# Vegetable Cultivar Descriptions for North America

**List 27**  
2013

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**Crop listings**: asparagus, bean–dry, bean–green, beet, broccoli, cabbage, cabbage–Chinese, carrot, cauliflower, celery, collard, cucumber, eggplant, endive, herbs–parsley, leek, lettuce, melon, okra, onion, pea–green, pepper, pumpkin, radish, rhubarb, soybean, spinach, squash, sweetcorn, Swiss chard, tomato, turnip, watermelon.

This list of the North American vegetable cultivars was developed using the database of cultivars registered with the American Seed Trade Association, as well as published descriptions from scientific journals, seed catalogs, and websites of seed companies. Assistant editors responsible for each crop were instructed to obtain as much information as possible about the cultivars available to North American growers. The crop species are listed alphabetically, with cultivars listed alphabetically within each of those.

The information about each cultivar is presented in a standard format that includes the cultivar name, experimental designation, breeder, vendor, parentage, plant characteristics, disease and other resistances, similar cultivars, areas of adaptation, plant variety protection information, reference information, and year of release. In many cases, complete information was not available for the cultivars included in the list.

Previous vegetable cultivar lists have been published (1–26) in this journal, and its predecessor.

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**Jersey Knight**—Breeder and vendor: Jersey Asparagus Farms. Parentage: F1 hybrid. Characteristics: all male (androecious); adapted to temperate and warm climates; 7 days later than Jersey Supreme; high yield; medium to large spear diameter (control by spacing); green spears with slightly purple bracts under cool conditions. Resistance: rust. 2002.

**Jersey Supreme**—Breeder and vendor: Jersey Asparagus Farms. Parentage: F1 hybrid. Characteristics: all male (androecious); adapted to temperate warm and cool climates; early maturity; high yield; medium to medium large spear diameter (control by spacing); green spears with slightly purple bracts under cool conditions. Resistance: rust. 2002.

**BEAN–DRY**

**Black Velvet (EX 08520643)**—Breeder and vendor: Seminis Vegetable Seeds. Parentage: inbred line. Characteristics: upright indeterminate habit; processing type; black bean with a nice erect plant and full season maturity (105–110 days); seed size plumper.
than standard cultivars; canned quality as good or better than that of standard cultivars; yields consistently good. Resistance: Bean common mosaic virus (‘I’ gene), anthracnose (race Alpha). Similar: Midnight. Adaptation: NAFTA. 2004.


BEAN–GREEN


Charon—Breeder and vendor: Syngenta Seeds, Inc./Rogers Brand. Characteristics: long (6-inch), dark-green pods are very refined and have shown good yield potential in about 58 days. Resistance: super dwarf disease package; resistance to bean common mosaic virus; tolerance to bacterial brown spot, halo blight, and curly top. Adaptation: adapted to a variety of locations. 2005.


Greenback (SSC 1202)—Breeder and vendor: Shamrock Seed Co. Parentage: open pollinated. Characteristics: a highly productive bush bean that produces a dark green, upright bush with high pod placement; the round to oval pods are medium green in color and range from 6 to 6.5 inches in length; suited for mechanical harvest; developed for fresh market. Similar: Green Crop. Adaptation: U.S. bean growing areas. 2003.

HMX 5991—Breeder and vendor: Harris Seeds. Characteristics: gourmet quality, 60-day fresh market bush green bean; 5- to 5 1/2-inch pods have dark green color, 2 to 3 sieve size, and are set high on compact and erect bush plants. 1998.


Lynx (XP 8104379)—Breeder and vendor: Seminis Vegetable Seeds—Asgrow. Parentage: open pollinated. Characteristics: bush type; high quality, glossy medium size pods on a compact, but upright plant; 13 cm pods are slightly darker and shorter than Bronco (13.7 cm); shorter and darker pods will result in less breakage and should provide excellent high quality produce in the bag; compact upright plant will benefit the markets that suffer with large plant growth because of planting time and/or high soil fertility. Resistance: Bean common mosaic virus (I gene). Similar: Bronco, Opus, Festina. Adaptation: northeast U.S., fresh market. PVP application #20020020. 2002.


Preakness (XP 8104098)—Breeder and vendor: Seminis Vegetable Seeds—Asgrow. Parentage: open pollinated. Characteristics: large plant with long pods; medium dark pod color; reliable set under heat; pods are large sieve and are 5.4 inches long; maturity is 65 days, or 1203 heat units at Twin Falls, Idaho. Resistance: bean common mosaic virus (BCMV); intermediate to halo blight. Similar: Hialeah, Bronco. Adaptation: NAFTA, fresh market. PVP application #200200073. 2002.


Sea Biscuit (XP 15330724)—Breeder and vendor: Seminis Vegetable Seeds. Parentage: open pollinated. Characteristics: low fiber, fresh market type; 51 to 52 day maturity; dark green pods 1 cm


Spartacus (XP 08110633)—Breeder and vendor: Seminis. Parentage: open pollinated. Characteristics: processor, determinate bush type; high yielding with good pod quality and dark green color; pod length is 5.5 inches long with moderate to slow seed development; plant is upright with a medium size bush that holds the pods well off the ground. Resistance: bean common mosaic (“I” gene), intermediate to bacterial brown spot. Similar: True Blue, Summit. Adaptation: NAFTA—Northeast and Midwest processors. 2005.


Ulysses (XP 08120670)—Breeder and vendor: Seminis. Parentage: open pollinated. Characteristics: processor, determinate bush type; high yielding with good pod quality and deep green color; pod length is 5.5 inches long with moderate to slow seed development; plant is upright with a medium size bush that holds the pods well off the ground. Resistance: Bean common mosaic virus (“I” gene), intermediate to bacterial brown spot. Similar: True Blue, Summit. Adaptation: NAFTA—Northeast and Midwest processors. 2005.

Valentino (XP 15321397)—Breeder and vendor: Seminis. Parentage: open pollinated. Characteristics: medium green dark bean pods; pod length is 12–15 cm with a round cross section; the pods are straight and well positioned in the plant, not touching the soil; pod setting is well concentrated; suitable for mechanical harvest. Similar: Bronco, Festina. Adaptation: NAFTA—Northeast U.S. and Southeast U.S. 2005.


BEET


BROCCOLI

BC602—Breeder and vendor: Daenhfeldt. Characteristics: slightly earlier than BC600; excellent quality in a high-domed head; well suited for crown cuts; tight head with good color and minimal hollow core in the heat. 2005.

Concord—Breeder and vendor: Syngenta Seeds, Inc./Rogers Brand. Characteristics: newly released broccoli variety; shown good adaptation to cooler production seasons and has demonstrated excellent adaptability in trials and commercial plantings in the spring and fall harvest periods in the Salinas Valley; has also performed well in the desert Southwest. 2005.

D emoledor (254302)—Breeder and vendor: Seminis. Parentage: F1 hybrid. Characteristics: hybrid broccoli for cool season segment; plant type is open, erect, so easy to work and harvest; good uniformity; leaves narrow at the petals so the product is easy to clean at harvest; heads are deep, domed, and firm; can be used for both fresh market and processing. Similar: Marathon, Monaco. Adaptation: NAFTA—Mexico. 2005.


FM 198 (FMX 198)—Breeder and vendor: Ferry Morse. Parentage: F1 hybrid. Characteristics: early maturing, widely adapted, performs best in the spring and fall with tolerance to both heat and cold; beans are small to medium size, tight and uniform; head shape is domed to slightly flat; good head weight. Adaptation: U.S. 2002.


Gypsy—Breeder and vendor: Stokes Seeds, Inc. Characteristics: smooth domed heads; good holding ability in warm weather; has medium-sized beads on 6-inch heads; plants are uniform; can be used for singles, bunching, or crown cuts. Resistance: tolerant to downy mildew. 2005.


Rookie (BC600)—Breeder and vendor: Daenhfeldt. Characteristics: main season broccoli; high-domed head perfect for crown cuts; tolerant to heat; does not hollow in mid-summer; excellent quality, high dome, no hollow core. 2005.

Taloc (PS 261295)—Breeder and vendor: Seminis Vegetable Seeds. Parentage: F1 hybrid. Characteristics: Taloc is the God of Rain in Mexican culture; warm season type; heavy head; fine bead; thick petiole for heavy florets; strong, medium plant frame with no side shoots and very thick stem. Similar: Patriot, Patron. Adaptation: NAFTA, Mexico. 2004.


Warrior (SSC 14181)—Breeder and vendor: Shamrock Seeds. Parentage: F1 hybrid. Characteristics: for production through winter and spring, but also for year round production in regions with cool summers; produces tall, blue-green plants with an upright structure; makes large heads (6-inch diameter) with a relatively smooth, domed

CABBAGE

**Constellation (RS 05843307)**—Breeder and vendor: Seminis. Parentage: F1 hybrid. Characteristics: late (118 days after transplanting) maturity, storage cabbage; large frame, dense head, good wrapper leaf protection; rounder head than many other storage cultivars, which is an advantage for packing and marketing; head color is blue-green; holds up well to decay in storage, requiring a minimal amount of trimming and retains its blue-green color well in storage. Similar: Amtrak, Bingo. Adaptation: NAFTA—Northeast and Canada. 2005.


**Ruby King**—Breeder and vendor: American Takii. Characteristics: early maturing red cabbage with excellent uniformity, high yield potential, and good field holding capability; heads are solid and round-shaped with bright purplish-red color; vigorous grower with excellent wrapped leaves. 2002.


**Spring Dynasty (XP 5210087)**—Breeder and vendor: Seminis Vegetable Seeds–Asgrow. Parentage: F1 hybrid. Characteristics: hybrid with excellent yield potential; ability to make size consistently; holds well with good interior quality; early to mid-season maturity; performs well in Midwest and California; possible use for fresh processing industry. Resistance: Fusarium yellows (race 1) intermediate to black rot. Similar: Little Goblin. Adaptation: NAFTA. 2003.

CABBAGE–CHINESE


**CARROT**


**Copperhead (SCR 9840)**—Breeder and vendor: Sakata Seed America, Inc. Characteristics: variety for any cut and peel growing area; offers good yields of medium tall (10 and 11 inches long); slightly tapered roots with a semi-blunt tip; vigorous tops; great root length and color. 2005.

**Cosmic Purple**—Breeder and vendor: Johnny’s Selected Seeds. Characteristics: eye-catching, 6 to 7 inch deep, purple-skinned carrot with a sweet and spicy flavor; interior color ranges from solid orange to orange with a yellow core; matures in 70 days. 2005.

**Dyna Bites (HMX 8913)**—Breeder and vendor: Harris Moran. Characteristics: new Imperator carrot for Cut & Peel and Slicer markets; mid-season, medium dark orange carrot with excellent flavor and texture quality; 10–12 inch tube-shaped carrot features uniform interiors (coreless); wide adaptability to many products. 2004.


**Idaho**—Breeder and vendor: Bejo Seeds. Parentage: hybrid. Characteristics: heavy-shouldered Emperor with a slight taper; very sweet; great flavor; suited for cellopak, jumbos, juice or slicing; mid-season carrot with strong foliage attachment. 1998.

**Invicta (PS 715004)**—Breeder and vendor: Seminis Vegetable Seeds. Parentage: F1 hybrid. Characteristics: hybrid fresh market Kuroda type with Nantes shape; length is 15–17 cm with 2-cm diameter at the crown; slight taper to a 1.5-cm blunt root tip; color is dark orange with uniform color from exterior to interior; medium size core with slight whitish halo around circumference of the core; exterior surface is very smooth; texture is lightly sweet and crisp; excellent eating quality; high uniformity and quality as compared to standard open pollinated cultivars; slower bolting (moderate bolting tolerance) than standard open pollinated cultivars; strong, but medium sized top. Similar: Concerto, Nantes. Adaptation: NAFTA—Mexico. 2004.


**Magnum (HMX 1336)**—Breeder: Clause Seed Co. Vendor: Harris Moran. Parentage: F1 hybrid. Characteristics: processing type to be used for slicing; uniform in shape; interior color is acceptable in the market with a very good blunt tip, good length and good yield. Resistance: moderate to Alternaria. Adaptation: jumbo fresh market and storage areas of Canada, and fresh market of Mexico (also Mid West and Texas). 2002.

**Maverick**—Breeder and vendor: Nunhems. Characteristics: early-maturing; produces good yields of uniform roots that are smooth, have excellent interior color, and good taste. Resistance: excellent tolerance to foliar diseases such as Alternaria. 2005.

**Natasha (XP 8415)**—Breeder and vendor: Seminis Vegetable Seeds–Asgrow. Parentage: open pollinated. Characteristics: Nantes root type, excellent tops with good internal and external color, slightly pointed shape, good tolerance to bolting, root length 15–18 cm,
CAULIFLOWER


CA712—Breeder and vendor: Daenhfeldt. Characteristics: combines brilliant white colored curds with a high tight dome shape; has an excellent wrapper and firm curd; well-suited for processing; can be used in both spring/summer crops at 65 to 75 days and fall crops at 80 to 90 days; offers earliness and quality. 2005.

Casper RZ—Breeder and vendor: Rijk Zwaan. Characteristics: heat tolerant; very dense white and smooth head, performs especially well under warm and dry conditions. 2002.


Graffiti—Breeder and vendor: Daenhfeldt. Characteristics: unlike any other cauliflower on the market; unique purple head, gets its iridescent color from anthocyanin, one of the leading antioxidants in the battle against cancer; combination of color and nutritional values offer a product that is truly different, this medium-early cultivar features a large frame with good curd protection; suitable for fresh market and processing. Resistance: tolerance to downy mildew. Adaptation: suitable for a broad range of climatic conditions. 2005.


CELERY


Triple Eight (PS 06510888)—Breeder and vendor: Seminis Vegetable Seeds. Parentage: open pollinated. Characteristics: Tall Utah type; medium green color with slightly wider petioles; uniform height; tight shingling of inner stalks and cover; planted in spring and summer in Santa Maria and Salinas Valley, California; winter transplants in Ventura County, California. Similar: Sonora, Conquistador. Adaptation: Salinas Valley, Santa Maria and Ventura County, California. 2004.

COLLARD


CUCUMBER

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22-32 RZ—Breeder: Rijk Zwaan. Parentage: F1 hybrid. Characteristics: 16–18 cm fruit length; dark green fruit color; slightly ribbed; strong vigor; broad growing spectrum; self-pruning laterals;
powdery mildew resistant and highly tolerant to CMV, CVYV, ZYMV and Papaya ring spot virus; good shelf life. Adaptation: U.S. 2002.


Alibi—Breeder and vendor: Johnny’s Selected Seeds. Characteristics: fresh flavor; good brining characteristics; suitable for picking or fresh eating; dark-green, uniform fruit; grows on vines that are somewhat shorter than typical vines; predominantly female flowering plant with high yield potential. 2005.


Cadiz RZ—Vendor: Rijk Zwaan. Parentage: F1 hybrid. Characteristics: 32–38 cm fruit length; medium green fruit color; strong vigor; powdery mildew resistant; good regrowth; open plant habit; strong fruit set; strong against skin cracking; rounded base fruit. Adaptation: U.S. 2003.


Eclipse—Vendor: Harris Moran. Characteristics: blocky to slight tapered fruit shape; 2.9–3.1 LD ratio; mid maturity; medium to dark green fruit color; resistant to SCAB, ALS, ANTH; fruit sets well for machine harvest. Adaptation: U.S. 2005.


Gianco RZ—Vendor: Rijk Zwaan. Parentage: F1 hybrid. Characteristics: 17–19 cm fruit length; dark green fruit color; medium vigor; slightly ribbed; strong in stress conditions such as heat; highly tolerant to CMV, CVYV, and ZYMV; good shelf life. Adaptation: U.S. 2003.

Harmonie RZ—Vendor: Rijk Zwaan. Parentage: F1 hybrid. Characteristics: very early; high yield; vigorous; firm straight fruits; small diameter; medium green; resistant to powdery mildew; tolerant to CMV; resistant to scab. Adaptation: U.S. 2003.

HMX 8461—Vendor: Harris Moran. Characteristics: mid maturity; medium green fruit color; white spine; 2.9–3.1 LD ratio; medium fruit set concentration; resistant to SCAB; very blocky fruit; highly rated in brinestock tests. Adaptation: U.S. 2002.

HMX 9466—Vendor: Harris Moran. Characteristics: mid maturity; medium green fruit color; white spine; 2.8–3.0 LD ratio; resistant


**Ivory Queen**—Breeder and vendor: Burpee. Characteristics: fruit have white skin. 2005.


**Opera RZ**—Vendor: Rijk Zwaan. Parentage: F1 hybrid. Characteristics: straight fruits; small, firm, spiny, dark green fruit; medium early and very productive; L/D ratio is 2.9:1; tolerant to powdery mildew and CMV; resistant to scab. Adaptation: U.S. 2003.


EGGPLANT


ENDIVE

Damsel (SSC 26018)—Breeder and vendor: Shamrock Seed Co. Parentage: open pollinated. Characteristics: Tres Fine Maraichere or Frisee type; common component in baby leaf salads; produces a medium-large, spreading plant with thick, finely serrated leaves; the plant frame is medium green and has a dense, blanched heart; maturity is 60–65 days during summer in coastal regions and 110 days during winter in desert regions. Resistance: none claimed. Similar: Tres Fine Maraichere. Adaptation: U.S. salad production regions. 2003.

HERBS–PARSLEY


Pinocchio—Breeder and vendor: Daehnfeldt/SeedWorks. Characteristics: for commercial herb growers; has a plain, broad leaf that is larger than most parsley; medium-early, very vigorous plant which produces excellent yield. 2001.

LEEK


LETTUCE

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Artillery (SSC 30421)—Breeder and vendor: Shamrock Seed Co. Parentage: open pollinated. Characteristics: light green colored Salad Bowl type; smooth textured and highly undulated leaves;


Bandit (SSC 1611)—Breeder and vendor: Shamrock Seed Co., Inc. Parentage: OP. Characteristics: a very uniform and highly disease tolerant romaine; it produces heavy plants with a thick, moderately blistered leaf texture; trimmed plants are 12–13 inches tall and have an upright structure with a compact base and straight ribs; develops a darker green color than standard PICs; tends to cup-in at maturity and makes nice, dense hearts; its heavy weight, combined with an excellent shape and disease tolerance to Lettuce Dieback, Cork Root and Downy Mildew (pathotypes I–VI) make Bandit the ideal choice for problem fields. Similar: N/A. Resistance: Downy Mildew I–VI, Lettuce Dieback, Cork Root. Adaptation: All lettuce production regions. 2005.


