

# VEGETABLE

## CATALOG



**SAKATA®**

QUALITY • RELIABILITY • SERVICE



**SAKATA**<sup>®</sup>



GET STARTED WITH

# CEA

OUR QUICK-START  
GUIDE TO  
TOP  
VARIETIES



**ASTRO**  
ARUGULA



**FRESH START**  
BEET



**FLASH**  
COLLARD



**BLUE RIDGE**  
KALE



**IMPROVED DWARF**  
SIBERIAN KALE



**CIELO VERDE**  
LETTUCE



**HITCHHIKER**  
LETTUCE



**RED TIDE**  
LETTUCE



**MIZ AMERICA**  
MUSTARD



**JOI CHOI**  
PAK CHOI

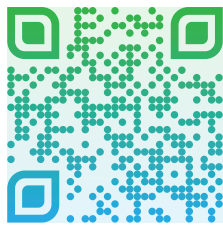


**SAVANNA**  
SPINACH MUSTARD



**FIRE FRESH**  
SWISS CHARD

SCAN  
HERE



TO VISIT OUR  
COMPLETE  
PRODUCT CATALOG



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# Turning a New Leaf in Genetic Breakthroughs

Our baby leaf program offers an array of choices including arugula, beet, cabbage, spinach, and Swiss chard. All are bred with the grower top of mind, and offer disease resistance, excellent yield, and high quality. When it comes to baby leaf, Sakata delivers reliable performance and market versatility. Get the Sakata advantage with our diverse baby leaf product line that delivers quality and performance all in one package!

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**Ruby Fresh** SWISS CHARD



PG. 92

**Silverado** SWISS CHARD

NEW

## Borealis

FRESH / BUNCH / PROCESSING / STORAGE / MATURE

Borealis is our newest beet offering an excellent disease package with intermediate resistance to rhizomania (BNYVV) and rhizoctonia (Rs). This beet has great root uniformity and good internal root quality with high sugar content and deep red color. It's ideal for many regions, showing consistent performance across climates and soil types. Borealis maintains Brix levels during storage and under rhizomania infection.

- Processing-type hybrid with IR resistance to Rhizomania and Rhizoctonia
- Uniform globe-shaped roots
- Red interior and exterior



## Falcon

MATURE

Falcon is an excellent choice for growers looking for a heat tolerant beet variety. It is a moderate to fast growing variety that forms a large globe to blocky root. It has medium dark red exterior and interior color. It has a nice small tap root and a medium crown attachment. Falcon can be used for processors, fresh market growers, and home gardeners.

- Heat tolerant—perfect for hotter growing conditions
- Vigorous growing
- Large blocky-shaped roots



## Merlin

BABY LEAF / MATURE

Merlin offers higher sugar content (12-15%) in comparison to standard beet varieties. Due to its high sugar content, it is a perfect choice for processors, fresh market growers or home gardeners. Merlin has smooth, red, globe-shaped roots with small-medium crowns and tap roots. Good storage and field holding ability. Organic and non-organic seeds available. 🌱

- Very good flavor, high Brix
- Nice red globe-shaped roots
- Great for processing and fresh markets
- Intermediate resistance to Cercospora



## Touchstone Gold

MATURE

Touchstone Gold has vibrant yellow to golden, smooth, globe-shaped roots. It has medium-sized crowns and tap roots. This variety is mid to late maturing. Touchstone Gold's roots have little to no zoning. It has a mild, sweet flavor that is delicious. Suitable for fresh market growers and home gardeners. Organic and non-organic seeds are available. 🌱

- Vibrant yellow internal color
- Mild sweet flavor

NEW

## Gemini

FRESH / BUNCH / PROCESSING / MATURE / ROOT


Gemini is a new commercial variety, selected for its excellent root quality. Gemini is ideal for the fresh market with its smooth, uniform globe-shaped root, that is dark red in color. Performs well in cool and warm humid areas.

- Excellent root uniformity for greater yield
- Appealing root quality with dark red color
- Smooth skin and well-defined shoulders



## Chioggia Guardsmark

MATURE

Chioggia Guardsmark offers a unique vivid purple and white interior zoning, along with a mild sweet flavor. This beet is appealing to the fresh market, specialty growers and home gardeners. The roots have a flattened-globe shape, a medium-sized crown and a medium-sized tap root. Organic and non-organic seeds available. 

- Heirloom variety with good flavor
- Internal root color white with purple rings
- Attractive variety for fresh markets



## Detroit Supreme

BABY LEAF / MATURE

Detroit Supreme offers many improved plant characteristics over traditional Detroit types. It has a smooth, dark red, globe shaped root with tall tops. It has a refined medium sized crown and tap root. Detroit Supreme is a multi-use variety that can be used for processing, fresh markets, and home gardens.

- Improved root characteristics
- Tall strong tops



## Early Wonder Tall Top

BABY LEAF / MATURE

Early Wonder Tall Top is an early-mid maturing beet variety. It has red top-shaped roots with medium-sized crowns and taproots. Early Wonder Tall Top has strong, green tops that result in easy harvesting. Its uses include processing, fresh market, home garden, or tops for baby leaf markets.

- Nice large top-shaped roots
- Strong tall tops
- Perfect for fresh market or home gardeners

## Azuma

**BUNCH / FRESH / MATURE / PROCESSING / ROOT**

Azuma is characterized by its attractive dark red exterior, smooth skin, and globe shape. It has a semi-upright plant habit, matures early and is quick to round out. Azuma is heat tolerant and performs best under warmer weather conditions in the summer slot. Excels in drier growing conditions and low fertility soils.

- Attractive dark red color, smooth skin, and globe shape
- New variety with improved horticultural traits for the fresh and processing markets
- Thrives best in our trials in warmer growing conditions in summer slot



## Bull's Blood

**BABY LEAF / MATURE**

Bull's Blood is an English heirloom variety characterized by its deep reddish-purple leaf color. Tops make an elegant addition to salads when harvested young at the baby leaf stage. It exhibits its best color under cool weather conditions. Organic and non-organic seeds available. 🌱

- Heirloom variety
- For fresh market and home garden
- Dark red foliage is great for spring mixes



## Fresh Pak

**BABY LEAF / MATURE**

Fresh Pak is a perfect choice for baby leaf and spring mix growers. It has nice dark green leaves paired with dark red petioles that make it stand out. Fresh Pak has a well-defined veination that runs throughout the leaf. It is a slow to moderate growing variety. Fresh Pak has HR: Pfb and IR: Cb disease resistance.

- Dark green leaves
- Dark red petioles
- Slow to moderate growing
- Excellent veination



## Fresh Start

**BABY LEAF**

Fresh Start is a fast-growing baby leaf variety. It has medium-dark red petioles with well-defined veins and medium-dark green leaves that are very appealing. Fresh Start can be used for baby leaf or spring mix. It is a versatile product. Disease resistance HR: Pfb.

- Dark red petiole
- Well-defined veins
- U.S. Patent Number 9,198,364





## Red Ace

### MATURE

Red Ace's wide adaptability and high yield potential have made it an industry leader. Red Ace is known for its uniform, smooth top-shaped roots, heavy yields and consistent performance. Organic and non-organic seeds available. 🌱

- Widely adapted and uniform
- Organic and non-organic seeds available



## Kestrel

### SPECIALTY / FRESH / BUNCH / PROCESSING / BABY LEAF

Kestrel's hybrid vigor leads to an early, uniform plant stand. Its ability to develop a round shape at an early stage makes it an excellent candidate for baby beet production. This variety can also be stored for extended periods of time when harvested at full maturity.

- Good storage variety
- Can be used for baby beet production



## Vulture

### MULTI USE


Vulture has an unique half-long cylindrical shape that results in high yields. This variety has dark red, smooth roots with little to no zoning. Vulture has small crowns and small tap roots. In addition, Vulture has good flavor in comparison to other cylindrical beet varieties.

- Half long cylindrical
- Good flavor
- Excellent yields
- Intermediate resistance to Cercospora

## AT-A-GLANCE CHART

VARIETY	TYPE	DAYS TO MATURITY*	INTERIOR COLOR / ROOT SHAPE	CROWN & TAP ROOT SIZE	TOP HEIGHT	LEAF COLOR	DISEASE RESISTANCE	USES & REMARKS
<b>Azuma</b>	Mature	85-90	Deep red / Globe	Medium	Medium-tall	Green		Thrives best in our trials in warmer growing conditions in summer slot
<b>Borealis <i>New!</i></b>	Mature	85-90	Deep red / Globe	Medium	Medium-tall	Dark green	IR: BNYVV IR: Rs	Processing-type hybrid with IR resistance to Rhizomania and Rhizoctonia
<b>Bull's Blood</b> 	Micro / Baby Leaf	16-19 / 28-32	Bright red / Top	Medium-large	Medium-tall	Dark red		Great variety for home garden.
<b>Chioggia Guardsmark</b> 	Mature	85-90	Purple & white zoning / Flat Egyptian	Medium-large	Medium	Light green		A perfect variety for fresh market, home garden and specialty markets.
<b>Detroit Supreme</b> 	Micro / Mature	13-16 / 85-90	Deep red / Globe	Medium	Medium	Green		Great for fresh markets and home gardeners due to its dark red colored roots.
<b>Early Wonder Tall Top</b> 	Micro / Baby Leaf / Mature	16-19 / 25-28 / 90-95	Bright red / Top	Medium-large	Tall	Green		A staple variety among home gardeners and great for fresh markets.
<b>Falcon</b>	Mature	80-85	Deep red / Globe to blocky	Medium	Tall	Green		Falcon is an excellent choice for growers looking for a heat tolerant beet variety.
<b>Fresh Pak</b>	Indoor BL / Baby Leaf	23-26 / 28-32	–	–	–	Dark green	HR: Pfb IR: Cb	Nice dark green leaves make it very attractive for spring mix growers.
<b>Fresh Start</b>	Indoor BL / Baby Leaf	23-26 / 25-35	–	–	–	Dark green	HR: Pfb	A faster growing baby leaf variety with a good disease package.
<b>Gemini <i>New!</i></b>	Mature	80-85	Deep red / Globe	Medium	Medium-tall	Dark green		Deeper color and nice exterior for the fresh market.
<b>Kestrel</b>	Baby Leaf / Mature	23-26 / 85-90	Deep red / Globe blocky	Medium-large	Medium-tall	Green		Larger roots and great interior make it well suited for processing and fresh markets.
<b>Merlin</b>	Baby Leaf / Mature	25-26 / 85-90	Red / Globe	Small-medium	Medium	Green		High sugar content make this an excellent choice for processing, fresh markets, home gardeners and specialty markets.
<b>Red Ace</b>	Micro / Baby Leaf / Mature	13-16 / 20-23 / 80-85	Deep red / Top	Small-medium	Medium	Green		An industry standard among processing and fresh markets for its adaptability, refined crowns and tap roots.
<b>Touchstone Gold</b> 	Micro / Baby Leaf / Mature	19-23 / 27-30 / 85-90	Yellow to golden / Globe	Medium-large	Medium	Light green	IR: Cb	Golden-yellow roots make this an excellent choice for fresh markets, home gardeners and specialty markets.
<b>Vulture</b>	Baby Leaf / Mature	23-26 / 85-90	Deep red / Cylindrical and blocky	Small-medium	Medium	Dark green	IR: Cb	Half-long cylindrical roots perfect for processing, fresh markets and specialty markets. Higher yields.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance. Disease code: BNYVV - Rhizomania, Cb - Cercospora leaf spot, Pfb - Downy mildew, Rs - Rhizoctonia.

\* Days to Relative Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.  = Open Pollinated.



## SAKATA BROCCOLI

Sakata is the undisputed leader in breeding and producing broccoli seed. Our extensive commitment to research spans more than 50 years, and has resulted in products that can thrive year round in variable conditions, more economically, more sustainably, and more efficiently.

At Sakata, we develop broccoli varieties that can thrive in virtually every region and across variable climates. Our hybrids are developed to meet growers' specific needs with varieties that offer high heat tolerance and strong post-harvest color retention.

NEW

## Appalachian

### CROWN CUT / SHORT TRIM

Appalachian (SBC7318) is an exciting new variety that has been added to the Sakata broccoli portfolio. It produces beautiful crown and short trim product and performs well in the Northeast and mid-Atlantic regions. It is also in trial in the Southeast.

- Mid maturity
- Crown cut and short trim variety



## Empire

### CROWN CUT / SHORT TRIM

Empire is a new addition to the Sakata portfolio. Its high, smooth domed, heavy heads make it an excellent choice for the crown cut/short trim markets. Mid-late maturity. Blind plant tolerant.

- Crown cut/short trim type
- Blind plant tolerant
- Cool season type



## Kingdom

### MULTI-USE

Kingdom (SBC6317) is an excellent choice for growers needing early maturity and has very good crown quality for a faster variety. Kingdom has a good domed shape and can be multi-use. Performs extremely well in the Mid-Atlantic states, Northeast and the Desert Southwest.

