANERO *Capsicum chinense*

(90-100 days). Native to Central America's tropical lowlands, this world-famous, scalding hot pepper thrives where summers are long, hot, and humid. Lantern-shaped fruits ripen to a striking golden orange. Reported to be 1,000 times hotter than the jalapeño!

\$14158	pkt.	\$3.29
\$15761	1/8 oz.	\$7.00
\$17834	1 oz.	\$27.00
\$17848	1/4 lb.	\$69.00
\$17860	1 lb.	\$225.00

NUMEX BIG JIM

(75-85 days) Jumbo chiles turn green to red, 8-12" in length, are thick-walled of mild to medium heat, perfect for roasting, canning or drying. Developed at NMSU in the '70s, these chiles are big on flavor, produced on relatively small plants of 24-36" in height.

\$17428	pkt.	\$3.29
\$21415	1/8 oz.	\$8.00
\$21413	1 oz.	\$29.00



PEPPER AGRONOMICS

SEED PACKETS CONTAIN ~50 SEEDS

GROWING CONDITIONS

Peppers are a warm-season crop and grow best with warm nights, which increase flower and fruit set. Fruit set in many sweet peppers can be low at temperatures over 90°F, but most chile peppers are more heat-tolerant. Production is best in fertile, well-drained soils with a pH of 6-6.8. Ensure adequate calcium availability and avoid wide fluctuations in moisture to prevent blossom end rot. Irrigate as needed throughout the season to maintain uniform soil moisture, especially after fruit set, but avoid waterlogging roots. In cooler climates cover seedlings with floating row cover to increase temperature, but remove prior to flowering. Isolate hot and sweet peppers to prevent cross-pollination, which can result in heat in sweet varieties. Hotter growing conditions increase heat in chile peppers.

PLANTING

Peppers are most often transplanted due to slow and erratic germination at low temperatures. Optimum germination occurs at 70-85°F. Use our new Planting Guide for Vegetables (p34-35) to determine seed depth, spacing and rates. Start in the greenhouse and plant out 6-8 week seedlings when daytime temperatures reach 70°F and night time temperatures are above 55°F. (Note: number of seeds/lb. can vary widely between varieties).

HARVEST/STORAGE

Harvest when fruits are full grown, but still firm and crisp. Optimum harvest stage depends on the needs of a particular market, ranging from green to fully red ripe. Snap fruits off by hand, being careful not to break branches or damage plants. Harvest frequently to maintain production. Market fresh or store at 45-50°F and 90-95% RH. Do not store below 42°F.

PEST AND DISEASE PREVENTION

The most serious disease of peppers in many regions is bacterial spot, which can be seedborne (all SOC pepper lots are tested for this pathogen). Preventative use of Serenade, an OMRI-approved resistance-stimulator, has been shown to have some efficacy against bacterial spot. Incidence of this and other diseases can be reduced by using drip irrigation and mulches, ensuring adequate air flow through increased plant spacing, and staking or supporting plants, if necessary. Practice crop rotations with all Solanaceae species to manage soilborne pathogens such as Fusarium and Verticillium wilts. Use floating row covers to prevent insect damage, but remove prior to flowering or in hot weather.



NUMEX CONQUISTADOR
(70-80 days). This uniform and prolific Anaheim type pepper is very mild and perfect for roasting and as a paprika type chile. The 4-6" long fruits have round shoulders, pointed tips and thick flesh with a smooth surface.

S21077	pkt.	\$3.29
S20652	1/8 oz.	\$6.00
S20654	1 oz.	\$34.00

PIMIENTO/PAPRIKA



PIMIENTO-L (90-100 days) 3" large, thick walled and heart-shaped fruits are especially delicious. An extremely heavy producer, it is best when ripened to a scarlet red.

S14159	pkt.	\$3.29
S15745	1/8 oz.	\$16.00
S21416	1 oz.	\$72.00
S21417	1/4 lb.	\$210.00



TANGERINE (75-85 days) Round to slightly flattened 2-3" pimiento fruits are very thick walled of sweet and juicy flesh. Delicious when eaten raw. Ripens to a lovely tangerine hue. Vigorous, productive and early maturing on a 16-24" plant.

S10793	pkt.	\$3.29
S21425	1/8 oz.	\$14.00
S21423	1 oz.	\$65.00
S21424	1/4 lb.	\$190.00



RED RUFFLED PIMIENTO
(80-90 days). This one is not to be missed. Gorgeous red sweet pimiento with thick, juicy walls. Marvelous for fresh eating or stuffing, this plant produces lobed fruits, gracefully ruffled as the name states. World Class Pepper.

S10794	pkt.	\$3.29
S15751	1/8 oz.	\$15.00
S12778	1 oz.	\$69.00
S12779	1/4 lb.	\$196.00



GIANT SZEGEDI (75-80 days). Comes from the town of Szeged in Hungary. 4-6" in length, 2-3" wide, this paprika pepper changes from pale-yellow to deep orange when fully ripened. The medium thick flesh stays tender and succulent, stuffing well. Has Verticillium wilt resistance.

S10792	pkt.	\$3.29
S21412	1/8 oz.	\$9.00
S21410	1 oz.	\$34.00
S21411	1/4 lb.	\$110.00
S21648	1 lb.	\$387.00

'ALMA' (75-85 days). Heavy yielding plants produce numerous 3" fruits. Sweet with a slight bit of heat. Great for eating fresh, drying or grinding for paprika seasoning matures cream colored at first, then orange, and finally brilliant red.

S17543	pkt.	\$3.29
S20647	1/8 oz.	\$6.00
S20649	1 oz.	\$34.00
S20650	1/4 lb.	\$109.00
S20651	1 lb.	\$324.00



SWEET SPECIALTY PEPPERS

ACONCAGUA (70-75 days). Tapered, medium thick-fleshed pepper stays sweet throughout its green and yellow stages. Great for frying, roasting or eating raw. Comes in on a 20-30" plant.

S11067	pkt.	\$3.29
S21809	1/8 oz.	\$9.00
S21810	1 oz.	\$34.00
S21811	1/4 lb.	\$97.00
S21812	1 lb.	\$314.00



NARDELLO (65-75 days). Delightful fresh or lightly sautéed, our recent survey rated this variety our sweetest non-bell pepper when ripe. Red, ripe fruit has shiny, wrinkled skins and very thin walls.

S11014	pkt.	\$3.29
S15762	1/8 oz.	\$7.00
S17845	1 oz.	\$27.00
S17857	1/4 lb.	\$69.00
S14649	1 lb.	\$225.00



CORNO DI TORO (75-85 days). The largest of the sweet stuffing peppers, it is first-rate, fresh or roasted. Fruits turn a stunning red or brilliant yellow when ripe and have a long, curved, tapering non-bell shape, and are 1 1/2" wide at shoulder.

S10663	pkt.	\$3.29
S16683	1/8 oz.	\$12.00
S17844	1 oz.	\$37.00
S17854	1/4 lb.	\$129.00
S14648	1 lb.	\$395.00



Radishes *Raphanus sativus*



CHERRY BELLE (20-30 days). Tasty, 1-2" diameter round, brilliant red radish with crisp, white flesh. 1949 All America Selection winner is tolerant of poor soils, retaining tenderness and resisting pithiness. Bunches into beautiful presentations.

S10917	pkt.	\$3.29
S12863	1 oz.	\$4.90
S12864	1/4 lb.	\$13.00
S14415	1 lb.	\$36.00
S17871	5 lb.	\$160.00
S17880	10 lb.	\$309.00

RUDOLF (23-27 days). Large, round, red 1 1/2" globes with short, erect foliage. Very uniform shape and color. Direct seed throughout the spring and again in fall. Also suitable for winter high tunnel production.

S21080	pkt.	\$3.29	S21651	1,000 seeds	\$5.45
S17872	5,000 seeds	\$9.70	S17881	10,000 seeds	\$17.00
S17888	50,000 seeds	\$69.00	S17893	100,000 seeds	\$109.00
S17898	500,000 seeds	\$445.00			

RADISH AGRONOMICS
SEED PACKETS CONTAIN ~150 SEEDS

GROWING CONDITIONS
Radishes are a cool or moderate climate crop susceptible to bolting in long days or high temperatures. They are best grown on light, fertile soils with a pH of 6.5-7. They are tolerant of a broad range of soils, but heavy soils may produce misshapen, hairy roots. Smaller, shallow-rooted varieties require frequent, uniform irrigation for best quality roots.

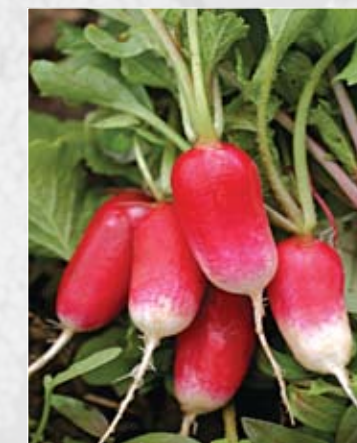
PLANTING
Radishes are direct-seeded and do not transplant well. Use our new Planting Guide for Vegetables (p34-35) to determine seed depth, spacing and rates.

HARVEST/STORAGE
Harvest when roots reach full size, but before they split or become pithy. A light irrigation the day prior to harvest may improve ease of pulling roots. Cool radishes immediately after harvest. Market in bunches (6-9 radishes/bunch) or store at 32°F and 95-100% RH.

PEST AND DISEASE PREVENTION
Practice 2-4 year crop rotations with all Brassicaceae species. Cover plants with floating row covers to prevent flea beetle damage to tops.

PLUM PURPLE (25-30 days). Improved strain produces uniformly round radishes of bright purple skin and crisp, white flesh. Very hardy and adaptable and never pithy. Only mildly spicy in flavor.

S21041	pkt.	\$3.29
S20672	1 oz.	\$4.75
S20673	1/4 lb.	\$12.00
S20674	1 lb.	\$39.00
S20675	5 lb.	\$169.00



FRENCH BREAKFAST (20-30 days). Classic cultivar underwent 2 years of intense selection to achieve very consistent roots. 1"x2-3" elongated shape, the upper two thirds rosy scarlet and the lower one third pure white. Selected for vigor and resistance to bolting.

S10668	pkt.	\$3.29
S11253	1 oz.	\$6.00
S11254	1/4 lb.	\$15.00
S14935	1 lb.	\$48.00
S17858	5 lb.	\$189.00

PRETTY IN PINK (22-27 days) Unusually bright pink skin surrounds crunchy white flesh on a 1-2" globe. Attractive package in the marketplace when bunched with Plum Purple and Cherry Belle or Rudolf. Resists pithiness.

S21042	pkt.	\$3.29
S21440	1 oz.	\$4.85
S21441	1/4 lb.	\$12.00
S21439	1 lb.	\$34.00
S21443	5 lb.	\$145.00



Photo by Brian Kimmel, Optic Nerve Productions

Rutabaga *Raphanus napus*



HELENOR (90-100 days). Variety of bright yellow flesh and excellent eating quality. Sturdy, purple tops with good disease tolerance. Suited to main crop and late production for fresh market or processing. (~200 seeds/pkt.)

S21081	pkt.	\$3.29
S20975	1,000 seeds	\$9.72
S20976	5,000 seeds	\$37.00
S20977	25,000 seeds	\$140.00
S20978	100,000 seeds	\$424.00

RUTABAGA, JOAN

(90-100 days) Yellow tubers are uniformly round with purple tops. Has a delicate, sweet flavor that improves after a hard frost. Plant in the early to midsummer for a fall harvest.

S15025	pkt.	\$3.29	S21445	1 oz.	\$9.00
S15694	¼ lb.	\$34.00	S21444	1 lb.	\$124.00
S21655	5 lb.	\$414.00			

Rhubarb *Rheum rhabarbarum*



VICTORIA A heavy producer, excellent for commercial purposes, its abundant yields of large, thick stalks with a rosy-red sheen gradually turn to pink, then solid green toward its tender tip. The top quality, long stalks with smooth ribs are juicy and sweet with a tart punch. Victoria is never stringy or tough. We offer crowns for a quick start and seeds to make it one of the easiest of all rhubarb varieties.

Crowns			Seeds		
S21792	3 crowns	\$27.00	S21796	¼ oz.	\$54.05
S21793	9 crowns	\$63.00	S21797	1 oz.	\$87.50
S21794	30 crowns	\$170.00	S21798	¼ lb.	\$124.00
S21795	80 crowns	\$400.00	S21799	1 lb.	\$187.00

WE WILL SHIP CROWNS AS CONDITIONS PERMIT, OTHERWISE ORDERS ARE RECORDED YEAR ROUND. SPRING PLANTING AS NOTED IS BEST.

Shallots *Allium cepa*



AMBITION F-1 (95-105 days). Large, warm red-brown, round to high-round shaped French shallots. Very uniform and productive. Very firm, suitable for long storage through spring. Adaptable throughout semi-long day regions, 35-65° latitude. (~200 seeds/pkt.)

S21656	pkt.	\$3.29
S21446	1,000 seeds	\$16.00
S17862	5,000 seeds	\$69.00
S17870	25,000 seeds	\$310.00
S17878	50,000 seeds	\$575.00



ED'S RED (100 days) A wide ranging shallot with red interior is covered by red skin. Each seed produces a bulb with three lobes. Its unique flavor is great in soups, salad dressings, vegetable or grain dishes. (~150 seeds/pkt.)

S17324	pkt.	\$3.29
S21787	¼ oz.	\$15.00
S21448	1 oz.	\$40.00
S21449	¼ lb.	\$124.00
S21447	1 lb.	\$444.00

RHUBARB AGRONOMICS

GROWING CONDITIONS

Rhubarb is an easy to grow perennial that can live for 10-15 years or longer when treated well. Plant crowns in the early spring in well-drained, fertile soil with a pH of 6.0-6.8. Choose a location in full sun.

PLANTING

We ship crowns from late March through April, depending upon conditions. If you are unable to plant immediately, refrigerate and plant as soon as possible. Use our new Planting Guide for Vegetables (p34-35) to determine seed depth, spacing and rates. Do not add water. Keep in original packing to retain proper moisture. Set crowns 1" deep, bud side up and 3' apart in the row with rows roughly 5' apart. Firmly tamp the soil down over the crown and water in to prevent dry pockets. Keep soil moist throughout the establishment period. Rhubarb is a heavy feeder and will yield best when given spring applications of compost.