Beretta (SSC 1121)—Breeder and vendor: Shamrock Seed Co. Parentage: open pollinated. Characteristics: romaine type with consistent performance over a wide range of growing conditions in coastal California and the desert southwest; produces large, dark green plants with an upright structure; leaves have faint blistering, smooth margins and no tendency to cup; plants are 12.5–13 inches tall and weigh 1.75 lb; highly tolerant to tipburn; ideal for prepared salads, carton pack and whole leaf products. Adaptation: U.S. lettuce production regions. PVP. 2003.

Bermuda (SSC 1309)—Breeder and vendor: Shamrock Seed Co. Parentage: open pollinated. Characteristics: uniform and widely adapted green leaf type; consistent production of heavy plants with highly frilled, medium-dark green leaves; its supple ribs minimize harvest and packing damage thereby providing better overall quality; good bolting and tipburn tolerance (not suited for slots with high temperature extremes). Similar: a standard green leaf lettuce. Adaptation: all production regions. 2005.


Big Star—Breeder and vendor: Central Valley Seeds, Inc. Parentage: open pollinated. Characteristics: a green leaf variety with a medium to large frame and a impressive butt and midrib appearance at harvest time; it is very pliable at harvest while exhibiting non-heading abilities with extremely dark green plant color; its strong holding abilities past harvest stage will improve its leaf count while maintaining product quality and weight. Resistance: possesses a strong bolting and tip-burn resistance under extremely warm temperatures with long day lengths. Adaptation: all U.S. lettuce production regions. PVP #200,200,013 (issued 12/12/2005). 2001.


Concept (BOS 9052)—Breeder and vendor: Orsetti Seed Co. Parentage: open pollinated. Characteristics: mildly savoyed, Romaine-like green leaf type; heavy butterhead texture; dark color; excellent pliability; supple leaves resist cracking and bruising; leaves are approximately the same dimension through the head; suited for whole leaf market as well as fresh market. Adaptation: U.S. 2001.


Cornerstone—Breeder and vendor: Shamrock Seed Co. Parentage: open pollinated. Characteristics: produces a uniform crop of large, medium green iceberg heads protected by a large plant frame; its heads have a smooth, round shape and very crisp leaf texture; large smooth butt. Resistance: downy mildew (CA pathotype I–VI) and corky root. Adaptation: early spring production.

Corporal (SSC 1856)—Breeder and vendor: Shamrock Seed Co., Inc. Parentage: OP. Characteristics: a slow growing red romaine that produces small leaves with an attractive, wine-red color that extends to the base of the leaf; the leaves have the standard romaine shape and are fairly flat but have faintly scalloped leaf margins. Resistance: Downey mildew resistance to be confirmed. Similar: unknown. Adaptation: all lettuce production areas. 2005.

Cosmopolitan (PS 654569)—Breeder and vendor: Seminis Vegetable Seeds–Petoseed. Parentage: open pollinated. Characteristics: unique; shape is similar to Romaine but with a thicker and tougher texture than crisphead lettuce with a dark green color; shape of the head is similar to a Romaine heart. Adaptation: coastal California. 2002.

Coyote (GS 6530201)—Breeder and vendor: Seminis Vegetable Seeds–Genevacorp. Parentage: open pollinated. Characteristics: Vanguard type crisphead with medium dark color, short core and large frame; non undulating leaf margin and uniformity; top leaf cover offers good protection from the cold and sun. Similar: Cibola,

Darkland Cos——Breeder and vendor: Central Valley Seeds, Inc. Parentage: open pollinated. Characteristics: this variety has excellent dark green color, heavy leaf texture; has a smooth midrib and has one of the best appearances when packed. Resistance: strong bolt tolerance; has shown tolerance to big vein and less cupping than other romaines. Adaptation: all U.S. lettuce production regions. PVP expired 5/29/2010. 1990.

Darkland Cos EL——Breeder and vendor: Central Valley Seeds, Inc. Parentage: open pollinated. Similar: similar to Darkland Cos but has some distinct advantages such as, added weight, and later cupping and slightly larger frame. This variety shows excellent shipping quality. The other difference is that Darkland Cos EL has a slightly less bolting tolerance than Darkland Cos. Adaptation: all U.S. lettuce production regions.

Dazzle——Breeder and vendor: Shamrock Seed Co., Inc. Characteristics: A red Little Gem with excellent uniformity and impressive color; it produces plants with glossy, maroon-red external leaves and an attractive yellow interior; the leaves have a soft, buttery texture and have no red speckling as other red Little GEMS. Resistance: Downy Mildew (pathotypes I–VI / BL 1–16, 19, 21, 23). Similar: Amaze, but Dazzle produces slightly larger plants. Utility Patent 7,592,510 and Plant Breeder’s Right pending. 2012.


Fireball——Breeder and vendor: Johnny’s Selected Seeds. Characteristics: more heat tolerant than Red Cross; tastes milder; stays bitter-free longer in hot weather; large, dense heads with creamy yellow centers mature in 51 days. 2005.


Fortress (SSC 1623)——Breeder and vendor: Shamrock Seed Co., Inc. Parentage: OP. Characteristics: a triple-red Lolita Rossa lettuce developed for baby leaf salads; medium to slow vigor, as expected for varieties of this type; leaves have a short, broad leaf shape and frilly margins; produces a uniform crop of wine-red colored leaves with good leaf texture. Similar: Sency and Sentinel, but with more mildew resistance. Resistance: Downy mildew (pathotypes I–VI, VIII / BL 1–24). Adaptation: All lettuce production regions. 2005.

Fortunas——Breeder and vendor: Rijk Zwaan. Characteristics: spring to autumn cultivation type; first head lettuce cultivar resistant to Nasonovia ribis-nigrri, the green lettuce aphid. 2001.


General (SSC 1878)——Breeder and vendor: Shamrock Seed Co., Inc. Parentage: OP. Characteristics: remarkably thick texture and excellent uniformity characterize this green oak leaf lettuce; at baby leaf maturity, its leaves are a bright, lime-green color and have smooth, wavy leaf margins; the leaf shape is medium-broad and multi-lobed; fairly vigorous growth. Resistance: none. Similar: unknown. Adaptation: all lettuce production regions. 2005.

Green Beret (SSC 1256)——Breeder and vendor: Shamrock Seed Co. Characteristics: very uniform and widely adapted green leaf type; consistent production of heavy plants with highly frilled, medium-dark green leaves; its supple ribs minimize harvest and packing damage thereby providing better overall quality; good bolting and tipburn tolerance (not suited for slots with high temperature extremes). Similar: Two Star. Adaptation: all U.S. lettuce production regions. 2002.


Green Vision——Breeder and vendor: Central Valley Seeds, Inc. Parentage: open pollinated. Characterized by this green leaf cultivar has excellent non-bolting, non-suckering, and non-heading qualities when compared to other varieties; has excellent dark color, weight, and texture. Adaptation: U.S. lettuce production regions. PVP #9,500,244 (issued 9/30/1999). 1995.

Greenduke (SSC 2558)——Breeder and vendor: Shamrock Seed Co. Characteristics: a vigorous Salinas type iceberg variety that produces plants with large frames and nicely shaped heads; heads have good weight and size; crisp texture and a nice medium green color; adapted to cool growing conditions. Resistance: Downy mildew (CA pathotypes I–VI / BL 1–16, 19, 21, 23). Similar: Salinas. Adaptation: All Lettuce growing regions. 2011.

Heavy Heart (PS 0651626)——Breeder and vendor: Seminis Vegetable Seeds. Parentage: open pollinated. Characteristics: summer romaine is tall yet compact in diameter; slightly dark green in color; slightly closed (producing a heart); has a slightly blistered and large leaf, very little tip burn and bolting tolerant; can be used by processor, fresh market and hearts segments; targeted for the south county in Salinas area; sow dates in Salinas and Santa Maria, California are Mar. 1 to Sept. 1. Similar: Hearts Delight, Bullet. Adaptation: NAFTA—Southwest Coastal U.S. 2004.


Kessler——Breeder and vendor: Shamrock Seed Co. Parentage: open pollinated. Characteristics: an ideal variety for romaine hearts and processing; it produces dark green plants with a very upright habit and straight ribs; its narrow base and dense, blanched center make an attractive romaine heart; the leaves have a strong texture and are moderately sayoyed; has good uniformity and weight. Resistance: corky root. Adaptation: performs best under cool growing conditions.

Kindle (SSC 3033)——Breeder and vendor: Shamrock Seed Co., Inc. Characteristics: An attractive Little Gem with very good mildew tolerance; it produces glossy, lime-green plants that feel heavy for their size; the hearts are dense and have a bright yellow color; leaves with smooth margins, very good texture and a pleasant flavor. Resistance: Downy mildew (CA pathotypes I–VI, VIII / BL 1–25, 28). Adaptation: All Lettuce growing regions. 2012.

Laguna Fresca——Breeder and vendor: Central Valley Seeds, Inc. Parentage: open pollinated. Characteristics: this iceberg variety has a strong texture, long cap leaf coverage, and a sayoyed leaf surface; possesses sure-heading abilities. Resistance: corky-root resistance and a very strong tolerance to tip-burn; an exceeding high tolerance.

Luxury (SSC 3011)—Breeder and vendor: Shamrock Seed Co., Inc. Characteristics: A new red Little Gem that produces larger, darker red plants with stronger mildew resistance compared to Amaze and Dazzle; nice looking, 20 cm tall plants with an average weight of 175 g; has blistered leaves with a soft texture and good flavor; the heart is yellow-green with a tinge of red in the center. Resistance: Downy mildew (CA pathotypes I–VI / BL 1–25, 28). Adaptation: All Lettuce growing regions. 2012.


Marshall (SSC 1532)—Breeder and vendor: Shamrock Seed Co., Inc. Parentage: OP. Characteristics: a fast growing romaine that produces wine-red to slightly maroon colored leaves; baby leaves have a standard romaine shape (broad club) and a smooth, medium-thick texture; its undulating leaf margins are smooth at the top and slightly scalloped along the tapering sides. Resistance: Downy mildew (pathotypes I–VI). Similar: Red Cos. Adaptation: All lettuce production regions. 2005.


Parthenon (SSC 1315)—Breeder and vendor: Shamrock Seed Co. Parentage: open pollinated. Characteristics: very uniform and sure heading cultivar similar in production to Winterhaven; plant frame is large and offers good frost protection; produces large, heavy heads with a slightly savoyed leaf texture; hearts have a nice, smooth shape and good color. Resistance: big vein. Similar: Colossus. Adaptation: desert Southwest (USA) and winter production. 2004.


PIC 714—Breeder and vendor: Johnny’s Selected Seeds. Characteristics: uniformity; improved tolerance to tip burn; heavy heads average 11 to 12 inches tall with good taste; days to maturity are 28 days for baby, 57 days full size. Resistance: some tolerance to corky root. 2005.


Red Fox—Breeder and vendor: Central Valley Seeds, Inc. Parentage: open pollinated. Characteristics: this red leaf variety shows excellent color; it is non-heading with frilly leaf margin, and has a high leaf count; has superb shipping qualities due to its texture and one of best box appearance; weight is comparable or better than most reds in market place. Resistance: excellent bolt tolerance; has extremely high resistance to internal tip-burn for early desert regions. Adaptation: all U.S. lettuce production regions. PVP #9,700,357 (issued 6/14/2001). 1997.

Red Rage M.T.—Breeder and vendor: Pybas Vegetable Seeds. Characteristics: attractive, dark red and uniform loose leaf variety; suitable for baby leaf or fresh market production; completely green midribs provide a beautiful contrast to the dark red leaf surface. 1998. Rome 59 (HMX 4559)—Breeder and vendor: Harris Moran Seed Co. Characteristics: new Romaine; yields a highly uniform, 1.75-lb head with excellent core length; high yield potential; adaptable to a wide range of growing areas; relative maturity: mid. 2005.


Rhino (PS 06510524)—Breeder and vendor: Seminis. Parentage: open pollinated. Characteristics: Iceberg for desert (Southwest U.S.) plantings, medium green, large frame, short core length, good head wrap for protection from sun and cold, non undulating leaf margin and very uniform; has the potential to form a large heavy head; sowing dates Nov. 25 to Dec. 15; harvest Mar. 10 to Mar. 31. Similar: Green Lightening, Desert Spring. Adaptation: NAFTA—Southwest United States. 2005.


Sentinel (SSC 1402)—Breeder and vendor: Shamrock Seed Co. Parentage: open pollinated. Characteristics: triple-red Lollo Rossa type developed for baby leaf salads; medium to slow vigor, as expected for this type; leaves have a short, broad leaf shape and frilly margins; produces a uniform crop of wine-red colored leaves with good leaf texture. Resistance: DMR I–VI (Bremia BL 1–16, 19, 21, 23). Similar: Sentry. Adaptation: all lettuce production regions. 2005.


**Spanish Bay**—Breeder and vendor: Genecorp. Characteristics: iceberg lettuce variety; medium green color; excellent texture; it is a sure header with a large frame. Resistance: resistant to corky root. 1998.

**Spartacus**—Breeder and vendor: Shamrock Seed Co. Parentage: open pollinated. Characteristics: an iceberg variety with very uniform head formation; it produces heavy heads with good size; the heads have a smooth, round shape, clean butts and a short core; it makes an ample plant frame that ensures head protection. Resistance: the heads sit off the bed resulting in a lower incidence of bottom rot; tipburn and bolting tolerance. Utility Patent #7,960,617 (issued 6/14/2011). 2008.

**Sparx**—Breeder and vendor: Shamrock Seed Co. Parentage: open pollinated. Characteristics: produces large, heavy romaine plants that cup and blanch early. Resistance: extremely burn resistant for fog/inversion burn and internal tipburn in the difficult summer slot in these Coastal areas (even behind Strawberries); downy mildew (CA pathotype 1–VI), and corky root. Similar: Stryker. Adaptation: ideal for production in the mid-season slot and is specifically targeted to the Coastal production areas of Blanco, Castroville and Watsonville. 2005.


**Stryker**—Breeder and vendor: Shamrock Seed Co. Parentage: open pollinated. Characteristics: a solid-ribbed, heavy romaine lettuce that is suitable for processing, hearts and cartons; produces large plants that cup and blanch early allowing for harvest flexibility. Resistance: has remarkable tolerance to fog/inversion burn as well as internal tipburn; downy mildew (CA pathotype 1–VI); corky root. Similar: Sparx. Adaptation: ideal for production in the early and mid-season slots throughout the Salinas Valley.

**Sunbelt**—Breeder and vendor: Central Valley Seeds, Inc. Parentage: open pollinated. Characteristics: a warm weather romaine; exhibits large leaves with a 12- to 14-inch plant height; it is extremely non-cupping at harvest time; has an extremely smooth midrib and wide leaf petiole with a straight tapered butt shape, which makes for an impressive pack at harvest time; has excellent hold-ability at past optimum maturity, which would help processor salad trade. Resistance: Along with its strong bolting resistance and high tolerance to tip burn, it’s tolerant to fringe burn during warm windy days in the Salinas Valley. Adaptation: all U.S. lettuce production regions. U.S. Patent #6,841,723 (issued 1/11/2005). 2003.


**Thermo Cos**—Breeder and vendor: Central Valley Seeds, Inc. Parentage: open pollinated. Characteristics: a romaine with medium frame size; with medium plant height; the leaf texture is extremely thick with dark green color, with open growing habit. Similar: Thermo Cos is a sister line of Green Forest; it maintains the same strong attributes as other sister lines; the advantage of Thermo Cos is its high bolting and strong tip-burn tolerances over most commercial lines. Adaptation: all U.S. lettuce production regions, it is especially adaptable to higher temperature growing areas in the Monterey and San Benito Counties. U.S. Patent #6,649,816 (issued 1/18/2003). PVP #200,100,135 (issued 2/14/2006). 2001.


**Top PIC** (SSC 1603)—Breeder and vendor: Shamrock Seed Co., Inc. Parentage: OP. Characteristics: a romaine lettuce of the Parris Island Cos type; produces medium tall (11–13 inches) plants with an open habit and a medium base; its leaves are medium green and have a slightly blistered texture and smooth margins; mature pieces attain good weight due to high leaf density; relative maturity is 80–100 days in early spring and 60–65 days in summer; adapted to regions with mild spring and summer weather (not recommended for production in hot climates). Similar: Parris Island Cos, Resistance: None. Adaptation: All lettuce production regions. 2005.


**Trophy**—Breeder and vendor: Shamrock Seed Co. Parentage: open pollinated. Characteristics: a vigorous iceberg variety that produces large plants with good head cover; its large heads have good weight, good texture and a fresh green color; it will yield shapely heads with short cores when grown in the proper slot. Resistance: downy mildew (CA pathotype I–VIII) and corky root. Similar: Champion.


**Winter Select** (PS 06510783)—Breeder and vendor: Seminis Vegetable Seeds. Parentage: open pollinated. Characteristics: large frame, medium green iceberg type that is sure heading; smooth ribs and very vigorous habit, good weight and very finished bottom;

Yuri (RX 06511530)—Breeder and vendor: Seminis Vegetable Seeds—Royal Sluis. Parentage: inbred. Characteristics: Iceberg lettuce suitable for moderate to high temperature and humidity; Vanguard type, large frame, medium green color, round shape, with good bolting tolerance; recommended sowing period in Brazil is 1 Mar. though 25 June; sowing period in the Caribbean is September through November; performed very well in elevations between 600 and 1500 m. Similar: Legacy. Adaptation: Brazil. 2003.

**MELO**

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**ACampeone**—Breeder and vendor: Abbott & Cobb Inc. Characteristics: this main-season cantaloupe with round-to-short oval fruit and a small seed cavity is well-suited to shipping; this variety compliments ACamplad for a Western shipper package. Resistance: powdery mildew 1 and applied sulfur. 2005.

**ACimarron**—Breeder and vendor: Abbott & Cobb. Characteristics: Western shipper cantaloupe; high-quality, tight-cavity fruit matures in 81 days; the plants are medium sized; excellent disease resistance to Fusarium 1 and 2 and powdery mildew 1. 2001.

**ACampadre**—Breeder and vendor: Abbott & Cobb Inc. Characteristics: a “home run” for the second early class; this Western shipper variety offers a high-quality fruit with a small, slightly open cavity; shipping is easy with the round-to-short oval fruit. Resistance: Fusarium wilt race 0 and 1, powdery mildew 1. 2005.