- Early maturity
- Multi-use variety



## Eastern Crown

### CROWN CUT / SHORT TRIM

Eastern Crown is an outstanding variety for the East Coast. Some highlights of this variety include small beads, blue-green head color and excellent heat tolerance. Eastern Crown is perfect for the crown cut/short trim market.

- Performs well in long day length and moderate heat
- For crown cut and short trim

NEW

## Purple Magic

### MAIN SEASON

Introducing our AAS winner, Purple Magic, the first purple stem, purple headed broccoli in the world!

The large, dome-shaped heads weigh in at about one pound each. Purple Magic is very high in anthocyanin (a plant-based chemical called a flavonoid) and nutritious. Anthocyanin is thought to be useful in preventing cancer and inflammation. The plants grow well in all regions of the US and mature about 90 days harvest from transplant.

- Purple head and stem
- AAS Winner
- Well adapted
- Very nutritious



## Diamante

### BROCCOLI: CROWN CUT / PROCESSING

Diamante is an excellent choice for crown and processing markets (both fresh and frozen). High yields of semi-domed, small-beaded, blue-green colored heads on large-framed plants can be realized with this exceptional variety. Diamante prefers warm to warm and warm to cool growing conditions and has shown very strong post-harvest color retention.

- Excellent variety for crown cut and processing
- Exceptional post-harvest color retention
- Domed, small beaded



## Imperial

### BROCCOLI: MULTI-USE

Imperial performs best during long day conditions with moderate heat and is mid to mid-late maturing under these conditions. This variety has a tight dome with nice, small dark green beads. Imperial is a multi-use variety, performing well for bunch, crown cut and processing, and has excellent post-harvest shelf life, too!

- Performs well in long day length and moderate heat conditions
- Good for crown cut and processing
- U.S. Patent Number 7,256,328; RE41,114



## Millennium

### BROCCOLI: CROWN CUT / SHORT TRIM

Millennium is a highly adaptable, crown cut type yielding high-domed heads with very small beads and exceptionally uniform head maturity. It has a round shape, good heat tolerance and less side shoots. Millennium is anthocyanin-free and has shown strong post-harvest color retention. It is adaptable to many production areas, including Salinas Valley, San Joaquin Valley, Santa Maria, Yuma, Northeast and Mexico, and works well in warm to cool, cool to warm and warm to warm regions.

- Excellent for crown cut and short trim
- High domed, fine beaded
- Anthocyanin free (will not purple)

## Avenger

### CROWN CUT / PROCESSING

Avenger is an excellent choice for the crown cut and processing markets. It offers dome-shaped, tight, heavy, blue-green heads with short bracts, thick stems and very small beads. This variety has wide adaptability performing well in the U.S., Mexico and Guatemala.

- High percentage of crown cuts
- Good holding ability
- Excellent for processing



## Dynasty

### BUNCH / CROWN CUT

Dynasty is a mid-late maturing broccoli variety with smaller, lower leaf attachments to aid with ease of harvests. Dynasty has a medium plant size with smooth, well dome-shaped, medium green heads that are anthocyanin free. A standout feature of this variety is uniformity of harvest in numerous trials.

- Harvest uniformity
- Head quality
- Anthocyanin free



## Emerald Star

### CROWN CUT / SHORT TRIM

Emerald Star is a very tight-headed, fine-beaded, blue-green colored, crown cut/short trim variety with nice uniformity. The trim is fairly easy for the type due to small leaf attachments. The variety performs best in cool to warm and warm to cool seasons.

- Crown cut/short trim
- Fine-beaded, round shape
- Very firm heads



## Godzilla

### MULTI-USE

Godzilla is a unique broccoli offering from Sakata. Godzilla forms very heavy, small-beaded heads in combination with a mid-high head position. Leaf attachments are small and lower on the stem, allowing for quick trimming and easier harvest. Heads are fine-beaded and have very heavy florets.

- Heavy headed
- Mid-high head position for easier harvest
- Excellent florets





## Centennial

### MULTI-USE

Centennial is an industry standard in the fall and overwinter slots in Central California. Centennial has small beads, smooth heads and minimal sideshoots. This multi-use variety performs well in all Marathon slots and can be grown year-round in cool coastal growing regions.

- A heavy-headed and small-beaded variety
- Can be multi-use in many regions
- Can be grown year round in cool coastal regions



## Emerald Crown

### CROWN CUT / SHORT TRIM

Emerald Crown is a medium-maturing, very uniform, heavy-headed, domed variety with small beads on a small-framed plant. Emerald Crown's growing season is warm to cool (not for rainy season). Emerald Crown can extend the Green Magic slot into cold due to its resistance to purpling. This variety produces excellent quality crown cuts/short trim in all NAFTA regions.

- Produces excellent quality crown cuts/short trim in all NAFTA regions
- Highly resistant to purpling
- U.S. Patent Number 7,256,328; RE41,114



## Green Gold

### CROWN CUT / SHORT TRIM

Green Gold is tight, smooth, heavy, domed, and fine-beaded with a medium-green color. This mid-late maturing variety has excellent uniformity and performs well in the Desert Southwest Greenbelt slot. Green Gold is a premium choice for crown cut/short trim markets.

- Excellent harvest uniformity



## Emerald Jewel

### MULTI-USE

Emerald Jewel is a small-beaded, smooth-headed, clean-stemmed, multi-use variety that is especially suited for crown cut. This is a beautiful variety; however, the maturity can be quite late during cold growing conditions. We suggest harvesting in the transition slots in Coastal California and during the tail end in the Desert Southwest. Emerald Jewel has intermediate resistance to some races of clubroot.

- Multi-use variety
- Suggest late spring/early summer and late fall harvests
- Intermediate resistance to some races of clubroot



## Green Magic

### MULTI-USE

This summer to fall type broccoli offers very good uniformity of harvest. Green Magic is in the mid-early maturity class and has wide adaptability. It has a semi-domed, tight head with medium-small bead size and a good plant habit.

- Multi-use variety
- Widely adaptable



## Fortress

### MULTI-USE

Fortress is a mid-late maturing, multi-use broccoli with a clean stem, which makes for an easier harvest. Pinrot (IR) and anthocyanin free make this a fine choice for bunch and domestic crown markets.

- Multi-use type
- High head position
- Anthocyanin free
- Pinrot (IR)



## Endurance

### CROWN CUT / SHORT TRIM

This high-yielding crown and processing hybrid is an exciting addition to our product line. Small, refined beads and tight, semi-domed heads characterize this hybrid. Endurance has reduced sideshoots which can lead to a more uniform and predictable harvest. Plant uniformity is good.

- For crown cut and short trim



## Patron

### MULTI-USE

This high-domed broccoli is dark blue-green and has good uniformity and shape with a small bead size. Patron is well suited for the summer to fall harvest period in Coastal California. Patron can be used for bunching, crown cut and processing. It is tolerant to hollow core and brown bead, and has excellent post-harvest color retention!

- Good for summer to fall harvest
- Tolerant to brown bead and hollow core
- Multi-use variety





## Diplomat

### BUNCH / CROWN CUT

Another outstanding variety, Diplomat performs well in the Northeast, Canada and the Pacific Northwest. This variety has good uniformity and is suitable for the bunch and crown markets.

- Performs well in long day length and moderate heat conditions



## Gypsy

### MULTI-USE

Gypsy performs well under moderately warm conditions. It is a medium-green hybrid that yields overall uniformity. Gypsy has a strong root system and intermediate downy mildew resistance. Gypsy yields excellent, smooth, dome-shaped heads with medium-small beads.

- Good choice for organic production



## Maverick

### MULTI-USE

This exciting multi-purpose broccoli variety is noted for its vigorous plant, tight dome, and small uniform beads. Maverick has mid-late maturity, performing well in warm to cool conditions in coastal California. It has a clean stem and good color.

- Multi-use variety
- Vigorous plant



## Marathon

### MULTI-USE

As an industry standard in broccoli, Marathon is widely adaptable. From California to Arizona to Mexico and Central America, this variety has yielded outstanding results for fresh-market bunching, processing and the increasingly popular crown cut market. Marathon has a high dome, small bead and heavy head.

- Uniform and sizes well in cold, overwinter production
- Multi-use variety



## Marathon Elite

### FRESH / FROZEN

Marathon Elite is widely adaptable. With a high dome, Marathon Elite has small beads, a heavy head and is blue green in color. Performs well in most Marathon slots.

- Uniform and sizes
- Multi-use variety
- Cool season harvests

VARIETY	DAYS TO MATURITY FROM DIRECT SEED*	PLANT HEIGHT	HEAD COLOR	HEAD CHARACTERISTICS	BEAD SIZE	DISEASE RESISTANCE	USES & REMARKS
<b>Appalachian</b>	93	Compact	Blue-green	Domed	Small		Crown cut and short trim variety. Outstanding performance in the mid-Atlantic and Northeast states.
<b>Avenger</b>	102	Tall	Blue-green	Domed, dense	Extra-small		High percentage of crown cut, very attractive head and excellent holding ability. Excellent for processing.
<b>Centennial</b>	97-100	Medium	Green	Domed, dense, smooth	Small		Excellent variety for crown cut and processing.
<b>Destiny</b>	89	Compact	Medium green	Domed, smooth	Small		Dynasty has a medium plant size with smooth, well dome-shaped, medium green heads, and anthocyanin free.
<b>Diamante</b>	105	Tall	Blue-green	Domed, uniform	Small		Excellent variety for crown cut and processing.
<b>Diplomat</b>	102	Tall	Blue-green	Semi-domed	Small		Performs well in long day length and moderate heat.
<b>Eastern Crown</b>	94	Compact	Blue-green	Domed	Small		Outstanding variety for East Coast.
<b>Emerald Crown</b>	93	Compact	Blue-green	Semi-domed	Small		Produces excellent quality crown cuts/short trim product in all NAFTA regions. Highly resistant to purpling.
<b>Emerald Jewel</b>	110	Tall	Green	Domed, dense	Small	IR: Pb	Multi-use variety. Intermediate resistance to some races of clubroot.
<b>Emerald Star</b>	105	Medium	Blue-green	Domed, uniform	Small		Crown cut/Asian trim type with fine-beaded, round shape.
<b>Empire</b>	100	Medium	Blue-green	Domed, uniform	Small		Excellent choice for the crown cut/short trim markets.
<b>Endurance</b>	102	Medium	Green	Domed, dense	Small		Excellent for crown cut/short trim.
<b>Fortress</b>	105	Medium tall	Green	Semi-domed	Medium	Aba/Abe	Pinrot (IR) and anthocyanin free make this a fine choice for bunch and domestic crown markets.
<b>Godzilla</b>	100	Medium large	Green	Large, very heavy	Small		Godzilla forms very heavy, small-beaded heads in combination with a mid-high head position.
<b>Green Gold</b>	100	Medium	Green	Domed, dense	Small		Excellent harvest uniformity.
<b>Green Magic</b>	90	Medium	Blue-green	Semi-domed	Medium-small		Excellent variety for fresh market and processing. Widely adaptable.
<b>Gypsy</b>	90	Tall	Green	Domed, smooth	Medium-small	IR: Hb	Wide regional adaptability.
<b>Imperial</b>	105	Tall	Dark green	Semi-domed	Small		Performs well in long days. Good for crown cut and processing.
<b>Kingdom</b>	75	Medium	Green	Domed	Small		Excellent choice for growers needing early maturity and has very good crown quality for an early maturing variety.
<b>Marathon</b>	97	Medium tall	Blue-green	Domed, dense	Small		Uniform and sizes well in cold, overwinter production. Multi-use.
<b>Marathon Elite</b>	97	Medium tall	Blue-green	Domed, dense	Small		Marathon Elite is widely adaptable in cool coastal regions.
<b>Maverick</b>	95	Tall	Medium green	Domed, dense	Small		Multi-use variety. Vigorous plant.
<b>Millennium</b>	105	Tall	Blue-green	High dome, uniform	Extra-small		Excellent for crown cut and short trim.
<b>Patron</b>	94	Medium	Dark blue-green	Domed, high	Small		Good for summer to fall harvest. Tolerant to brown bead/hollow core.
<b>Purple Magic</b>	97	Medium large, upright	Purple	Semi-domed	Small		The plants grow well in all regions of the US.

Disease terminology: IR = Intermediate Resistance. Disease code: Aba/Abe - Alternaria, Hb - Downy mildew, Pb - Club root.



## Supreme Vantage

### FRESH / PROCESSING

Supreme Vantage is a mid maturing hybrid. This variety's plant habit is slightly open with round, solid and dense heads. Supreme Vantage is an attractive blue-green color with Fusarium yellows race 1 resistance. It is ideal for fresh and shredder markets. This variety performs well in coastal California.

- Good holding ability



## Grand Vantage

### FRESH

This is an exciting fresh-market variety with attractive green to blue-green color. Grand Vantage has a very round head, heavy weight, dense solid interior and short core. It has excellent tight wrapper leaves and a strong frame. Grand Vantage is a very adaptable main season variety. It has good holding ability and excellent yield potential. This variety is resistant to Fusarium yellows race 1.