HARVEST/STORAGE

Do not harvest in the first year and immediately snap off any seed stalks that appear since they will restrict the plants' growth. Harvest the stalks lightly the second year. In subsequent years, all stalks 1" or more in diameter can be harvested for 6-8 weeks in springtime, leaving the smaller stalks to regenerate food for the crown. Harvest by snapping or cutting the stalks off at the base. Note that crown may need to be divided sometime within 3-5 year. Freezing quality is excellent.

PESTS, DISEASES & WEED CONTROL

Thorough, manual weeding is necessary to avoid competition. Use compost or straw mulch to help keep the weeds down. Plants shipping to CA, HI, OR, and WA require a phytosanitary certificate.

Spinach *Spinacea oleracea*

SMOOTH LEAF



TARPY F-1 (35-45 days). Fast growing, upright variety for spring and autumn. Suitable under glass in early spring. Smooth leaves, oval-round with medium to dark green color. Comparable to Space. Excellent fresh market product. High resistance to downy mildew races 1-7.

S21658	pkt.	\$3.29
S21452	1,000 seeds	\$6.00
S20692	10,000 seeds	\$16.00
S20693	50,000 seeds	\$54.00
S20694	100,000 seeds	\$89.00
S20695	500,000 seeds	\$265.00

SPINACH AGRONOMICS

SEED PACKETS CONTAIN ~130 SEED

GROWING CONDITIONS

Spinach is a cool, mild climate crop with ideal growth at 52-60°F. It grows best in fertile soils with a pH of 6.2-7.0. Bolting increases with increasing day length, temperature, and plant density. Faster growing (faster bolting) varieties are fall-planted and overwintered for spring harvest, while slower growing (slower bolting) varieties are used in spring and summer plantings. Irrigate regularly as spinach is sensitive to drought, but avoid irrigation that splashes leaves spreading disease and soiling the leaves.

PLANTING

Direct-seed from early spring through fall. Use our new Planting Guide for Vegetables (p34-35) to determine seed depth, spacing and rates.

HARVEST/STORAGE

Harvest whole plants for bunching when they reach a desirable size, but prior to bolting. Cut the whole plant just below the crown and bunch several plants together. Remove old, dirty, or yellowed leaves. For baby leaf, harvest leaves when 2-4" long and wash. Handle carefully in washing and packaging to prevent bruising. Market immediately or store at 32°F and 90-95% RH.

PEST AND DISEASE PREVENTION

Downy mildew is one of the most devastating diseases of spinach crops; resistance is the best management tactic (see varietal descriptions for resistance packages). Practice crop rotations. Avoid overhead and/or late-afternoon irrigation, and increase plant spacing to enhance air circulation in cool, moist conditions or in areas with high disease pressure. Cover seedlings with floating row cover to prevent insect damage

RENEGADE F-1

(40-45 days). The dark green, round, smooth leaves are perfect for a full-season, sweet tasting spinach. Resistant to downy mildew races 1-7 and also to cucumber mosaic virus.

S21660	pkt.	\$3.29	S17865	10,000 seeds	\$19.00
S17874	50,000 seeds	\$64.00	S17882	100,000 seeds	\$94.00
S17890	500,000 seeds	\$397.00			

VIROFLAY

(45-50 days). One of the largest, most vigorous varieties we have trialed. Flavorful arrow to oval shaped leaves are slightly savoyed. Compare to Whale. Extremely vigorous plants bear 10" leaves. Early maturing.

S11130	pkt.	\$3.29
S13572	1 oz.	\$9.00
S13573	¼ lb.	\$20.00
S14938	1 lb.	\$71.00
S17877	5 lb.	\$275.00

SEMI-SAVOYED/SAVOYED LEAF

AMERICA

(45-50 days). Introduced in 1952, this variety has endured by virtue of its first-rate flavor. Thick, deep-green, savoyed leaves similar to Bloomsdale, but slower to bolt. Can be grown spring, summer or fall, but will not overwinter well.

S10745	pkt.	\$3.29	S12759	1 oz.	\$9.00
S12760	¼ lb.	\$19.00	S14653	1 lb.	\$69.00
S17864	5 lb.	\$269.00			

BLOOMSDALE

(50-55 days). A chef's favorite, this classic, flavorful, savoy-leaved spinach has thick dark-green leaves. Grows well in spring or fall. It overwinters well in all but the coldest climates.

S10746	pkt.	\$3.29
S13570	1 oz.	\$8.00
S13571	¼ lb.	\$16.00
S14416	1 lb.	\$54.00
S17873	5 lb.	\$189.00



KEY CODES	SEED SUPPLIERS	
Seeds of Change Original Variety	Bejo	Mesa Maize
Heirloom	Chriseed	Orsetti Seeds
New This Year	Genesis Seeds Ltd.	Sakata Seed
	Hild	Vitalis

Squash and Pumpkins

SUMMER SQUASH *Cucurbita pepo* ZUCCHINI



DUNDOO F-1

(45-55 days). Open plant habit for easy harvest of shiny, dark-green, cylindrical fruit. Intermediate resistance to ZYMV (zucchini yellows mosaic virus) makes this an especially important variety. High-yielder in all seasons except winter, of course. (~50 seeds/pkt.)

\$21662	50 seeds	\$19.00
\$20697	250 seeds	\$66.00
\$20698	1,000 seeds	\$171.00
\$20699	5,000 seeds	\$749.00

PARTENON F-1

(45-55 days). A parthenocarpic variety (makes fruit without the need for pollinating insects). This feature sets up Partenon as particularly suitable in enclosed settings. And it makes for a much longer harvest period. Fruits mature to a medium-dark green (~50 seeds/pkt.)

\$21661	50 seeds	\$14.00	\$20935	250 seeds	\$59.00
\$20936	1,000 seeds	\$165.00	\$20937	5,000 seeds	\$725.00

COCOZELLE BUSH ZUCCHINI

(50-55 days). Dark and light-green striped classic Italian zucchini with a slightly nutty flavor. Best when harvested young at ~5-7".

\$10669	pkt.	\$3.29	\$17902	1 oz.	\$11.00
\$12707	¼ lb.	\$24.00	\$12709	1 lb.	\$48.00

DARK STAR ZUCCHINI

(50-55 days) An exciting new zucchini begun as a cross between a popular hybrid and an heirloom variety over 10 years ago. Dark Star was co-developed with California grower Bill Reynolds. It produces medium to dark green, glossy, slightly ridged fruit from an open plant habit, smooth and spineless. A long harvest period reflects its exceptional vigor.

LIMITED AVAILABILITY

\$21663	pkt.	\$3.29
\$21460	1 oz.	\$8.00
\$21461	1/4 lb.	\$28.00



GOLDY ZUCCHINI F-1

(50-55 days). Glossy, golden-yellow, 5-7" cylindrical fruit. Extremely uniform and heavy yielding. (~20 seeds/pkt.)

\$21665	pkt.	\$3.29	\$17904	250 seeds	\$13.00
\$17914	1,000 seeds	\$48.00	\$17923	5,000 seeds	\$230.00
\$17934	10,000 seeds	\$440.00			

GOLDEN ZUCCHINI

(50-55 days). Prolific producer of brilliant-gold 5-7" fruits. Shapes are cylindrical and ridged to slightly widened and smooth. All are excellent for fresh market.

\$10671	pkt.	\$3.29
\$17901	1 oz.	\$8.00
\$16686	¼ lb.	\$19.00
\$16703	1 lb.	\$65.00



SPECIALTY



YELLOW CROOKNECK

(50-55 days). Favorite for over 150 years, this classic easy-to-grow bush yellow summer squash produces abundant white-fleshed 5-7' fruits. Crookneck fruits are delectable steamed with a little onion.

\$10672	pkt.	\$3.29
\$17899	1 oz.	\$8.00
\$11259	¼ lb.	\$18.00
\$11261	1 lb.	\$49.00



RÊVE SCALLOPINI F-1

(50-55 days). Unique scallop-type with an intense, dark green color on a flattened 5-7" fruit. Plants are compact compared with other patty pans. Non-branching open growth habit (~20 seeds/pkt.).

\$21666	pkt.	\$3.29
\$18295	250 seeds	\$29.00
\$18308	500 seeds	\$47.00
\$18301	1,000 seeds	\$88.00

WINTER SQUASH *Cucurbita maxima*



SWEET DUMPLING *Cucurbita pepo*

(90-100 days). Sweet like candy, this one will make a winter squash lover out of anyone. Prolific vines yield up to 10 teacup and mini-acorn-shaped, ivory- and green-striped 1-2 lb. fruits. Can be stored for 3-4 months.

\$11016	pkt.	\$3.29
\$17895	1 oz.	\$8.50
\$12939	¼ lb.	\$22.00
\$12941	1 lb.	\$74.00
\$12942	5 lb.	\$296.00



DELICATA ZEPPELIN *Cucurbita pepo*

(90-100 days). Uniform, carefully selected strain of Delicata with exceptionally sweet flavor and fine texture. Compared with the other Delicata's, it is smaller, darker of color, yet more cylindrical with deeper orange, sweeter flesh.

\$17550	pkt.	\$3.29	\$17886	1 oz.	\$9.00
\$17896	¼ lb.	\$29.00	\$17903	1 lb.	\$96.00
\$17912	5 lb.	\$385.00			



BUTTERCUP

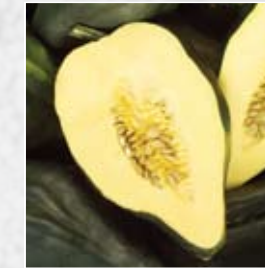
(95-105 days). Best tasting keeper squash in our trials with moist, deep-orange flesh rich in beta carotene. Unparalleled sweetness and rich, buttery texture. Productive vines. Excellent storage capability through those long winter nights.

\$10674	pkt.	\$3.79
\$17879	1 oz.	\$7.00
\$11267	¼ lb.	\$16.25
\$11269	1 lb.	\$37.00
\$11270	5 lb.	\$160.00

BUTTERNUT *Cucurbita moschata*

(100-110 days). Productive Waltham strain of butternut yields classic tan, bell-shaped 4-5 lb. fruits with bright-orange, moist, sweet, smooth flesh. Delicious in soups, baked, or steamed. Stores well into late winter/early spring.

\$10673	pkt.	\$3.29
\$17884	1 oz.	\$6.00
\$11263	¼ lb.	\$18.00
\$11265	1 lb.	\$44.00
\$11266	5 lb.	\$188.00
\$17894	10 lb.	\$345.00



ROYAL ACORN

(85-95 days). High-yielding vines produce dark-green, deeply ribbed fruits that turn orange when stored. Moderate sweetness of a fine, dry flavored flesh is exquisite when baked.

\$10872	pkt.	\$3.29	\$21510	1 oz.	\$11.00
\$19841	¼ lb.	\$28.00	\$21167	1 lb.	\$74.00
\$21511	5 lb.	\$297.00			

UNCLE DAVID'S DAKOTA DESSERT

(95-105 days) A flavorful and robust variety, developed over 30 years by North Dakota grower David Podoll, has the appearance and size similar to Buttercup. Bred for better flavor, yield and thicker flesh, it includes crosses with Hubbard and Gold Nugget squash as well.

\$21670	pkt.	\$3.29	\$21671	1 oz.	\$16.00
\$21672	¼ lb.	\$49.00	\$21673	1 lb.	\$164.00



HOKKAIDO STELLA BLUE

(95-105 days). Preferred squash of Japan, this is a particularly high yielding cultivar. A moister texture than other Hokkaido and Kabocha squash, it is slightly drier and flakier than Buttercup. Slightly flattened, bluish-gray 2-5 lb. fruits are very uniform with consistently high eating quality and a delicious nutty, sweet flavor. Excellent keeper.

\$11133	pkt.	\$3.29
\$17892	1 oz.	\$8.50
\$17905	¼ lb.	\$29.00
\$17915	1 lb.	\$104.00



UCHIKI KURI

(90-100 days). Attractive dark-orange skin and orange flesh of good flavor. Compare to Red Kuri types. Early maturing with high yield and storable for a few months. Average fruit size 2-3.5 lb. (~15 seeds/pkt.)

\$21082	15 seeds	\$7.00
\$20702	250 seeds	\$33.00
\$20703	1,000 seeds	\$98.00
\$20704	5,000 seeds	\$390.00

SQUASH & PUMPKIN AGRONOMICS

SEED PACKETS CONTAIN ~25 SEEDS

GROWING CONDITIONS

Squash and pumpkins are warm-season, frost-sensitive crops. They grow best in well-drained, fertile soil with a pH of 6-7.5. Healthy insect activity is required for good pollination. Bee hives are often placed in commercial fields after the first female flower opens. Supply adequate irrigation to maintain uniform soil moisture throughout the season. For winter squash and pumpkins, reduce irrigation when fruits are near maturity.

PLANTING

Direct-seeding is most common. Transplanting is possible when a short growing season demands it, but squash is sensitive to transplant shock so special care must be taken to avoid root injury. Plant when soil temperatures reach 60°F and all danger of frost has passed. Germination is optimum at 70-85°F. Use our new Planting Guide for Vegetables (p34-35) to determine seed depth, spacing and rates. Transplant: Transplant 3-4 wk. old seedlings when soil temperatures exceed 60°F. Handle transplants carefully and irrigate post-transplant.

HARVEST/STORAGE

Summer Squash: Harvest when fruit is of desirable size. Zucchini is commonly picked when fruit is 7-8" long, but may be harvested smaller for gourmet markets. Harvest frequently to encourage continuous fruit set. Handle carefully to avoid scarring fruit. Market fresh or store at 40-50°F and 95% RH. Pumpkins: Harvest when skin is hard, has turned orange, and there is a slight yellowing on the ground side of the fruit. Cut fruit leaving 3-4" of stem for good storage. Winter Squash: Harvest when fruit are full sized and turned to their final color. Cut fruit leaving 1-2" on stem for good storage. Store winter squash & pumpkins at 50-55°F and 60-75% RH. Chilling injury may occur in some varieties when held below 50°F.

PEST AND DISEASE PREVENTION

Practice crop rotations with all Cucurbitaceae species including melons, cucumbers, gourds, and summer and winter squash. See disease information for melons for more detail. Cover young seedlings with floating row covers to protect from squash pests, including cucumber beetles, squash-vine borer, squash bugs, and leafhoppers, which vector curly top virus. Remove row cover to allow for pollination when flowering.