**Carmen (SSC 115)**—Breeder and vendor: Shamrock Seed Co. Parentage: F1 hybrid. Characteristics: honeydew type; highly prolific, late season maturity; strong vines have a large canopy that provides excellent fruit cover; concentrated fruit set; sets well under a variety of field conditions; sizes mainly 4s and 5s with some 6s; sulfur tolerant; relative maturity is 90–95 days. Resistance: powdery mildew (race 2); Fusarium (races 0, 2). Adaptation: all melon production regions. 2005.

**Caroline (SSC 110)**—Breeder: and vendor: Shamrock Seed Co. Parentage: F1 hybrid. Characteristics: honeydew type; very prolific, early season honeydew melon; uniform production of smooth, round fruit in the 4, 5 and 6 size range; firm fruit with a small blossom scar and small to medium seed cavity; light green flesh with high sugars. Resistance: powdery mildew (race 2), Fusarium (race 0 and 2). Similar: Morning Ice. Adaptation: all melon growing regions. 2003.

**Cassandra (SSC 118)**—Breeder and vendor: Shamrock Seed. Parentage: F1 hybrid. Characteristics: hybrid honeydew melon with strong vines and good fruit set; produces smooth, oval-round fruit with a small to medium seed cavity; fruit sizes are 4s, 5s and 6s; sweet, pale green flesh; relative maturity is 85–90 days. Resistance: tolerant to Fusarium wilt (races 0, 2). Adaptation: U.S. melon producing areas. 2004.

**Cobra**—Breeder and vendor: D. Palmer Seed. Characteristics: cantaloupe that features strong vine growth with full, dark green leaves; maturity is approximately 110 to 120 days; fruit is oval/round and strongly netted; flesh color is dark to medium orange; flavor is rated very sweet. 1998.

**Destacado (PS 03902039)**—Breeder and vendor: Seminis Vegetable Seeds. Parentage: F1 hybrid. Characteristics: main season honeydew type with very strong and vigorous plant and excellent fruit set; fruit are round in shape, large in size (2–2.5 kg), with good internal quality, medium to small seed cavity, firm flesh; high yield; develops an external color change from cream to light yellow at maturity. Similar: Sundew, Twilight. Adaptation: NAFTA—Mexico, Chile, Argentina. 2004.

**Estem (RML 7923)**—Breeder and vendor: Syngenta, Rogers Brand. Characteristics: exceptionally strong plant that produces large fruit with a raised ropey net with excellent net density; later in maturity than Sol Real with a larger fruit size and a less concentrated harvest. 2001.

**Florentino (191915)**—Breeder and vendor: Seminis. Parentage: F1 hybrid. Characteristics: non-sutured; long shelf life; main season Italian type; round shape; full netted; orange flesh; small seed cavity; fruit weight from 800 to 1600 g, grey-green mature rind, medium plant vigor. Resistance: Powdery Mildew race 1, Fusarium wilt race 2 (SA), Fusarium wilt race 0–1, races 2 (US). Similar: Harper. Adaptation: Central America. 2005.

**Gold 264 (PS 03792264)**—Breeder and vendor: Seminis Vegetable Seeds—Petoseed. Parentage: F1 hybrid. Characteristics: strong, very vigorous and dark green plant with high and concentrated fruit setting; plant stays green even when fruits are becoming mature; very early maturity, uniform oval/round shape, bright yellow color and slightly rough skin; fruit size varies between 1.24 to 1.45 kg. Similar: AF 646, Rochedo, Gold Pride, Gold Mine. Adaptation: Brazil. 2003.

**Gold Coast**—Breeder and vendor: Sakata Seed America, Inc. Characteristics: medium-large Western shipper cantaloupe; averages 9s, 12s, and 15s with mid maturity; round-oval shape; ropey net; small cavity; dark-orange flesh. Adaptation: trialed well in the Imperial Valley, Central Arizona, and the San Joaquin Valley. 2005.

**Gold Express**—Breeder and vendor: Syngenta Seeds, Inc./Rogers Brand. Characteristics: a Western shipper for true main season conditions typically with medium-to-large fruit size and an excellent dense net for a superior appearance; designed for prolonged harvest conditions; excellent internal quality featuring a tight seed cavity and dark, firm flesh. 2005.

**Haley (SSC 114)**—Breeder and vendor: Shamrock Seed Co. Parentage: F1 hybrid. Characteristics: honeydew type; broad adaptation; strong vines produce fruit in the 4s, 5s and 6s size range; fruit has smooth rind, rounded shape and small to medium seed cavity; compares to Samantha but 3 to 5 days earlier in maturity. Resistance: none claimed. Similar: Honeydew, Green Flesh. Adaptation: U.S. melon growing regions. 2003.


**Isabella (PS 152140)**—Breeder and vendor: Seminis Vegetable Seeds—Petoseed. Parentage: F1 hybrid. Characteristics: netted type with sutures; Charentais flavor, taste and flesh; good shelf life with good holding ability in field; fruit size is approximately 1 to 1.5 kg, depending on growing area and conditions. Resistance: Fusarium wilt, powdery mildew. Similar: none. Adaptation: NAFTA, Mexico, Central America. 2002.

**Joaquin Gold (RML 7935)**—Breeder and vendor: Syngenta, Rogers Brand. Characteristics: excellent interior quality, tight cavity, thick dark-orange flesh; internal quality similar to the ‘Sol’ series, but with later maturity and less concentrated harvest. 2001.


**Motagua**—Breeder and vendor: Syngenta Seeds, Inc./Rogers Brand. Characteristics: early maturing melon with a very attractive complete, medium-raised dense net and rich orange flesh; has a strong, healthy vine that delivers attractive medium-to-large-size
fruit with improved quality. Adaptation: has received favorable growing reports from several growing areas. 2005.


**PXC 221**—Breeder and vendor: Siegers Seed. Parentage: F1 hybrid. Characteristics: alternative hybrid Eastern shipper-type cantaloupe with better yield and consistent netting and uniformity; has minimal sutures; weighs 5 to 6 lb. Resistance: tolerant to sulfur, Fusarium races 0, 1, and 2; powdery mildew 1 and 2. 2001.


**Samantha (SSC 112)**—Breeder and vendor: Shamrock Seed Co. Parentage: F1 hybrid. Characteristics: widely adapted honeydew type; produces attractive, round fruit with crisp flesh; heavy production of 4s and 5s, with a few 6s; small to medium seed cavity and small blossom scar. Resistance: none claimed. Similar: Honeydew, Green Flesh. Adaptation: U.S. melon growing regions. 2003.

**Serenade**—Breeder and vendor: Seminis. Characteristics: single-serve specialty melon between the size of a baseball and a softball; features smooth, greenish white skin like Sweetie No. 6; thick orange flesh is rich, sweet, and aromatic; matures in 78 days. 2005.

**Snow Mass**—Breeder and vendor: Sakata Seed America, Inc. Characteristics: medium-sized honey-dew (5s, 6s, 8s); excellent fruit quality; very smooth rind, yields round to slightly oblong fruit; cavity is tight with light green, very sweet flesh (13% to 15% Brix); large leaf size; vigorous vine; excellent foliage cover to heavy fruit set. 2005.

**Sophia (SSC 116)**—Breeder and vendor: Shamrock Seed Co. Parentage: F1 hybrid. Characteristics: early maturing (80–85 days), honeydew type; uniform fruit size and shape; strong vines set high numbers of fruit (size 5 to 6) with small seed cavity; fruit has an attractive, round, smooth shape and high sugar content; good field holding capacity. Resistance: powdery mildew (race 2), Fusarium (race 0, 2), sulfur. Similar: Honeydew Green Flesh. Adaptation: U.S. melon production regions. 2003.

**OKRA**


**Amber (SSC 1174)**—Breeder: Enza Zaden. Vendor: Shamrock Seed Co., Inc. Parentage: hybrid. Characteristics: a high yielding and later maturing Short Day onion; develops a tall, strong green top and an excellent root system; produces very firm, globe-grano shaped bulbs with mild to moderately pungent flavor; bulbs are predominantly jumbo in size and exhibit a high percentage of single centers (70–80%); attractive dark, golden-brown skins with good retention and necks that cure down well; very good storage capacity for its type and maturity class. Resistance: field tolerance to Pink Root. Similar: Yellow Grano. Adaptation: Intermediate day latitudes. 2005.

**Azteca**—Breeder and vendor: Sakata Seed America, Inc. Characteristics: white supreme-type onion with a uniform flat globe; short day onion; large; hard firmness, low pungency; good storage ability; medium neck. Adaptation: Mexico, the Imperial Valley, Texas, and Arizona. 2005.

**Cabot (XP 07715676)**—Breeder and vendor: Seminis. Parentage: hybrid. Characteristics: long day onion; mid season storage onion with very good storage potential, very high bulb yield which results in high per acre pack outs; bulbs are firm, uniform with excellent skin retention for mechanical harvest. Similar: Millennium (Sunseeds); Prince (Bejo). Resistance: Fusarium basal rot. Adaptation: NAFTA—Northeast U.S. 2005.


**Champlain (XP 07715776)**—Breeder and vendor: Seminis. Parentage: hybrid. Characteristics: long day onion; storage onion, matures in 95 days; bulbs are uniform with good skin retention for mechanical harvest; storage is excellent for an early shipping onion. Similar: Norstar (Takii); Wolf (Takii). Resistance: Fusarium basal rot. Adaptation: NAFTA—Northeast U.S. 2005.


**Citation (EX 07717004)**—Breeder and vendor: Seminis. Parentage: hybrid. Characteristics: mid season, long day, Spanish storage type, good scale cover for machine harvest, bolt tolerant, single centered, adapted to overhead watering culture. Similar: Tamara, Teton. Adaptation: NAFTA—Northwest U.S. 2005.


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**ONION**

**Affirmed (XP 07715813)**—Breeder and vendor: Seminis. Parentage: hybrid. Characteristics: hybrid yellow onion with bronze skin and high single centers; this variety is a mid season Spanish long
tolerance to cold and hot temperatures, performs especially well in the heat; medium splitting type. 2005.


**Honey Bee (SSC 33076)**—Breeder and vendor: Shamrock Seed. Parentage: F1 hybrid. Characteristics: very early maturing short day onion; highly disease tolerant, dark blue-green tops; good yields of bulbs weighing 250–300 g; bulbs have a flattened-globe shape, very small necks and attractive, yellow to light brown skins; very firm bulbs with extra sweet flavor and medium storage capacity. Resistance: Botrytis Leaf Blight, Stemphylium Blight, Purple Blotch. Adaptation: U.S. short day onion production areas. 2002.

**Honeycomb (SSC 6372)**—Breeder and vendor: Shamrock Seed. Parentage: F1 hybrid. Characteristics: main season maturity; short day type; developed for fresh market; it produces attractive Granex shaped bulbs with low pungency; yields a high percentage of jumbo sized bulbs with straw colored skins; excellent disease tolerance; good bolting tolerance. Resistance: Botrytis Leaf Blight, Purple Blotch. Adaptation: U.S. short day onion production areas. 1998.

**Jucar (XP 15238)**—Breeder and vendor: Seminis Vegetable Seeds–Asgrow. Parentage: F1 hybrid. Characteristics: long day Spanish onion; mid-late maturity; Recas type; very large bulbs; high yield; dark colored scales; good for ringing; storability is better than Grano Oro. Resistance: Fusarium basal rot. Similar: Daytona. Adaptation: Chile. 2002.

**Kiyotaki**—Breeder and vendor: American Takii, Inc. Characteristics: medium-early, single-stalk; upright plant habit; bunching onion; high tolerance to cold temperatures; ideal fall-to-winter crop. 2005.

**Leona (XP 07595003)**—Breeder and vendor: Seminis Vegetable Seeds. Parentage: F1 hybrid. Characteristics: very early maturing with high bolting tolerance; large, globe shaped bulbs; thin, medium-dark bulb scales; glossy foliage; thin necks; firm bulbs that ship well; for planting in mid to late fall in latitudes between 25° and 35°; also for late short day type at lower latitudes. Resistance: pink root. Similar: Cimarron. Adaptation: NAFTA—Texas, New Mexico, northern California. 2005.


**Monarchos (XP 07715843)**—Breeder and vendor: Seminis. Parentage: hybrid. Characteristics: hybrid yellow long day onion with bronze skin and high single centers; mid-season maturity (120 days), good scale cover for mechanical harvest; bolt tolerant; high percentage of single centers; average field yield; good size grading. Similar: Ranchero, Santa Fe. Resistance: Fusarium basal rot. Adaptation: NAFTA—Northwest. 2005.

**Mr. Buck**—Breeder and vendor: D. Palmer Seed, Co., Inc. Characteristics: sweet Vidalia type; this hybrid onion has a deep, flat shape with wide rings; matures in late mid-season and produces a high percentage of jumbo sizes. 2002.

**Nebula**—Breeder and vendor: Stokes Seeds, Inc. Characteristics: large uniform dark-brown, globe-shape bulb that provides exceptional high quality pack; medium-long; this variety has 6- to 8-month storage possibilities and is well suited for mechanical harvesting; plants have outstanding vigor and strong root system. Resistance: tolerant to Fusarium and pink rot. 2005.


**Pathfinder**—Breeder and vendor: Rio Colorado Seeds. Characteristics: long-day onion; great storage characteristics; shiny copper skin is firm and attractive; high yielding and widely adapted. Resistance: excellent tolerance to bolting and pink root. 1998.

**Perez (XP 07905013)**—Breeder and vendor: Seminis. Parentage: F1 hybrid. Characteristics: golden brown export type, mid-day storage type with very good storability (5 months); shape is round, tops are vigorous, uniformity is excellent. Resistance: Fusarium basal rot. Similar: Kiwi Gold. Adaptation: NAFTA—Northeast and Northwest U.S. 2005.

**Predator**—Breeder and vendor: Rio Colorado. Characteristics: features adaptability, an attractive appearance, and high yield potential that have made it popular in all major growing areas; has blue green foliage and large to jumbo sized bulbs. 1998.

**Redwing**—Breeder and vendor: Bejo Seeds. Characteristics: dark red long-day storage onion with thick skin; very hard onion; has good color throughout and produces large globes up to 3 1/2 inches. 1998.


**Sevillana (129013)**—Breeder and vendor: Seminis Vegetable Seeds–Petoseed. Parentage: F1 hybrid. Characteristics: mid season long day type with high plant vigor; gives larger sizes under low plant density and mid sizes (very uniform) under high plant density; skin is good dark color; storability good. Similar: Daytona. Adaptation: South America. 2003.

**SM 107**—Breeder and vendor: Samen Mauser America. Parentage: hybrid. Characteristics: Granex hybrid; very early maturing; slow bolting and uniform medium to large onion has flattened globes with refined necks; diameter measures 3 1/2 to 4 inches. Resistance: tolerance to pink root and Botrytis. 1998.


**Tara**—Breeder and vendor: Rio Colorado. Characteristics: intermediate onion; has been adapted to withstand the stresses of heat and dry conditions; yields mostly jumbo to colossal sized onions. Resistance: bulbs have excellent pink root resistance. 1998.


PEA–GREEN

Ashton (XP 08500566)—Breeder and vendor: Seminis Vegetable Seeds–Asgrow. Parentage: open pollinated. Characteristics: full season Dark Large Wrinkled (DLW) type; normal foliage; good determinate plant type combined with good reliability and quality of the frozen product; first flowering node: 14; sieve size distribution at 105 tenderometer of the whole sample: 10% < 8.2 mm, 10% 8.2–8.75 mm, 25% 8.75–9.2 mm, 35% 9.2–10.3 mm, 20% > 10.3 mm. Resistance: bean yellow mosaic virus, powdery mildew, Fusarium wilt (race 1), downy mildew. Similar: Bolero, Durango. Adaptation: NAFTA. PVP application #200300003. 2003.


Icebreaker (XP 8504158)—Vendor: Seminis Vegetable Seeds–Asgrow. Parentage: open pollinated. Characteristics: early maturing (heat units: 624°C, 1155°F); first flowering node is 9 to 10; same maturity as Cabbee; leafless (afla) type; low starch content (AIS); 1 to 2 pods per node; pods have blunt tip and 7 to 8 berries; sieve size 2.9 (8.65 mm) at 100 tenderometer; vine is 40 cm long. Resistance: Fusarium wilt race 1. Similar: Cabbee, Spring. Adaptation: NAFTA, processor. PVP application #200201096. 2002.


PEPPER

Aci Sivri—Vendor: Seeds of Change. Characteristics: open-pollinated, old Turkish cultivar, can be mild to very hot; very productive, producing up to fifty 127- 78 × 19 mm fruits, matures in 90 days. Adaptation: wide.

Admiral—Vendor: Roger’s Brand. Characteristics: F1 hybrid bell pepper, green maturing to yellow, mostly 4-lobed, blocky, extra large, medium tall, vigorous plants providing excellent cover. Resistance: Tobacco Mosaic Virus, Potato Virus Y, Bacterial Leaf Spot races 1 and 2, tolerance to Stip. Adaptation: All production areas.

Affinity (RFT 8532)—Breeder and vendor: Syngenta Seeds, Inc/ Rogers Brand. Characteristics: medium-dark-green, glossy, blocky bell pepper that has produced four-lobed fruit with thick walls; trialed in the Central Valley of California, this variety demonstrates outstanding fruit quality while producing high yields of extra-large and large fruit. 2005.Alliance (HMX 2643)—Breeder and vendor: Harris Moran. Parentage: F1 hybrid. Characteristics: sweet pepper; extra large fruit are block with green to red color. Resistance: cucumber mosaic virus; pepper mottle virus; potato virus Y races 0, 1, 1–2; Xanthomonas vesicatoria races 1, 2, 3, 4, 5; Phytophthora capsici. Adaptation: U.S. 2003.

Amos (IA-1589)—Vendor: Hazera Quality Seed. Characteristics: F1 hybrid bell pepper, green maturing to red, 90 × 80 mm, medium fruit walls, 4 lobes in fruit, pendant, medium earliness. Best for greenhouse and net production. Resistance: Tobacco Mosaic Virus pathotype 0, Potato Virus Y.

Ancho Allende (SSC 1326)—Breeder: Magnum Seeds. Vendor: Shamrock Seed Co. Parentage: F1 hybrid. Characteristics: medium to tall, vigorous bush; concentrated set of very uniform fruit; fruit has excellent size, shape and dark color; average fruit size is 2 × 6 inches; shallow shoulders; good level of pungency for this type of pepper. Similar: Caballero, Ancho Real. Adaptation: all pepper production areas. 2005.


Andy—Vendor: Johnny’s Selected Seeds. Characteristics: F1 hybrid New Mexican type, 60 days to green, 85 days red ripe, 20 × 190 mm fruit size, a strong erect plant frame holds fruit up well so they grow long and straight. Resistance: Tobacco Mosaic Virus.