- Excellent tight wrapper
- Wide adaptability
- Good holding ability



## Royal Vantage

### FRESH / PROCESSING

Royal Vantage yields large heads, which are excellent for the shredder market. It is five to seven days later than Blue Vantage with solid, round heads and a well-filled interior. It is Fusarium yellows race 1 resistant. Royal Vantage offers excellent quality for long distance shipping. It is also very popular in Mexico.

- Grows well under cool weather
- Performs well in poor soil conditions



## Fast Vantage

### FRESH

A great-tasting, early variety in the Headstart class with slightly earlier maturity and improved uniformity under cool conditions. Fast Vantage is an excellent choice for growers looking for high quality and uniform yields.

- Excellent early cabbage
- Heat tolerance



## Primo Vantage

### FRESH / PROCESSING

This notable variety has excellent uniformity, holding ability and a short core. Primo Vantage's dark green heads average 4 to 4.5 lb. This variety's maturity is mid-early with resistance to Fusarium yellows race 1.

- Excellent uniformity
- Mid-early maturity
- Resistant to Fusarium yellows race 1



## Stellar Vantage

### FRESH

Stellar Vantage has mid-late maturity with compact heads and short cores. This variety is resistant to Fusarium yellows race 1 and has intermediate resistance to Black Rot. Stellar Vantage offers nice, dense heads and has good field-holding ability.



## Blue Vantage

### FRESH / PROCESSING

This variety has mid-season maturity with large, dense heads which are short cored. Blue Vantage is Fusarium yellows race 1 resistant and tipburn tolerant. It is ideal for fresh and coleslaw markets and for those who require larger head sizes than Headstart. In Texas, this variety has mid-season maturity with large, dense heads which are short cored.

- Wide adaptability
- Good for direct sowing



## SuperStar

### FRESH / PROCESSING

SuperStar is a very high quality fresh market mid-season green cabbage. It has excellent wrappers for a fancy pack along with excellent holding ability in the field and after harvest. This great tasting cabbage is Fusarium yellows race 1 resistant and black rot tolerant.

- Thick leaves
- Excellent holding ability



## Charmant

### FRESH

Charmant produces uniform, solid, medium-sized round heads with blue-green color, a tight internal structure and a short core. It has the best holding ability of all early-market Sakata lines and additionally, does not point under cool conditions. Charmant is resistant to Fusarium yellows race 1 and matures approximately one week later than Headstart.

- Wide adaptability
- Excellent holding ability



## Savoy King

### FRESH

This variety is an outstanding, very popular, second-early, savoy-type hybrid. Under mild climates, Savoy King may be sown in spring, summer and autumn. It is a large headed, heavy yielder offering semi-flat, short-cored and nicely textured heads which are excellent for fresh-market usage. Savoy King is also an AAS Award Winner.

- Excellent yields
- Attractive fresh-market savoy type



## Greenboy

### FRESH

Greenboy is a mid-season hybrid with wide adaptability and Fusarium yellows race 1 resistance. It has a medium head with a very solid white interior and overall good quality. This variety is ideal for fresh market and shipping. Greenboy has excellent performance in worldwide markets from cool to tropical regions.

- Heat and rain tolerance



## Storage #4

### FRESH / PROCESSING / STORAGE

Storage #4 is an excellent-yielding storage type with a nice dark green color. This versatile variety also works great in the late fall for fresh market, especially in muddy and rainy conditions. Due to its earliness when used for storage, we recommend later season plantings for best storage results.

- Wide adaptability
- Excellent holding ability



## Vantage Point

### FRESH / KRAUT

Vantage Point is a late-maturity type. It has large, exceptionally dense heads and a well filled interior, which helps this variety hold well during shipping. It exhibits excellent field holding ability with Fusarium yellows race 1 resistance and tipburn tolerance.

- Good yields
- Late maturity

## Red Jewel

### FRESH

This variety is a high-yielding red cabbage hybrid with uniform maturity. Red Jewel offers a deep red head with a short core and is ideal for both fresh and shredder markets.

- Early maturity
- Good size and color





## Bobcat

### FRESH / PROCESSING

This high-yielding fresh-market variety holds well, has very good flavor, is resistant to Fusarium yellows race 1 and tolerant to tipburn. Due to its high yield potential, Bobcat is suitable for coleslaw production.

- Wide adaptability



## Osceola

### FRESH, PROCESSING

Osceola is a large green cabbage that serves dual purpose for processor/fresh market. This cabbage has a vigorous plant frame, good field holding, mid-late maturity, and intermediate resistance to Black rot.

- Dual purpose for processing/fresh market
- Good field holding ability
- Intermediate resistance to Black rot



## Emblem

### CABBAGE: FRESH / PROCESSING

This hybrid is a gray-green, round, mid-season, fresh-market cabbage. Emblem has shown very good internal quality and is Fusarium yellows race 1 resistant.

- Good internal quality
- Prefers warm weather



## Headstart

### FRESH / PROCESSING

Headstart is a new quick to mature, ball type cabbage from Sakata. This variety displays very uniform head size and good round shape. It is primarily used in the desert Southwest growing region.

- Fast to mature with uniform head size
- Nice round shape



## Stonehead

### CABBAGE: FRESH

Stonehead is an early, medium-headed variety with tip burn tolerance. It has a compact plant with gray-green head color. Stonehead is also an AAS Award Winner.

- Compact
- Excellent holding ability



## Xtreme Vantage

### FRESH / PROCESSING

Xtreme Vantage is a new cabbage variety from Sakata showing very good uniformity in the field. In addition, it has a good disease package showing strong resistance against Black rot and a strong tolerance to Tip burn.

- Tough against Black rot
- Strong tolerance to Tip burn with very good uniformity

VARIETY	TYPE	RELATIVE MATURITY*	USE	HEAD COLOR	HEAD SIZE	DISEASE RESISTANCE	USES & REMARKS
<b>Blue Vantage</b>	Green / Round	Mid	Fresh, processing	Blue-green	Medium-large	HR: Foc: 1 T: TpB	Wide adaptability, good for direct sow.
<b>Bobcat</b>	Green / Round	Mid	Fresh, processing	Blue-green	Medium-large	HR: Foc: 1 T: TpB	Wide adaptability.
<b>Charmant</b>	Green / Round	Early	Fresh	Green	Medium	HR: Foc: 1 T: TpB	Wide adaptability, great holding ability.
<b>Emblem</b>	Green / Round	Mid-late	Fresh, processing	Gray-green	Medium-large	HR: Foc: 1	Good internal quality, prefers warm weather.
<b>Fast Vantage</b>	Green / Round	Very early	Fresh	Green	Medium		Excellent early cabbage, heat tolerance.
<b>Grand Vantage</b>	Green / Round	Mid-late	Fresh	Green	Medium-large	HR: Foc: 1	Nice, tight wrapper. Wide adaptability.
<b>Greenboy</b>	Green / Round	Mid-late	Fresh	Green	Medium	HR: Foc: 1	Heat and rain tolerant.
<b>Headstart</b>	Green / Round	Early	Fresh, processing	Green	Large		Headstart is a new quick to mature, ball type cabbage from Sakata.
<b>Osceola</b>	Green / Round	Mid-late	Fresh, processing	Blue-green	Large	HR: Foc: 1 IR: Xcc	Dual purpose for processing/fresh market with good field holding ability.
<b>Primo Vantage</b>	Green / Round	Early	Fresh, processing	Green	Medium	HR: Foc: 1	Excellent uniformity. Good holding ability.
<b>Red Jewel</b>	Red / Round	Mid	Fresh, processing	Garnet red	Medium-large		Early maturity, good size and color.
<b>Royal Vantage</b>	Green / Round	Mid-late	Fresh, processing	Blue-green	Medium-large	HR: Foc: 1	Grows well under cool weather or poor soil conditions.
<b>Savoy King</b>	Savoy / Green / Semi-flat	Mid	Fresh	Green	Medium-large	T: TpB	Excellent yields. Attractive savoy type.
<b>Stellar Vantage</b>	Green / Round	Mid-late	Fresh	Green	Medium	HR: Foc: 1 IR: Xcc	Good holding ability. Intermediate resistance to Xcc.
<b>Stonehead</b>	Green / Round	Early	Fresh	Gray-green	Medium	T: TpB	Compact, excellent holding ability.
<b>Storage #4</b>	Green / Round	Late	Fresh, storage, processing	Dark green	Medium-large	HR: Foc: 1	Wide adaptability, excellent holding ability.
<b>SuperStar</b>	Green / Round	Mid-late	Fresh, processing	Green	Medium-large	HR: Foc: 1	Excellent holding ability with thick leaves.
<b>Supreme Vantage</b>	Green / Round	Mid-early	Fresh, processing	Green	Medium-large	HR: Foc: 1	Good holding ability.
<b>Vantage Point</b>	Green / Round	Late	Fresh, kraut	Blue-green	Large	HR: Foc: 1 T: TpB	Good yields with late maturity.
<b>Xtreme Vantage</b>	Green / Round	Mid	Fresh, processing	Blue-green	Large	HR: Foc: 1, IR: Xcc	Xtreme Vantage is a new cabbage variety from Sakata showing very good uniformity in the field.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance. Disease code: Foc - Fusarium yellows, TpB - Tip burn.

\* Relative Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.



NEW

## Amethyst

### FRESH

Sakata is very excited to introduce Amethyst, our first purple cauliflower! This new variety is early maturing, has a good dome shape, and is a beautiful lavender color. It's a good performer in the East, and the seasons are cool to warm and warm to cool.

- Quite early maturity for purple cauliflower
- Beautiful color, reminiscent of its name
- Cool to warm, warm to cool seasons
- Good performance in the East



## Himalaya

### FRESH

Himalaya is an exciting new cauliflower variety from Sakata. It displays good weight, white creamy-colored heads and a nice wrap. Himalaya's slightly higher head position allows for better disease control in wet conditions. It has a large plant habit with large leaves and is ideal for Mexico and Guatemala production.

- Good for Mexico and Guatemala production
- Slightly higher head position allows for better disease control in wet conditions
- Approx. days to maturity from transplant: 90-95



## Pureza

### FRESH

Pureza is a beautiful variety that is especially suited for fresh market in Mexico and Central America. This mid-late maturing variety produces a heavy, dense curd and a good wrap; the plant is quite vigorous.

- Mexico fresh market type
- Mid-late maturity
- Heavy, dense curd
- Strong wrap
- Large outer leaves/vigorous plant
- Approx. days to maturity from transplant: 76



## Twister

### FRESH

Twister is a tight, heavy-headed, white cauliflower with good internal wrap. It is mid-maturing with very uniform harvest and has shown minimal defects when grown in slot (mid July – late October harvest in Salinas and Santa Maria/Oxnard). Twister performs well in the desert and good results have come from the Northeast.

- Very uniform harvest
- Tight and heavy headed
- Good adaptability
- Approx. days to maturity from transplant: 75-80

## China King

### BABY NAPA

China King is a miniature (baby) type of Chinese cabbage. Suitable for planting in close spacing as it has a compact flame. It has barrel-shaped heads with yellow interior color. It is slow bolting and tolerant to tipburn.

- Compact flame suitable for dense planting
- Early maturity and slow bolting
- Nice uniformity
- Approx. days to maturity from direct seed: 75 to 80
- Approx. days to maturity from transplant: 55 to 60



## Yoda

### NAPA/HEADING

Yoda is a Napa Cabbage with a large barrel shaped head and dark green outer leaf. Inside color is a brilliant yellow with a solid dense interior.

- High yield
- Good resistance to disease
- Excellent color



## China Coast

### BABY NAPA

China Coast is a medium-maturing hybrid with dark green color. It has good uniformity and size with intermediate resistance to some races of clubroot.

- Used for main season through Fall
- Uniform, large frame with good weight
- Dark green exterior color
- Approx. days to maturity from direct seed: 70





## Yuki

### NAPA / HEADING

Yuki is a medium-maturing, China Express type hybrid. It has good uniformity and size with tolerance to black speck and intermediate resistance to some races of clubroot.

- Good uniformity and size
- Disease Resistance: IR: Pb, T: BLS / TpB
- Approx. days to maturity from direct seed: 67



## China Gold

### NAPA / HEADING

China Gold has excellent external and internal color. It has a compact frame, good weight and is very slow bolting. This variety is tolerant to tipburn and some clubroot races.

- Tolerant to tip burn and some club root races
- Very slow bolting
- Disease Resistance: IR: Pb, T: TpB
- Approx. days to maturity from direct seed: 65

## China Express

### NAPA / HEADING

China Express is a widely-adapted and utilized variety. This variety has tipburn and bolting tolerance. It has attractive, medium-sized, barrel-shaped heads. Heads are well wrapped and uniform.