HOPI ORANGE
Tasty, juicy and fibrous flesh is perfect for pies and soups. Fruits are produced on vigorous vines yielding pumpkin-shaped fruits that are excellent keepers. Hopi Orange looks great in an array along with other winter squashes of different colors and shapes

S10900	pkt.	\$3.29
S21454	1 oz.	\$11.00
S21455	1/4 lb.	\$37.00
S21453	1 lb.	\$134.00



LAKOTA
(85-90 days) A gorgeous teardrop Hubbard-type is prized by the Lakota Sioux Indian tribe. It exhibits decorative qualities with a sweet and nutty, deep-orange flesh. 5-7 lb. fruit.

S15008	pkt.	\$3.29
S21457	1 oz.	\$11.00
S21458	1/4 lb.	\$37.00
S21456	1 lb.	\$134.00



BLUE BALLET
(90-100 days). Smaller version of the Blue Hubbard, only with a smoother blue-gray shell. This is a 4-6 lb. fruit making it much more marketable than its much larger cousin. Sweet fiberless flesh that stores well.

S10905	pkt.	\$3.29
S20707	1 oz.	\$13.00
S20708	1/4 lb.	\$27.00
S20709	1 lb.	\$79.00
S20710	5 lb.	\$360.00



QUEENSLAND BLUE
(105-115 days) An Australian variety of winter squash introduced to the US in 1932. Vigorous vines produce a bluish-green, 6-10 lb. fruit with deep ribbing hold sweet, orange flesh. Shape similar to buttercup, though sometimes with a pointed bottom.

S16144	pkt.	\$3.29
S21433	1 oz.	\$9.00
S16685	1/4 lb.	\$33.00
S16702	1 lb.	\$96.00

PUMPKINS *Cucurbita pepo*

YOUNG'S BEAUTY **(95-110 days)**. Extremely productive variety with 10" diameter, round to slightly elongated, deep orange 8-12 lb. fruits with moderate ribbing. Thick meated interior makes a delicious pie pumpkin or great Jack-O'-Lantern.

S16645	pkt.	\$3.29
S17847	1 oz.	\$11.00
S16693	1/4 lb.	\$31.00
S16701	1 lb.	\$97.00



SMALL SUGAR

(100-110 days). High quality stringless, thick, sweet flesh in a 5-8 lb. pumpkin. Came from selections started in the 1800's. Makes delicious pies. Dependable and easy to grow. Lightly ribbed.

S10677	pkt.	\$3.29
S20712	1 oz.	\$11.00
S20713	1/4 lb.	\$16.00
S20714	1 lb.	\$39.00
S20715	5 lb.	\$155.00



HOWDEN

(110-120 days). Classic 20-25 lb. large, ribbed pumpkins with sturdy handles. Improved Connecticut field type developed by John Howden in the early 1970's. Grows on long spreading vines, good keepers and make fantastic jack-o'-lanterns.

S10773	pkt.	\$3.29	S13561	1 oz.	\$8.00
S15767	1/4 lb.	\$27.00	S16684	1 lb.	\$61.00
S17846	5 lb.	\$245.00			

ROUGE VIF D'ETAMPES

Cucurbita maxima **(110-150 days)**. So-called Cinderella pumpkin grown for over one hundred years for its stunning, deep burnt-red-orange skin and distinctive ribbing. Flattened globes with few seeds.

Fruits are stunning as table centerpieces or soup tureens.

S10904	pkt.	\$3.29
S13564	1 oz.	\$14.00
S11534	1/4 lb.	\$29.00
S11536	1 lb.	\$66.00
S11537	5 lb.	\$270.00



JACK-O-LITE

(90 days) A smooth skin makes for ease in painting come Halloween time. Its compactness produces 8-15 lb fruits. Also excellent for carving and pie baking. Two basic shapes: round to slightly flattened or tall and elongated. Very finely ribbed.

S10797	pkt.	\$3.29
S13563	1 oz.	\$12.00
S11455	1/4 lb.	\$35.00
S14414	1 lb.	\$114.00



Tomatoes

Lycopersicon esculentum

SLICERS (ALL COLORS)



CRIMSON SPRINTER **(65-75 days)**. Medium-sized, red 5-7 oz. tomato matures early and tolerates cool conditions. The perfect balance of acid and sweet for a true classic tomato flavor. Original seed was purchased from Seed Saver's Exchange about 25 years ago by North Dakota farmer, David Podoll, who has continued to select for plant vigor. Stores and ships better than heirlooms due to a slightly thicker skin. Indeterminate.

S15982	pkt.	\$3.29
S17941	1/4 oz.	\$8.00
S16694	1/4 oz.	\$15.00
S16705	1 oz.	\$52.00
S17948	1/4 lb.	\$169.00

TOMATO AGRONOMICS
SEED PACKETS CONTAIN ~50 SEEDS

GROWING CONDITIONS

Tomatoes grow best with 80-90°F days and 60-70°F nights. Deep, infrequent watering encourages deep rooting and higher quality fruit production. In areas with a high water table, dry-farming may be possible. Moderately fertile, loam soils with a pH of 6.0 to 6.8 are best. Tomatoes prefer moderate to high levels of phosphorus and potassium, which should be amended with rock powders on soils low in availability. Ensure adequate calcium levels and consistent moisture to prevent blossom end rot. Plastic mulches are often used to accelerate ripening and increase yield of tomatoes. Indeterminate varieties should be staked, caged, or trellised to obtain optimum yields and prevent disease.

PLANTING

Tomatoes are best started in a greenhouse and transplanted. Use our new Planting Guide for Vegetables (p34-35) to determine seedling depth, spacing, and rates.

HARVEST/STORAGE

For storage and shipping, harvest at the "breaker" stage when the blossom end turns pink. For fresh market, harvest when color develops but fruits are still firm. Market fresh or store for 7-10 days at 45-50°F and 80-90% RH. Hold mature-green tomatoes for ripening up to five weeks at 60-70°F and 80-90% RH.

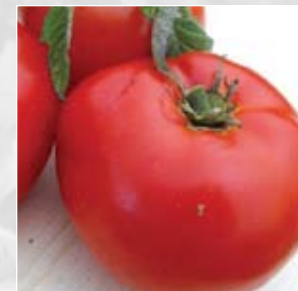
PEST AND DISEASE PREVENTION

Tomatoes are susceptible to many diseases, including early blight, Septoria blight, bacterial spot, speck and canker, and soilborne fungal diseases such as Verticillium and Fusarium wilt. High-quality, disease-free seed is critical. Management practices include a minimum three year rotation with all Solanaceae species, the use of drip irrigation and mulches, staking and orienting rows to increase air circulation, and composting or turning under all crop debris.

SILETZ

(70-75 days). One of the earliest full size slicers available. Introduced by Oregon State University, this fruit will set in colder conditions than most varieties because it's parthenocarpic and nearly seedless. Expect several flushes of 7-10 ounce, deep red fruits. Excellent mild tomato flavor. Determinate.

S21685	pkt.	\$3.29
S21686	1/8 oz.	\$8.00
S21687	1/4 oz.	\$15.00
S21688	1 oz.	\$59.00
S21689	1/4 lb.	\$183.00



LEGEND

(60-70 days). A great full sized slicer with late blight tolerance in the Northwest. Recently released by Oregon State University, it is parthenocarpic so it sets it large, 6-9 oz. fruits early in the season. An excellent cold tunnel variety with early fruit production for market. Glossy red fruits with great flavor. Growers report its greatest productivity is on highly fertile soils and with added organic fertility.

S21691	pkt.	\$3.29	S21692	1/8 oz.	\$12.00
S21693	1/4 oz.	\$22.00	S21694	1 oz.	\$79.00
S21695	1/4 lb.	\$224.00			



BURBANK

(70-80 days). 1915 introduction from plant genius Luther Burbank. Fruity, slightly tart 4-6 oz. slicing tomato has highest levels of free amino acids of tested varieties. Stocky 18-36" bushes yield well and needs no trellising. Determinate.

S10680	pkt.	\$3.29
S17928	1/8 oz.	\$15.00
S11279	1/4 oz.	\$24.00
S11281	1 oz.	\$64.00
S11282	1/4 lb.	\$179.00
S14420	1 lb.	\$595.00



CHANCHA F-1

(70-80 days). Very large, light red colored, flattened globe-shaped 8-10 oz. fruit with good taste. A Spanish word for pig, Chancha delivers the jumbos. Verticillium wilt, Fusarium wilt races 1 & 2, Tobacco Mosaic Virus resistance. Semi-determinate. (~20 seeds/pkt.)

S21697	pkt.	\$3.29	S17971	250 seeds	\$19.00
S17984	1,000 seeds	\$53.00	S17992	5,000 seeds	\$196.45
S18001	10,000 seeds	\$350.80			

CORAZON F-1

(70-80 days). Medium flattened, dark red slicer produces early with a heavy set of 6-8 oz. fruit. A favorite on our research farm. Bred for high resistance to Verticillium wilt and Fusarium wilt races 1 & 2. Semideterminate. (~20 seeds/pkt.)

S21698	pkt.	\$3.29	S17970	250 seeds	\$19.00
S17988	1,000 seeds	\$53.00	S17996	5,000 seeds	\$196.45
S18004	10,000 seeds	\$350.80			

VEGETABLES

NOVIA F-1

(70-80 days). Medium large, light red, flat to globe-shaped 7-9 oz. fruits. Demonstrable high resistance to Verticillium wilt, Fusarium wilt races 1 & 2, and TMV. Semi-determinate. (~20 seeds/pkt.)

\$12699	pkt.	\$3.29	\$17965	250 seeds	\$19.00
\$17983	1,000 seeds	\$53.00	\$17994	5,000 seeds	\$196.45
\$18003	10,000 seeds	\$350.80			

QUERIDA F-1

(70-80 days). Medium large, flattened, red 7-9 oz. globes. Good resistance to Verticillium wilt and Fusarium wilt races 1& 2. Determinate. (~20 seeds/pkt.)

\$21700	pkt.	\$3.29	\$17964	250 seeds	\$19.00
\$17990	1,000 seeds	\$53.00	\$18002	5,000 seeds	\$196.45
\$18008	10,000 seeds	\$350.80			

WISCONSIN 55

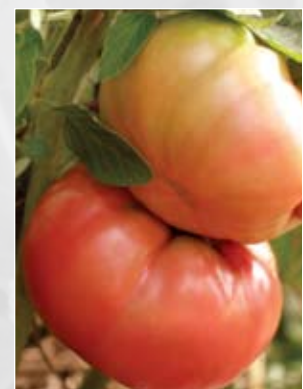
(75-85 days). One of the finest red slicers developed at the U. of Wisconsin in the late 1940's. This represents one of the last improved OP varieties before hybrids began to dominate the market. Although not as firm as today's tasteless shippers, a little extra care allows you to sell this attractive fruit with true tomato flavor. Indeterminate with 6-8 oz. fruit.

\$16145	pkt.	\$3.29	\$17959	½ oz.	\$15.00
\$17979	¼ oz.	\$27.00	\$17986	1 oz.	\$74.00
\$17993	¼ lb.	\$234.00			

PERON SPRAYLESS

(75-85 days). True to its name, this remarkably disease and crack resistant strain was introduced from South America in 1951. Flavorful, prolific, midseason variety bears firm, vitamin-rich red fruits until frost. Indeterminate 7 ft. vines.

\$10769	pkt.	\$3.29	\$17950	½ oz.	\$12.00
\$12765	¼ oz.	\$21.45	\$12767	1 oz.	\$58.90
\$12768	¼ lb.	\$175.00			



GERMAN QUEEN

(55-70 days) A nice, meaty slicer of 8-12 oz. has a sweet, rich flavor with few seeds. Indeterminate, erect vines have potato-like leaves. Another must-have.

\$13457	pkt.	\$3.29			
\$21474	½ oz.	\$18.00			
\$16907	¼ oz.	\$29.00			
\$21473	1 oz.	\$69.00			
\$21706	¼ lb.	\$198.00			

PORTER IMPROVED PINK

(75-80 days) Prolific vines yield an unusually colored 3-4 oz. fruit with delectable flavor. The fruit resists cracking on an indeterminate vine.

\$13456	pkt.	\$3.29			
\$21489	½ oz.	\$16.00			
\$13580	¼ oz.	\$26.00			
\$21488	1 oz.	\$67.00			
\$19875	¼ lb.	\$188.00			



ARKANSAS TRAVELER

(80-90 days). Incredibly delicious, this classic pink 5-7 oz. fruit has traveled widely, carried by its solid dependability and distinct flavor. Tolerates high heat and humidity and is resistant to cracking. Indeterminate.

\$10986	pkt.	\$3.29	\$18229	½ oz.	\$14.00
\$11605	¼ oz.	\$24.00	\$11607	1 oz.	\$62.00
\$11608	¼ lb.	\$175.00			

PERSIMMON

(75-80 days) Main-season slicing variety with deep orange, juicy and flavorful fruit. The round 3", 5-7 oz. globes grow on a 5-6' indeterminate vine. Looks good on a mixed shelf of tomatoes.

\$15022	pkt.	\$3.29			
\$21484	½ oz.	\$12.00			
\$16667	¼ oz.	\$22.00			
\$16698	1 oz.	\$59.00			
\$21708	¼ lb.	\$175.00			



SALADETTE/PASTE/TRUSS

ANNELISE F-1

(60-70 days). Campari™ comparable but with more vigor and broader resistances. This fishbone truss tomato produces delightful tasting 2 oz. fruits. Specifically bred for organic production.

\$20980	50 seeds	\$74.00			
\$20731	250 seeds	\$275.00			
\$20732	1,000 seeds	\$645.00			



MARIANA F-1

(60-70 days). Determinate saladette on a small to medium sized plant with an exceptional fruit set. Fruit are extra-large (125 gm) with consistent uniformity of shape. Fruit walls are thick and internal/external color is very good. Excellent firmness. Green shoulders. Excellent shelf life. Resistant to Verticillium wilt race 1, Fusarium wilt race 1 and 2, Alternaria stem canker, Stemphyllium and some species of nematodes.