Antillais Caribbean—Vendor: Technisem. Characteristics: Open-pollinated scotch bonnet type, light green maturing to light red, 55 × 45 mm fruit size, globular lantern shape, very pungent, open plant habit, 800 mm tall.

Antonio (FAR-3)—Vendor: Hazera Quality Seed. Characteristics: F1 hybrid Lamuyo type bell pepper, green maturing to red, 160 × 80 mm, large elongated fruit, thick fruit walls, 3-lobed, pendant, spreading plant habit. Adaptation: Greenhouse and tunnel production.

Aquiles (PS 11410851)—Breeder and vendor: Seminis Vegetable Seeds. Parentage: F1 hybrid. Characteristics: jalapeno type; strong plant; continuous fruit setting ability; very large fruit are uniform in size; fruit are dark green, smooth and have a thick wall; fruit are 109 × 39 mm size and have hot pungency. Similar: Conchos, El Rey. Adaptation: NAFTA—Mexico, fresh market, 2005.
Arika—Vendor: Technisem. Characteristics: F1 hybrid Lamuyo bell pepper type, dark green maturing to vivid red, 80 × 130 mm fruit size, 4-lobes, semi-concentrated fruit set, pendant fruits, plant is 900 mm tall. Resistance: Potato Virus Y, Tobacco Mosaic Virus.

Aurora—Vendor: Seed Saver’s Exchange. Characteristics: Open-pollinated ornamental, tapered fruit, 38 mm long fruit, upright, ripens from lavender to deep purple to orange and finally to red, medium pungency, 250–305 mm tall, purple and green foliage.

Autlan (SSC 1459)—Breeder and vendor: Shanrock Seed Co. Characteristics: very hot, early maturing Jalapeno type with concentrated set; medium-tall plants with broad, dark green leaves that provide good cover; short internodes to ensure excellent fruit set; produces and maintains large (3 to 3.75 inches × 1 to 1.25 inches) fruit through several harvests; dark green fruit with thick walls and a large center with 3 to 4 locules; no anthocyanin and low incidence of checking at maturity; relative maturity 75 to 85 days from transplant. Similar: Jalapeno M. Adaptation: all pepper growing regions. 2004.


Beefsteak—Vendor: Burpee. Characteristics: F1 hybrid, tomato/cheese type pepper, 83 days to maturity, sweet pepper when picked red, very prolific.

Beitar (HA-817)—Vendor: Hazera Quality Seed. Characteristics: F1 hybrid Lamuyo bell pepper type, green maturing to red, 140 × 80 mm fruit size, large elongated fruit, medium thick fruit walls, 3-lobed, pendant, medium spreading plant habit. Resistance: Potato Virus Y, Tobacco Mosaic Virus pathotype 0. Adaptation: Open field production.

Bengal (HA-905)—Vendor: Hazera Quality Seed. Characteristics: F1 hybrid Marconi type, green maturing to red, 170 × 80 mm fruit size, thin fruit walls, 2-lobed, pendant, tall upright plant habit. Resistance: Tobacco Mosaic Virus 0. Adaptation: Open field and tunnel production.

Big Banana—Vendor: Thompson and Morgan. Characteristics: F1 hybrid banana or Hungarian wax type, sweet, matures in 95 days, fruits size is 254 × 102 mm, yellow maturing to a deep shiny scarlet, up to 50 full-sized fruits per plant.


Big Sun—Vendor: Technisem. Characteristics: Open-pollinated scotch bonnet type, globular wrinkled shape, dark green to maturing to vivid yellow, 55 × 50 mm fruit size, very pungent, 100 days, open plant habit, 800 mm tall. Adaptation: Tropical areas.

Bilitmore—Breeder and vendor: Stokes Seeds, Inc. Characteristics: main season variety; extra-large, 10-oz, high-quality fruit; very firm; good crack tolerance; semi-determinate; suited for row crops or basket weave culture. Resistance: tolerant to alternaria stem canker, Fusarium wilt race 1 and 2, grey leaf spot, and Verticillum wilt race 1. 2005.

Blast—Breeder: Marlin Edwards. Vendor: Syndenta. Characteristics: Ornamental pepper, 8–10 fruit clusters on top of plant, 4–6 fruits per cluster, fruit is ivory to yellow to vivid red, fruit is 25 × 19 mm, plant is 127 mm tall and 152–203 mm wide. Adaptation: Best suited for 4-inch pots. PVP 200100028

Black Hungarian—Vendor: Seed Savers Exchange. Characteristics: Open-pollinated ornamental, green foliage is highlighted by purple veins, purple flowers, sturdy plants, grow 762 to 914 mm tall, 76 to 102 mm fruit size, similar to a jalapeno shape, black ripening to red, mildly hot with good flavor.

Burkina Yellow—Vendor: Technisem. Characteristics: Open-pollinated scotch bonnet type, globular wrinkled, elongated pointed end fruits, very light green to yellow-red at maturity in 90–120 days. very hot, plant size is 500–700 mm. Resistance: Powdery Mildew.

Caloro—Breeder: Paul G. Smith. Vendor: Plants of the Southwest. Characteristics: Open-pollinated yellow wax type, pungent, fruit matures from yellow to orange-red, 89 × 38 mm fruit size, medium-thick walls, medium-sized upright plant provides good cover and has a pendant fruiting habit with continuous setting, very prolific. Resistance: Tobacco Mosaic Virus pathotype 0. Similar: Santa Fe Grande. Adaptation: Wide.

Candybar—Vendor: Gurney’s Seed and Nursery Co. Characteristics: Open-pollinated, green to reddish brown colored bell pepper, elongated, three-lobed bell, sweet, blocky 102 × 102 mm size, 82 days to maturity.

Capela—Vendor: Technisem. Characteristics: Open-pollinated bell pepper type, medium green maturing to dark red, green fruit in 60–65 days, concentrated fruit set, pendant, 100 × 75 mm fruit size, 3–4 lobed, compact plants are 450–600 mm tall. Resistance: Heat, Potato Virus Y, Tobacco Mosaic Virus, Powdery Mildew.

Chain Fair—Vendor: Known-You Seeds. Characteristics: F1 hybrid, Asian hot type, tall vigorous plants, fruit 170–200 × 16 mm, very hot, with smooth skin surface.


Charlestone Hot—Breeder: USDA Agricultural Research Services Vegetable Laboratory. Vendor: R.H. Shumway’s. Characteristics: Open-pollinated, cayenne type, very hot, high yielding, vigorous, fruit straight to slightly curved, matures from yellow-green to golden yellow to brilliant orange, to a deep red, 457 mm tall plants. Resistance: Southern root-knot nematode. Adaptation: Southeast U.S.

Cherry Pick—Vendor: R.H. Shumway’s. Characteristics: F1 hybrid cherry type, sweet, dark green mature to red, 32 × 32 mm fruit size, uniformly, rounded fruit, high yielding plants.


Chilli Chilli—Breeder: Marvin Edwards. Vendor: PanAmerican Seeds. Characteristics: Fruit is non-pungent, 50 mm in length, matures from yellow to orange to red, extremely heat tolerant, plants are 305 mm tall and 152–250 mm wide. 2002 All-American Selection winner.

Cipalas—Vendor: Technisem. Characteristics: Open-pollinated Asian hot type, dark green maturing to red, long slim curled pointed fruit, 100 × 7 mm, green fruit mature in 65–75 days, vigorous upright plant.


Corcel (PS 11410078)—Breeder and vendor: Seminis Vegetable Seeds. Parentage: F1 hybrid. Characteristics: Ancho type; fruit 17.5 cm × 9 cm, high percentage of two locule fruit, dark green color turning chocolate in the ripe stage; strong plant, specific use is fresh market; not for drying at the red stage. Similar: Caballero, Ancho San Juan, Tiburon. Adaptation: NAFTA—Mexico. 2004.


Cyклон—Vendor: Seed Savers Exchange. Characteristics: Open-pollinated hot pepper from Poland, thin walls, fruit matures to red, matures in 145 days from direct seeding. PVP 9600206. 1996.


El Jefe—Breeder and vendor: Siegers Seed Company. Characteristics: high-quality jalapenos that are darker green with thicker walls, smaller cavity, and more cylindrical shape; high yields. Resistance: bacterial spot races 1, 2, and 3. Adaptation: widely adapted; ideal for both fresh and processing markets. 2002.

Elmer—Breeder: Marlin Edwards. Vendor: Syngenta. Characteristics: Ornamental, conical fruit 25 × 13 mm, purple foliage and flowers, fruit ripens from purple to deep red, plant is 250–356 mm tall and 203–250 mm wide. Adaptation: Performs well in jumbo pack, 6-inch pots with 3 plants per pot. PVP 200100029

Emerald Isle—Vendor: Harris Moran. Characteristics: F1 hybrid elongated bell pepper, green maturing to red, blocky, 3-lobed, 130 × 90 mm fruit size, glossy, thick walls, plant vigorous, intermediate height with good foliage cover. Resistance: Cucumber Mosaic Virus, Potato Virus Y, and Phytophthora. Adaptation: Open field production.

Encore—Vendor: Roger’s Brand. Characteristics: F1 hybrid bell pepper, green maturing to red, blocky, very smooth, thick walls, medium high plants, very good foliage cover. Resistance: Pepper Mottle Virus, Potato Virus Y, tolerance to Stip. Adaptation: California and West Mexico production areas.

Ever-Flavor—Vendor: Known-You Seeds. Characteristics: F1 hybrid, Asian hot type, spreading plants, branched, vigorous, prolific, 150 × 12 mm fruit size, very hot, pendant.


Fatalii—Vendor: Pepper Joe’s, Inc. Characteristics: Open-pollinated Capsicum chinense pod type, originally from Central Africa, light green maturing to bright yellow, distinctly pointed end.

Filabri (HA-1860)—Vendor: Hazera Quality Seed. Characteristics: F1 hybrid New Mexican type, dark green maturing to red, 150 × 40 mm fruit size, medium thick fruit walls, 3-lobed, pendant. Adaptation: Open field production. Resistance: Potato Virus Y, Tobacco Mosaic Virus pathotype 0.

Fish—Vendor: Seed Savers Exchange. Characteristics: Open-pollinated African-American heirloom ornamental type, green and white foliage, fruit is 64 mm long, pendant, ripens from cream with green stripes to orange with brown stripes to all red.

Flush (HA-506)—Vendor: Hazera Quality Seed. Characteristics: F1 hybrid tomato (Gambo) type, green maturing to red, 4–5 lobes, very thick fruit walls, 50 × 100 mm fruit size, pendant fruit, tall plant habit. Resistance: Tobacco Mosaic Virus and Potato Virus Y. Adaptation: Open field production.

Fluorescent Purple—Vendor: Pepper Joe’s, Inc. Characteristics: Open-pollinated heirloom cultivar, leaves are a sensational fluorescent purple and white, fruit are green, to purple, then to red when ripe, very pungent.

Fruit Basket—Vendor: Park Seed Co. Characteristics: F1 hybrid squash type, green maturing to orange, sweet, 127 mm sized fruit, plants are adapted to hanging basket, plant is 250 mm high and 610 mm wide.

Goliath—Vendor: R.H. Shumway’s. Characteristics: F1 hybrid bell pepper, green to dark red, 4-lobed, 102 × 178 mm fruit size, elongated, thick-walled fruits, vigorous plant habit. Adaptation: Wide. Greygo—Breeder and vendor: Meyer Seed International. Characteristics: large, flattened, early maturing, pendant, broad-shouldered cherry pepper; 2 1/4 inches across by 1 1/4 inches deep; matures from green to a brilliant deep red; has excellent eating and processing qualities. 2005.

Group Zest—Vendor: Known-You Seeds. Characteristics: F1 hybrid, Asian hot type, medium-tall, spreading plants, very early-maturing with concentrated harvest, 160 × 20 mm fruit size, thick flesh with strong pungency.

Guantanomo—Vendor: Stokes. Characteristics: F1 hybrid Cubanelle type, lime green maturing to red, smooth, 2–3 lobed, 185 mm long fruit, tapered to blunt tip, very sweet.


Hungarian Spice Hybrid—Vendor: Park Seed Co. Characteristics: F1 hybrid New Mexican type, green maturing to dark red, mildly spicy, thin-walled, 178 mm fruit size.

ripened from ivory-white to green yellow to orange red, green foliage with thin leaf shape, spreading habit, slightly mound, plant is 76–127 mm tall and 305–356 mm wide. Adaptation: Hanging baskets, and 4- to 6-inch pots when 3 plants per pot. PVP 200100030


**Italy** — Vendor: Johnny’s Selected Seeds. Characteristics: Open-pollinated Italian fying type, 55 days to green, 75 days to a dark crimson red, 203 x 64 mm fruit size, with wide shoulders, sweet. Similar: Corno di Toro.

**Ixtapa (PS 9096)** — Breeder and vendor: Seminis Vegetable Seeds. Characteristics: Has a vigorous plant, jumbo fruit, and is a dark green fruit with excellent yield potential that is red at maturity and has a Scoville range of 4000 to 6000. Resistance: Bacterial spot 1, 2, 3 (XR). 2002.

**Jaduldo** — Breeder: United Genetics. Vendor: Siegers Seed Co. Characteristics: F1 hybrid jalapeno, excellent choice for processing, shiny fruits display a longer shelf life, have less tendency to check and wrinkle, early maturity, 89-mm-long fruit.

**Jimmy Nardello’s** — Vendor: Seed Savers Exchange. Characteristics: Open-pollinated Italian cultivar, sweet, extremely productive, plants are 610 mm high.

**Jumbo Stuff** — Vendor: Stokes. Characteristics: F1 hybrid of Super Stuff, lemon yellow fruits, thick flesh, plants set 8–10 fruit, 150 x 95 mm sized fruit. Similar: Super Stuff.


**Lady Star** — Vendor: Known-You Seeds. Characteristics: F1 hybrid, bell pepper, 125 x 75 mm fruit size, thick flesh, plants are vigorous and slightly spreading. Resistance: Tobacco Mosaic Virus.

**La Rouge Royale** — Vendor: Totally Tomatoes. Characteristics: F1 hybrid, Lamuyo bell pepper type, green maturing to brilliant red, sweet, very tall plants with plenty of coverage protecting fruits.

**Labrador** — Vendor: Johnny’s Selected Seeds. Characteristics: F1 hybrid bell pepper, green maturing to red, medium-large fruit, blocky, sweet, concentrated fruit set, compact plant habit. Resistance: Pepper Virus Y, Tobacco Mosaic Virus pathotype 0. Adaptation: Open pollinated Lamuyo type bell pepper type, green maturing to red, 70 mm fruit size, with wide shoulders, tapering to a blunt point, upright compact plant habit. Similar: Marconi.

**Mariachi (227160)** — Breeder and vendor: Seminis Vegetable Seeds—Petoseed. Parentage: F1 hybrid. Characteristics: hot pepper; yellow to red; very large size fruit with thick walls, green color, 10.5–11.0 cm long; wide shoulders are typical so fruit are heavier than Santa Fe Grande; vigorous plant with good set, early maturity. Similar: Santa Fe Grande, Don Nacho. Adaptation: NAFTA. 2003.


**Master 714** — Vendor: Harris Moran. Seed. Characteristics: Open-pollinated Marconi type, dark green maturing to red, large blocky, firm, heavy walls, mostly 4-lobed, 152 x 51 mm fruit size, 500–635 mm plant height. Similar: Marconi type peppers.


**Mexibell** — Vendor: R.H. Shumway’s. Characteristics: F1 hybrid bell pepper, green maturing to red, 3-lobed, mild pungency, plant is 660 mm tall. Resistance: Tobacco Mosaic Virus.

**Miles Flavor** — Vendor: Known-You Seeds. Characteristics: F1 hybrid Asian hot type, uniform, smooth fruit, 145 x 14 mm fruit size, prolific with about 200 fruit per plant, spreading, well-branched plants with short internodes, very pungent.

**Mulato Costeño** — Vendor: Seminis Vegetable Seeds. Characteristics: Open-pollinated Ancho/Mulato type, dark green to chocolate brown, wide shoulders, tapering to a point, 140 x 76 mm fruit size, strong plant habit.


**Navarone** — Vendor: Stokes. Characteristics: F1 hybrid Italian ram’s horn type, matures to red, extra-large, smooth, 220 x 70 mm fruit size, thick flesh.


Nimrod (HA-988)—Vendor: Hazera Quality Seed. Characteristics: F₁ hybrid bell pepper, green maturing to red, 80 × 80 mm fruit size, thick fruit walls, 3-lobed, pendant. Resistance: Potato Virus Y, Tobacco Mosaic Virus pathotype 0. Adaptation: Open field and under net covering production.

Nosegay—Vendor: Seed Savers Exchange. Characteristics: Open-pollinated ornamental, 152 mm plant, pungent, yellow to orange to red fruit color.


NuMex Suave Orange—Breeder: P.W. Bosland, E. Votava, and W. D. Adams. Vendor: New Mexico Crop Improvement Assoc. Characteristics: Open-pollinated C. chinense type, has less than 1% the pungency of standard orange habanero cultivars, 43 × 25 mm fruit size, matures from green to orange, vigorous plant habit, 838 mm tall and 1041 mm wide, with good fruit cover. Similar: Orange Habanero. Adaptation: Widely. 2001.


Ohad—Vendor: Hazera Quality Seed. Characteristics: Open-pollinated bell pepper, yellowish-green, 110 × 60 mm fruit size, tapered shape, medium to thick fruit walls, 3-lobed, pendant. Adaptation: Open field production. Resistance: Tobacco Mosaic Virus pathotype 0.


Orange Belle Hybrid II—Vendor: Burpee. Characteristics: F₁ hybrid bell pepper, 4-lobed, green maturing to orange, plants are compact and vigorous.

Orion—Vendor: Enza Zaden. Characteristics: F₁ hybrid bell pepper, green maturing to red, 90–95 mm fruit size, 4-lobed, thick-walled fruit, plants habit is compact, excellent leaf cover. Resistance: Bacterial leaf spot races 1, 2, 3 and 5, Tobacco Mosaic Virus. Adaptation: Open field production.

Pageant—Vendor: Roger’s Brand. Characteristics: F₁ hybrid sweet banana type, large smooth fruits with good yellow color, thick fruit walls, medium tall vigorous plants. Resistance: Bacterial leaf spot races 1, 2, and 3. Adaptation: Georgia.