- Widely adapted and utilized
- Tipburn and bolting tolerance
- Disease Resistance: T: TpB
- Approx. days to maturity from direct seed: 62

## China Star

### NAPA / HEADING

China Star is a large headed variety with a dark green exterior and dark yellow interior. China Star performs well in all Chinese cabbage planting slots. Tolerant to tipburn and black speck.

- Slow bolting
- Tolerant to tipburn and black speck
- Disease Resistance: T: BLS / TpB
- Approx. days to maturity from direct seed: 70



## Top Bunch 2.0

### BUNCH / FRESH / PROCESSING

Top Bunch 2.0 is an early maturing hybrid. It resembles Top Bunch with wavy, lightly savoyed leaves that regrow quickly after harvest. This variety is suitable for fresh market bunching and machine harvest for processing.

- The new generation of Top Bunch
- Vigorous, rapid regrowth
- Upright plant. Slightly wavy blue green leaves
- Approx. days to maturity from direct seed: 70



## Flash

### BUNCH / FRESH / PROCESSING

Due to hybrid uniformity and vigor, Flash offers processors and fresh-market growers an early maturing, highly uniform Vates-type hybrid. This variety allows growers repeated heavy harvests of fancy dark leaves.

- Vates type
- Fast regrowth
- Good uniformity
- Broad and smooth leaves
- Slow to bolt
- Approx. days to maturity from direct seed: 75



## Top Chop

### BUNCH / FRESH / PROCESSING

Top Chop is a new collard variety that works well in the overwinter slot. It is slower to bolt than any of our commercial hybrid varieties, and displays great uniformity and large, wide leaves. Top Chop is great for both fresh market and processing.

- Large, wide leaves and fast re-growth
- Slow to bolt
- Great uniformity
- Upright plant. Broad, smooth, flat
- Approx. days to maturity from direct seed: 74

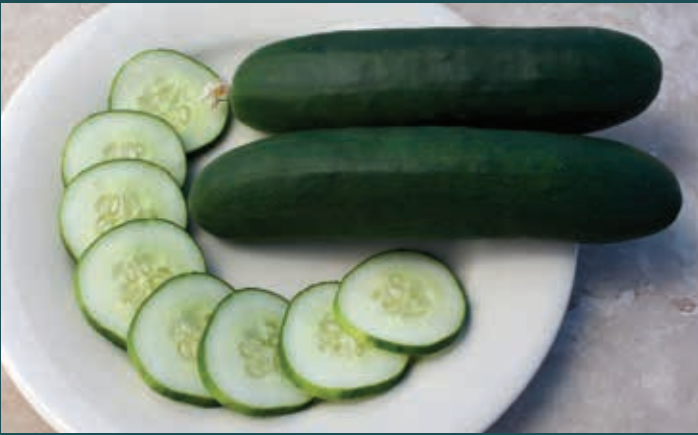


## Vates

### MULTI-USE

Vates is a widely adaptable variety that has smooth medium green leaves and an upright plant habit for easy harvesting. Vates offers good yields for fresh market or home gardeners.

- Medium green leaf color
- Smooth leaf
- Semi-upright plant habit
- Approx. days to maturity from direct seed: 75-80



## Slice More

### CUCUMBER: SLICING

Slice More is a high quality slicing cucumber, with uniform, 8.5 inch fruits. Dark green, smooth skin protects a crisp flesh with a very small seed cavity. Plants are easy to grow and withstand varied conditions. The heavy yielding vines produce early (about 63 days from seeding) and continue well into the season.

- Very good yields
- Excellent shape and color
- Disease Resistance: HR: Ccu \\ IR: CMV / Co: 1, 3 / Pcu / Sf



## Tasty Green

### CUCUMBER: JAPANESE

Sakata's most popular burpless cucumber and a home garden industry standard. Exterior is dark green with shallow ridges and small white spines, while interior is crisp and white. Fruit grows to about 9 in. long and 1.5 in. in diameter and has tender skin and a nice mild flavor. Resistant to powdery mildew and intermediately resistant to downy mildew. Also suited for greenhouse culture.

- Japanese slicing type
- Early, heavy yielding
- Very easy to grow



## Shikou

### EGGPLANT: ASIAN TYPE

Shikou is a long Asian type eggplant with dark, glossy fruit that measure 6-8 long by 1-1.5 inches wide, have a purple calyx (or stem), very few seeds, thin tender skin, and very a white interior. Plants are very attractive, medium sized and productive, semi-spineless and mature about 70-80 days from transplant. Shikou is a Japanese word meaning "Supreme". Fruit are easy to prepare—just slice and sauté or stir-fry, no peeling or salting required.

- Produces over long season
- Semi-spineless
- Highly refined fruit quality

# Southern Green

## GREENS / TURNIP

This tendergreen-type variety offers very rapid growth and earlier regrowth. Southern Green has very dark green and smooth leaves on a tall plant. This variety has a high yield potential.

- Tendergreen type
- Excellent regrowth capability
- High yield potential
- Approx. days to maturity from transplant: 33





## Alamo

### GREENS / TURNIP

On the East Coast, this variety has shown excellent results for processors. Alamo yields have been as high as 50% greater than standard varieties due to its vigorous regrowth. Processors like the excellent taste this variety offers. This unique hybrid compares favorably to standard turnip greens, but with much higher vigor.

- Excellent yields and regrowth ability
- Approx. days to maturity from transplant: 33



## All Top

### GREENS / TURNIP

This variety is a hybrid developed from Japanese domestic turnip greens. All Top is thick and has tender leaves like the tendergreen type with a well developed root system. It grows well under moderate climate conditions. All Top is best for processing turnip greens and multiple cuttings.

- High yielding with vigorous regrowth
- Approx. days to maturity from transplant: 35



## Topper

### GREENS / TURNIP

Topper is a Seven Top-type hybrid that is heavy yielding. It has a large, broad and serrated leaf with a pale green color. It also has good bolting tolerance and vigorous regrowth ability for multiple harvests.

- Vigorous regrowth ability for up to three additional harvests after initial cutting
- Good bolt tolerance
- Approx. days to maturity from transplant: 36



## Royal Crown

### TURNIP: BUNCH / FRESH / SPECIALTY

Royal Crown is a multi-use variety that can be used for greens or roots. It has uniform deep green cut leaves and uniform top-shaped roots which have a bright purple crown and a creamy white bottom. Royal Crown has a sweet, mild flavor that is appealing to fresh market and home garden growers.

- Multi-use variety: greens & roots
- Deep green colored leaves
- Sweet tasting root
- Approx. days to maturity from transplant: 50



## White Lady

### TURNIP: BUNCH, FRESH, SPECIALTY

White Lady is a vigorous, uniform Oriental-type hybrid. It is flat round in shape and has medium-sized roots with good white color. This variety is tolerant to pith even into the larger sizes (4-5 inches in diameter). The leaves are virtually free of pubescence and can be used as greens. White Lady's harvesting ability ranges from the young stage to larger sizes.

- Oriental type with excellent flavored roots and greens
- Harvest roots for baby or full size
- Approx. days to maturity from direct seed: 28-35

## Santo

### CILANTRO

Santo is fast-growing and one of the first slow-bolting varieties introduced. It has broad celery-like leaves, which can be harvested two or more times. This variety is very uniform and good for bunching. Santo is a widely utilized herb variety with a strong aroma. Monogerm seed is available. Organic and non-organic seeds are available.

- Fast-growing, slow-bolting strain
- Suitable for multiple harvests
- Use leaves as cilantro and seeds as coriander



## Bouquet

### DILL

Bouquet is an earlier maturing selection developed from the well-known variety Mammoth. The vigorous, strong plants reach a final height of 30 to 40 inches and produce highly aromatic, fine, dark green leaves topped by large flower heads. Harvest the feathery foliage for the popular herb or the seeds for the pickling spice.

- Early maturing
- Strong plants
- Strong aroma



## Dukat

### DILL

Dukat produces much higher yields of foliage than other dill varieties. The dark green, feathery leaves also have a distinct, strong aroma that adds depth to any fish, vegetable, or pasta dish. Its vigorous plants eventually reach 30 to 40 inches tall and are topped with very large umbels. Dukat is suitable for summer culture, as well as the typical spring and fall.

- Strong aroma, large umbels
- Suitable for summer culture





## Forest Green

### PARSLEY

Forest Green offers maturity in 70-75 days. Its leaf type is double curled with dark green color. This variety's plants are erect, vigorous and hold well in warmer weather. Forest Green is used for fresh market and home garden.

- Plants are erect and vigorous
- Holds well in hot weather








## Dark Green Italian


### PARSLEY

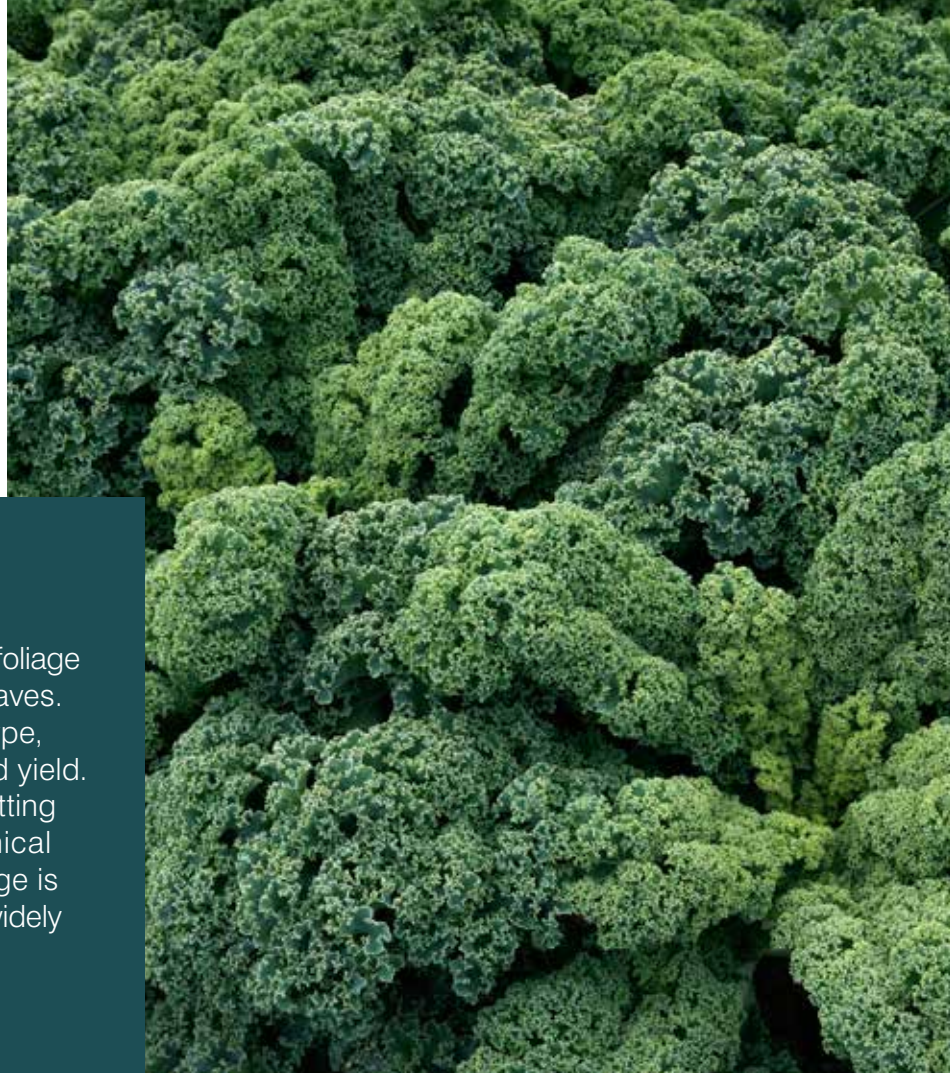
Dark Green Italian is a flat-leaf type with glossy dark green leaves. It has an erect habit and is more flavorful than regular plain-leaf types. This variety is used for fresh market, processing and home garden.

- Broader leaf than most
- More erect and flavorful

## AT-A-GLANCE CHART

VARIETY	TYPE	DAYS TO BABY LEAF / MATURITY FROM DIRECT SEED*	LEAF CHARACTERISTICS	LEAF COLOR	USES & REMARKS
<b>Bouquet</b> 	Dill	60	Fern-like	Dark green	Fresh market. Early; strong aroma.
<b>Dark Green Italian</b> 	Parsley	65-70	Broad, glossy, flat / Moderately cut	Dark green	Broader leaf, more erect and flavorful than most flat leaf parsley.
<b>Dukat</b> 	Dill	70	Fern-like	Dark green	Strong aroma, large umbels. Suitable for summer culture.
<b>Forest Green</b> 	Parsley	70-75	Double-curling / Finely cut leaf	Very dark green	Plants are erect and vigorous. Holds well in hot weather. Superior for garnish.
<b>Santo</b> 	Cilantro (Coriander)	60	Broad, celery-like	Medium bright green	Fast growing, slow bolting strain, suitable for multiple harvests. Highly aromatic.