\$20738	50 seeds	\$4.95			
\$20739	250 seeds	\$12.75			
\$20740	1,000 seeds	\$54.00	\$20741	5,000 seeds	\$397.00



MONICA F-1

(60-70 days). Top-selling larger saladette that works even better as a paste. Vigorous determinate plant provides good cover. Pedicel is jointed, uniform green shoulders. Extra large saladette of firm fruit. Disease resistance to Verticillium wilt, Fusarium race 2, Alternaria stem canker, Stemphyllium gray leaf spot, and bacterial speck.

\$21028	50 seeds	\$4.95	\$19900	250 seeds	\$12.75
\$19907	1,000 seeds	\$54.00	\$19914	5,000 seeds	\$397.00

ROMA

(75-85 days). Rich meaty 1-2 oz. tomato, long renowned for savory sauces and pastes. Compact, determinate vines.

\$10772	pkt.	\$3.29	\$17957	½ oz.	\$12.00
\$11420	¼ oz.	\$20.00	\$11422	1 oz.	\$53.00
\$11423	¼ lb.	\$175.00			



BLACK PLUM

(75-80 days). Unique Russian variety with notable flavor and deep-mahogany skin. Try drying this one as it holds fast to its sweetness. Also delectable stewed into sauce. Indeterminate. 1-2 oz. fruits.

\$10971	pkt.	\$3.79			
\$17911	½ oz.	\$12.00			
\$13582	¼ oz.	\$21.45			
\$15334	1 oz.	\$58.90			
\$17926	¼ lb.	\$175.00			
\$17937	1 lb.	\$630.00			

HEIRLOOM

MOSKOVICH

(60-65 days) A remarkably appealing extra-early tomato. Fruits are early, deep red, and cold tolerant. The 4-6 oz. fruits have a rich taste in smooth, globe shapes with a small stem scar. Indeterminate vine.

\$21679	pkt.	\$3.29	\$21479	½ oz.	\$16.00
\$21478	¼ oz.	\$21.00	\$21477	1 oz.	\$59.00
\$21680	¼ lb.	\$145.00			

MONEYMAKER

(75-80 days). A heavy yielder of 2-4 oz fruits is known as an English greenhouse variety. It produces flavorful, intensely red fruits on a vigorous, indeterminate vine. While it produces well in most climates, it is especially suited to the humid tropics.

\$14172	pkt.	\$3.29	\$21476	½ oz.	\$18.00
\$14897	¼ oz.	\$29.00	\$21475	1 oz.	\$69.00
\$21704	¼ lb.	\$198.00			

COSTALUTO GENOVESE

(80-90 days) Old Italian variety known for its excellent eating flesh. Indeterminate vines are vigorous and lush producing 3-5 oz fruits. A must have for any heirloom mix.

\$10987	pkt.	\$3.29	\$21471	½ oz.	\$17.00
\$21151	¼ oz.	\$29.00	\$21470	1 oz.	\$84.00
\$21683	¼ lb.	\$269.00			



NEBRASKA WEDDING

Old favorite from the Great Plains, treasured for its delectable classic tomato flavor. Just the right acid/sweet balance. 3-4" orange globes on determinate plants.

\$17559	pkt.	\$3.29			
\$20721	½ oz.	\$9.00			
\$20722	¼ oz.	\$16.00			
\$20723	1 oz.	\$53.00			
\$20724	¼ lb.	\$179.00			

ZAPOTEC PLEATED

(80-85 days). Deeply pleated, pink to dark-red 6-8 oz. fruits originating from the Zapotecs of southern Mexico. Unique appearance with a rich and earthy flavor. Revered by our farm staff. Excellent stuffed, baked or sliced Indeterminate.

\$10771	pkt.	\$3.29			
\$20717	½ oz.	\$12.00			
\$20718	¼ oz.	\$22.00			
\$19858	1 oz.	\$59.00			
\$20719	¼ lb.	\$175.00			



RED CALABASH

(80-90 days). Traceable to Chiapas, Mexico. Delicious, thin skinned, ruffled 2-3 oz. fruits resemble miniature beefsteak tomatoes. Documented by William Woys Weaver as appearing in a 1793 painting by Raphael Paele of Philadelphia. Indeterminate.

\$10770	pkt.	\$3.29	\$17953	½ oz.	\$9.00
\$11416	¼ oz.	\$17.00	\$11418	1 oz.	\$52.00
\$11419	¼ lb.	\$175.00			

AMISH PASTE

(70-80 days). High quality, acorn-shaped, medium-soft 5-7 oz. fruits with thick walls and few seeds. Excellent flavor makes superb paste or ketchup. Indeterminate.

\$17553	pkt.	\$3.29			
\$17906	½ oz.	\$10.00			
\$17922	¼ oz.	\$18.00			
\$17931	1 oz.	\$65.00			
\$17943	¼ lb.	\$245.00			



SAN MARZANO

(80-90 days) Classic, rich Italian paste tomato with full flavor. Some think this tomato makes the best sauce in the world. Indeterminate vine produces a large plant with heavy yields.

\$15889	pkt.	\$3.29	\$21492	½ oz.	\$12.00
\$21491	¼ oz.	\$22.00	\$21490	1 oz.	\$58.00
\$21717	¼ lb.	\$180.00			

TIGERELLA

(55-65 days). Fine, tangy flavor from unique, red and orange striped 4-6 oz. fruits. Highly productive. Indeterminate.

\$10995	pkt.	\$3.29			
\$17958	½ oz.	\$12.00			
\$16669	¼ oz.	\$21.45			
\$16704	1 oz.	\$58.90			
\$17969	¼ lb.	\$175.00			
\$17976	1 lb.	\$630.00			



FOR ADDITIONAL SLICERS, LOOK FOR THESE VARIETIES FOUND UNDER HEIRLOOM TOMATOES: BRANDYWINE, OAXACAN PINK, CHEROKEE PURPLE, BLACK KRIM, PAUL ROBESON, MARVEL STRIPED, PINEAPPLE, AMANA ORANGE, DR. WYCHE'S & VALENCIA

FOR ADDITIONAL SALADETTE/PASTE/TRUSS VARIETIES, CHECK THESE OUT IN OUR HEIRLOOM SECTION: TIGERELLA, RED CALABASH, MONEYMAKER & SAN MARZANO



GREEN ZEBRA
(75-85 days). Round, green-yellow striped 4-6 oz. fruits provide diversity in an heirloom tomato mix. Fruits have a bright, acidic tomato flavor. Pick fruit as it turns from shiny green to pale. Productive plants. Determinate.
S17164 pkt. \$3.29
S17946 1/8 oz. \$9.00
S17148 1/4 oz. \$15.50
S17157 1 oz. \$55.00
S17956 1/4 lb. \$139.00



BRANDYWINE
(75-90 days). This oversized 10-16 oz. beauty is considered by many to have the finest flavor of all heirloom tomatoes. Thin-skinned variety has balanced acid/sweet taste. Indeterminate, potato-leafed vine.
S10766 pkt. \$3.29
S17913 1/8 oz. \$9.00
S11408 1/4 oz. \$16.50
S11410 1 oz. \$53.00
S11411 1/4 lb. \$137.00
S14419 1 lb. \$397.00



OAXACAN PINK
(75-80 days) Flattened pink fruits were selected in 1986 from a single fruit found in Oaxaca, Mexico. The indeterminate vines produce 5-7 oz. fruits. Taste from south of the border.
S10998 Pkt. \$3.29
S21480 1/8 oz. \$18.00
S12932 1/4 oz. \$29.00
S12934 1 oz. \$69.00
S12935 1/4 lb. \$198.00



CHEROKEE PURPLE
(75-90 days). Purplish-brown, flattened 10-12 oz. globes with outstanding flavor. Indeterminate yet short vines.
S17034 pkt. \$3.29
S17929 1/8 oz. \$15.00
S17938 1/4 oz. \$24.00
S17945 1 oz. \$62.00
S17951 1/4 lb. \$175.00

BLACK KRIM

(85-90 days). Large (10-12 oz.), maroon-colored beefsteak tomato with a greenish interior surrounding the seeds. Black Krim offers a rich, full flavored tomato on an indeterminate vine.
S17028 pkt. \$3.29
S21152 1/4 oz. \$39.00
S21469 1/8 oz. \$24.00
S21468 1 oz. \$134.00

PAUL ROBESON

(85-90 days). The Paul Robeson tomato seed comes to us from Siberia producing flavorful fruits with luscious, earthy flavors and a good acid/sweet balance. This 'black' beefsteak is slightly flattened and round up to 4" in diameter. Deep rich color of dusky, purple-red with green shoulders and red flesh at its center. Indeterminate vine.
S21682 pkt. \$3.29
S21482 1/4 oz. \$24.00
S21483 1/8 oz. \$19.00
S21481 1 oz. \$75.00

YELLOW PERFECTION

(70-75 days) Seed comes from an old British seed company. These juicy, thin skinned 3-5 oz. fruits are perfectly round; ripens well in cool or hot weather. Indeterminate vine.
S10776 pkt. \$3.29
S21496 1/8 oz. \$12.00
S11427 1/4 oz. \$22.00
S11429 1 oz. \$54.00
S11430 1/4 lb. \$169.00



VALENCIA

(75-80 days) Large (8-12 oz.), round and juicy fruit with a rich and full tomato taste exhibiting very few seeds. Looks like a navel orange when on the vine. Indeterminate vine.
S17334 pkt. \$3.29
S21495 1/8 oz. \$16.00
S21494 1/4 oz. \$24.00
S21493 1 oz. \$66.00



DR. WYCHE'S

(75-90 days). Sparse, tomato-leaved foliage produces a high yield of golden yellow, meaty 10-16 oz. fruits with a slightly flattened shape and few seeds. Some green shoulders but always a rich, low acid flavor. Indeterminate.
S17555 pkt. \$3.29
S17952 1/4 oz. \$19.00
S17966 1/4 lb. \$165.00
S17556 1/8 oz. \$11.00
S17960 1 oz. \$66.00

AMANA ORANGE

(75-90 days) A very large (12-16 oz.), late tomato with a flavorful, meaty flesh. It comes to us from the Amana colonies of Iowa and is our orange version of Brandywine. Beautiful low-acid addition to the patch an when sliced covers a slice of bread. Indeterminate vine.
S16602 pkt. \$3.29
S21467 1/8 oz. \$13.00
S21466 1/4 oz. \$23.00
S19864 1 oz. \$67.00
S21712 1/4 lb. \$181.00



PINEAPPLE

(85-95 days) Huge 10-16 oz. yellow beefsteak with some red streaks and reddish interior. Very sweet, fruity flavor with low acidity when eaten. Indeterminate vine
S17557 pkt. \$3.29
S21486 1/4 oz. \$24.00
S21710 1/4 lb. \$184.00
S21487 1/8 oz. \$16.00
S21485 1 oz. \$67.00



MARVEL STRIPED
(90-110 days). Another great tomato from the Zapotec people. Slicer to beefsteak sized 10-16 oz. fruits are splashed with beautiful orange, yellow and rose swirls. Sweet and juicy with few seeds. Indeterminate.
S10768 pkt. \$3.29
S17947 1/8 oz. \$15.00
S12761 1/4 oz. \$24.00
S12763 1 oz. \$64.00
S12764 1/4 lb. \$165.00

CHERRY



CHADWICK CHERRY
(80-90 days). Rave reviews keep coming in for this mouth-watering red cherry selected by the late horticultural genius Alan Chadwick. Large for a cherry at 1 1/2 oz., but with sparkling, full-bodied tomato flavor. Indeterminate 6 ft. vines are vigorous and highly productive.
S10774 pkt. \$3.29
S17939 1/8 oz. \$14.00
S11424 1/4 oz. \$24.00
S11426 1 oz. \$61.00
S15307 1/4 lb. \$176.00



FOX CHERRY
(80-90 days). One of the finest cherry tomatoes we've found. Tall vines bear large red cherries with rich, full-bodied, mildly acidic flavor. Incredibly prolific indeterminate vine.
S10687 pkt. \$3.29
S20726 1/8 oz. \$11.00
S20727 1/4 oz. \$16.00
S11309 1 oz. \$49.00
S11310 1/4 lb. \$139.00



YELLOW PEAR
(70-80 days). Grown since the late 1800's and still popular for its tender, mild-flavored, pear-shaped 1 oz. fruits. Low in acid, it has a sweet lingering flavor. Clusters of 1-2" fruits proliferate all summer. Indeterminate bushes can grow up to 8 ft.
S10997 pkt. \$3.29
S17963 1/8 oz. \$7.00
S11613 1/4 oz. \$13.00
S11615 1 oz. \$37.00

RED PEAR

Red pear shaped version of our yellow pear. Very popular and attractive when mixed in with Yellow Pear and sold together.
S21715 pkt. \$3.29
S21314 1/4 oz. \$15.00
S21716 1/4 lb. \$169.00
S21315 1/8 oz. \$8.00
S21313 1 oz. \$44.00

Tomatillos

Physalis ixocarpa
 SEED PACKETS CONTAIN ~50 SEEDS.

PURPLE DE MILPA
(70-90 days) Prized, traditional strain of purple tomatillos yields plump fruits that ripen to a rich purple. Delicious raw or stewed, these vegetables are the principal ingredient in salsa verde. Rambling 3-4" plant produce prolific 2-3 oz, 2" fruits.



S10760 pkt. \$3.29
S21464 1/8 oz. \$5.00
S11396 1/4 oz. \$9.50
S11398 1 oz. \$27.00
S11399 1/4 lb. \$92.00



VERDE
(60-80 days) Used as filler to tone down the heat of chiles when put into salsas. This green tomatillo has two distinct plant types, one more erect and branching; the other more squat and compact, though both are equally prolific.
S11020 pkt. \$3.29
S21465 1/8 oz. \$5.00
S11625 1/4 oz. \$9.00
S11627 1 oz. \$16.00
S11628 1/4 lb. \$41.00



Photo by Brian Kimmel, Optic Nerve Productions

Cover Crops

Cover crops are one component of organic production. They epitomize sustainability and are grown specifically to return to the soil what was removed with the harvest. Converting air and sun into vital organic matter, cover crops feed soil organisms, which in turn nourish plants. They also improve soil tilth and structure, reduce soil erosion, suppress weeds, and in the case of legumes, add nitrogen. Cover crops can be used in combination with each other for more complete soil coverage, maximum organic matter production, increased nitrogen fixation, and diversified nutrient contribution. The best time to incorporate is during early flowering stage. The National Organic Program (NOP) mandates that organic farmers manage crop nutrients and soil fertility through the use of cover crops. You can't afford not to use cover crops for enhanced soil fertility; your long-term economic and ecological sustainability depends on it. To learn more about our cover crops and view photos please visit our website at www.seedsofchange.com. Credit for much of the following information is given to "Managing Cover Crops Profitably," 3rd Edition, a publication of the Sustainable Agriculture Research & Education Program of CREES, U.S. Department of Agriculture.