Palenque (SSC 4002)—Breeder: Nongwoo. Vendor: Shamrock Seed Co., Inc. Parentage: F₁ hybrid. Characteristics: new serrano type pepper that is early maturing; produces a high yield of large sized fruit that is glossy, dark green that matures to red; cylindrical fruit tapers towards the blossom end; plants are medium-tall, non-pubescent; fruit setting is continuous; early maturing, concentrated set and large fruit size contribute/permit/allow high productivity/yield. Similar: None. Resistance: None. Adaptation: All pepper production regions. 2005.


Pecos—Vendor: Roger’s Brand. Characteristics: F₁ hybrid jalapeno, dark green maturing to red, medium pungency, easy to de-stem, tall plant with continuous set.

Peperoncino—Vendor: R.H. Shumway’s. Characteristics: Open-pollinated Italian frying type, imported from Milan, high yields, thin walled, yellow-green fruits, 50–102 mm long, sweet, plant is 762 mm tall. Similar: Peperoncini.

Perfection—Vendor: Johnny’s Selected Seeds. Characteristics: F₁ hybrid bell pepper, ivory white fruit ripens to lemon yellow, unlike others in this class that ripen from creamy yellow to red, sweet, 65 days to white, 85 days yellow ripe, fruit are medium to large, 4-lobed, blocky, and smooth with lime-green stems, excellent fresh market type, plant habit is strong and open. Resistance: Tobacco Mosaic Virus pathotype 0.

Perfecto—Vendor: Seminis Vegetable Seeds. Characteristics: F₁ hybrid jalapeno, dark green maturing to red, 89 × 38 fruit size, sets well in cool weather, cylindrical fruit with a blunt end, thick walls, ideal for fresh market or processing. Resistance: Potato Virus Y.


Primbo (HA-503)—Vendor: Hazera Quality Seed. Characteristics: F₁ hybrid tomato (Gamba) type, green maturing to red, 50 × 100 mm fruit size, oblate, ridged fruit shape, very thick fruit walls, 4–5 lobed, pendant. Resistance: Potato Virus Y, Tobacco Mosaic Virus pathotype 0. Adaptation: Open field production.

Quadrato Asti Giallo—Vendor: Seed Savers Exchange. Characteristics: Open-pollinated Italian frying type, large, blocky, green to golden-yellow, thick crisp flesh, sweet spicy flavor.

R & C Cayenne—Vendor: Seminis Vegetable Seeds. Characteristics: F₁ hybrid tomato (Gamba) type, green maturing to red, 50 × 100 mm fruit size, oblate, ridged fruit shape, very thick fruit walls, 4–5 lobed, pendant. Resistance: Potato Virus Y, Tobacco Mosaic Virus pathotype 0. Adaptation: Open field production.

Rebelde (PS 11410079)—Breeder and vendor: Seminis Vegetable Seeds. Parentage: F₁ hybrid. Characteristics: Ancho type; fruit size 175 × 90 mm; high percentage of two-locule fruit; traditional mulato dark green color turning chocolate in the ripe stage; strong plant; for fresh market and drying when red ripe color is not required. Similar: Caballero. Adaptation: NAFTA—Mexico. 2004.

Red Delicious—Vendor: Burpee Seeds. Characteristics: F₁ hybrid bell pepper, maturing green to red, when fully ripe has unique “apple” taste, delicious, fruits up to 76 mm across.
Red Lion (HMX 0651)—Breeder and vendor: Harris Moran. Parentage: F1 hybrid. Characteristics: half long Lamuyo type; fruit are 3 to 4 lobed, very uniform size and shape, green to red color. Adaptation: California. 2003.


Safi—Vendor: Technisem. Characteristics: Open-pollinated Scotch bonnet type, globular wrinkled fruits, light green to bright red, 90–100 days, plant size is 300–400 mm, very hot. Resistance: Powdery Mildew (Leveillula taurica).

Salmon—Vendor: Technisem. Characteristics: Open-pollinated Asian hot type, upright fruit cluster in concentrated fruit set (fasciculate), green maturing to a bright red, 50–80 mm long pointed fruit, 50–60 days for green mature fruit, very hot, plant habit is erect compact, 400 mm tall.


Serenade—Vendor: Hazera Quality Seed. Characteristics: F1 hybrid New Mexican type, green maturing to red, slender tapered fruit shape, 80 × 20 mm, thin fruit walls, 3-lobed, pendant. Resistance: Potato Virus Y, Tobacco Mosaic Virus 0. Adaptation: Open field production.

Serrano del Sol—Breeder: Seminis Seeds. Vendor: R.H. Shumway’s. Characteristics: F1 hybrid serrano type, fruit length is 102 mm, hot, with a unique favor.

Sheepnose Pimento—Vendor: Seed Savers Exchange. Characteristics: Open pollinated tomato type, Ohio heirloom, flavorful, sweet juicy flesh, very meaty, sturdy plants.

Shemesh (HA-490)—Vendor: Hazera Quality Seed. Characteristics: F1 hybrid bell pepper, matures to gold, 80 × 80 mm fruit size, medium thick fruit walls, 4-lobed, pendant, compact plant habit. Resistance: Bacterial leaf spot race 1, 2, 3, Pepper Mild Mosaic Virus, Potato Virus Y, Tobacco Mosaic Virus. Adaptation: Open field and under net production.


Socrates (PS 304496)—Vendor: Seminis Vegetable Seeds—Petoseed. Parentage: F1 hybrid. Characteristics: sweet pepper with blocky, green to red fruit; early maturity; good quality at both the green (fresh market) and red (processing) maturities; extra large size fruit with good quality; thick fruit wall with majority 3 to 4 lobed fruit; vigorous plant. Resistance: potato virus Y (strain 0), bacterial spot (race 1–3). Similar: Ironsides, Red Knight. Adaptation: Northeast U.S. 2002.


Staysgreen—Breeder and vendor: Stokes Seeds. Parentage: F1 hybrid sweet bell pepper that stays green, 90 × 95 mm sized fruit, thick flesh; matures in 75 days; medium sized “perma green” pepper has a higher sugar content than most mature red peppers; dark green fruit remains unchanged in color during the early Aug./late Sept. picking season. 1998.

Stella—Vendor: Technisem. Characteristics: F1 hybrid Lamuyo bell pepper, dark green maturing to vivid red, 150 × 75 mm fruit size, elongated, 3–4 lobed, continuous fruit set, pendant fruits, plant is 900 mm tall. Resistance: Tobacco Mosaic Virus.

Stiletto (RPP 8505-VP)—Vendor: Syngenta, Roger’s Brand. Characteristics: F1 hybrid bell pepper, medium dark green maturing to red, blocky to deep blocky fruits, heavy fruit set of extra large size on crown, medium tall plants with excellent plant canopy. Resistance: Bacterial leaf spot races 1, 2, 3, Tomato Spotted Wilt Virus. Adaptation: Georgia.

Striker (BS 02892230)—Breeder and vendor: Seminis Vegetable Seeds—Bruinsma. Parentage: F1 hybrid. Characteristics: yellow pepper, strong and generative, very large, blocky fruits (88 mm × 88 mm, 230 g), uniform, good shelflife; must be grown in heated, high light level greenhouses (Ontario Canada, Mexico) or plastic multi-span houses with very high light levels (>12,000 joules per week, Mexico). Resistance: tobamovirus. Similar: Bossanova. Adaptation: NAFTA (includes Canada and Mexico. 2003.

Summer Sweet—Breeder and vendor: Twilley. Characteristics: 73 days green and 83 days red; block to deep blocky large 4- by 4-inch fruit with an extra large crown fruit set; medium to large plant size is very productive and develops smooth, high quality fruit. Resistance: tolerant to BLS races 1, 2, and 3. 1998.

Summer Sweet 209—Breeder and vendor: Abbott & Cobb. Characteristics: consistently high yields, has strong plants with a full canopy, extra large, high quality fruit, and excellent disease tolerance. Fruits are blocky to deep blocky with thick walls and mature green in 76 days. Fruit mature red in 86 days. 2002.

Summer Sweet 290—Vendor: Abbott & Cobb. Characteristics: F1 hybrid bell pepper, green maturing to yellow, fruit is very large, blocky and slightly elongated, 114 × 114 mm fruit size, thick walled fruit, plants are strong and has a full canopy. Resistance: Potato Virus Y, Tobacco Mosaic Virus, Stip.

Summer Sweet 830—Vendor: Abbott & Cobb. Characteristics: F1 hybrid bell pepper, green maturing to red, blocky smooth, 114 × 102 mm fruit size, strong and vigorous plants. Resistance: Bacterial leaf spot race 1, 2, and 3, Potato Virus Y, Tobacco Mosaic Virus. Adaptation: Early fall and spring planting in Florida.


Summer Sweet 870—Vendor: Abbott & Cobb. Characteristics: F1 hybrid bell pepper, green maturing to bright red, blocky, smooth, 4-lobed, 114 × 89 mm fruit size. Resistance: Bacterial leaf spot race 1, 2, and 3, Potato Virus Y, Tobacco Mosaic Virus.

Summer Sweet 880—Vendor: Abbott & Cobb. Characteristics: F1 hybrid bell pepper, dark green maturing to bright red, large deep blocky, 4-lobed, 114 × 102 mm fruit size, plants are vigorous, tall good fruit protection. Resistance: Bacterial leaf spot race 1, 2, and 3, Potato Virus Y, Tobacco Mosaic Virus. Adaptation: Wide.

Summer Sweet 890—Vendor: Abbott & Cobb. Characteristics: F1 hybrid bell pepper, green maturing to red, very large blocky fruit, slightly elongated, 114 × 114 mm fruit size, thick walled fruit, plants are strong and has a full canopy. Resistance: Bacterial leaf spot race 1, 2, and 3, Potato Virus Y, Tobacco Mosaic Virus. Similar: King Arthur

Summer Heat 5000 (ACX P100)—Vendor: Abbott & Cobb. Characteristics: F1 hybrid jalapeno, dark green fruit maturing to red, 89 × 25 mm fruit size, blunt, smooth cylindrical fruit, plants are very uniform upright, vigorous, providing excellent fruit cover, with continuous fruit setting ability. Resistance: Cucumber Mosaic Virus, Potato Virus Y, Tobacco Etch Virus, Tobacco Mosaic Virus. Adaptation: Most growing areas.
Summer Heat Variety #6000 (ACX P101)—Vendor: Abbott & Cobb. Characteristics: F1 hybrid jalapeno, medium green fruit maturing to red, thick walls, very cylindrical smooth fruit, 89 × 25 mm fruit size, sturdy and full plants, excellent for processing/dicing market. Resistance: Cucumber Mosaic Virus, Potato Virus Y, Tobacco Etch Virus, Tobacco Mosaic Virus.

Sunny—Vendor: Technisem. Characteristics: F1 hybrid Asian hot type, dark green maturing to red, pendant, pointed end, 65–70 days, 130 × 15 mm fruit size, upright plant habit, 1000 mm tall. Adaptation: Cool and dry season.

Super Flavor—Vendor: Known-You Seeds. Characteristics: F1 hybrid, Asian hot type, 150 × 15 mm fruit size, dark green maturing to bright red, prolific, smooth, good for storage and drying, vigorous plants are medium-tall, spreading.

Super Jumbo—Vendor: Liberty Seed. Characteristics: a 65-day jalapeno, 7 inches or longer with a 1-1/4 to 1-1/2 inch diameter; almost crack free; mildly hot and smooth with no purpling. 1998.

Suryamuki Cluster—Vendor: Ecosseeds. Characteristics: Open-pollinated, Asian hot type, medium-hot, small dark red fruit, borne upright on plants in clusters (fasiculate) of up to a dozen pods, very popular in India and as an ornamental.

Sweet Apple Pimiento—Vendor: Renee’s Garden. Characteristics: Tomato type, shiny, many lobed fruit, emerald green maturing to deep crimson red, thick fruit walls, imported from Hungary.

Tajin (PS 11422290)—Breeder and vendor: Seminis. Parentage: F1 hybrid. Characteristics: early Jalapeno, medium plant frame with good fruit coverage, fruit are large and heavy and very uniform in shape, fruit color is medium to dark green color, thick walls, fruit shape is 90.8 cm × 4.1 cm, fruit set is very good and concentrated. Similar: Conchos. Adaptation: NAFTA—Mexico and Southeast U.S. 2005.


Telestar (HA 2506)—Breeder and vendor: Hazera Seeds Inc. Characteristics: green to red, blocky bell pepper that features very smooth shoulders, large sizes, and extended setting ability. Resistance: tomato mosaic virus, potato virus Y, bacterial leaf spot races 1, 2, and 3. Adaptation: performed well in East and West coast production areas. 2005.


Tennessee Cheese—Vendor: Vermont Bean and Seed Co. Characteristics: Open pollinated tomato (cheese) type pimiento, green maturing to red, 76–102 mm diameter fruit, strong vigorous plants.

Thai Sun—Vendor: Pepper Joe’s Inc. Characteristics: Open pollinated, Asian hot type, 254 × 305 mm plant size, a single plant can produce hundreds of fruits, early maturing.

Tiburon—Vendor: Sakata. Characteristics: F1 hybrid, Poblano type, very dark green maturing to red, extra large fruit, mildly pungent, mid-season maturity, large plant frame.


Trupti—Vendor: Ecosseeds. Characteristics: Open pollinated, Asian type, fruit is slender and long, usually curved like a fishhook, mildly hot, green turning red when ripe.

Ultra Stuff—Vendor: Stokes. Characteristics: F1 hybrid bell pepper, light green maturing to yellow to orange to red, 150 × 90 mm fruit size, slightly tapered, 2–3 lobed, thick flesh, large vigorous plant.

Vega—Vendor: Known-You Seeds. Characteristics: F1 hybrid, bell pepper type, 83 × 82 mm fruit size, smooth, uniform fruit, plants are early, slightly dwarf with short internodes, vigorous, good wind tolerance. Resistance: Cucumber Mosaic Virus, Tobacco Mosaic Virus.


Ventura (VTR 212)—Breeder and vendor: Orsetti Seed Co. Characteristics: poblano / mulato type; very good setting; medium-long (5/5 × 3/5 inch fruit; fruit are green to mulato and are generally two lobed with sunken calyx; 85–90 days to maturity. Adaptation: U.S. 2001.


Virgo—Vendor: Known-You Seeds. Characteristics: F1 hybrid, bell pepper, green fruit, 180 × 75 mm fruit size, smooth, moderately thick fruit walls, vigorous uniform plants, average plant height, well-branched, and very prolific.

Vivaldi—Vendor: Vilmorin. Characteristics: F1 hybrid bell pepper, green maturing to red, very uniform coloration, early, 165 × 127 mm fruit size, heavy, smooth, uniform, blocky, excellent first harvest, high percentage of 4-lobed, thick walls, plant is tall, medium vigor, good fruit coverage. Adaptation: Midwest and on the East Coast.

VTR 212—Breeder and vendor: Orsetti Seed. Characteristics: a medium-long poblano/mulato pepper, offers a good setting, has good wall thickness and pungency. Fruit are generally two lobed with a sunken calyx. This pepper offers relative days to maturity from transplanting of 85 to 90 days. 2002.

Whopper Improved—Vendor: Vermont Bean Seed Company. Characteristics: F1 hybrid bell pepper, green maturing to red, 102 × 102 mm fruit size, 4-lobed, thick walled fruits. Strong plant, excellent foliage protection. Resistance: Tobacco Mosaic Virus.

X3R Aristotle—Vendor: Petoseed. Characteristics: F1 hybrid bell pepper, dark green maturing to red, 4-lobed fruit, vigorous plants. Resistance: Bacterial leaf spot races 1, 2, and 3.

X3R Ixtapa (PS 9096)—Vendor: Petoseed. Characteristics: F1 hybrid jalapeno, matures green to red, thick-walled, tapers to point, plants are vigorous. Resistance: Bacterial leaf spot races 1, 2, and 3, Potato Virus Y, Tobacco Mosaic Virus pathotype 0.

Xena—Vendor: Sunseeds. Characteristics: F1 hybrid jalapeno pepper, green maturing to red, smooth, mature green in 80 days, 75 × 25 mm fruit size, plants are medium-large, erect, single stem with sturdy branches and good foliage canopy. Resistance: Tobacco Mosaic Virus. Similar: Jalapeno M. Adaptation: Mexico, Florida, and California.

Yellow Star—Vendor: Known-You Seeds. Characteristics: F1 hybrid bell pepper, uniform rectangular fruit shape, brisk-green maturing to yellow, 135 × 75 mm fruit size, plants are vigorous.

Yellow Monster—Vendor: Burgess Seed and Plant Co. Characteristics: Elongated bell pepper, sweet, green maturing to brilliant yellow, 178 × 102 mm fruit size, plants are 686 mm tall.

Zarco—Vendor: Roger’s Brand. Characteristics: F1 hybrid Lamuyo bell pepper, green maturing to yellow, shiny large uniform fruit, tall vigorous plants. Resistance: Potato Virus Y, Tobacco
Etch Virus, Tobacco Mosaic Virus, tolerance to Stip. Adaptation: California, Desert Southwest, West Mexico.

PUMPKIN


Cannon Ball (HMX 3694)—Breeder and vendor: Harris Moran Seed Co. Characteristics: dense, 3–5 lb fruit features a vivid orange color and a large, firmly, rooted handle for a sure grip; good yield; vigorous plant. Resistance: powdery mildew tolerant. 2005.


Cotton Candy—Breeder and vendor: Rupp Seeds, Inc. Characteristics: a true pumpkin with oval fruit; weighs 5 to 10 lb; has white rinds and white flesh that are excellent for displays or painting. 2005.


Fat Albert (MSX6099)—Breeder and vendor: Meyer Seed International. Characteristics: dark-orange, extra-large pumpkin with extra-large handle; handles are 3 inches in diameter by 10 inches long; grown on large vine; pumpkin may exceed 75 lb under optimum conditions. 2005.


Gold Bullion—Breeder and vendor: Rupp Seed. Parentage: hybrid. Characteristics: It has shown excellent performance in both Rupp and university trials, has a 100-day maturity with fruit that average 18 lb; has a dark-orange color and a strong handle. 2002.


Gold Medal—Breeder and vendor: Rupp Seeds, Inc. Parentage: hybrid. Characteristics: top of the class in appearance for the retail market; 35 to 40 lb pumpkin with a dark color and long handle; due to its early maturity (90 days) it will probably replace many varieties in the large-fruited class. Adaptation: can take large-fruited production much farther North. 2005.


La Estrella—Breeder and vendor: Rupp Seeds, Inc. Parentage: hybrid. Characteristics: exclusive hybrid tropical pumpkin bred for uniform size and superior flesh color; the 6-lb fruit were bred for August and February planting in Florida and they mature in 70 days; in the Northern U.S. the growing season extends to 130 days and the fruit weigh in at 10 to 12 lb. 2005.