 = Open Pollinated.\* Days to Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.



## Blue Ridge

### FRESH

This hybrid features dark, blue-green foliage with an attractive, triple curl on all leaves. Blue Ridge offers a semi-tall plant type, mid-season maturity and an extended yield. It is suitable for hand stripping or cutting for fresh market as well as mechanical harvesting for processing. Blue Ridge is slow to bolt or stretch. Blue Ridge is widely adapted to all kale producing areas.

- Widely adapted and slow bolting
- Offers extended harvests



## Improved Dwarf Siberian

### MULTI-USE

Improved Dwarf Siberian is a multipurpose variety that can be used for baby leaf, fresh market, or processing. It has a deep green smooth rippled leaf with an upright plant habit. Thick petioles allow for easy bunching with less plant damage. When used for baby leaf, Improved Dwarf Siberian has round-oval leaves that are smooth, thick, and medium green in color.

- For baby leaf or fresh markets
- Deep green leaf color
- Smooth rippled leaves



## Vates Blue Curled Scotch

### MULTI-USE

Vates Blue Curled Scotch is a finely curled blue-green kale that can be used for baby leaf or fresh markets. It has a tall upright plant habit with sturdy stems that result in easy bunching or baby leaf harvesting.

- Finely curled, blue-green leaf
- Uniform selection
- Ornamental edible; garnish type

NEW



## Sweet Karoline™

### KALLARD

Sweet Karoline™ is an exciting new cross between kale and collard, creating an interesting leaf type with an exclusive flavor. This variety produces very unique serrated leaves that are different from traditional collard or kale. Sweet Karoline has excellent vigor, smooth, thick leaves, cute shape, good texture, and a long stem; great for bunching. Using this crossover for baby leaf would provide a distinct shape to the mixes that adds a nice, zesty flavor.

- First of its kind kale/collard Cross
- Offers the best traits of both crops
- Multi-Use: Bunch & Baby Leaf, Indoor & Outdoor
- Visually interesting and uniquely flavorful



## Quickstar

### KOHLRABI: MULTI-USE

Quickstar is an early small to medium-sized hybrid with dark green, slightly broad leaves. Its bulbs are flat-round and very smooth with beautiful pale-green color and are extremely uniform. Matures in about 35-40 days.

- Uniform in size and maturity
- Early maturity
- Slow bolting



## Savanna

### KOMATSUNA: TENDERGREEN TYPE

This hybrid has better uniformity and faster regrowth than O.P. varieties. Savanna provides multiple cuts and is slow to bolt.

- Tendergreen type
- Heat and cold tolerant, good bolt tolerance
- Harvest young or at fully mature



## Orient Wonder

### POLE BEAN

Orient Wonder is a type of pole bean, sometimes called asparagus or yard-long bean. Popular in warm and humid areas, where plants are vigorously vining. Extra-long, slender pods are slow to form seeds, resulting in more tender beans that can be harvested over an extended period. Orient Wonder is popular for specialty markets and superior to standard strains due to its ability to set in cooler climates.

- Seeds are slow to develop
- Pod stays small and smooth
- Sets better in cool, dry conditions

## VARIETIES SUITABLE FOR BABY LEAF



Astro ARUGULA



Bull's Blood BEET



Early Wonder Tall Top BEET



Fresh Pak BEET



Fresh Start BEET



Kestrel BEET



Merlin BEET



Red Ace BEET



Touchstone Gold BEET



Vulture BEET



Red Jewel CABBAGE



Flash COLLARD



Top Bunch 2.0 COLLARD



Shunkyo Semi-Long  
DAIKON RADISH



Blue Ridge KALE



Improved Dwarf Siberian  
KALE



Vates Blue Curled Scotch  
KALE



Savanna KOMATSUNA



Miz America MUSTARD



Feng Qing Choi PAK CHOI



Joi Choi PAK CHOI



Li Ren Choi PAK CHOI



Mei Qing Choi PAK CHOI



Affluence SPINACH



C2-606 SPINACH



Countryside SPINACH



Darkside SPINACH



Income SPINACH



Oceanside SPINACH



Reward SPINACH



Riverside SPINACH



Seaside SPINACH



Eldorado SWISS CHARD



Fire Fresh SWISS CHARD



Peppermint SWISS CHARD



Rhubarb SWISS CHARD



Ruby Fresh SWISS CHARD

VARIETY	CROP	INDOOR BABY LEAF DTM	MICROGREEN DTM	LEAF / STEM COLOR	LEAF CHARACTERISTICS	KEY RETAIL ATTRIBUTES	KEY GROWER ATTRIBUTES / DISEASE RESISTANCE
<b>Astro</b>	Arugula	25-28	12-15	Medium green / Pale greenish-white	Strap shape; slightly lobed & cut	Nutty, mild peppery flavor	Early and heat tolerant
<b>Bull's Blood</b>	Beet	28-32	16-19	Both dark purple-red	Elongated oval; ruffled edges	Adds color; mild earthy flavor	Upright habit and slow to bolt
<b>Early Wonder Tall Top</b>	Beet	25-28	16-19	Bright green / Rosy red	Elongated oval; red veins	Milder flavor, holds well	Upright habit; early / mid maturity
<b>Fresh Pak F1</b>	Beet	23-26	-	Dark green / Very dark red	Oval; defined red veins	Bold stem / vein color	HR: Pfb // IR: Cb
<b>Fresh Start F1</b>	Beet	23-26	-	Dark green / Medium-dark red	Oval; defined red veins	Bold stem / vein color	HR: Pfb, early
<b>Kestrel F1</b>	Beet	23-26	-	Deep green / very dark red	Rounded wedge; red veins	Bold stem / vein color	Early and uniform
<b>Merlin F1</b>	Beet	23-26	-	Dark green / Deep burgundy	Oval; slightly ruffled; red veins	Sweet flavor, refined look	Sturdy stems, upright habit
<b>Red Ace F1</b>	Beet	20-23	13-16	Bright green / Rosy red	Oval	Good color, holds well	Sturdy stems, very uniform
<b>Touchstone Gold</b>	Beet	27-30	19-23	Bright green / Green to pale yellow	Elongated oval; flat, smooth	Adds golden yellow color to mixes	IR: Cb, easy to grow
<b>Vulture F1</b>	Beet	23-26	-	Dark green / Very deep burgundy	Elongated oval; burgundy veins	Very deep stem / vein color	IR: Cb, uniform and dependable
<b>Red Jewel F1</b>	Cabbage	-	14-17	Dusty blue-green / Deep purple	Elongated oval; flat	Adds bright color, loft	Thick leaf; sturdy stems
<b>Flash F1</b>	Collard	28-31	-	Blue-green / Pale greenish-white	Rounded oval; slightly wavy; waxy	Adds weight and mild kale flavor	Withstands wilting
<b>Top Bunch 2.0 F1</b>	Collard	28-31	-	Medium gray-green / Greenish-white	Rounded to oval; wavy edges	Adds weight and mild kale flavor	Early with fast regrowth
<b>Shunkyo Semi-Long</b>	Daikon Radish	28-31	13-16	Medium matte green / Rose tinged	Baby leaf: spatula; Microgreen: spear	Unique stem color, tangy flavor	Easy to grow
<b>Basil Italian Large Leaf</b>	Herb	-	16-19	Both bright deep green	Shiny; cupped	Avoids bruising from chopping	Strong stems
<b>Cilantro (Coriander) Santo</b>	Herb	-	18-22	Both bright chartreuse green	Intricately cut	Brighter, milder cilantro flavor	Slower to stretch
<b>Dill Dukat</b>	Herb	-	18-22	Both apple green	Delicate; feathery	Delicate, mild dill flavor	Withstands warmer temperatures
<b>Parsley Dark Green Italian</b>	Herb	-	26-29	Both medium-dark green	Intricately lobed	High oil concentration	Larger leaf surface
<b>Blue Ridge F1</b>	Kale	25-28	-	Dusty blue-green / Bright green	Deeply lobed; folds at stem base	Unique color, adds loft	Slow to stretch, strong regrowth
<b>Improved Dwarf Siberian</b>	Kale	25-28	14-17	Medium green / Light green	Round; rippled edges; thick	Unique texture, adds loft	Upright habit, thick leaf
<b>Vates Blue Curled Scotch</b>	Kale	25-28	12-15	Deep bluish-green / Pale greenish-white	Deeply cut; folds at stem base	Unique texture, adds loft	Uniform selection, sturdy stems
<b>Savanna F1</b>	Komatsuna	29-32	14-17	Bright green / Light green	Rounded oval	High loft and bright color	Heat and cold tolerant, fast
<b>Miz America F1</b>	Mustard	25-28	14-17	Both deep reddish-purple	Intricately lobed; thick	Bold color, milder flavor	Very uniform, thick leaf

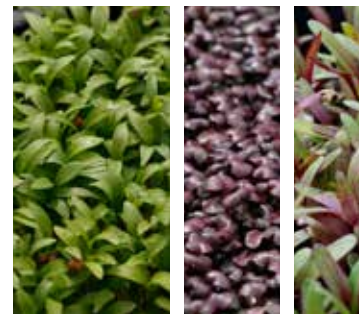
Disease Terminology: HR = High Resistance; IR = Intermediate Resistance.  
Disease Code: Cb - Cercospora leaf spot, Pfb - Downy Mildew

VARIETY	CROP	INDOOR BABY LEAF DTM	MICROGREEN DTM	LEAF / STEM COLOR	LEAF CHARACTERISTICS	KEY RETAIL ATTRIBUTES	KEY GROWER ATTRIBUTES / DISEASE RESISTANCE
Feng Qing Choi F1	Pak Choi	21-24	-	Medium green / Pale green	Rounded oval	Adds loft and weight, holds well	Very uniform, thick leaf
Joi Choi F1	Pak Choi	25-28	13-16	Dark green / White	Rounded oval; thick	Bright leaf & stem color	Superior uniformity, fast grower
Li Ren Choi F1	Pak Choi	21-24	-	Matte green / Pale greenish-white	Oval with slightly imbedded stem	High flavor, smaller leaves	Stays small, upright habit
Mei Qing Choi F1	Pak Choi	21-24	-	Medium-dark green / Greenish-white	Smooth; spoon-shaped	High flavor, tender	Heat and cold tolerant
Little Snap Pea Crunch	Pea	-	11-14	Medium bright green	Rounded whorl	Adds unique visual interest	Very fast grower
Little Snap Pea Petite	Pea	-	10	Dark green	Small, rounded, long internodes	Crisp texture and bright fresh flavor	Very fast grower
Little Snow Pea Purple	Pea	-	10	Medium green	Medium size, rounded, short internodes	Pleasant texture and mild flavor	Upright habit, easy to harvest and stack
Little Snow Pea White	Pea	-	10	Medium green	Medium internodes, long tendrils, heart-shaped	Pleasant texture and mild flavor	Attractive with sturdy stems
Affluence F1	Spinach	21-26	-	Dark green / Bright green	Round-oval; smooth	Dark color, smoother leaf, can be grown for Organic	HR: Pfs: 1-19
C2-606 F1	Spinach	20-23	12-13	Dark green / Bright green	Spade-shaped; veined	Holds well	HR: Pfs: 1-9, 11-16
Countryside F1	Spinach	20-25	-	Very dark green / Bright green	Round-oval; veined; thick	Smooth, very dark leaf	HR: Pfs: 1-12, 14-16
Darkside F1	Spinach	20-25	-	Very dark green / Dark green	Round-oval; smooth	Sturdy thick, very dark leaves	HR: Pfs: 1-12, 14-16, 19 \\ IR: Fos
Income F1	Spinach	19-25	-	Medium dark green / Bright green	Round-oval; erect, smooth	Smooth, bright; can be grown for Organic	HR: Pfs: 1-19; performs in cooler conditions
Oceanside F1	Spinach	21-26	-	Dark green / Bright green	Round-oval; veined; thick	Holds well	HR: Pfs: 1-9, 11, 13, 15-16 // IR: Pfs: 12, 14
Reward F1	Spinach	19-25	-	Dark green / Bright green	Round-oval; smooth	Can be grown for Organic	HR: Pfs: 1-19
Riverside F1	Spinach	21-26	-	Very dark green / Bright green	Spade-shaped; veined; thick	Smooth, very dark leaf	HR: Pfs: 1-11, 15-16 // IR: Pfs: 12, 14
Seaside F1	Spinach	21-26	12-13	Very dark green / Rich bright green	Spade-shaped; veined; thick	Smooth, very dark leaf	HR: Pfs: 1-11, 15-16 // IR: Pfs: 12, 14
Celebration	Swiss Chard	-	16-19	Green / White, red, yellow, pink, peach	Highly uniform	Multi-colored stems, crunchy, mild	Uniform size & growth rate
Eldorado	Swiss Chard	25-28	16-19	Dark green / Bright yellow	Spatula shape; slightly wavy	Glossy, adds yellow color	Uniform, slow to bolt
Fire Fresh F1	Swiss Chard	23-26	-	Medium-dark green / Bold red	Ovate; defined red veins	Adds texture and color	HR: Cb // IR: Pfb
Peppermint	Swiss Chard	-	14-17	Bright glossy green / Pink & white	Ovate; slightly savoy, glossy	Glossy, adds bright, unique color	Strong upright habit
Rhubarb	Swiss Chard	25-28	16-19	Bright green / Candy apple red	Ovate; slightly savoy, red veins	Rich color, mild flavor, adds loft	Strong upright habit
Ruby Fresh	Swiss Chard	21-24	-	Medium-dark green / Scarlet red	Ovate; red veins	Bold stem / vein color	Moderate growth rate

Disease Terminology: HR = High Resistance; IR = Intermediate Resistance.  
Disease Code: Cb - Cercospora leaf spot, Pfb - Downy Mildew



## VARIETIES SUITABLE FOR MIRCOGREENS



Astro ARUGULA



Bull's Blood BEET



Early Wonder Tall Top BEET



Red Ace BEET



Touchstone Gold BEET



Shunkyo Semi-Long DAIKON RADISH



Basil Italian Large Leaf HERB



Cilantro (Coriander) Santo HERB



Dill Dukat HERB



Parsley Dark Green Italian HERB



Improved Dwarf Siberian KALE



Vates Blue Curled Scotch KALE





Savanna KOMATSUNA



Miz America MUSTARD



Joi Choi PAK CHOI



Little SnapPea Crunch PEA



Little SnapPea Petite PEA



Little SnapPea Purple PEA



Little SnapPea White PEA



Celebration SWISS CHARD



Eldorado SWISS CHARD



Peppermint SWISS CHARD



Rhubarb SWISS CHARD



For more information, be sure to visit our website to download CEA-specific literature materials, including our **Indoor Baby Leaf Brochure**, **Indoor Microgreens Brochure**, and comprehensive **Indoor Greens Master Guide**!