SPRING BARLEY & WINTER BARLEY

Hordeum vulgare
Barley is a cool season annual cereal grain that helps to prevent erosion, suppress weeds, scavenge excess nutrients, and add organic matter; a great choice for reclaiming overworked, eroded, or weedy

fields. Its long taproot makes for exceptional erosion control, and it is useful at a relatively inexpensive cost to the grower. Barley can be mixed with annual legumes, ryegrass or other small grain crops. Barley grows well throughout the U.S., except in the extreme areas of the deep southern U.S. Note that a spring cover crop of barley works farther north than other cereal grains because of its short growing period, as it produces significant biomass in a short time. For wintering-over, plant before Nov. 1, though it is less winter-hardy than rye. Use 50 -100 lbs/acre.

SPRING	S17907	1 lb.	\$4.00	S17916	5 lb.	\$13.00
	S17933	25 lb.	\$29.00	S17944	50 lb.	\$37.00
WINTER	S17909	1 lb.	\$4.00	S17936	5 lb.	\$13.00
	S17978	25 lb.	\$29.00	S17989	50 lb.	\$37.00

BUCKWHEAT

Fagopyrum esculentum

Buckwheat is a summer or warm season annual broadleaf grain that is a very quick cover. It acts as a weed suppressor, provides nectar for pollinators and beneficial insects, loosens topsoil, and rejuvenates low-fertility soils. Geographically, buckwheat works throughout the U.S., except in the high and low desert areas, and extreme southern Florida. Its cover is quickly established, blooms and reaches maturity in 70 to 90 days, after which its residue breaks down quickly. Buckwheat can be mixed with sorghum-sudangrass and sunn hemp. It is NOT frost tolerant, and it is not particularly drought tolerant nor does it do well in compacted, droughty or excessively wet soils. Use as a phosphorus and potassium scavenger or to refresh over-farmed soils. Use 50 -100 lbs/acre.



S11372	1 lb.	\$4.50	S11373	5 lb.	\$15.00
S17985	25 lb.	\$49.00	S16342	50 lb.	\$69.00

WINTER RYE *Secale cereale*

Rye is a cool season annual cereal grain for use throughout the US except the low desert of the U.S. Use it to scavenge excess nitrogen, prevent erosion, add organic matter, and suppress weeds. Rye can be mixed with other legumes, grasses or cereal grains. It is the hardiest of cereals and can be seeded later into the fall season than other cover crops, while still providing considerable dry matter. A versatile cover crop, it acts as an excellent source of residue in no or low-till systems, providing significant amounts of straw mulch. Seed from late summer to midfall in Zones 3 to 7 and fall to midwinter in Zone 8 and warmer. Use 80 -140 lbs/acre.

S11388	1 lb.	\$4.00	S11389	5 lb.	\$13.00
S11390	25 lb.	\$29.00	S16345	50 lb.	\$37.00

SPRING TRITICALE & WINTER TRITICALE

Triticum durum X Secale cereale

As a wheat-rye cross, the two triticales combine strengths from both sets of parents. Use their respective data for guidance in planting within their seasons. Much like both parents, it acts to prevent erosion, suppress weeds, scavenge excess nutrients and add organic matter. Mix with annual legumes and other small grains, as needed. Use 80 -120 lbs/acre.

SPRING	S11490	1 lb.	\$4.25	S11491	5 lb.	\$14.00
	S21010	25 lb.	\$39.00	S11492	50 lb.	\$67.00
WINTER	S11493	1 lb.	\$4.25	S11494	5 lb.	\$14.00
	S18440	25 lb.	\$39.00	S16346	50 lb.	\$67.00

BELL BEANS

Vicia faba

Bell beans are a winter annual legume native to the Mediterranean region, therefore use throughout the cooler seasons as a cover crop. One of its strengths lies in the amount of biomass it produces in a short time period. Then, in turn, it can quickly be used as a green manure because its residue persists longer than other leguminous cover crops to improve heavier soils. While regarded somewhat as a low nitrogen fixer, consider it also for attracting beneficial insects into its canopy. Bell beans are commonly mixed with vetch and oats. Use 100-170 lbs/acre.

S21011	1 lb.	\$5.00	S21012	5 lb.	\$17.00
S21013	25 lb.	\$67.00	S21014	50 lb.	\$108.00

ALSIKE CLOVER

Trifolium hybridum

Alsike is a native Swedish perennial able to live 2 to 6 years under favorable conditions, (cool air with abundant moisture.) It is more commonly used as a biennial. Alsike is able to adapt to low-lying moist areas, even withstanding soils that are waterlogged for a lengthy period of time, and is well-suited for acidic, organic soils. It will not perform in shade. Alsike's long taproot survives most winters to re-emerge as a new plant the following spring. Use 15-30 lbs/acre.

S21015	1 lb.	\$7.00	S21016	5 lb.	\$27.00
S21017	25 lb.	\$104.00	S21018	50 lb.	\$166.00



HULLESS OATS *Avena nuda* & SPRING OATS *Avena sativa*

Oats work throughout most of the U.S outside summer, except in the high and low desert area of the Rocky Mountains, and in deep southern states as a cooler season annual. It will winterkill in Zones 6 and much of Zone 7. As a cover, it helps to suppress weeds, prevent erosion, scavenge excess nutrients, add biomass, and acts as a nurse crop. Mixes can be made with clovers, peas, vetch and other legumes or small grains. The fibrous root system holds soil in rotation, and provides easy going mulch before a low or no-till crop production cycle. As a nurse or companion crop, oats are a catalyst to increase nitrogen fixation and winter survivability of legumes. Use our hullless variety to cook for oatmeal or when grinding for oat flour. Use 90 -110 lbs/acre.

HULLLESS	S11663	1 lb.	\$5.00	S11664	5 lb.	\$17.00
	S11665	25 lb.	\$57.00	S11666	50 lb.	\$92.00
SPRING	S16382	1 lb.	\$4.25	S16384	5 lb.	\$14.00
OATS	S17982	25 lb.	\$39.00	S16347	50 lb.	\$67.00



CRIMSON CLOVER

Trifolium incarnatum

Crimson clover is either a winter annual or summer annual legume, depending on location. Sow as a summer annual in the upper Mississippi river valley and the northeastern part of the U.S, and as a winter annual in the far-western coastal area and the eastern half of the US outside the area where used as a summer annual. It performs in a marginal way in the remaining geographic region of the US, except in the Rocky Mountains, the high and low desert regions of the western U.S. and the extreme upper Midwest where it is not recommended. Use this versatile legume as a nitrogen source, soil builder, for erosion prevention, as a reseeding inter-row ground cover, and as a forage. Use 15-30 lbs/acre.

S16609	1 lb.	\$12.00	S16618	5 lb.	\$47.00
S11669	25 lb.	\$187.00	S11670	50 lb.	\$324.00

MEDIUM RED CLOVER

Trifolium pretense

Consider this clover a spring seeded biennial east of the Mississippi into the eastern half of the Plain states and the upper coastal areas of the western U.S. Then, in the region of the eastern U.S, draw a line from Virginia to Oklahoma and for those states to the south, it should be used as a winter annual. Use as a nitrogen source, soil builder, weed suppressor, as an insectary crop and for forage. It can be mixed with other small grains, sweetclover, corn, soybeans, vegetables, and other grass forages. Consider as a pre-plant nitrogen source when it is killed before sweet corn planted in early summer. As a soil conditioner, its taproot may penetrate several feet down while the extensive root system permeates the topsoil. Medium red clover will quickly grow back when cut, though it is slightly more expensive than single-cut clovers. Use 10-20 lbs/acre.

S13633	1 lb.	\$7.00	S13634	5 lb.	\$27.00
S18442	25 lb.	\$104.00	S16343	50 lb.	\$166.00



HAIRY VETCH

Vicia villosa

Hairy vetch is an excellent, quick spring nitrogen and residue producer for much of the eastern half of the U.S, north of the extreme southern states where it performs variably. Consider in areas of the western U.S. when under irrigation, except in the mountainous regions. Widely adaptable as a nitrogen source for a winter annual legume, its other attributes are to condition the soil, suppress weeds, and in the scavenging of phosphorus. Higher priced than many legumes, mix with rye and other upright cereal grains for overall lower cost per area. The Rodale Institute has demonstrated its primary benefit, spring nitrogen fixation, works well when properly rolled prior to use in no or low-till systems. Use 20-40 lbs/acre.

\$11255	1 lb.	\$6.50	\$11256	5 lb.	\$25.00
\$11257	25 lb.	\$82.00	\$11258	50 lb.	\$129.00

PURPLE VETCH



Vicia atropurpurea

Purple vetch is a cool season annual legume, native to the Mediterranean region of southern Europe. While it has been noted to be of excellent value along the western coast of the U.S, consider it under irrigation in other areas of the U.S. in areas where hairy vetch grows, outside the high and low desert areas. When contrasted with the hairy vetch, purple vetch is a much faster growing alternative. It is also a superb weed suppressor and an attraction for bees, native or otherwise. Mix with other legumes and grains as a lower cost alternative. Use 20-40 lbs/acre.

\$21019	1 lb.	\$4.00	\$21020	5 lb.	\$16.00
\$21021	25 lb.	\$65.00	\$21022	50 lb.	\$104.00

AUSTRIAN WINTER PEAS

Pisum arvense

Field Peas grow rapidly as winter annuals in the south and in parts of Idaho during its cooler moister weather. Likewise, when it is sown early in the Northeast, North Central and Northern Plains, it performs as a summer annual. Best used as a plow-down nitrogen source, weed suppressor and as a forage. Mix with triticales, strong stemmed wheat, rye and/or barley for vertical support. Winter peas produce a significant amount of biomass, but produce for long-term organic matter only in high production areas as a result of its very quick residue breakdown. It is not helpful for weed control. The king of nitrogen producers, it performs as a versatile workhorse pre-plant to cash crops. Drill or incorporate peas into well-limed, well-drained clay and/or near neutral or above pH soils of heavy loam with moderate fertility. Inoculate when sown into areas that have not grown peas for several years. Use 40-80 lbs/acre.

\$11635	1 lb.	\$4.00	\$11636	5 lb.	\$15.00
\$11637	25 lb.	\$49.00	\$11638	50 lb.	\$63.00

YELLOW BLOSSOM SWEETCLOVER

Melilotus officinalis

A biennial legume for use throughout the U.S, though of marginal use in the high and low desert areas of the west, fall sow in the coastal west beyond the Sierras and in the deep south, while spring sow in all other areas. Useful as a soil builder, fertility source, subsoil aerator, weed suppressor, and for erosion prevention, yellow sweetclover gives the greatest amount of warmer-weather biomass production of any legume and is very drought tolerant once established. Consider it also for beneficial insect attraction and to scavenge nutrients. This clover works quite well on marginal ground. Use 10-20 lbs/acre.

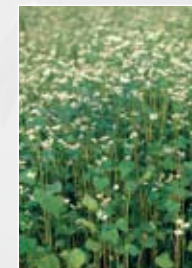
\$11503	1 lb.	\$6.00	\$11504	5 lb.	\$24.00
\$18065	25 lb.	\$80.00	\$18438	50 lb.	\$111.00

BENEFICIAL FLOWERS

BUCKWHEAT *Fagopyrum esculentum*.

(45-60 days). Flowers of buckwheat are favorites of ladybugs and syrphid flies. Be sure to make this part of your early season farmscaping plans. Fast grower but needs warmer soils to germinate.

\$11372	1 lb.	\$3.00
\$11373	5 lb.	\$13.50
\$17985	25 lb.	\$47.25



ALYSSUM, WHITE SWEET

Lobularia maritima

(50-60 days). Pure white, honey-scented blossoms attract beneficial insects such as syrphid/hoverflies. These useful flies aid in the reduction of aphid populations. Sow directly outdoors in spring when light frosts are still possible.

\$18023	¼ oz.	\$17.00
\$18034	1 oz.	\$52.00
\$18051	¼ lb.	\$198.25
\$18069	1 lb.	\$642.50



CILANTRO *Coriandrum sativum*

(55-90 days). Cilantro will produce white, umbelliferous flowers early when left alone (i.e. not cut for market). These blooms will then provide lots of pollen for ladybugs, syrphid flies and pediobus wasps which prey on Mexican bean beetle larvae. Anecdotal evidence also suggests cilantro may deter four-legged animals looking for food to munch on.

\$15772	¼ lb.	\$13.15
\$13598	1 lb.	\$26.00
\$18158	5 lb.	\$89.00



MARIGOLD, NEMATOCIDAL

Tagetes minuta

(105-120 days). Helps to deter harmful nematodes, when planted as a cover crop and tilled into the soil at the flowering stage. Rich fragrance and diminutive flowers also attract many beneficials.

(No sales into HI).

\$12733	¼ lb.	\$93.25
\$14762	1 lb.	\$296.65
\$20854	5 lb.	\$989.15



AMMI VISNAGA *Ammi visnaga*

(110-120 days). In mass plantings, this species serves as excellent habitat for parasitic wasps. Doubles as filler in flower bouquets as well. Plant in the fall in milder climates or early spring in Zones 6 or cooler.

\$20983	2 oz.	\$39.00
\$18037	½ lb.	\$90.00
\$20992	2 lb.	\$190.00



STRAWBERRIES

JUNE BEARING VARIETIES*

Fragaria spp



CAMAROSA

Early, short day variety produces very large conical fruit with generally high total yields. Has excellent internal and external fruit color. Moderately rain tolerant. Adapted to So. CA and the south. Developed by Univ. of CA, released in 1993.

\$19811	20 crowns	\$34.25
\$19817	100 crowns	\$112.00
\$21724	500 crowns	\$227.85
\$19824	1,500 crowns	\$497.00
\$21517	20,000 crowns	\$3,100.00

CHANDLER

Short-day variety widely planted in winter months in So. CA as well as the Central Valley. Very high yielding variety with large flavorful fruit. Adaptability shown to other regions, although not very winter hardy and should be avoided in colder areas. Released in 1983 by the Univ. of CA.