Snackface (PS 9359418)—Breeder and vendor: Seminis. Parentage: F1 hybrid. Characteristics: strong semi-bush, plants that set about 6 to 8 very uniform fruits per plant; fruit are small (1–2 lb), exterior color is light orange with interior color orange; the fruits produce about 85 g of naked or hulless seed. Similar: Styrian Pumpkin. Adaptation: worldwide. 2005.


Troyan—Breeder and vendor: Seedway. Characteristics: Weighing up to 30 lb, Troyan is a deep orange pumpkin with strong large handles. Vigorous vine and high yields characterize this cultivar developed in Hershey, PA, research farm. 2002.


RADISH

Discovery—Breeder and vendor: American Takii, Inc. Parentage: hybrid. Characteristics: April Cross class; slow bolting; excellent field-holding ability and uniform roots; matures in about 60 days, weighs about 800 g; 2 1/2 inches in diameter, roots are 15 inches long. 2005.

Red Castle (HMX 4762)—Breeder and vendor: Harris Moran Seed Co. Characteristics: attractive radish produces round, uniform fruit suitable for bunching, cello, and slicing markets; exterior, bright red; interior, snow white; plant features medium erect tops; bulbs continue to size; superior yield potential; slightly earlier than Red Satin. 2005.

Red Satin (HMX 4761)—Breeder and vendor: Harris Moran Seed Co. Characteristics: attractive, general purpose radish particularly well-suited for Cello market; features vivid red exterior and a beautiful fog-white interior; holds its round shape well; highly uniform fruit; good yield; high recovery. 2005.

RHUBARB

Honeymed—Breeder and Vendor: A.J. Porter, Honeywood Nursery, Parkside, Saskatchewan, Canada. Parentage: MacDonald X Early
Sunrise. Characteristics: stalks crisp, firm, mild; quality equal to Canada Red; same size and vigor as MacDonald; takes less sugar than most; external and internal color deeper red than MacDonald; fewer seedstalks at Parkside than any other red rhubarb tested there; susceptible to a crown rot on heavy soils. 1971.

**Ruby**—Breeder: Canada Dept. of Agriculture, Central Experimental Farm, Ottawa, Canada. Parentage: selected from ‘Victoria’. Characteristics: stalks numerous; not as strong a grower as MacDonald, averaging 41.5 cm and 56 g in tests in New Brunswick (Agriculture Canada, Buctouche), 1982–84; Color rich red, exterior redder than MacDonald and Canada Red, interior redder than MacDonald but less so than Canada Red, Sunrise and Valentine; tanness rated same as MacDonald when cooked—moderately tart, much more tart than Canada Red; color when cooked is superior to MacDonald, Canada Red, Sunrise and Valentine. Resistance: prone to numerous seed stalks and very susceptible to red leaf disease (*Erwinia rhapontici*). 1927.

**Sunrise (Early Sunrise)**—Breeder: Experimental Station, Canada Dept. Agriculture, Kentville, Nova Scotia, Canada. Parentage: Derived from ‘Ruby’, open-pollinated. Characteristics: Large, vigorous variety; stalks much thicker than ‘Ruby’; quick to produce seedstalks; very satisfactory for forcing. Similar: to MacDonald but with much better red color. 1946.

### SOYBEAN

**BeSweet 2020s**—Breeder and vendor: Rupp Seeds, Inc. Characteristics: new vegetable soybean; produces large beans that are sweet if picked and preserved in the proper stage; used primarily as a shelled green bean with eating quality superior to limas; higher in protein than peas or limas. 2005.

### SPINACH

**Beiquan Mou**

USDA/ARS

*U.S. Agricultural Research Station*

1636 East Alisal Street

Salinas, CA 93905


**Anna (SFP328)**—Breeder and vendor: Sakata Seed America. Parentage: F1 hybrid. Characteristics: a moderately fast growing variety with an upright plant habit; medium dark green, oval leaf with a round tip; leaf becomes more round as it matures, providing a good pack for processing; smooth leaf surface with slight savoy; suitable for baby, bunch, and processing. Resistance: downy mildew races 1–10; moderate resistance to bolting.


Scarlet (SP849)—Breeder and vendor: Daenfeldt. Parentage: hybrid. Characteristics: unique red vein; adds new dimension to baby leaf spinach marketing-color; can be used as an alternative to Swiss chard in a mixed leaf salad pack; delivers both the taste and the nutritional value spinach has to offer. Resistance: downy mildew races 1, 2, 3, and 4. 2005.

SP870—Breeder and vendor: Daenfeldt. Parentage: hybrid. Characteristics: a full Savoy; rich dark green color; round leaf shape; fits the needs of the baby spinach grower perfectly; slow bolting, but quick to mature in warm temperatures; high quality product. Resistance: downy mildew races 1–7. 2005.


SQUASH


Bonbon—Breeder and vendor: Johnny’s Selected Seeds. Characteristics: winter squash; 2005 All-America Selections Winner bred by Johnny’s; improved taste, uniformity, and yield compared with other buttercup varieties; weight averages 4 to 5 lb with about four fruits per plant; matures in about 95 days. 2005.


Leopard (HMX 2724)—Breeder and vendor: Harris Moran Seed Co. Characteristics: new, multiple virus resistant squash; easy-to-pick, high quality fruit from an open plant; extended harvest; reduced wind breakage. Resistance: ZYMV and PRSV. 2005.


Payroll (RSQ 0227)—Breeder and vendor: Syngenta Seeds, Inc./Rogers Brand. Characteristics: medium-green zucchini; has the potential to step forward with its virus and powdery mildew tolerance; showed high yield potential and excellent fruit quality; reduced spines. Resistance: tolerant to powdery mildew. Adaptation: wide adaptability in several Eastern growing areas. 2005.


QSZ 746—Breeder and vendor: Sutter Seeds LLC. Characteristics: Exhibits strong disease resistance, has an open plant with a central stalk and shows that it will yield fruit over a longer season than the competition. Resistance: PFR-1, WM2, CMV, ZYMV, and PRSV. 2002.


Table Star—Breeder and vendor: Rupp Seeds, Inc. Parentage: hybrid. Characteristics: excellent yields; 50% higher sugars than competitive varieties; 2-lb, black-green acorn that matures in 70 days; fruit are marked with a white to yellow halo around the stem attachment. Resistance: powdery mildew tolerant. 2005.  
Vitoria (IS 10292002)—Vendor: Seminis Vegetable Seeds—Horticeres. Parentage: F1 hybrid. Characteristics: long narrow fruit with no bulb at the end; compact semi-vine plant; high yield; light greenish tan with darker green stripes; cylindrical fruit 20 cm long and 5-cm diameter. Similar: Menina Brasileria. Adaptation: Brazil. 2003.  
SW E AT E R C O R N

94H1263—Breeder and vendor: Seedway. Characteristics: 70-day white Se sweet corn; produces 8-inch ears on a 5 1/2-ft, robust plant; big, vigorous plant has 24-inch ear height, dark green husks, and ample flags; good seed vigor for early planting. 1998.  
Basin (XP 8492829)—Vendor: Seminis Vegetable Seeds—Asgrow Brand. Parentage: F1 hybrid. Characteristics: shrunken2 yellow processing type; full season maturity (81 days); average ear length of 9 inches (229 mm), with 16 to 18 rows per ear and an average diameter of 1.8 inches (46 mm). Resistance: common corn rust race 0, intermediate to maize dwarf mosaic. Similar: Super Sweet Jubilee, Zenith, Challenger. Adaptation: NAFTA processing areas. 2002.  
Brillance—Breeder and vendor: Harris Seeds. Characteristics: 79-day sweet corn that produces 8 to 8 1/2-inch ears on plants tolerant to common rust; ears have sugar-enhanced quality; easily hand harvested. 1998.  
Cavalry (HMX 2374)—Breeder and vendor: Harris Moran Seed Co. Characteristics: beautiful, widely adapted bicolor Sh2 shipper; strong disease package; strong tip fill; attractive husk and flags and a tight husk cover. Resistance: intermediate resistance to Rust, Stewart’s Wilt, and Common Smut; resistance to Northern Corn Leaf Blight and Maize Dwarf Mosaic. 2005.  
Devotion (EX 08413133)—Breeder and vendor: Seminis. Parentage: F1 hybrid. Characteristics: high quality, shrunken 2, white type; produces 8 inch (20 cm) × 1.7 inch (4.25 cm) ears with a nice snapped ear package and good husk cover; attractive husked ear has bright white kernels that fill 16–18 rows; matures in about 82 days; superb eating quality. Similar: Ice Queen, Summersweet 8101W. Adaptation: NAFTA—Northeast, Southeast and Northwest U.S. 2005.  
Flagship II—Breeder and vendor: Seedway. Characteristics: yellow Sh2 sweet corn that matures in 84 days; produces 7 1/2-inch ears on a 7 1/2-ft, clean stalk; dark green husks with excellent flags. Resistance: good disease package includes added rust resistance. 1998.  
Harris (Exp 1001)—Breeder and vendor: Harris Seeds. Characteristics: homoyzous SE bicolor; high eating quality in the second early time slot; refined and slightly tapered 8-inch ears are produced in 72 days on strong clean plants; highly recommended for roadside markets that require high quality. 2002.  
Harvest Gold (XP 08302418)—Breeder and vendor: Seminis. Parentage: F1 hybrid. Characteristics: SU 1 processor hybrid with refined kernel style, provides a good combination of field yield and cut kernel recovery, matures in 82 days, processed kernels are an attractive bright yellow, ears are 8.0-8.5 inches long, 2.0 inch diameter with 18-22 rows and good tip fill. Resistance: Common corn rust (Race 0); intermediate to Common corn rust (D—Virulent strain), Northern corn leaf blight and Stewart’s Disease. Similar:  

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HMX 8344BS—Breeder and vendor: Harris Seeds. Characteristics: similar to Candy Store but improved; 81-day supersweet bicolor has excellent eating quality, 8-inch ears, and improved disease resistance. Resistance: tolerance to common rust (R1D1), MDM, Stewart’s wilt, and common smut. 2002.


Luscious—Breeder and vendor: Johnny’s Selected Seeds. Parentage: hybrid. Characteristics: organic, sweet corn; large, blocky ears. Ear length from 7 1/2 to 8 inches with 16 to 18 rows of tender, sweet kernels with good corn flavor; ears are easy to pick; widely adapted; matures in 75 days. 2005.


Odyssey—Breeder and vendor: Stokes Seeds. Characteristics: 80-day Sh2 bicolor; features widely adapted emergence and seed vigor; medium-sized 8-inch cylindrical ear with a tapered tip; dark green tight husks; 14 to 18 rows of well contrasted yellow and white; high sugar kernels. 1998.

Optimum—Breeder and vendor: Rispens Seeds, Inc. Characteristics: 73-day Sh2 bicolor with scrumptious and tantalizing eating quality; ears are encased in a fancy package with well-filled ear and tip; very good husk cover against bird damage. 2005.


Polaris (HMX 8344BS)—Breeder and vendor: Harris Moran. Parentage: F1 hybrid. Characteristics: 81 day bicolor Sh2, for use in fresh market as well as processing; ear averages 8 inches in length and 1.8-inch diameter with a 16–18 row count; ear is slightly tapered; similar to Candy Store, but with much improved disease resistance. Similar: Candy Store. Adaptation: U.S. 2002.


Revelation (HMX 2370)—Breeder and vendor: Harris Moran Seed Co. Characteristics: exceptional eating quality; very early, vigorous hybrid with unique tenderness and quality; good emergence in cold soils; good plant standability; attractive husk package; 66-day maturity. 2005.


Shooting Star (HMX 8343BS)—Breeder and vendor: Harris Moran. Parentage: F1 hybrid. Characteristics: Sh2 for fresh market use, mainly as a shipper type; ear averages 7.7 inches in length and 1.8 inches in diameter with a 14–18 row count; ear is slightly tapered; good resistance to all major diseases of commercial corn; similar to Twin Star, but with much improved ear quality. Similar: Twin Star. Adaptation: U.S. 2002.


Summer Sweet (8101R)—Breeder and vendor: Abbott & Cobb. Characteristics: rust-resistant, mid-season white sweetcorn; excellent emergence, vigor, and yield; medium-tall plants are tolerant to SW and northern corn leaf blight; 8 1/2 inch ears sport bright white kernels, a row count of 16 to 18, and excellent tip fill. 2002.

Summer Sweet 7422—Breeder and vendor: Otis Twilley Seeds. Characteristics: shrunken bicolor sweet corn; variety matures in 75 days and produces a cylindrical ear with a 14 to 16 row count; attractive dark green husk; flag leaves wrap around an excellent kernel contrast. Resistance: SW and NCLB. 1998.


Sweet & Sweeter (020112)—Vendor: Seminis Vegetable Seeds–Asgrow. Parentage: F1 hybrid. Characteristics: 82 days to maturity from planting to eating, ear length 8.0 inches; ear diameter 1.9 inches; row count is 20 to 22; color contrast (yellow/white) is
SWISS CHARD

Bright Lights—Breeder and vendor: Johnny’s Selected Seeds. Characteristics: AAS winner; features multi-colored stems, and lightly savoyed green and bronze leaves; taste is milder than ordinary chard; colorful bedded/ornamental plant is suitable for year-round production—28 days baby, 55 days bunching. 2001.

TOMATO

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Amai (STM7704)—Breeder and vendor: Sakata Seed America, Inc. Characteristics: Indeterminate grape. vigorous plant with high productivity; good flavor with good fruit size and shape; uniformity throughout the plant. Resistances: Fusarium wilt race 1, tomato Mosaic Virus races 0, 2, gray leaf spot, nematodes, leaf mold races A–E. Adaptation: indoor and outdoor production. 2011.

Amelia VR (HMX 0800)—Breeder: North Carolina State University Vendor: Harris Moran. Characteristics: Determine vine, for fresh market tomato growers in Fusarium 3 and Tomato Spotted Wilt Virus-plagued areas; High fruit quality and high yields. Resistance: Verticillium wilt race 1, Fusarium wilt races 1, 2, 3, tomato spotted wilt virus, 2004.


Biltmore (XP 1417977)—Breeder and vendor: Seminis Vegetable Seeds–Asgrow. Parentage: F1 hybrid. Characteristics: fresh market type; tall jointed determinate plant with large, smooth, heavy fruit that is uniform; no green shoulders; not as early as Mountain Spring, but stronger plant better quality fruit that are larger size at top of plant; maturity earlier than Florida 47 and 91. Resistance: alternaria stem canker, Verticillium wilt race 1, Fusarium wilt races 1 and 2, gray leaf spot. Similar: Sunpride, Sunbeam. Adaptation: eastern U.S. 2003.

Capaya (PS 151476)—Vendor: Seminis Vegetable Seeds—Petoseed. Parentage: F1 hybrid. Characteristics: vigorous, determinate, long shelf-life, saladette type; large plant; may work on ground or staked; fruit are semi-elongated, very smooth with good color; very firm fruit with good color. Resistance: Alternaria stem canker, nematodes, Fusarium wilt race 1, gray leaf spot, Verticillium wilt, tomato spotted wilt virus. Similar: Toro, Conquistador. Adaptation: NAFTA—Mexico. 2010.


Celebrity—Breeder and vendor: Seminis. Characteristics: Produce very large fruit with high quality, large, smooth fruit with outstanding flavor; deep oblate fruit shape; fruit size 8 oz (227 g); large determinate plant type; relative maturity 72 days. Resistance: Alternaria stem canker, Fusarium wilt Race 1 and 2, Gray leaf spot, Southern root-knot nematode, Tomato mosaic virus, Verticillium wilt Race 1. Adaptation: Widely adapted fresh market and home garden variety; thrives in many climates. 1975.


Charleston (GC 12041)—Breeder and vendor: Syngenta, Rogers Brand Vegetable Seeds. Characteristics: An indeterminate beef tomato with a long shelf life and high yields. It has globular-shaped fruit, weighs 210 to 220 g, and features smooth uniform shoulders and a small blossom scar. 2002.


Cupid (PS 01502036)—Breeder and vendor: Seminis Vegetable Seeds—Petoseed. Parentage: F1 hybrid. Characteristics: Fresh market type; vigorous indeterminate vine; big cherry with Saladette shape; small oval fruit size of grape type; cluster sets; high sugar content (8.2 brix). Resistance: Fusarium wilt races 1 and 2; Alternaria stem canker; bacterial speck race 0; gray leaf spot. Similar: Santa. Adaptation: NAFTA. 2003.


Golden Sweet Grape—Breeder and vendor: Johnny’s Selected Seeds. Characteristics: Yellow grape tomato; firm, bite-size; grow in long clusters on tall plants; indeterminate; mild, sweet flavor; resists cracking and matures in 60 days. 2005.