# Meridian

## ICEBERG

Meridian is a pioneer! This variety shows high field tolerance to Fusarium Race 1. It has a high level of heading and good bolt tolerance. Meridian works well in Desert Southwest fall and spring, Southern Salinas Valley summer and early fall, as well as Florida fall and spring.

- Shows high field tolerance to Fusarium Race 1
- High bolting tolerance, high tipburn tolerance





## Portola

### ICEBERG

Portola has excellent size/weight for both box and bulk as well as excellent field holding abilities. Dark color with large heads and excellent weight. This variety has been showing high field tolerance to Big Vein.

- Excellent field holding ability
- Size/weight is versatile for carton and bulk programs
- Has been showing high field tolerance to Big Vein



## Lockwood

### ICEBERG

Lockwood is an iceberg variety for main season Salinas Valley plantings. It shows consistently large head size perfect for bulk programs. It has good Tipburn tolerance and has been showing high field tolerance to Corky root.

- Large head size
- Good tip burn tolerance
- Has been showing high field tolerance to Corky root



## Regency 3.0

### ICEBERG

Regency 3.0 is the best of the Regency series! This exciting variety has been showing the strongest field tolerance to downy mildew in the Regency series and is a great carton/bulk variety with more compact size than Regency and Regency 2.0.

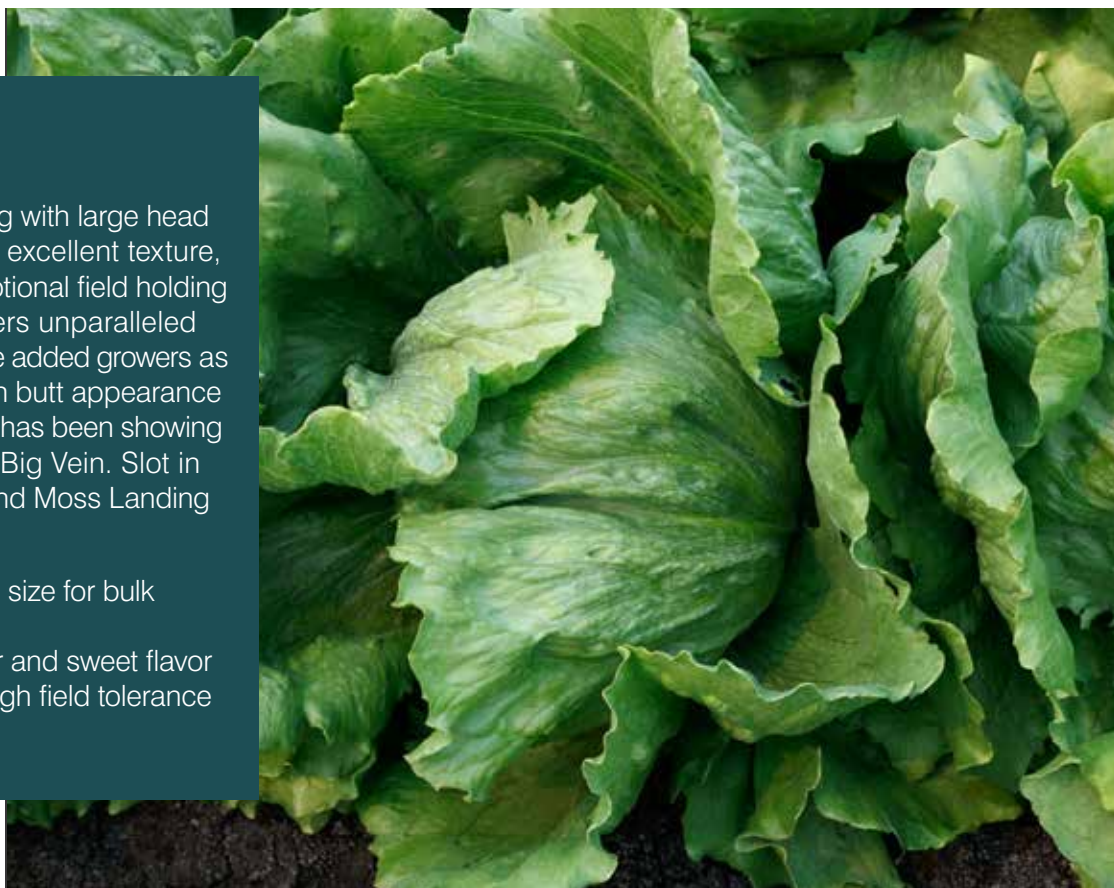
- The best of the Regency series!
- Has been showing the strongest field tolerance to downy mildew in the Regency series
- Great carton/bulk variety with compact size

## Omega 42

### ICEBERG

Omega 42 is an iceberg with large head size, dark green color, excellent texture, sweet flavor, and exceptional field holding ability. This variety offers unparalleled weight potential for value added growers as well as trimmable green butt appearance for cartons. This variety has been showing high field tolerance to Big Vein. Slot in Salinas Valley Spring and Moss Landing summer and fall.

- Extremely large head size for bulk programs
- Very dark green color and sweet flavor
- Has been showing high field tolerance to Big Vein



## Raider

### ICEBERG

Raider is a grower favorite known for showing strong field tolerance to bolting and is well-suited for warm weather production. This beauty shows nice dark green, round heads with smooth ribs and large core diameter. Slot in Desert Southwest fall/spring.

- Round heads, smooth ribs
- Has shown strong field tolerance to bolting
- Dark green color



## Kremlin

### RED LEAF

Kremlin is a red leaf variety with frilled margin and a high level of bolt tolerance. It matches the maturity of green leaf cultivars and is well-suited for Coastal Summer and Desert Southwest fall and spring planting slots.

- Red leaf variety with frilled margin
- High level of bolt tolerance
- Matches maturity of green leaf cultivars

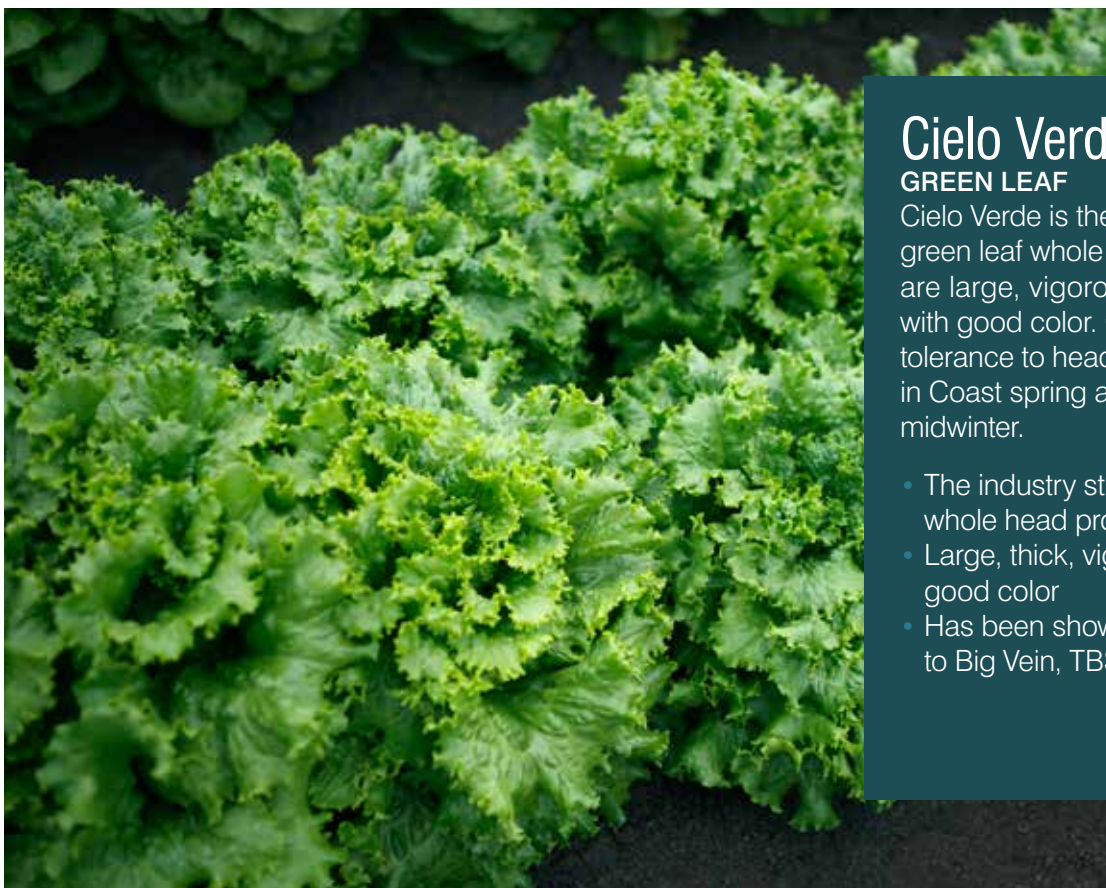


## RL2211

### RED LEAF

RL2211 is a red leaf variety similar to popular green leaf type, Cielo Verde. It has been showing strong field tolerance to TBSV/LNSV and Corky Root. It has good Tipburn tolerance and is suited for coast spring and fall as well as desert midwinter slots.

- Similar to Cielo Verde with red color
- Has been showing strong field tolerance to TBSV/LNSV and Corky Root
- Good tip burn tolerance



## Cielo Verde

### GREEN LEAF

Cielo Verde is the industry standard for green leaf whole head production! Heads are large, vigorous and thick textured with good color. Cielo Verde has shown tolerance to heading in cold weather. Slot in Coast spring and fall / Desert southwest midwinter.

- The industry standard for green leaf whole head production!
- Large, thick, vigorous heads with good color
- Has been showing strong field tolerance to Big Vein, TBSV/LNSV and Corky Root



## Red Tide

### RED LEAF

Red Tide is the industry standard for over 20 years in red leaf whole head production! This distinct variety displays red/purple leaf margins with green midribs and base. It has a soft, butter texture and good pliability for an elevated consumer experience. Red Tide has shown strong field tolerance to Tipburn and can be planted year-round.

- Industry standard for over 20 years!
- Red/purple leaf margins with green midribs
- Soft, butter texture with good pliability
- Wide adaptability



## Monterra

### GREEN LEAF

Monterra is a medium-large headed green leaf with a high leaf count. This variety has shown strong field tolerance to bolting, as well as Corky Root and TBSV/LNSV. Slot in Salinas Valley main season and Desert Southwest fall and spring.

- Medium-large headed green leaf
- High leaf count
- Has been showing strong field tolerance to Big Vein, TBSV/LNSV and Corky Root



## Zorro

### GREEN LEAF

Zorro is a beautiful green leaf variety with a unique, glossy sheen and has shown strong field tolerance to bolting. In addition, it has shown strong field tolerance to TBSV/LNSV, Corky Root and Tipburn. Slot in Desert Southwest fall and spring production.

- Unique, glossy sheen
- Beautiful green color
- Has shown strong field tolerance to bolting, TBSV/LNSV, Corky Root, Tipburn

## Fresh/Heart

### ROMAINE

Fresh/Heart is a large-sized romaine variety. It has high uniformity and has shown strong field tolerance to bolting.