\$19810	20 crowns	\$34.25	\$19815	100 crowns	\$112.00
\$21727	500 crowns	\$227.85	\$19823	1,500 crowns	\$497.00
\$21728	20,000 crowns	\$3,100.00			

EVERBEARING VARIETIES

ALBION

Produces evenly throughout the production season. Consistent long conical shape and uniform fruit size. Resistance to Verticillium wilt and Phytophthora crown rot. Outstanding flavor, attractive internal and external fruit color. In 2006, most widely planted public variety in CA.

\$19814	20 crowns	\$34.25	\$19819	100 crowns	\$112.00
\$21729	500 crowns	\$227.85	\$20999	1,500 crowns	\$497.00
\$21730	20,000 crowns	\$3,100.00			

AROMAS

Productive variety with large and firm fruit. Fruit contains good red color, sheen and flavor. Plant canopy more erect than other varieties to facilitate harvest and aid in pest control. Broad environmental tolerance. Variety initiates fruiting after other like varieties.

\$21000	20 crowns	\$34.25	\$21001	100 crowns	\$112.00
\$21731	500 crowns	\$227.85	\$21003	1,500 crowns	\$497.00
\$21732	20,000 crowns	\$3,100.00			

SEASCAPE

A cross between popular varieties, Selva & Douglas. Very productive all season with large fruit and excellent flavor. Each cluster produces one-large extra berry. Does not need much chill, can be planted in warmer climates. Overall good disease resistance but mildly susceptible to common leaf spot. Developed by the Univ. of CA and released in 1991.

\$19813	20 crowns	\$34.25	\$19818	100 crowns	\$112.00
\$21733	500 crowns	\$227.85	\$21004	1,500 crowns	\$497.00
\$21734	20,000 crowns	\$3,100.00			

*For shipments to Hawaii call for cost of additional documentation (phytosanitary certificate). Cannot ship to Canada.

HERB SEED PACKETS CONTAIN ~100 SEEDS

Basil *Ocimum basilicum*

SUPER SWEET CHEN

(65-75 days). Highly productive Italian large leaf basil. Full, bright green and dimpled leaves with excellent bolt resistance. Serious growers prefer this one above all others. 12-16" in plant height.



\$16595	pkt.	\$3.29
\$17135	1 oz.	\$6.00
\$17140	¼ lb.	\$19.00
\$18154	1 lb.	\$59.00
\$18162	5 lb.	\$289.00

AROMA II F-1

(65-75 days). Outstanding basil offers that classic aroma with a more sophisticated Genovese appearance. Combining bolt resistance and Fusarium tolerance, this variety is rapidly becoming a standard. Dark-green, refined 3" long leaves. 14-22" in plant height.



\$21721	pkt.	\$3.29
\$17145	1 oz.	\$15.00
\$17149	¼ lb.	\$37.50
\$18140	1 lb.	\$123.00
\$20737	5 lb.	\$548.75

GENOVESE SWEET

(65-75 days). Classic Italian basil. Most productive strain in our Genovese trials with a high leaf to stem ratio. Uniform and slow to bolt with great basil flavor. 14-20" in plant height.

\$10690	pkt.	\$3.29	\$11216	1 oz.	\$6.00
\$11317	¼ lb.	\$13.40	\$14392	1 lb.	\$33.00
\$18138	5 lb.	\$150.00			



POPPY JOE'S

PVP (65-75 days). Genovese-type basil developed for exceptional fusarium resistance. Very aromatic and uniform with bright green leaves. Bred by Rutgers University for Seeds of Change. In independent trials, this variety leads the pack in vigor and pesto-readiness. 12-14" in plant height.

\$16930	pkt.	\$3.79
\$17127	1 oz.	\$14.00
\$17129	¼ lb.	\$34.00
\$18126	1 lb.	\$119.00
\$18137	5 lb.	\$495.00

GENOVESE EMILY F-1

(65-75 days). Similar to our popular sweet variety though with a much more compact plant habit. Will work very well for pack sales and other live plant markets where a dense appearance is required. Plant height is 14-18".

\$21722	pkt.	\$3.29	\$20743	1 oz.	\$14.00
\$20744	¼ lb.	\$41.50	\$20746	1 lb.	\$139.75
\$20747	5 lb.	\$545.00			

SPECIALTY BASILS

AROMATTO

(65-75 days). Attractive basil with purple leaves (less than 5% greening to start, more as it ages) and flowers. Slightly spicy flavor and aroma, beautiful in bunches or flower arrangements. 14-18" in plant height.

\$21053	pkt.	\$3.29	\$17158	1 oz.	\$13.00
\$17177	¼ lb.	\$34.00	\$18143	1 lb.	\$65.00
\$21801	5 lb.	\$121.00			



RED RUBIN

(60-70 days) Out most consistently colored deep-purple basil of all tested. Fine traditional flavor with beautiful lavender flowers. Use either as a culinary herb or in ornamental arrangements

\$14523	pkt.	\$3.29
\$14922	1 oz.	\$8.00
\$21307	¼ lb.	\$26.80
\$21305	1 lb.	\$58.25
\$21821	5 lb.	\$187.50

BASIL AGRONOMICS

GROWING CONDITIONS

Basil is a quick-growing, frost-sensitive, warm-season crop. It grows best in full sun with daytime temperatures from 80-90°F, and 60-75°F at night on well-drained fertile, loamy soil with a pH between 5.5 and 6.5. Maintain consistent soil moisture throughout growth. Pinch off flower buds as they begin to emerge. This will promote bushiness and maximum leaf production. Do not over-fertilize as this will decrease the potency of the essential oils. Air temperatures below 38°F will cause leaves to discolor.

PLANTING Basil can be either direct-seeded or transplanted. Use our new Planting Guide for Vegetables (p34-35) to determine seeding depth, spacing, and rates. For direct-seeding, plant in late spring when soil temperatures have reached at least 70°F and all danger of frost has passed.

HARVEST/STORAGE

The ideal time for basil harvest is on a sunny morning after the dew has evaporated but before it gets too hot. Cut the leaves back to about ¼" above the nodes to allow for vigorous re-growth. A healthy crop can be harvested 2-5 times depending on the length of the growing season, although many growers harvest only once. Basil may be marketed fresh or dry. If drying, immediately after harvest, spread the leaves out on screens and dry quickly in a dark, dry, well-ventilated room. When basil is grown for oil extraction from dried leaves, cut after the flower stalks appear but just before the flowers open. This versatile crop can be used for culinary, medicinal, aromatic, ornamental, and cosmetic purposes.

PEST AND DISEASE PREVENTION

Basil is susceptible to a number of damping-off organisms such as *Pythium*, *Rhizoctonia* and *Phytophthora*. Avoid overhead irrigation, which creates ideal micro-climates for seedling disease. A major disease issue for commercial growers in high humidity regions is the Fusarium wilt fungus, which can destroy an entire crop. Genetic resistance is the best defense. Poppy Joe's basil displays strong resistance to Fusarium, and Aroma 2 Basil has partial resistance.

LEMON

(60-70 days). Chefs prize this basil for culinary accent. Intensely fragrant 1½" leaves meld the delightful flavors of lemon and basil. Excellent fresh or dried, in salads, on seafood and in dressings, teas, or potpourris. 12-24" in plant height.

\$10849	pkt.	\$3.29	\$13586	1 oz.	\$9.75
\$13587	¼ lb.	\$26.50	\$14850	1 lb.	\$47.25



THAI

(75-80 days) This intensely sweet, anise fragrance with a hint of mint and citrus in the leaves makes a wonderful garnish. The 1½-2½" leaves are green at the base, growing purple toward the flowers.

\$11034	pkt.	\$3.29
\$15237	¼ oz.	\$7.40
\$13588	1 oz.	\$20.15
\$13589	¼ lb.	\$46.50
\$21463	1 lb.	\$121.00



CINNAMON

(65-75 days). Distinctive cinnamon fragrance is great when used in teas. Adds a distinct, engaging aroma and attractive accent when arranged in flower bouquets. 12-24" in plant height.

\$10850	pkt.	\$2.79
\$13584	1 oz.	\$9.90
\$13585	¼ lb.	\$27.00
\$14391	1 lb.	\$39.00



BORAGE

Borago officinalis

(50-60 days) Plants bear hundreds of small edible flowers over a long period, giving mild cucumber flavor for use in salads and as a garnish. Freeze flowers into ice cubes for a colorful addition to summertime thirst quenchers. As a medicinal, the seed oil is a rich source of gamma-linolenic acid. Easy-to-grow for an excellent bee attractant.

\$10638	pkt.	\$3.29	\$21309	1 oz.	\$10.90
\$21310	¼ lb.	\$36.00	\$21308	1 lb.	\$99.00



CATNIP *Nepeta cataria*

(75-85 days) Catnip is one of the easiest herbs to grow; perennial with gray-green leaves and white flowers. Fresh or dried, it is a euphoric for cats and as a mild sedative for humans. Drought tolerant once established.

\$10852	pkt.	\$3.29
\$21311	½ oz.	\$12.00
\$13590	1 oz.	\$19.00
\$13591	¼ lb.	\$59.00

CHERVIL

Anthriscus cerefolium

(85-95 days) Mild, sweet anise flavor is popular in salads, micro mixes, or as a garnish. Use for spring and fall plantings. Resists hot and cold temperature pressure in race to bolt. Some cite chervil as useful in dissolving bruises.

\$11047	pkt.	\$3.29
\$13594	1 oz.	\$19.00
\$13595	¼ lb.	\$59.00



CHIVES

Allium schoenoprasum

(60-70 days). Heavier leaf onion chive. Whether the destination is freezing, drying, or fresh use, Staro is a great choice for markets that require a much thicker leaf than the finer leaf varieties. Zones 3-9.

\$21061	pkt.	\$3.29
\$20750	½ oz.	\$9.65
\$20748	1 oz.	\$16.80
\$20749	¼ lb.	\$44.00
\$20751	1 lb.	\$149.00

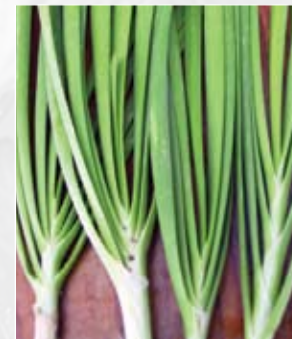


NIRA GARLIC CHIVES

Allium tuberosum

(80-90 days). Outstanding selection from Israel is short and compact with uniquely flattened leaves. Mild, pleasing garlic taste distinct from the traditional chive flavor. Very uniform growth habit, exhibits excellent field emergence and seedling vigor. Zones 3-9.

\$17175	pkt.	\$3.29
\$18152	½ oz.	\$7.25
\$17131	1 oz.	\$12.40
\$17134	¼ lb.	\$39.00
\$18166	1 lb.	\$139.60



CILANTRO

Coriandrum sativum

SLOW BOLT (SANTO CILANTRO)

(50-55 days). Classic Mexican herb, this strain was bred for maximum leaf production and bolt resistance in the heat. Cilantro flowers attract beneficial insects such as hoverflies. Also can be grown out for seed (Coriander).

\$11046	pkt.	\$3.29
\$18136	1 oz.	\$6.00
\$15772	¼ lb.	\$13.15
\$13598	1 lb.	\$26.00
\$18158	5 lb.	\$89.00



DILL *Anethum graveolens*



BOUQUET

(50-60 days). Attractive variety with larger leaves for beautiful, aromatic bunches. Best for pack sales and as a reliable fresh-cut dill. We consider this the best dill for seed collecting.

\$10856	pkt.	\$3.29
\$11518	1 oz.	\$5.00
\$11519	¼ lb.	\$12.00
\$18168	1 lb.	\$26.00
\$18178	5 lb.	\$89.00

DUKAT

(50-60 days). Delicately aromatic, never bitter or overly pungent. Perhaps the sweetest of all dills. The preferred commercial variety. Stays leafy longer than others.

\$11038	pkt.	\$3.29	\$11633	1 oz.	\$6.25
\$11634	¼ lb.	\$12.50	\$18156	1 lb.	\$31.50
\$18169	5 lb.	\$125.75			

EPAZOTE *Chenopodium ambrosioides*



(45-65 days) Best planted every 2-3 weeks throughout growing season for steady harvest. Also called "Mexican Tea," this aromatic herb enhances taste of black beans and as an aid in digestion. Known to kill intestinal worms. Dependent on light and heat to germinate.

\$11084	pkt.	\$3.29
\$21319	¼ oz.	\$9.00
\$21317	1 oz.	\$23.00
\$21318	¼ lb.	\$59.00
\$21316	1 lb.	\$194.00

FENNEL *Foeniculum vulgare*



ORION F-1

(80-85 days). Very uniform, round, high quality bulb for spring and autumn crops. Resistant to bolting and tipburn. Our best choice for commercial production. Big and bold. Zones 4-9.

\$21723	pkt.	\$3.29
\$18149	1,000 seeds	\$27.00
\$18160	5,000 seeds	\$114.00
\$18177	10,000 seeds	\$196.00
\$18183	50,000 seeds	\$874.00

PERFECTION

(80-90 days). An improved Zefa Fino-type fennel selected for larger, rounder bulbs with good vigor and bolt resistance. Intensely aromatic, this culinary masterpiece will dazzle your chef accounts. Zones 4-9.

\$16605	pkt.	\$3.29
\$18163	½ oz.	\$17.00
\$16718	1 oz.	\$29.00
\$16730	¼ lb.	\$79.00
\$18174	½ lb.	\$119.00

ZEFA FINO

(80-90 days). Also called finocchio, this herb was introduced from Italy over 100 years ago. Medium, slightly elongated bulbs have classic, sweet anise-like flavor. Use this one if you are growing as minis. Zones 4-9.

\$10641	pkt.	\$3.29	\$12685	½ oz.	\$12.00
\$12686	1 oz.	\$23.00	\$12687	¼ lb.	\$65.00
\$18153	½ lb.	\$97.25			

LEMON BALM

Melissa officinalis

(70 days) The fresh leaves are used in teas and salads. Its pleasant, lemon-scented leaves are said to be calming for children and helpful for upset stomachs. Once drank daily by King Charles V to stay healthy. Mulch overwinter where temps drop below 0°F. Easy-to-grow in well drained soil.