H2206—Breeder and vendor: H.J. Heinz. Characteristics: Hybrid paste tomato, ultra-early maturity (99 days), small/compact prostrate vine, sets well in heat, uniform round jointless fruit (60 g) susceptible to cracking. Resistances: Verticillium wilt race 1, Fusarium wilt race 1, rot resistant. Adaptability: broad adaptation. 2008

H2401—Breeder and vendor: H.J. Heinz. Characteristics: Hybrid paste tomato, full season, large semi-prostrate vine, 70-g blocky-oval fruit with very high juice viscosity. Resistances: Verticillium wilt race 1, Fusarium wilt race 1 and 2, nematodes, bacterial speck, rot resistant (extended field storage). Adaptability: humid and arid regions. 2003

H3402—Breeder and vendor: H.J. Heinz. Characteristics: Hybrid peel/dice tomato with medium viscosity, mid-full season, large semi-prostrate vine, and 65 g blocky-oval fruit with excellent field rot resistance. Resistances: Verticillium wilt race 1, Fusarium wilt race 1 and 2, nematodes, bacterial speck. Adaptability: Broadly adapted. 2004

H4007—Breeder and vendor: H.J. Heinz. Characteristics: Hybrid peel/dice tomato with medium juice viscosity, second-early maturity, medium/large semi-prostrate vine, jointless blocky fruit (75 g) with very good color. Resistances: Verticillium wilt race 1, Fusarium wilt race 1 and 2, nematodes, bacterial speck, rot resistant. Adaptability: Humid and arid regions. 2009


H5108—Breeder and vendor: H.J. Heinz. Characteristics: Hybrid peel/dice tomato with medium viscosity, early maturity, compact vine with excellent fruit cover, 70 g, jointless fruit is blocky, smooth and firm. Resistances: Verticillium wilt race 1, Fusarium wilt race 1, rot resistant. Adaptation: Humid regions. 2010

H5508—Breeder and vendor: H.J. Heinz. Characteristics: Hybrid paste tomato, full season, very large semi-prostrate vine with good foliar cover, jointless 85 g blocky fruit. Resistances: Verticillium wilt race 1, Fusarium wilt race 1 and 2, nematodes, tomato spotted wilt virus, rot resistant (extended field storage). Adaptability: Arid regions. 2010

H5608—Breeder and vendor: H.J. Heinz. Characteristics: Hybrid paste tomato, full season, large prostrate vine with good foliar cover, jointless 100 g blocky-oval fruit (80 g). Resistances: Verticillium wilt race 1, Fusarium wilt race 1 and 2, nematodes, tomato spotted wilt virus. Adaptability: Arid regions. 2010

H7709—Breeder and vendor: H.J. Heinz. Characteristics: Hybrid peel/dice tomato with medium juice viscosity, full season, large semi-prostrate vine, jointless, 95 g blocky-oval shaped fruit.
Resistances: Verticillium wilt race 1, Fusarium wilt race 1 and 2, nematodes, bacterial speck. Adaptability: Arid regions. 2011

**H8004**—Breeder and vendor: H.J. Heinz. Characteristics: Hybrid peel/dice tomato with medium viscosity, full season, medium/large prostate vine with dense cover, elongated oval fruit. Resistances: Verticillium wilt race 1, Fusarium wilt race 1 and 2, nematodes, bacterial speck, rot resistant. Adaptability: Arid regions. 2006

**H8504**—Breeder and vendor: H.J. Heinz. Characteristics: Hybrid paste tomato, full season, medium/large prostate vine with excellent dense cover, blocky-oval shaped fruit. Resistances: Verticillium wilt race 1, Fusarium wilt race 1 and 2, nematodes, bacterial speck, and very rot resistant (extended field storage). Adaptability: Arid regions. 2006


**H9780**—Breeder and vendor: H.J. Heinz. Characteristics: Hybrid paste tomato suitable for peel/dice applications, full season, large, semi-prostrate vine with adequate fruit cover, blocky-shaped jointless 90-g fruit with high °Brix and good color. Resistances: Verticillium wilt race 1, Fusarium wilt race 1 and 2, nematodes, bacterial speck, rot resistant. Adaptability: arid climates. 2001

**H9881**—Breeder and vendor: H.J. Heinz. Characteristics: Hybrid peel/dice tomato with medium viscosity, early maturity (112 days), medium semi-prostrate vine with excellent setting, jointless 65 g round fruit. Resistances: Verticillium wilt race 1, Fusarium wilt race 1 and 2, nematodes, bacterial speck, rot resistant. 2000


**Indy**—Breeder and vendor: Syngenta Seeds, Inc./Rogers Brand. Characteristics: high-quality fruit are extra-large and large beef-type that have shown good flavor and color. Resistance: Fusarium wilt race 1, Fusarium wilt races 1 and 2, Verticillium wilt race 1, Fusarium wilt races 1, Verticillium wilt race 1, Adaptation: wide. 2012.

**Jolly Elf**—Breeder and vendor: Siegers Seed Company. Parentage: hybrid. Characteristics: grape tomato; grows on a 5-ft determinate plant; has extended market life on the plant and on the shelf; fruit have glossy red color; weighs between 8 and 15 g; have an average of 10% Brix. 2005

**Loreto** (PS 1830837)—Breeder and vendor: Seminis Vegetable Seeds–Petoseed. Parentage: F1 hybrid. Characteristics: indeterminate, fresh market saladette, vigorous plant, good set jointed pedicel, uniform green, very tall plants with excellent fruit coverage, constant set, fruits are uniform in shape, extra large size. Resistance: nematodes, Fusarium wilt race 1, alternaria stem canker, tomato mosaic virus, Verticillium wilt race 1. Similar: Tequila; Romana; Xena; Silvestre. Adaptation: Mexico, South America. 2002

**Majestad** (SSC 1020)—Breeder and vendor: Shamrock Seed Co. Parentage: F1 hybrid. Characteristics: strong determinate plant with good cover; firm and good sized fruit (110 to 120 g); bright red at maturity. Resistance: Verticillium wilt race 1, Fusarium wilt race 1 and 2, nematodes, bacterial speck. Similar: Rio Grande. Adaptation: all tomato growing regions. 2003


**Mariana**—Breeder and vendor: Sakata Seed America, Inc. Characteristics: Determinate saladelette, compact plant with large to extra-large, high quality fruit, high yield potential. Resistance: Verticillium wilt race 1, Fusarium wilt races 1 and 2, alternaria stem canker, gray leaf spot, nematodes. Adaptation: wide, staked and ground culture. 2002


**Mini Charm**—Breeder and vendor: D. Palmer Seed Co., Inc. Parentage: hybrid. Characteristics: indeterminate cherry/cocktail tomato; can be grown as an open field or greenhouse variety; may bear 20 to 60 fruit per cluster; bright red; good shelf-life; high sugar content and special flavor. 2005

**Miroma** (RFT 0992)—Breeder and vendor: Syngenta Seeds, Inc./Rogers Brand. Characteristics: raises the bar for determinate saladelette tomatoes in California’s San Joaquin Valley; in trials, this large, blocky, deep-red saladelette produced high yields of smooth, firm, principally extra-large and large fruit approximately 5 days earlier than Monica. 2005

**Monica**—Breeder and vendor: Sakata Seed America, Inc. Characteristics: Determinate saladelette, large, vigorous plant with large to extra large fruit, tapered, variable shape, deep red color. Resistance: Verticillium wilt race 1, Fusarium wilt races 1 and 2, alternaria stem canker, grey leaf spot, bacterial speck. Adaptation: wide, ground culture in California. 2000

**Monarca** (SSC 1454)—Vendor: Shamrock Seed Co. Parentage: F1 hybrid. Characteristics: high yielding and widely adapted Saladelette type; indeterminate plant with vigorous growth and thick, sturdy branches able to withstand pruning to one or two stems; uniform crop of large fruit weighing 3.5–4.5 ounces; oblong shaped fruit with uniform, red coloring; excellent shipping quality and a relatively long shelf life; 80–90 days relative maturity. Resistance: Verticillium wilt race 1, Fusarium wilt races 1 and 2, bacterial speck. Adaptation: tomato growing regions of Mexico. 2004


**Mountain Glory**—Breeder: North Carolina State University. Vendor: Rogers division of Syngenta. Parentage: F1 hybrid of NC 84173PVP × NC 58S. Characteristics: Fresh market type for vine ripe production, similar to Mountain Spring but TSFV resistant, medium tall determinate plant with slight foliage curl, concentrated set of extra large, very firm, highly crack resistant fruit with pinpoint blossom end scars. Resistance: Fusarium wilt races 1 and 2, Verticillium wilt race 1, tomato spotted wilt virus. 2007


Navidad—Breeder and vendor: Syngenta Seeds, Inc., Rogers Brand Vegetable Seeds. Characteristics: Navidad has shown to remain firm throughout the distribution chain and has the ability to maintain its shape during environmental stress. 2002.


Paragon—Breeder and vendor: Johnny’s Selected Seeds. Parentage: Hybrid. Characteristics: Paragon is the first organically grown hybrid tomato. This heavy-hitting, main crop shipper is popular with growers in the East and Midwest. It is a vigorous, 78-day determinate with a vine that produces a heavy set of large firm, good tasting globes. 2002.

Phoenix—Breeder and vendor: Seminis. Characteristics: F1 hybrid, fresh market, main season, hot-set, vigorous plant, good leaf cover, high fruit quality, firm, globe-shaped fruit, uniformly-colored, jointed pedicles, large to extra-large. Resistance: Verticillium wilt race 1, Fusarium wilt races 1 and 2, gray leaf spot, alternaria stem canker. Adaptation: Southeast US.

Picus—Breeder and vendor: Seminis. Characteristics: F1 hybrid, main season, determinate. Roma tomato, widely adapted, medium fruits, uniform color, cylindrical shape, deep-red color, excellent firmness, medium to large vigorous plant, good fruit cover, sets well in hot temperatures. Adaptation: widespread. Resistance: Verticillium wilt race 1, Fusarium wilt races 1 and 2, gray leaf spot, alternaria stem canker, TSVW


Red Grape—Breeder and vendor: D. Palmer Seed Co., Inc. Parentage: hybrid. Characteristics: indeterminate grape shaped tomato; good leaf cover; bright red fruit; excellent for bite-size eating; fruit are consistent and firm; one of the top varieties on the market today; can be grown in the open field or the greenhouse. 2005.


Scala (RS 1652297)—Breeder and vendor: Seminis Vegetable Seeds–Royal Sluis. Characteristics: medium size, medium to good firmness, round to high-round shape, internodes somewhat long, indeterminate vine, nice green to red color with good uniformity, strong plant, good coverage, large fruits (230 g), beautiful red color fruit when ripe. Resistance: Fusarium wilt races 1 and 2, tomato mosaic (strain 0–2), Verticillium wilt race 1, tomato yellow leaf curl virus. Similar: Danella. Adaptation: Brazil. 2002.


Traci (HA 3209) — Breeder and vendor: Hazera Seeds Inc. Characteristics: indeterminate beef tomato for greenhouse production; produces globe-shape fruit that weighs between 9 and 10 oz; mid-maturing tomato with high yields; firm fruit; intense red color. Resistance: Verticillium wilt race 1, Fusarium wilt races 1 and 2, tobacco mosaic virus, and tomato yellow leaf curl virus. 2005.


**TURNIP**

STG 6903 — Breeder: Sakata Seed. Vendor: Siegers Seed. Parentage: Hybrid. Characteristics: Tall hybrid turnip with heavy weight leaves that display very rapid and early regrowth. Its heavy leaves are very dark green, glossy, and smooth. It matures early with small short roots, and has good bolt resistance.

**WATERMELON**

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401 Seedless — Vendor: Seed Way. Parentage: Triploid. Characteristics: 85 days to maturity; 16–18 lb; round, oval; light green rind
with mottled dark green stripes; moderate resistance to Fusarium 1 and anthracnose 1; very strong vines and uniform yields. Adaptation: U.S. 2005.


Arriba!—Vendor: Hollar Seeds; Seedway. Parentage: hybrid diploid. Characteristics: 82 days to maturity; 11–12 kg; blocky oblong; light green rind with green stripes; bright to medium red fruit; tolerant to some races of Fusarium and anthracnose; similar to Royal Sweet. Adaptation: U.S. 2002.


Big Crimson—Vendor: Willgite. Parentage: open-pollinated. Characteristics: 85 days to maturity; 14 kg; round; small broken dark green stripes over light green rind; crimson red flesh; tolerant to A-1, F-1; crisp flesh; very sweet; long distance shipper. Adaptation: U.S. 2002.


Campche (SSC 1083)—Breeder: Qualiveg Seed Production. Vendor: Shamrock Seed Co. Parentage: F1 diploid hybrid. Characteristics: widely adapted; Allsweet rind pattern; vines with abundant foliage and broad leaves for fruit protection; fruit has an elongated shape with a 24-lb average weight (larger girth than standard Allsweet); bright red flesh and high sugars enhances its overall internal quality; matures in 80–90 days and offers high yields over a long season. Resistance: Fusarium wilt (race 1) and anthracnose. Similar: Sangria. Adaptation: all watermelon growing regions. 2002.


Carson—Vendor: Seed Way. Parentage: hybrid diploid. Characteristics: 85 days to maturity; 15–18 lb; elongated; medium green rind with dark green, broad mottled stripes; bright red flesh; fade resistant rind with large leaves; excellent pollinator; moderate resistance to Fusarium 0,1 and anthracnose. Adaptation: U.S. 2005.

Cha Cha Cha (SSC 31829)—Breeder and vendor: Shamrock Seed Co. Parentage: F1 triploid hybrid. Characteristics: seedless; consistent yield and quality over a wide range of production regions and growing conditions; strong vines produce oval shaped fruit weighing 17–19 lb; rind is dark green with narrow, light green stripes; fruit has very sweet, bright red flesh and excellent rind demarcation; 75 days from transplant to harvest. Resistance: none claimed. Similar: Summer Sweet 5244. Adaptation: U.S. 2003.


Cobb Gem—Vendor: Willhite; Gurney’s. Parentage: open-pollinated. Characteristics: 100 days to maturity; 59 kg; large; dark green rind with light green stripes; red flesh; show melons. Adaptation: U.S. 2002.


Constitution (SXW 3053)—Vendor: Stokes; Sunseeds. Parentage: hybrid triploid. Characteristics: 80 days to maturity; 7 kg; oval/round; dark green stripes on medium green background; dark red flesh; 12% sugar; tolerant to Fusarium race 1 and hollowheart. Adaptation: U.S. 2002.


CT Dollar 034—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 70 days to maturity; 6–8 kg; round; dark green rind; bright red flesh; 11% sugar; high yields; good shipper. Adaptation: U.S. 2002.

Daytona—Breeder and vendor: Sakata Seed America, Inc. Parentage: hybrid diploid. Characteristics: 83 days to maturity; very attractive All Sweet type; weighs 22 to 26 lb; oval; blocky, oblong; light green rind with wide, mottled, dark green stripes; bright red flesh and medium to small black seeds; heavy yielder; dark exterior. Adaptation: U.S. 2005.


Desert King—Vendor: Willhite; Gurney’s. Parentage: open-pollinated. Characteristics: 85 days to maturity; round to slightly oblong; light pea green rind; deep rich yellow flesh; will not sunburn; drought tolerant; tough enough to stand hauling well. Adaptation: U.S. 2002.


Dillon (HA-5005)—Breeder and vendor: Hazera Seeds. Parentage: F1 triploid hybrid. Characteristics: seedless; round to oval fruit shape; light-green rind with green stripes, and an average weight of 18 to 20 lb; uniform dark red flesh is very sweet. 2001.

Disko (EMR32)—Vendor: Johnny’s; Hazera. Parentage: hybrid triploid. Characteristics: 75 days to maturity; 7–12 kg; round oval; dark green cloudy wide stripes on light green; pink-red flesh; 11% sugar; tolerant to F1; excellent flavor. Adaptation: U.S. 2002.


fl; early maturing (84 days); has produced exceptional yields in open field production. Adaptation: U.S. 2005.

**Falcon**—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 70–75 days to maturity; 5–8 kg; round; light green rind with dark green stripes; bright red flesh; 12% sugar; firm sweet flesh; small seed. Adaptation: U.S. 2002.


**Fire Ball 203**—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 75 days to maturity; 5–7 kg; short oblong; green rind with stripes; red flesh; 12% sugar; vigorous; high fruit setting; very sweet. Adaptation: U.S. 2002.

**Firecracker**—Vendor: Orsetti Seed Co. Parentage: hybrid triploid. Characteristics: 83 days to maturity; round; globe shaped fruit; green rind with dark green stripes; brilliant crisp red flesh; 20–22 lb; 12% sugar content; excellent long distance shipper; adapted to southwestern US; seedless. Adaptation: U.S. 2005.

**First Class 748**—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 70–75 days to maturity; 5–8 kg; short oblong; light green rind with dark green stripes; red flesh; 13% sugar; uniform; crisp flesh; good shipper. Adaptation: U.S. 2002.

**Flamingo 310**—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 70–75 days to maturity; 5–7 kg; round; green rind with stripes; red flesh; 11% sugar; small seed. Adaptation: U.S. 2002.


**Florida Giant**—Characteristics: 14–23 kg; round; smooth thick rind, very dark with bluish cast; bright red flesh; 11% sugar. Adaptation: U.S. 2002.

**Force 347**—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 70 days to maturity; 3–5 kg; round; yellow rind; red flesh; 10% sugar; high yields; uniform; small seed. Adaptation: U.S. 2002.


**Frontier 747**—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 75–80 days to maturity; 6–9 kg; short oblong; light green rind with dark green stripes; red flesh; 12% sugar; high fruit set; very sweet crisp flesh. Adaptation: U.S. 2002.

**Funbell**—Vendor: Henry Field’s; Gurney’s. Characteristics: 85 days to maturity; 1–2 kg; round; dark green to yellow rind when ripe; red flesh. Adaptation: U.S. 2002.


**Glory**—Vendor: Taki Seed. Parentage: hybrid diploid. Characteristics: 45 days to maturity; 2–3 kg; light green rind with dark green thin stripes; bright rosy red flesh; 12% sugar; long distance transportation; recommended for subtropical areas. Adaptation: U.S. 2002.


**Ice Cream**—Vendor: Southern Exposure Seed Exchange. Characteristics: 82 days to maturity; 10-lb fruit; pale green rinds lined with green; pink-red flesh; not good shipper due to thin rind. Adaptation: U.S. 2002.

type; very dark, solid green rind; bright red flesh; fruit wt. 12–14 lb; mid-early maturity (82 days). Similar: Emerald. 2001.

**Imperial**—Vendor: Seed Way. Characteristics: 90 days to maturity; 8–13 kg; elongated; dark/light green sawtooth stripes; red flesh; tolerant to Fusarium. Adaptation: U.S. 2002.


**King of Hearts**—Vendor: PS Petoseed; DeWitt Seed; Gurney’s. Parentage: hybrid triploid. Characteristics: 80–85 days to maturity; 6–9 kg; blocky, slightly oblong; green with medium green stripes; bright red crisp sweet flesh; 11% sugar; tolerant to A-1; excellent shipper, bin or carton. Adaptation: U.S. 2002.


**Laurel**—Vendor: Seed Way; Siegers Seed Co; Takii Seed. Parentage: hybrid triploid. Characteristics: 90 days to maturity; 9–10 kg; oval; medium green dark stripes; brilliant red flesh; good for distance shipping. Adaptation: U.S. 2002.


**Liliput (SW1)**—Vendor: Hazera. Parentage: hybrid triploid. Characteristics: 70 days to maturity; 1.5–2.5 kg; oval; very dark green rind; red flesh; 11% sugar; adopted to high planting density. Adaptation: U.S. 2002.


**Master Piece 518**—Vendor: Chia Tai Co. Parentage: hybrid diploid. Characteristics: 55–60 days to maturity; 2–4 kg; high round; black rind; red flesh; 12% sugar; high yield. Adaptation: U.S. 2002.


**Mini Yellow**—Breeder and vendor: D. Palmer Seed Co., Inc. Parentage: hybrid. Characteristics: mini triploid watermelon with yellow flesh; perfect personalize watermelon; ideal for market displays with its attractive appearance and small size; high brix and great taste; features strong plant growth for sunburn protection; can be grown conventionally. Adaptation: U.S. 2005.