- Large size romaine
- High level of uniformity
- Has shown strong field tolerance to bolting



## Teton

### ROMAINE

Large size, straight ribs. Potential for hearts. It has been showing strong field tolerance to TBSV/LNSV.

- Large size romaine
- Has been strong field tolerance to TBSV/LNSV
- Potential to use Hearts segment



## 7436

### ROMAINE

7436 is best suited for Warm to cool fall desert slot. It has high leaf count and is extremely uniform which results in great yield.

- Good tip burn tolerance
- High leaf count resulting in excellent weight
- Extremely uniform



## ROM 1184

### ROMAINE

ROM 1184 is a very large size, processing romaine for Salinas valley spring and fall plantings, and is ideal for South County spring slot. This variety sizes up well when competitor varieties cannot. ROM 1184 has shown strong field tolerance to TBSV/LNSV and Corky Root.

- Sizes up when competitors cannot
- Processing romaine for Salinas Valley spring and fall
- Ideal for South County spring slot
- Has shown strong field tolerance to TBSV/LNSV / Corky Root



## AT-A-GLANCE CHART

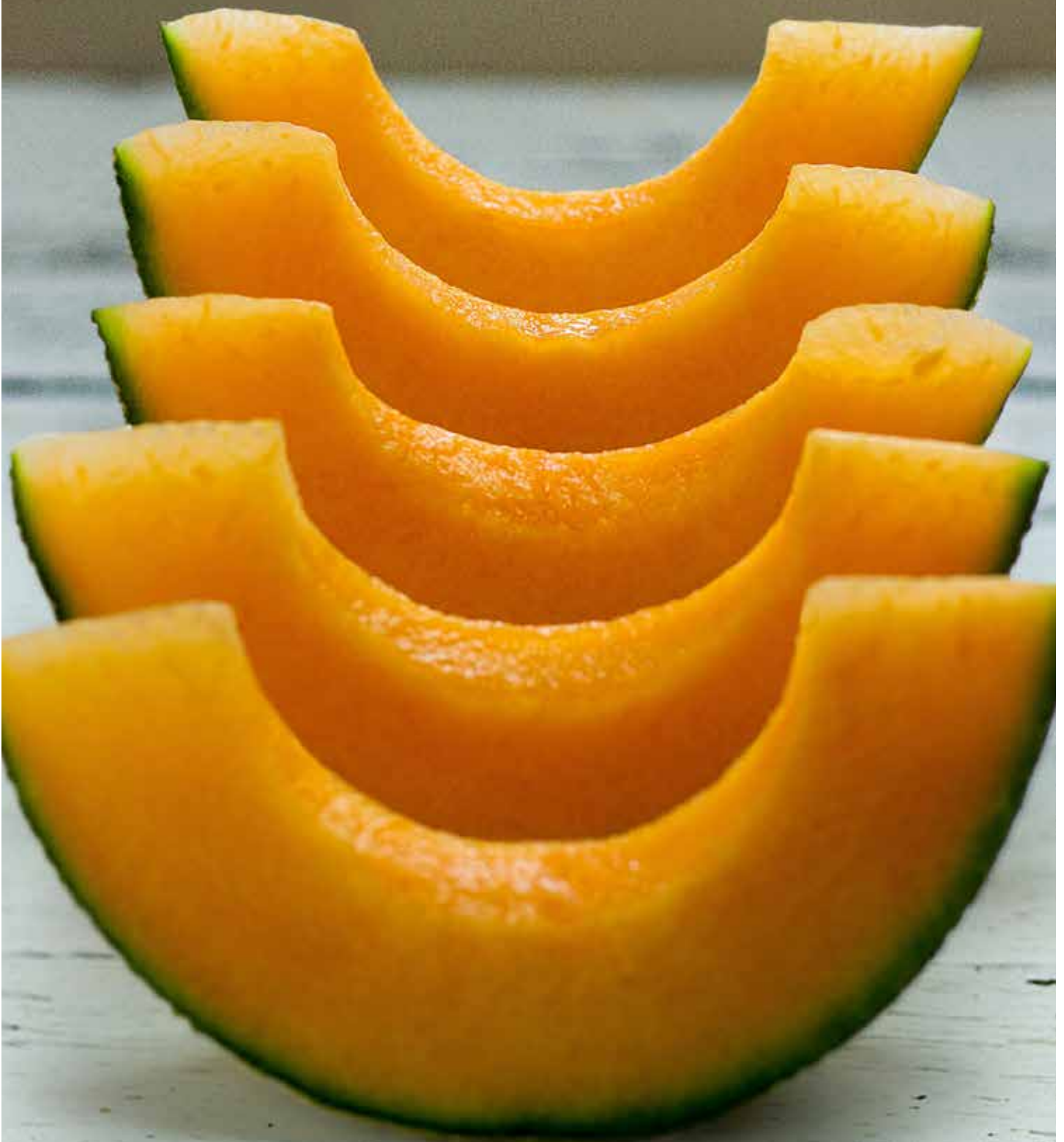
VARIETY	TYPE	PLANTING SLOT
1221	Iceberg	Desert southwest fall
9017	Baby Leaf Green Tango	Year-round production
9208	Baby Leaf Lolla Rossa	Year-round production
9424	Baby Leaf Green Romaine	Year-round production
Big Green Cos	Romaine	Desert southwest midwinter
Cielo Verde	Green Leaf	Slot in coast spring and fall / Desert southwest midwinter
Corona	Iceberg	Coast main season
Domingos 67	Iceberg	Desert southwest early spring
Fresh/Heart	Romaine	Coast fall and desert southwest midwinter spring and fall
Green Tiger	Baby Leaf Green Oak	Year-round production
Green Towers	Romaine	Coast spring and fall; desert southwest midwinter
Havasú	Iceberg	Desert southwest spring
Heatmaster	Iceberg	Desert southwest fall
Hitchhiker	Baby Leaf Green Romaine	Year-round production
Jupiter	Iceberg	Coast early spring / Desert southwest late fall
Kremlin	Red Leaf	Coast summer / Desert southwest fall and spring
Lockwood	Iceberg	Coast main season / Late spring harvest in southern salinas valley
Luna	Iceberg	Coast early spring / Southwest late fall
Meridian	Iceberg	Desert southwest fall and spring / Southern salinas valley summer and early fall / Florida fall and spring
Monterra	Green Leaf	Salinas Valley main season / Desert southwest fall & spring
Navajo	Iceberg	Desert southwest spring
Omega 42	Iceberg	Coast spring / Northern salinas valley summer and fall
Portola	Iceberg	Coast spring / Desert midwinter
R7436	Romaine	Desert southwest fall
Raider	Iceberg	Desert southwest fall
Red Dragon	Baby Leaf Red Oak	Year-round production
Red Tide	Red Leaf	Year-Round
Regency	Iceberg	Coast main season
Regency 2.0	Iceberg	Coast main season
Regency 3.0	Iceberg	Coast main season
RL2211	Red Leaf	Coast spring and fall; desert southwest midwinter
ROM 1184	Romaine	Coast spring and fall
Saratoga	Baby Leaf Lolla Rossa	Year-round production
Taboo	Baby Leaf Red Romaine	Year-round production
Teton	Romaine	Desert southwest midwinter / Coast spring / Florida
Vanguard PIC	Romaine	Coast spring and fall; desert southwest midwinter
Wizard	Baby Leaf Green Tango	Year-round production
Zorro	Green Leaf	Desert southwest fall and spring

# Infinite Gold

## LONG SHELF LIFE CANTALOUPE

Infinite Gold LSL melon was bred for strong performance and long shelf life, without sacrificing great flavor and fruit quality. In fact, a third-party sensory analysis panel rated Infinite Gold higher in flavor and quality attributes than the leading competition!\* Plus, Infinite Gold offers strong vines, high yield potential and uniform size and shape during stressful conditions.

*\*SCS Global Services, August 2012*







## Alaniz Gold

### WESTERN SHIPPER

Alaniz Gold is a Western Shipper with main season maturity. This variety has excellent firmness, good interior color and maintains size uniformity with a high percentage of 9s. It also has a very strong vine. Alaniz Gold performs well in the California Central Valley.

- Excellent Brix and firmness
- Healthy, strong vines with good powdery mildew and fusarium resistance
- Uniform fruit size and maintains good round oval shape



## Atlantis

### EASTERN SHIPPER

Atlantis is an Eastern melon with a round-oval shape. It has excellent interior qualities, including firmness and consistently high sugar content for high consumer appeal. Atlantis can be used either as a shipper or farm market variety.

- Strong, vigorous vines
- Excellent field performance



## Avatar

### MELON: EASTERN SHIPPER

Avatar is an Eastern Shipper with a medium open cavity and firm, flavorful orange flesh. The exterior is light green color that turns to a yellow-tan when fully ripe. These oval-shaped melons are seven to nine pounds with dimensions of 8 x 7.5 inches. Avatar is ideal for higher latitudes.

- High sugars and great yields
- Farm-market type
- Ideal for higher latitudes



## Grand Prix

### CHRISTMAS

Grand Prix's intensely sweet flavor and creamy white, densely textured flesh tastes like a cross between a honeydew melon and pear. The deep emerald-green color, striations, and firmness will catch your eye in the garden or farmer's market. As a Christmas (or Piel de Sapo) type, Grand Prix melons will not have a strong scent but will store well. Strong plants are vigorous and disease resistant and produce mature fruits about 82-87 days from sowing.

- Balanced flavor- sweet and flavorful
- High quality exterior extends storage
- Intense interior and exterior color



## Olympic Gold

### WESTERN SHIPPER

Olympic Gold is renowned for high yield and consistent performance. It has also shown wide adaptability, performing well in Central Arizona and the San Joaquin Valley. Olympic Gold is a medium-late maturing, main season variety with a strong vine and large fruit (9's, 12's). This full-netted fruit works for fresh and fresh cut markets because of its excellent firm, crisp flesh and consistently high Brix.

- Consistent and productive
- Wide adaptability



## Premier

### YELLOW CANARY

Premier has a strong vine with good foliar coverage and is a great yellow canary melon with high yield and fruit setting. This melon has uniform fruit, small cavity, great flavor, and high Brix which makes it one of the best yellow canary melons.

- High yield with uniform fruit
- Great Powdery Mildew resistance
- Incredible flavor and Brix



## Honeybrew

### HONEYDEW

Honeybrew has been an industry standard for years and a proven value for early and late plantings in major melon production areas. Its features include high yields, good flavor and a strong rind. This melon also has uniform fruit size with better shipping ability than O.P.s and many other hybrids.

- High yielding with a vigorous vine
- Uniform size and maturity
- Industry standard



## Super Nectar

### HONEYDEW

This is an excellent main season honeydew that has shown excellent quality in California, Mexico and Central America. Its smooth dense green flesh produces a savory honeydew flavor. The fruit is round to round-oval in shape. Super Nectar mostly size 5's and 6's with some 4's. The vine is vigorous and adds good cover and protection from sunburn.

- Excellent shape and size uniformity
- Good Brix and firmness

## AT-A-GLANCE CHART

VARIETY	TYPE	RELATIVE MATURITY	FRUIT SIZE / SHAPE	RIND CHARACTERISTICS	INTERIOR CHARACTERISTICS	DISEASE RESISTANCE	USES & REMARKS
<b>Alaniz Gold</b>	Western Shipper Cantaloupe	Main season	Round oval	Full net	Firm / Medium-closed cavity	HR: Fom: 0-2 / Px: 1 IR: Px: 2	Strong vine, uniform fruit size, high yield, with excellent Brix and firmness.
<b>Atlantis</b>	Eastern Shipper Cantaloupe	Early	Round	Full fine net, shallow sutures	Firm	HR: Fom: 0-2 / Px: 1 IR: Px: 2	Excellent field performance. Strong, vigorous vines.
<b>Avatar</b>	Eastern Shipper Cantaloupe	Early	Oval	Shallow full net	Firm / Medium open cavity	HR: Fom: 0-2 / Px: 1 IR: Px: 2	High sugars and great yields. Farm market type. Ideal for higher latitudes.
<b>Citrino</b>	Honeydew	Mid	Round	Smooth	Medium closed cavity	HR: PRSV-W IR: Px: 1, 2	Excellent choice for growers looking for a "value added" melon.
<b>Da Vinci</b>	Specialty	Mid	Oval	Sutured	Crisp / Firm / Small cavity	HR: Fom: 0-2 / Px: 1	Firm crisp flesh with very sweet, aromatic flavors.
<b>Dulce Nectar</b>	Honeydew	Early late	Round oval	Smooth	Closed cavity	HR: Fom: 2 IR: Px: 1, 2	Good sizes and high yields for growing in cool to warm or hot seasons.
<b>Grand Prix</b>	Christmas	Main Season	Oval, tapered at end	Fine net	Small cavity, crisp		Strong plants are vigorous and disease resistant and produce mature fruits about 82-87 days from sowing.
<b>Honeybrew</b>	Honeydew	Mid	Oval	Smooth	Firm	HR: Fom: 0, 2 IR: Px: 1, 2	High yielding, vigorous vine, excellent fruit quality with uniform size and maturity. Good choice for fresh cut. Industry standard.
<b>Infinite Gold</b>	LSL Cantaloupe	Mid	Round oval	Full net	Firm	HR: Fom: 0-2 / Px: 1, 2	Infinite Gold beats the competition in flavor and quality according to a recent sensory analysis study.
<b>Lilliput</b>	Mini Eastern Shipper	Early-mid	Round	Open Net	Firm, tight cavity	HR: Fom: 0-2 / Px: 1, 2	Personal-sized melon with very high flavors and firm flesh.
<b>Olympic Gold</b>	Western Shipper Cantaloupe	Mid late	Round oval	Full net	Crisp / Firm	HR: Fom: 2 / Px: 1, 2	Consistent and productive. Wide adaptability.
<b>Premier</b>	Yellow Canary	Mid	Round oval	Yellow	Light green small cavity	HR: Fom: 0, 2, IR: Px	This melon has uniform fruit, small cavity, great flavor, and high Brix.
<b>Super Nectar</b>	Honeydew	Late	Round oval	Smooth	Semi closed cavity / Medium closed cavity	HR: Fom: 2 IR: Px: 1, 2	Excellent shape and size uniformity. Good Brix and firmness.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance. Disease code: Fom - Fusarium wilt, Sf - Powdery mildew.