\$10698	pkt.	\$3.29
\$21321	¼ oz.	\$9.00
\$11322	1 oz.	\$15.00
\$11323	¼ lb.	\$49.00
\$21320	1 lb.	\$74.00

MINT LICORICE *Agastache foeniculum*

LICORICE (ANISE HYSSOP)

(75-80 days) Aromatic plant with sweet, licorice-mint flavor. Leaves and bluish-purple 4-6" flower spikes can be used fresh or dried for salads, teas and garnishes; also a Chinese medicinal for stomach disorders. This as a superb pollinating insect plant.



\$10700	pkt.	\$3.29
\$15246	¼ oz.	\$16.00
\$11328	1 oz.	\$28.00
\$11329	¼ lb.	\$74.00

PARSLEY *Petroselinium crispum*

ITALIAN FLAT LEAF

(75-85 days). An excellent culinary selection with larger leaves than standard strains, yet more concentrated flavor. A staple for fresh use or dried for seasoning. Nutritious and tasty. Zones 4-9.



\$10866	pkt.	\$3.29
\$15248	1 oz.	\$11.00
\$16381	¼ lb.	\$26.00
\$14404	1 lb.	\$58.00
\$18159	5 lb.	\$185.00



KRAUSA F-1

Very dense, triple-curved leaves retain crisp texture and bright green color extraordinarily well after harvest. Excellent leaf to stalk ratio and high yielder. Compact plants of 12" with sufficient stem length for bunching. Great fresh or dried. Zones 4-9.

\$21802	pkt.	\$3.29
\$18161	1 oz.	\$76.00
\$18173	¼ lb.	\$183.00
\$18182	1 lb.	\$491.00

THYME *Thymus vulgaris*



ENGLISH

(90-95 days). This small, upright shrub has been an herbal mainstay for centuries. Strongly aromatic, fresh or dried. Zones 5-9.

\$14169	pkt.	\$3.29
\$15249	½ oz.	\$7.00
\$15250	¼ oz.	\$12.00
\$17125	½ oz.	\$19.50
\$18184	1 oz.	\$37.00



GERMAN WINTER

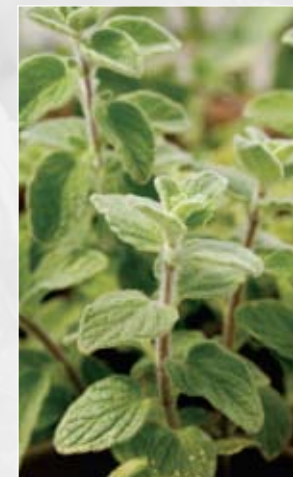
(90-95 days). Classic culinary herb. Evergreen-looking leaves on woody stems are small and round to needle shaped, with either ornamental or medicinal uses. This hardier thyme may still need mulching to overwinter in colder climates. Zones 4-9.

\$21083	pkt.	\$3.29
\$20760	½ oz.	\$4.50
\$20761	¼ oz.	\$8.00
\$20762	½ oz.	\$9.75
\$20763	1 oz.	\$19.00



Cleaning seed at Rich Pecoraro's Farm, Boulder, Colorado. Photo by Scott Vlaun, Moose Pond Arts and Ecology.

OTHER CULINARY HERBS



MARJORAM

SYRIACA 'ZAAATAR'

Oniganium syriaca
(85-90 days). Flavor combines sweet marjoram, thyme, and oregano. This particular marjoram comes from the Mediterranean where it has been enjoyed for centuries old tradition of culinary use. Soft-gray-green plants with semi-upright leaves. Protect from frost at the seedling stage. Harvest stems when at least 4-6". Perennial in Zones 8-10.

\$16996	pkt.	\$3.29
\$20765	250 seeds	\$4.90
\$20766	1,000 seeds	\$11.00
\$20767	5,000 seeds	\$39.60
\$20768	25,000 seeds	\$189.00



ROSEMARY

Romarinus officinalis
(80-90 days). A must for anyone who sells herbs in pots. Rosemary seed is typically low in germination, but this selection was a strong performer in our trials and we are excited to make it available to you. Perennial in Zones 7-10.

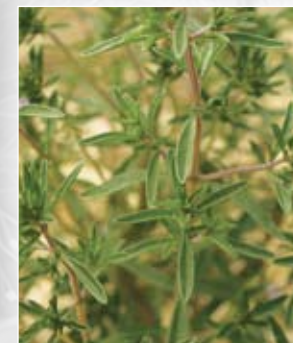
\$15086	pkt.	\$3.29
\$20769	½ oz.	\$118.65
\$20770	1 oz.	\$189.45
\$20771	¼ lb.	\$497.00



SAGE, GARDEN *Salvia officinalis*

(80-90 days). Classic sage grown for centuries as a culinary herb. Profuse purple flowers also make a great attractant for bees and other beneficial insects. Zones 5-9

\$10871	pkt.	\$3.29
\$18165	¼ oz.	\$6.00
\$18181	1 oz.	\$18.50
\$18191	¼ lb.	\$49.00
\$18207	1 lb.	\$154.00



SUMMER SAVORY

Satureja hortensis
(65-75 days). Introduced to the States from Europe long ago. Flavorful, easy-to-grow, with a similar taste to thyme, though milder. Widely used in salads, soups and bean dishes, fresh or dried.

\$10704	pkt.	\$3.29
\$11330	½ oz.	\$8.00
\$11331	1 oz.	\$12.75
\$18175	1 lb.	\$105.00

CUT FLOWERS

SEED PACKETS CONTAIN ~100 SEEDS



AGERATUM, BLUE BOUQUET
Ageratum houstonianum
(80-100 days). Long-lasting, long-stemmed flower clusters are a wonderful addition to any mixed bouquet. Blue is a rare color in the cut flower world; this species will produce a highly-desired hue. Make successive planting throughout the growing season for continuous blooms.
20-24" in height.

S16599	pkt.	\$3.69
S20774	1,000 seeds	\$9.00
S20775	5,000 seeds	\$37.50
S20776	25,000 seeds	\$150.00

AMARANTH *Amaranthus spp.*



ELEPHANT HEAD
A. gangeticus
(70-80 days). Striking statute-like habit of deep red spikes peeks the outrageous in us all. Evokes an image of an elephants' trunk thrust skyward. Will work either as a centerpiece of a bouquet or by its brilliant self. Survives thanks to seed collector Frances Hoffman.
3-5' in height.

S10705	pkt.	\$3.69
S20777	1/2 oz.	\$5.00
S20778	1/2 oz.	\$12.00
S20779	2 oz.	\$34.00



LOVE LIES BLEEDING
A. caudatus
(80-70 days). Graceful ropes of cascading deep red, lavish plumes. Stunning in bouquets, reminiscent of aristocratic times. Can be used either as a fresh or dried flower.
4-5' in height.

S11086	pkt.	\$3.69
S20780	1/2 oz.	\$7.00
S20781	1/2 oz.	\$15.00
S20782	2 oz.	\$39.00



AMMI VISNAGA *Ammi visnaga*
(110-120 days). Lacy white flowers on tall, strong branching stalks, makes elegant filler for flower bouquets. See Beneficial Flower section for other uses. Best to plant in fall in milder climates, or early spring in Zones 6 or cooler.
3-5' in height.

S17188	pkt.	\$3.69
S20783	1/2 oz.	\$7.00
S20784	1/2 oz.	\$15.00
S20983	2 oz.	\$39.00

CALENDULA *Calendula officinalis* ORANGE ZINGER

(85-95 days). Vibrant colors and long stems make this traditional medicinal ideal for flower arrangements. Rich aroma adds an additional sensory experience. High-resin content for tincture and salve-making.
18-24" in height.

S14529	pkt.	\$3.69
S15211	1 oz.	\$16.25
S15330	1/4 lb.	\$58.25
S18040	1/2 lb.	\$105.00
S18061	1 lb.	\$189.00



ZEOLIGHTS

(85-95 days). Gorgeous, fully double blooms with pale cream petal faces dark maroon-pinkish edges, and maroon petal backs. This selection comes from plant wizard Frank Morton, who champions calendula as a beneficial attractant and a colorful garnish to salad mixes.
2-3' in height.

S17741	pkt.	\$3.69
S18036	1 oz.	\$21.00
S18053	1/4 lb.	\$75.75
S18067	1/2 lb.	\$136.50
S18080	1 lb.	\$245.00



CELOSIA *Celosia cristata* TEMPLE BELLS

(90-120 days). Crested beauties of 6-8" velvety coral, orange cockscombs. Makes superb cuts for fresh or dried presentations.
2-3' in height

S14293	pkt.	\$3.69
S15769	1/2 oz.	\$24.00
S16436	1/2 oz.	\$59.45
S20787	2 oz.	\$193.45



RED FLAME

(60-70 days). Scarlet leaves distinguish this striking cockscomb variety. Evokes the appearance of a torch with flames emerging from the sides. Like all celosias, holds well in arrangements.
2-3' in height

S16969	pkt.	\$3.69
S20788	1/2 oz.	\$24.00
S20789	1/2 oz.	\$59.45
S20790	2 oz.	\$193.45



CENTAUREA *Centaurea cynus* BACHELOR BUTTONS

(85-95 days). 'Cornflower' of upright plants produces abundant amounts of blue 'button hole' flowers. Make several successive sowings over the summer season for continuous blooms. Tolerates poorer soils. Great edible flower and/or cut flower, fresh or dried, and attracts beneficial insects.
2-3' in height.

S11051	pkt.	\$3.69
S15785	1 oz.	\$17.00
S16723	1/4 lb.	\$49.00
S14368	1 lb.	\$154.00



COSMOS *Cosmos spp.*

BRIGHT LIGHTS
C. sulphureus
(70-80 days). Sunset-orange, semidouble flowers with an occasional burnt-red color. Profuse, early bloomer. Lasts into fall and through a few light frosts.
3-4' in height.

S14508	pkt.	\$3.69
S20795	1/2 oz.	\$8.50
S20796	1/2 oz.	\$17.80
S20797	2 oz.	\$54.25



PICOTEE *C. bipinnatus*
(80-90 days). Distinctive pure white flowers delicately edged with shades of rosy-red. Selected from a Tasmanian variety. Prolific producer with 18-30" stems. Makes for a very nice cut.
4-6' in height.

S11121	pkt.	\$2.79
S20801	1/2 oz.	\$7.25
S20802	1/2 oz.	\$16.90
S20803	2 oz.	\$51.35



SEASHELL MIX

C. bipinnatus var. cosmos
(80-90 days). Bushy plants loaded with exquisite, tubular petals and fluted edges. A mix of white, pink, and purple pastel blooms. Stunning effect is two-toned and three-dimensional.
4-5' in height.

S10710	pkt.	\$2.79
S20804	1/2 oz.	\$8.50
S20805	1/2 oz.	\$17.80
S20806	2 oz.	\$54.25



YELLOW GARDEN

C. bipinnatus
(100-110 days). Unusual, pale yellow cosmos with partially tubed, 2-3" flowers. Late bloomer, but well worth the wait. Better to start indoors in short season areas.
4-6' in height.

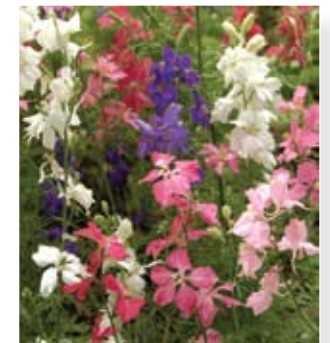
S14534	pkt.	\$3.69
S20798	1/2 oz.	\$8.50
S20799	1/2 oz.	\$17.80
S207800	2 oz.	\$54.25



LARKSPUR *Consolida ambigua*

BEAUTY SPIRE MIX
(70-80 days). A delightful mix of flowers in deep-blue, white, and shades of pink. Lovely throughout the summer and fall. Seed needs cold stratification: best when direct-seeded in late winter or early spring.
2-3' in height.

S14541	pkt.	\$3.69
S20807	1/2 oz.	\$7.05
S20808	1/2 oz.	\$12.25
S20809	2 oz.	\$36.15
S18073	1 lb.	\$159.15



GALILEE BLUE DOUBLE

(70-80 days). Rich deep blue, fully doubled flowers are beautiful in bouquets fresh or dried. Seed needs cold stratification: best when direct-seeded in late winter or early spring.
3' in height.

S17185	pkt.	\$3.69
S20810	1/2 oz.	\$7.05
S20811	1/2 oz.	\$12.25
S20812	2 oz.	\$36.15
S18102	1 lb.	\$159.15



GALILEE CARMINE DOUBLE

(70-80 days). Exquisite cut flower with dark pink to salmon blooms. Seed needs cold stratification: best when direct-seeded in late winter or early spring.
3' in height.

S17287	pkt.	\$3.69
S20814	1/2 oz.	\$12.25
S20815	2 oz.	\$36.15
S18116	1 lb.	\$159.15



MARIGOLD *Tagetes ssp.* AFRICAN *T. erecta*

(70-80 days). A prolific bloomer, with yellow, orange, and gold double flowers. Impressive in mass plantings. Essential for southwestern and Mexican Day of the Dead celebrations. **2-4' in height.**

S10712	pkt.	\$3.69	S20816	1/8 oz.	\$7.55
S20817	1/2 oz.	\$14.85	S20818	2 oz.	\$42.50
S18072	1 lb.	\$287.05			



RED METAMORPH *T. patula*
(75-85 days) An incredibly profuse bloomer of stunning deep-red flowers accentuated by burnt orange under-petals. As temperatures increase, petals become more orange and yellow striped, returning to red-burgundy with onset of cooler fall weather. It makes a superb, thick hedge to attract beneficial insects. Not recommended for extreme northern latitudes. **2-3' in height.**

S17181	pkt.	\$3.69	S21817	1/8 oz.	\$7.55
S21818	1/2 oz.	\$14.85	S21819	2 oz.	\$42.50
S21820	1 lb.	\$287.05			



FRENCH BROCADE *T. patula*
(70-80 days). The classic brocade variety. Early and continuous 1-2" flowers include golden-yellow, burnt-orange with yellow margins, and reddish orange with distinctive red accents. **12-18" in height.**

S10713	pkt.	\$3.69	S20855	1/8 oz.	\$7.55
S20856	1/2 oz.	\$14.85	S20857	2 oz.	\$42.50
S14379	1 lb.	\$287.05			

NIGELLA *Nigella damascena*



NIGELLA, LOVE-IN-A-MIST
(105-120 days). Beautiful blooms of blue, pink, purple and white turn into an unusual seed pod. Lacy nets of greenery make this a favorite for fresh or dried flowers. Harvest fresh when buds are fully colored and dried when the seed pods are firm. **18-24" in height.**

S10888	pkt.	\$3.69	S20819	1/8 oz.	\$6.00
S20820	1/2 oz.	\$12.75	S20821	2 oz.	\$41.00
S20822	1 lb.	\$224.50			

SAFFLOWER *Carthamus tinctorius*




ORANGE GRANADE
(80-90 days). Spineless, robust and reliable cut flower. Used in the past extensively as a dye plant. Also known as saffron thistle or false saffron. Good dried flower when used in bouquets. **3-4' in height.**

S17461	pkt.	\$3.69	S20823	1 oz.	\$14.85
S20824	1/4 lb.	\$42.50	S20825	1 lb.	\$129.05

SUNFLOWERS *Helianthus annuus*

Helianthus annuus

ZOHAR F-1 
(50-55 days). Single stem, pollenless sunflower of superior quality for the professional grower. Petals are rays of rich orange surrounding a dark center for 4-6" overall diameter. Can be picked in as little as 40-50 days, though dependent on temperatures and day-length, when first sign of color appears from the petals. **4-5' in height.** (~25 seeds/pkt.)