**Moon and Stars (Sun, Moon and Stars)**—Breeder and vendor: Peter Henderson and Co. Parentage: inbred line. Characteristics: elongate fruit; dark green rind with bright yellow spots on it due to the Sp Sp genotype; yellow spots on fruit range in size from tiny to several inches across; leaves also have yellow spots; sweet, red flesh; thick rind; brown seeds with black speckles; 95 days to maturity. Adaptation: U.S. 1926.


Octopus 335—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 70–75 days to maturity; 4–6 kg; round; black rind; red flesh; 11% sugar; sweet; good market seller. Adaptation: U.S. 2002.


Officer 764—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 70–75 days to maturity; 4–6 kg; round; green with stripes; bright red flesh; 12% sugar; firm flesh; small seeds; good shelf-life. Adaptation: U.S. 2002.


Olympic 825—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 70–75 days to maturity; 4–6 kg; round; black rind; red flesh; 11% sugar; high yields; small seed. Adaptation: U.S. 2002.

Omega 666—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 70–75 days to maturity; 6–8 kg; round; light green rind with dark green stripes; red flesh; 12% sugar; early; very sweet; good shipper. Adaptation: U.S. 2002.


Opal 189—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 80 days to maturity; 6–9 kg; oblong; dark green; bright red flesh; 11% sugar; disease tolerant; easy to grow. Adaptation: U.S. 2002.

Opera 755—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 70 days to maturity; 2–4 kg; short oblong; light green; deep red flesh; 11% sugar; early; sweet; good shipper. Adaptation: U.S. 2002.


Orchestra 541—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 80 days to maturity; 5–8 kg; oblong; light green rind; bright red flesh; 11% sugar; uniform; crisp flesh; good shipper. Adaptation: U.S. 2002.


Orloff 085—Vendor: Chia Tai Company. Parentage: hybrid triploid. Characteristics: 80 days to maturity; 4–6 kg; round; dark green-black rind; bright red flesh; 13% sugar; vigorous; disease tolerant; very sweet. Adaptation: U.S. 2002.


Oxford 190—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 80 days to maturity; 6–9 kg; oblong; dark green rind with stripes; bright red flesh; 12% sugar; very vigorous; firm sweet flesh. Adaptation: U.S. 2002.

Paladin—Vendor: Seed Way; Sakata. Parentage: hybrid diploid. Characteristics: 80 days to maturity; 11 kg; blocky; light rind with dark striped skin—red flesh; tolerant to AN1 and Anf, FW(R); suitable for shipping. Adaptation: U.S. 2002.

Paradise—Vendor: Chesmore Seed Co; Harris Seeds; Harris Moran Seed Co. Parentage: hybrid diploid. Characteristics: 80 days to maturity; 9 kg; blocky; striped; bright red flesh; tolerant to Fw1, An1; early market deliveries. Adaptation: U.S. 2002.


Patriot—Vendor: Willhite; DeWitt Seed; Abbott & Cobb; Siegers Seed Co. Parentage: hybrid diploid. Characteristics: 80–85 days to maturity; 10–12 kg; cylindrical; light green rind with wide medium green stripes; red flesh; tolerant to Fusarium wilt; excellent shipper. Adaptation: U.S. 2002.

Peacock Improved—Vendor: PS Petoseed; Chesmore Seed Co. Parentage: open-pollinated. Characteristics: 90 days to maturity; 9–11 kg; oblong; uniform, dark green tough rind; red flesh; used in Arizona, California; Mexico; long distance shipping. Adaptation: U.S. 2002.


Plantation Pride—Breeder and vendor: D. Palmer Seed Co., Inc. Characteristics: a diploid watermelon that makes an excellent pollinator in seedless production fields; weighing between 23 and 25 lb, this hybrid melon features a dark rind with light yellow stripes; seeds are small; lightly fibered flesh and strong rind. Adaptation: U.S. 2002.


QWD 380—Breeder and vendor: Sutter Seeds LLC. Characteristics: diploid type quickly yields 25- to 30-lb melons with attractive red flesh within a rind that resists sunburning; works well as a pollinator and a main crop. 2001.

QWT 443—Breeder and vendor: Sutter Seeds LLC. Parentage: F1 triploid hybrid. Characteristics: seedless; high yield; elongated blocky shape with deep red flesh within a rind that resists sunburning; fruit are 20 lb 2001.

Raptor 515—Vendor: Chia Tai Company. Parentage: hybrid diploid. Characteristics: 55–60 days to maturity; 3–4 kg; high round; green rind with stripes; dark red flesh; 14% sugar; high yield; very sweet. Adaptation: U.S. 2002.


Regency—Vendor: PS Petoseed; Twilley; Seed Way; DeWitt Seed; Siegers Seed Co. Parentage: hybrid diploid. Characteristics: 83 days to maturity; 8–10 kg; oblong; with medium green stripes; brilliant red firm flesh; tolerant to A-1, F-1; early shipper for markets needing slightly smaller size; good carton pack. Adaptation: U.S. 2002.


Revolution—Breeder and vendor: Sunseeds Co. Parentage: F1 triploid hybrid. Characteristics: elongated variety; deep red interior color; high sugar content; attractive outer appearance; good shipping ability; improved shelflife; blocky, All-sweet type with wide, dark-green stripes; mid-season maturity (84 days); attractive red flesh; small seed traces; weights in at 18 to 22 lb. Resistance: resists hollow heart; resistant/tolerant to Fusarium wilt race 1. Adaptation: U.S. 2005.


Royal Star—Vendor: PS Petoseed; Seed Way; DeWitt Seed; Stokes; Siegers Seed Co. Parentage: hybrid diploid. Characteristics: 84 days to maturity; 9–12 kg; oblong; green rind with medium green stripes; bright red crisp flesh; tolerant to F1; early vigorous hybrid; good shipper. Adaptation: U.S. 2002.

Royal Sweet—Vendor: PS Petoseed; Seed Way; DeWitt Seed; Stokes; Siegers Seed Co. Parentage: hybrid diploid. Characteristics: 85 days to maturity; 9–11 kg; oblong; green rind with medium green stripes; bright red crisp flesh; 12% sugar; tolerant to A-1, F-1; early; good shipper; vigorous hybrid. Adaptation: U.S. 2002.


Royal Jubilee—Vendor: PS Petoseed; Twilley; Seed Way; DeWitt Seed; Siegers Seed Co. Parentage: hybrid diploid. Characteristics: 95 days to maturity; 11–14 kg; elongated; light green rind with dark green stripes; bright red crisp flesh; tolerant to A-1, F-1; shipping variety; tough rind. Adaptation: U.S. 2002.

Ruby.—Breeder and vendor: Hollar Seeds. Parentage: hybrid triploid. Characteristics: 85 days to maturity; seedless watermelon; bright stripes don’t fade; highest quality bright red flesh; ships and stores well; sugar content is consistently high; weighs about 15 lb; tested and approved in several international markets. Resistance: Fusarium wilt, anthracnose. Adaptation: U.S. 2005.


San Juan.—Vendor: Native Seeds. Parentage: open-pollinated. Characteristics: 0.5–5 kg; round; from light green to dark green with stripes; yellow to red flesh; edible seeds; fruits sweet; productive. Adaptation: U.S. 2002.

Sapphire.—Vendor: Hollar Seeds. Parentage: hybrid triploid. Characteristics: 90 days to maturity; 8–10 kg; globular; dark green stripes on light green; medium red; 12% sugar; some tolerance to anthracnose; similar to Tri-X313. Adaptation: U.S. 2002.

Sapphire 182.—Vendor: Chia Tai Company. Parentage: hybrid triploid. Characteristics: 70 days to maturity; 1 kg; round; light green rind with dark green stripes; yellow flesh; 12% sugar; early; very sweet; good shipper. Adaptation: U.S. 2002.


Sterling.—Vendor: Hollar Seeds; Seed Way. Parentage: hybrid triploid. Characteristics: 97 days to maturity; 9–12 kg; blocky oblong; dark green thin stripes on light green rind; deep red flesh; 11% sugar; some tolerance to Fusarium wilt and anthracnose; unique. Adaptation: U.S. 2002.


Sugarheart.—Breeder and vendor: Siegers Seed Company. Characteristics: triploid crimson sweet watermelon; oval; bright red flesh; excellent uniformity; outstanding internal and external quality; high yields; fruit weigh between 16 and 20 lb; matures in about 85 days from transplant. Resistance: tolerant to hollow heart. Adaptation: widely adapted. 2005.

Summer Flavor #400.—Vendor: Twilley; Abbott & Cobb. Parentage: hybrid diploid. Characteristics: 85 days to maturity; 11 kg; blocky oblong; medium green broad dark stripes; bright red flesh; long and short distance shipping; fresh market home garden. Adaptation: U.S. 2002.

Summer Flavor #420.—Vendor: Twilley; Abbott & Cobb. Parentage: hybrid diploid. Characteristics: 87 days to maturity; 10–11 kg; blocky oblong; medium green broad dark stripes; bright red flesh; 11% sugar; long and short distance shipping; fresh market home garden. Adaptation: U.S. 2002.

Summer Flavor #500.—Vendor: Twilley; Abbott & Cobb. Parentage: hybrid diploid. Characteristics: 88 days to maturity; 11–14 kg; blocky oblong; medium green broad dark stripes; bright red flesh; 12% sugar; long and short distance shipping; fresh market home garden. Adaptation: U.S. 2002.

Summer Flavor #510.—Vendor: Twilley; Abbott & Cobb. Parentage: hybrid diploid. Characteristics: 84 days to maturity; 11 kg; oblong; medium green broad dark stripes; deep red flesh; 11% sugar; long and short distance shipping; fresh market home garden. Adaptation: U.S. 2002.

Summer Flavor #700.—Vendor: Twilley; Abbott & Cobb. Parentage: hybrid diploid. Characteristics: 85 days to maturity; 10–13 kg; blocky oblong; light green narrow dark stripes; bright red flesh; excellent uniformity; outstanding internal and external quality; long and short distance shipping; fresh market home garden. Adaptation: U.S. 2002.

Summer Flavor #710.—Breeder and vendor: Otis S. Twilley. Parentage: F1 diploid hybrid. Characteristics: fruit size large, 30 lb; fruit are blocky to oblong, maturing in approximately 85 days; plants medium size, with very strong vines; light green narrow dark stripes; bright red flesh; 10% sugar. Resistance: Fusarium race 1 and anthracnose race 1. Adaptation: U.S. 2002.


Summer Flavor #800.—Vendor: Twilley; Abbott & Cobb. Parentage: hybrid diploid. Characteristics: 87 days to maturity;
10–12 kg; blocky oblong; dark green striping; deep red flesh; 12% sugar. Adaptation: U.S. 2002.


**Summer Rich**—Vendor: Takii Seed. Parentage: hybrid diploid. Characteristics: 38 days to maturity; 0.5 kg; oval; yellow rind; pink-red flesh; 11% sugar; not a good transporter. Adaptation: U.S. 2002.

**Summer Sweet #3731**—Vendor: Abbott & Cobb. Parentage: hybrid diploid. Characteristics: 90 days to maturity; 6–9 kg; oval; medium red flesh; 11% sugar; disease tolerant; high quality shipper. Adaptation: U.S. 2002.

**Summer Sweet 5244**—Breeder and vendor: Abbott & Cobb. Parentage: F1 hybrid diploid. Characteristics: seedless fruit weigh 14 to 18 lb, with dark-green striping and limited light green background; fruit are oblong with bright-red flesh; mature in 90 days; good vigor; consistent yields; 12% sugar; high quality shipper. Resistance: Anthracnose race 1. Adaptation: U.S. 2001.


**Sun, Moon and Stars (Moon and Stars)**—Parentage: inbred line. Characteristics: elongate fruit; dark green rind with bright yellow spots on it due to the Sp Sp genotype; yellow spots on fruit range in size from tiny to several inches across; leaves also have yellow spots; sweet, red flesh; thick rind; brown seeds with black speckles; 95 days to maturity. Adaptation: U.S.


**Sunny**—Vendor: Willhite. Parentage: hybrid triploid. Characteristics: 85 days to maturity; 16–20 lb; yellow gold flesh; very sweet taste; striped rind similar to Allsweet; round oval shape; tolerant to Fusarium wilt. Adaptation: U.S. 2002.


**Super Seedless #7167**—Breeder and vendor: Abbott & Cobb Inc. Characteristics: dark green background; medium green striping; offers potential for superior field performance over conventional seedless watermelon varieties; tests show this variety has more vigor, vine development, fruit set, better fruit quality, and the highest yield potential available in a seedless-type watermelon. Resistance: Anthracnose 1. Adaptation: U.S. 2005.


**Supercool**—Vendor: Ultimate Seeds Inc. Parentage: hybrid triploid. Characteristics: 83 days to maturity; 8–11 kg; round to slightly oblong; medium green rind with darker green striping; deep red flesh; consistent performer with high commercial potential. Adaptation: U.S. 2002.


**SuperSweet #5244**—Vendor: Twilley; Abbott & Cobb. Parentage: hybrid triploid. Characteristics: 90 days to maturity; 6–8 kg; oblong; light green rind with dark green stripe; brith red flesh, fine and crisp, no seed; fresh market. Adaptation: U.S. 2002.


**SW-6008**—Vendor: Hazera. Parentage: hybrid triploid. Characteristics: 75 days to maturity; 1.5–2.5 kg; round; dark green rind with lighter green striping; red flesh; adapted to high planting density. Adaptation: U.S. 2002.


**Sweet Boy 176**—Vendor: Chia Tai Co. Parentage: hybrid diploid. Characteristics: 80 days to maturity; 7–9 kg; oblong; dark green; light red flesh; 11% sugar; fast growing; disease tolerant. Adaptation: U.S. 2002.

**Sweet Caroline Improved**—Vendor: D. Palmer Seed Co. Parentage: hybrid triploid. Characteristics: 90 days to maturity; light green rind with dark green mottled striping; bright red flesh; very sweet; good shipper; tolerant to Fusarium wilt and anthracnose; seedless; high yielding potential. Adaptation: U.S. 2002.

**Sweet Delight**—Breeder and vendor: Syngenta Seeds, Inc./Rogers Brand. Parentage: hybrid triploid. Characteristics: 86 days to maturity; 17–20 lb; fruit was consistently from 2 to 3 lb larger than TRI-X® Brand 313 types; light green rind with mottled dark green stripes; fruit are oval in shape with bright red flesh color and excellent uniformity of fruit shape; very good fruit set. Similar: TRI-X® Brand 313. Adaptation: U.S. 2005.

**Sweet Dream 758**—Vendor: Chia Tai Co. Parentage: hybrid diploid. Characteristics: 70–75 days to maturity; 4–6 kg; round;
green with stripes; bright red flesh; 11% sugar; vigorous; uniform; high fruit setting. Adaptation: U.S. 2002.


**Sweet Favorite**—Vendor: Twilley; Johnny’s; Stokes; Henry Fields; Sakata. Parentage: hybrid diploid. Characteristics: 82 days to maturity; 9 kg; oblong; dark and light green striped; red flesh; big yields; short distance shipping; fresh market; home garden. Adaptation: U.S. 2002.

**Sweet Girl 175**—Vendor: Chia Tai Co. Characteristics: 75 days to maturity; 1–2 kg; short oblong; light green rind; bright red flesh; 12% sugar; good shipper. Adaptation: U.S. 2002.

**Sweet Marvel**—Vendor: Takii Seed. Parentage: hybrid diploid. Characteristics: 45 days to maturity; 1 kg; globe; dark green with black-green stripes; pink-red flesh; 12% sugar; high tolerant to A, F, leaf blight, and downy mildew; good transporter. Adaptation: U.S. 2002.


**Tiger Baby**—Vendor: PS Petoseed; Twilley; Seed Way; Stokes; Park Seed. Parentage: hybrid diploid. Characteristics: 80 days to maturity; 3–5 kg; round to slightly oval; dark green stripes on gray-green; pinkish-red dense sweet flesh; 12% sugar; tolerant to A-1, F-1; uniform; excellent fruit holding and shipping. Adaptation: U.S. 2002.


**Tom 004**—Vendor: Chia Tai. Parentage: hybrid diploid. Characteristics: 55–60 days to maturity; 4–6 kg; oblong; black rind; dark red flesh; 12% sugar; very sweet. Adaptation: U.S. 2002.

**Tong 810**—Vendor: Chia Tai. Parentage: hybrid diploid. Characteristics: 70–75 days to maturity; 3–5 kg; elongated; yellow rind; red flesh; 11% sugar; disease tolerant; uniform; small seed. Adaptation: U.S. 2002.


**Top Gun**—Vendor: Syngenta. Parentage: hybrid diploid. Characteristics: 83 days to maturity; 21–24 lb; globe; medium green rind with broad, medium dark green stripes; bright red flesh; tolerant to A(t), F(T); excellent seedling vigor. Adaptation: U.S. 2005.


**TRI-X® Brand Palomar**—Breeder and vendor: Syngenta Seeds, Inc./Rogers Brand. Parentage: hybrid triploid. Characteristics: 88 days to maturity; 6–8 kg; round; medium green rind with narrow dark stripes; firm, crisp, solid flesh is bright-red in color and is wrapped with a unique rind pattern which can be identified by growers and consumers; 11% sugar; excellent yield potential with high fruit setting ability and improved fruit arrivals due to the firm flesh. Resistance: tolerant to Fusarium race 1. Adaptation: U.S. 2005.


**Tri-X Shadow**—Parentage: hybrid triploid. Characteristics: late main season; 6–7 kg; round to oval; green rind with dark green stripes; red flesh; 11% sugar; excellent shipper. Adaptation: U.S. 2002.


Wonder (HA 5109)—Breeder and vendor: Siegers Seed Company. Characteristics: sweet mini triploid watermelon that delivers uniform size with consistently firm, high-quality flesh; ideal rind thickness; good yields; dark-green rind, round shape, weighs only 3 1/2 to 5 1/2 lb. Adaptation: U.S. 2005.


Young Beauty 1000—Vendor: Chia Tai Co. Characteristics: 35–40 days to maturity; 0.12 kg; high round; green rind. Adaptation: U.S. 2002.

Young Boy 1001—Vendor: Chia Tai Co. Characteristics: 40–45 days to maturity; 0.3 kg; high round; green rind. Adaptation: U.S. 2002.

Young Girl 1002—Vendor: Chia Tai Co. Characteristics: 35–40 days to maturity; 0.12 kg; oval; light green rind with dark stripes. Adaptation: U.S. 2002.