S20826	pkt.	\$3.69	S20827	1,000 seeds	\$32.85
S20828	5,000 seeds	\$127.45	S20829	25,000 seeds	\$498.65
S20830	100,000 seeds	\$1,886.05			



JERUSALEM GOLD F-1

(50-55 days). Golden petals and a large, brown center define this 5-6" single head, 4' tall single stem sunflower. Ideal for close spacing. Flowers are very uniform, early maturing, and low pollen. **4' in height.** (~25 seeds/pkt.)

S20832	pkt.	\$3.69	S20984	1,000 seeds	\$29.40
S20985	5,000 seeds	\$117.35	S20986	25,000 seeds	\$487.45
S20987	100,000 seeds	\$1,795.40			



JERUSALEM LEMON GLORY F-1

(70-80 days). Bright lemon-yellow, 8-10" petals on a 4-5' plant. Large, brown center adorns this uniform, single headed sunflower. Perfect for close spaced production. Very low pollen makes for great cut flower. **4-5' in height.** (~25 seeds/pkt.)

S20833	pkt.	\$3.69	S20988	1,000 seeds	\$24.15
S20989	5,000 seeds	\$96.65	S20990	25,000 seeds	\$419.60
S20991	100,000 seeds	\$1,397.10			



TIGER'S EYE MIX

(85-100 days). Stunning eye catcher has received rave reviews. Rare selection of intriguing bronze, gold, and maroon flowers. Fully double-petaled centers and single-petaled outer rays. Includes some single-petaled Gloriosa types. Flowers vary from 4 to 8", 10-30 branches per plant. Magnificent in bouquets. **6-8' in height.**

S20834	pkt.	\$3.69	S16442	1 oz.	\$39.00
S16205	1/4 lb.	\$135.60	S14382	1 lb.	\$325.80
S18117	5 lb.	\$1,240.35			



DISCOVERY MIX

(80-100 days). Novel mix combines variations in intensity and pattern of Gloriosa Polyheaded. Double-petal gold, maroon and copper of 4-12" blooms. **6-9' in height.**

S11107	pkt.	\$3.69	S18094	1 oz.	\$6.50
S14911	1/4 lb.	\$23.50	S14618	1 lb.	\$75.75



EVENING SUN

(95-105 days). Velvety, maroon 4-6" flowers glow radiantly when backlit by the setting sun. Gorgeous in bouquets. Occasionally with pale-cream edging at the tips or centers. **6-10' in height.**

S20836	pkt.	\$3.69	S18097	1 oz.	\$9.00
S15228	1/4 lb.	\$29.85	S14381	1 lb.	\$114.15
S18120	5 lb.	\$498.00			




GOLDY DOUBLE

(50-55 days). A burst of sunlight, this fully doubled, golden sunflower produces little pollen and is stunning in bouquets. Uniform 5-7" blooms. 5-6 lateral stems per plant. **5-6' in height.**

S20837	pkt.	\$3.69	S18202	1 oz.	\$29.60
S17154	1/4 lb.	\$98.45	S17166	1 lb.	\$176.75
S18124	5 lb.	\$690.60			



JERUSALEM SUNRISE LEMON

 (70-80 days). Full sprays of distinctive, lemony 4-6" flowers on multi-branched plants. Several growers gave this flower the highest rating for marketability, productivity, and long vase-life. **4-5' in height.**

S14296	pkt.	\$3.69	S15792	1 oz.	\$29.60
S15771	1/4 lb.	\$98.45	S16439	1 lb.	\$176.75
S18111	5 lb.	\$690.60			



MEXICAN SUNFLOWER

Tithonia rotundifolia
(80-100 days). Vibrant, easy-to-grow bush with 2-4" intense orange blooms and velvety foliage. Produces long-stemmed side shoots. Beautiful mixed with zinnias or other sunflower varieties. Requires a delicate touch in bouquets, as flower bases are fragile. **6-8' in height.**

S10890	pkt.	\$3.69	S15296	1 oz.	\$25.00
S15229	1/4 lb.	\$90.00	S14619	1 lb.	\$204.40
S18119	5 lb.	\$870.45			



SWEET PEA *Lathyrus odoratus* OLD SPICE

(80-100 days). Fragrances of honey and orange. Heat-tolerant species with 1" blossoms of white, rose, purple, scarlet, lavender, pink, and cream. Presoak the seed prior to germination, then trellis while growing out. Perfect to place in a small vase on your table. Soil when kept cool with mulch will extend blossom harvest. **4-7' in height.**

S20838	pkt.	\$3.69	S20839	1 oz.	\$6.00
S20840	1/4 lb.	\$17.00	S20841	1 lb.	\$54.15

ZINNIA *Zinnia elegans*

PASTEL DREAMS

(60-70 days). Selected for its lovely range of pastel colors with the occasional deeper, richer-hued blossom. 3-4" flowers exhibit diverse petal types. Keep in mind these long stemmed, mixed color bouquets are always a popular seller at markets. **3-5' in height.**

S10892	pkt.	\$3.69	S15234	1/4 oz.	\$7.00
S15235	1 oz.	\$14.15	S15321	1/4 lb.	\$39.50
S14384	1 lb.	\$139.15			



SHADES OF PINK

(60-70 days). Mix of 3" single and double pink, mauve, and light purple blooms. 3' long stems make it excellent for cutting. Very tolerant of cold, fall temperatures. **3-5' in height.**

S11127	pkt.	\$3.69	S18109	1/4 oz.	\$6.00
S18122	1 oz.	\$18.00	S18133	1/4 lb.	\$65.00
S18151	1 lb.	\$180.40			



RIGHTEOUS RED

(60-70 days). Scarlet and orange-red, single and double blooms, as well as different types from Pom Pom to State Fair. Very sharp colors make these spectacular in bouquets. **3-5' in height.**

S11025	pkt.	\$3.69	S18113	1/4 oz.	\$5.00
S16538	1 oz.	\$14.50	S16440	1/4 lb.	\$65.00
S18139	1 lb.	\$168.00			



CANARY YELLOW

(60-70 days). Elegant, single and double, bright-yellow 3-4" blooms are stunning in big patches. Will look great as a border or backdrop to a landscaping arrangement. Many growers favor this one for its brilliant color, large flowers, and long stems. Best when direct seeded. **3-5' in height.**

S14558	pkt.	\$3.69	S15783	1/4 oz.	\$6.00
S15788	1 oz.	\$18.00	S16435	1/4 lb.	\$65.00
S20846	1 lb.	\$180.40			



PEGGY'S DELIGHT

(60-70 days). An explosion of orange and pink hues on unique, square-edge petals for a one-of-a-kind Rasta effect. Many cut flower growers are in love with this variety. Holds color and bloom for a long period of time. Selected from germplasm originally from Vietnam. **3-4' plant height.**

S16631	pkt.	\$3.69	S20847	1/4 oz.	\$8.00
S20848	1 oz.	\$24.00	S20849	1/4 lb.	\$68.75
S20851	1 lb.	\$197.50			



ACCESSORIES



ALL PURPOSE MIX 4-6-2

A gentle additive perfect for vegetables, flowers and herbs, also ideal for all types of transplants. Formulated especially for soils that tend to be slightly acidic. Delivers a steady supply of organic nutrients to stimulate soil fertility and microbial activity.

S21735 25 lbs. \$34.00
S21736 50 lbs. \$56.00



BIO-FISH BLEND 7-7-2

Nutrient rich fertilizer ideal for heavy feeders like corn and cole crops. Loaded with the finest marine based ingredients to improve your soils, Bio-Fish is a good source of nitrogen and phosphorus. Use throughout the growing season to promote vigorous growth, fruit and flower production.

S21737 25 lbs. \$39.00
S21738 50 lbs. \$73.00



KELP MEAL 1-0.1-2

Pure Ascophyllum nodosum seaweed from North Atlantic waters, this superb offering is hand-harvested, carefully dried and finely milled and is a rich natural source of Potash. Ideal for spring or fall applications.

S21741 25 lbs. \$50.00
S21742 50 lbs. \$114.00



ROCK N' CHICKEN 2-4-2

Unique, pelletized combination of soft rock phosphate and composted chicken manure. Easy to apply, use it on all applications as needed.

S21739 25 lbs. \$15.00
S21740 50 lbs. \$27.00



FISH AND KELP 3-2-2

A high quality blend of enzymatically digested fish fertilizer and water soluble seaweed powder. Slowly cold processed to preserve valuable nutrients with little residual odor. Contains readily available micronutrients, trace minerals and plant growth regulators. Apply as a foliar spray or in a soil drench. Balanced NPK ratio.

S21744 1 Gal. \$31.00
S21745 5 Gal. \$112.00



SOIL TEST KIT

This kit contains ten (10) test units for immediate determination of pH, nitrogen, phosphorus and potash levels. This is a must-have for any grower who requires instant feedback on soil qualities.

S21776 \$26.00

COMPOST THERMOMETER

A stainless steel probe, 19" in length with an easy-to-read dial, its scale ranges from 0° to 220°F. A requirement for use in the preparation and notation of proper results in the making of compost.

S21777 \$34.00

STICKY TRAPS YELLOW

Monitor whiteflies with this proven tool. Use as a threshold check in greenhouses and open field plantings for when to apply other agents in control of these nasty pests.

S21752 \$8.00

STICKY TRAPS BLUE

Monitor for thrips and leafminers. Use as a threshold check in open field plantings to determine when to apply other agents for the control.

S21753 \$8.00

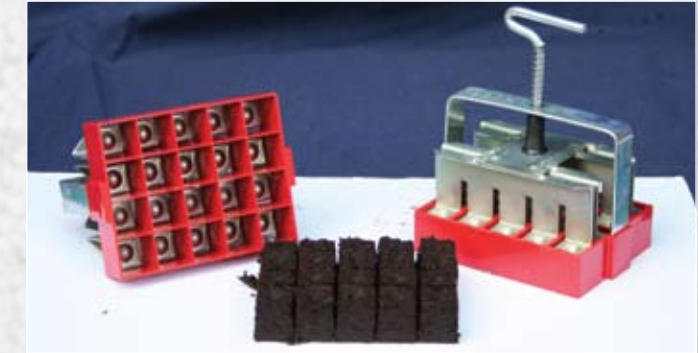
WOOD PLANT STAKES

S21750 6"-pkg of 20 \$6.00
S21751 12"-pkg of 20 \$11.00

EARTHWAY PRECISION SEEDER

This proven tool, a favorite of market gardeners and small farmers, eliminates the arduous task of stooping to hand sow vegetables, herb and flower seeds. In one operation, it will open the soil, space and plant the seed placed in the hopper, cover and pack the dropped seed and mark the next row. Lightweight and easy to use. Made from non-corrosive materials, it comes with six plates to enable the planting of 28 common vegetables: corn, beans, lettuce, turnips, onions, peas, tomatoes, cabbage, radishes, beets and more.

S17198 \$105.00



PROFESSIONAL GROWER SOIL BLOCK MAKERS

We are pleased to offer these stand-up blockers to ease the process in making your blocks for spring transplanting. Three sizes are offered: 20-1½"; 12-2"; and 6-2½" x 2½" x 3" cubes. All make depressions in the tops of the block to insert your seeds. Once efficiency is gained in making the blocks, some growers are able to make over 2,000 in one hour. We recommend you use our Sunshine Grower's Mix to make your blocks.

S21775 Multi 6 \$215.00 **S21773** Multi 12 \$215.00 **S21774** Multi 20 \$205.00



SUNSHINE GERMINATION MIX

This nationally recognized starter mix contains a fine grade of peat moss, medium vermiculite, lime, a wetting agent and organic fertilizer. Use it to get a great jump on your coming successful seasons. 2.8 cubic foot bag.

S21746 2.8 cu.ft.~72qts. \$39.00

SUNSHINE GROWERS ORGANIC SEEDLING MIX

With ingredients slightly different than our germination mix, Growers Organic contains coconut fiber, a growers grade of peat moss, perlite, pumice, vermiculite, lime and other organic fertilizers. 2.8 cubic foot bag.

S21747 2.8 cu.ft.~72qts. \$39.00



BLACK GOLD SEEDLING MIX

An ideal mix for strong seedling development, this mix contains sphagnum moss, plug grade perlite and vermiculite. It has been blended to provide drainage, aeration, and moisture retention.

S21748 8 qts. \$9.00
S21749 16 qts. \$15.00



ORGANIC WORM COMPOST

Considered to be the best organic amendment available. Vermicompost has superior soil enriching properties when compared to conventional compost. Readily available nitrogen, phosphorous and potassium. Improves disease resistances with high microbial activity and extraordinary amounts of humic substances. Use to make teas or apply as a side dressing.

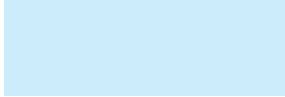
S21743 1 cu. ft. \$21.00





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LAKOTA P48



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