\* Days to Relative Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.



## Florida Broadleaf

**MUSTARD: INDIA**

Florida Broadleaf has a smooth medium green serrated leaf that is ideal for fresh markets and processing. It has an upright plant habit and good yield potential.

- Medium green leaf color
- Upright plant habit
- Serrated leaf

## Astro

**ARUGULA: BUNCH / CLIP**

Our selection of *Eruca sativa* is less deeply lobed than wild arugula. The nutty flavor grows stronger as the weather warms. Early maturing yet slow to bolt, Astro is ready to harvest for baby leaf at 32-35 days and for mature leaves at 52-55 days. Organic and non-organic seeds are available.

- Slow to bolt
- Strong, zesty flavor
- For field and protected culture



## Miz America

**MUSTARD: BABY LEAF / BUNCHING**

Miz America is a hybrid with exceptionally uniform leaf color, shape and size. Miz America maintains deep dark red color on both sides of the leaf even at a mature stage. An upright plant habit makes for easy harvesting. Miz America has a pleasant, mild taste – not bitter or spicy.

- Deep dark red leaves
- Uniform color, shape and size
- Maintains color even at the mature stage

## Jambalaya 2.0

**OKRA**

Jambalaya 2.0 okra is an extra-early maturing variety that boasts a very compact plant with small leaves. It offers high yields of very uniform, shiny, dark green pods.

- Very compact plant
- Early maturity
- Uniform and high yielding





## Spanish Medallion

### LATE INTERMEDIATE

Spanish Medallion is a late intermediate yellow that transitions into the long day Spanish types. It has firmness and excellent skin retention. This variety has a globe shape with sizes that range from colossal to jumbo. It cuts a high percentage of single centers. In the Pacific Northwest and Colorado it is a true intermediate. In California and New Mexico it is a good transitional variety.

- High percentage of single centers
- Transitions into long day Spanish types
- Consistent yields



## Yosemite

### INTERMEDIATE

An intermediate day onion that has several layers of skin with good retention. This variety has vibrant brown skin, globe-shaped variety ranges in size from colossal to jumbo, with firmness and good single centers. Excellent uniformity and suited for export. Grower friendly!

- User friendly
- Good yielder
- Machine harvestable



## Ovation

### LATE INTERMEDIATE

Ovation is a late intermediate yellow that transitions into the long day Spanish type. Ovation has firmness and excellent skin retention. It offers a globe shape with sizes ranging from colossal to jumbo. In the Pacific Northwest and Colorado, Ovation is a main season intermediate. In California and New Mexico Ovation is a late/transitional intermediate into long day Spanish type.

- High percentage of single centers
- Transitions into long day Spanish types
- Consistent yields



## SON912Y

### SHORT DAY

SON912Y is a short day variety that holds a slight Grano Taper in shape and runs colossal to jumbo in size with a nice tan color at maturity. This adaptable onion has a strong plant and root system which makes it a very grower-friendly crop with good yield. SON912Y has good bolt resistance and Pink Root tolerance.

- Adaptable
- Good yield
- Grower-friendly



## Bella Luna

### SHORT DAY / MID SEASON

Bella Luna is suited for areas of Mexico. It offers good yields with good tolerance to Pink Root. This is a main season variety that can be direct seeded or transplanted.

- User friendly
- Good yielder
- Good pink root tolerance



## Super Luna

### MID LATE / SHORT DAY

Super Luna is a short day white onion variety showing high yields and good uniformity. Super Luna has a brilliant white color and is a very grower friendly variety. In addition, this variety has moderate tolerance to pink root.

- Excellent yield
- Good uniformity
- Grower friendly



## Red Sapphire

### SHORT DAY

Red Sapphire is a vibrant red onion with strong plant growth and a sturdy root system. This globe-shaped variety has deep cherry red skin and ranges in size from jumbo to large. Red Sapphire is an overwinter short day onion with good pink root tolerance.

- Adaptable
- Good yield
- Good internal and external color

NEW



## Red Ruby

### SHORT DAY

Red Ruby has a deep ruby color, with great uniformity and size. It is a mid-late season short-day onion with excellent internal and external color that consistently maintains quality, even at large to jumbo sizes. Red Ruby has intermediate resistance to pink root.

- Deep red external color
- Good yield and uniformity
- Intermediate resistance to pink root



## SON115Y

### SHORT DAY

SON115Y is a short day onion that is colossal to jumbo in size with a soft tan color at maturity and a nice white interior color. With a slight Grano Taper in shape, SON115Y gives consistent yields with a strong plant and root system that makes it a great adaptable crop. This onion has good bolt resistance as well as Pink Root tolerance.

- Good yield
- Adaptable
- Grower friendly



## SON570W

### INTERMEDIATE

SON570W is an intermediate white onion with great yield and a strong plant and root system, making it very adaptable in the field. This mid-late maturing onion has good pink root tolerance and bolt resistance.

- Good yield
- Adaptable
- Brilliant white color

## AT-A-GLANCE CHART

VARIETY	TYPE	DAYS TO MATURITY FROM DIRECT SEED*	BULB SIZE	BULB SHAPE	SKIN COLOR	DISEASE RESISTANCE	USES & REMARKS
<b>Bella Luna</b>	White / Short day	Mid / 180-185	Jumbo to large	Grano	White	HR: Pt	It has pink root tolerance is exceptionally grower friendly.
<b>Ovation</b>	Yellow / Late intermediate	Mid-late / 110-115	Colossal to jumbo	Globe	Brown	IR: Pt	Very high percentage of single centers. Transitions into long day Spanish types. Consistent yields.
<b>Red Ruby <i>New!</i></b>	Red / Short Day	Mid-late / 170-180	Jumbo to large	Globe	Red	IR: Pt	Red Ruby has a deep ruby color, with great uniformity and size.
<b>Red Sapphire</b>	Red / Short day, overwinter	Mid-late / 195-210	Jumbo to large	Globe	Red	IR: Pt	It has good interior and exterior red color. Hold up well under pink root conditions.
<b>SON115Y</b>	Yellow / Short day	Mid / 180-195	Colossal to jumbo	Grano / Globe	Yellow	IR: Pt	SON115Y offers consistent yields with good range of sizing. It has strong healthy tops that can give you protection under extreme related conditions. Suited for Texas and Mexico, good pink root tolerance.
<b>SON570W</b>	White / Intermediate	Mid-late / 105-110	Jumbo to large	Globe	White	HR: Pt	SON570W is an intermediate white onion with great yield and a strong plant and root system.
<b>SON912Y</b>	Yellow / Short day	Mid / 180-195	Colossal to jumbo	Grano / Globe	Yellow	IR: Pt	SON912Y offer good yields and it is suited for Texas and Mexico. It is a main season variety for these areas. Good pink root protection.
<b>Spanish Medallion</b>	Yellow / Late intermediate	Mid-late / 110-115	Colossal to jumbo	Globe	Brown	IR: Pt	Very high percentage of single centers. Transitions into long day Spanish types. Consistent yields.
<b>Super Luna</b>	White / Short day	Mid-late / 195 -210	Jumbo to large	Slight grano taper	White	IR: Pt	Super Luna has a brilliant white color and is a very grower friendly variety.
<b>White Gem</b>	Bunching Onion	Mid / 62	–	Medium length, white shanks	–	–	Excellent standing ability. Easier to bunch, better yield than OP types.
<b>Yosemite</b>	Yellow / Intermediate	Mid-late / 110	Colossal to jumbo	Globe	Brown	IR: Pt	Grower friendly and a good yielder. Machine harvestable.

Disease terminology: IR = Intermediate Resistance. Disease code: Foc - Basal rot, Pt - Pink root.

\* Days to Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.

## King Choi

### WHITE STEMS

King Choi is a reliable hybrid and easy crop to grow. It's a pak choi that's slow-bolting with excellent uniformity. This new and exciting variety is working toward becoming the standard variety in the industry.

- Easy to grow, widely used
- Outstanding uniformity
- Large plant frame
- Experimental# SPC9705

NEW



## Joi Choi

### WHITE STEMS

This hybrid revolutionized the production of pak choi in North America by making it a reliable, easy crop to grow. Joi Choi is slow-bolting with excellent uniformity. This variety has been accepted nationwide and is the standard variety in the industry.

- Easy to grow, widely used
- Outstanding uniformity
- Can get quite large



## Mei Qing Choi

### SHANGHAI

Mei Qing Choi is a Shanghai pak choi type with good heat and cold tolerance and bolting resistance. In the U.S., this variety is harvested as baby pak choi. It is smaller than Joi Choi, weighing about a quarter of a pound. This pak choi has an excellent flavor and is extra tender.

- Uniform, slow bolting
- Tight vase-like shape



## Feng Qing Choi

### SHANGHAI

Feng Qing Choi is a slow bolting Mei Qing Choi type with good plant size and dark leaf color. This variety has excellent holding ability and uniformity.

- Good uniformity
- Excellent holding ability
- Tight vase-like shape







## Toy Choy

### CANTON DWARF

Toy Choy is a compact hybrid Canton pak choy with thick, broad, milky white petioles and glossy, dark green leaves. It is perfect for home gardeners and specialty growers servicing Asian markets. This variety is tolerant to heat, which makes it well suited for production in summer months. Toy Choy offers early maturity of 30 to 35 days harvest from sowing.

- Harvest early or when bud starts to appear



## Li Ren Choy

### MINI

Li Ren Choy is an extremely attractive mini pak choy with light green stems and slightly darker green leaves. This variety develops a pak choy shape at a very early stage. It can even be planted in trays and harvested at transplanting time. It is one of the smaller mini pak choies on the market. This variety is ideal for producing premium pak choy hearts for the Asian market.

- Novelty item
- Develops pak choy shape very early

## AT-A-GLANCE CHART

VARIETY	TYPE	DAYS TO MATURITY FROM DIRECT SEED*	HABIT	HEAD CHARACTERISTICS	BOLT RESISTANCE	USES & REMARKS
<b>Feng Qing Choy</b>	Shanghai	Extra early / 35-40	Upright, compact	Green petiole, tight vase	Very high	Good uniformity, slower bolting than Mei Qing Choy with nice green leaf color.
<b>Joi Choy</b>	White Stems	Mid-early / 60-65	Semi-upright	Bright green leaves, heavy white petioles	High	Easy to grow, outstanding uniformity, widely used. Can get quite large.
<b>King Choy <i>New!</i></b>	White Stems	Mid-early / 55-60	Erect, large	Bright green leaves, heavy white petioles	Excellent	This new and exciting variety is working toward becoming the standard variety in the industry.
<b>Li Ren Choy</b>	Mini	Early / 40	Upright, compact	Light green	High	This variety develops a pak choy shape at a very early stage.
<b>Mei Qing Choy</b>	Shanghai	Extra early / 35-40	Upright, medium	Green petiole, tight vase	High	Uniform, slow bolting and simple to grow.
<b>Toy Choy</b>	Canton dwarf	Extra early / 30-35	Semi-upright	White petiole	Susceptible	Canton dwarf type. Broad, milky white stems and dark green, glossy leaves much more attractive than OP pak choy. As susceptible to bolting as OP so harvest early or when bud starts to appear.

\* Days to Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.

# Megatron

## JALAPEÑO

Megatron is an exciting, new hybrid jalapeño that boasts dense, extra-large fruit – averaging 4.5 inches. This variety has good shelf life and a nice green color. Other benefits include extreme earliness and high yield potential. Megatron has a strong compact plant with X spp: 0-3, 7, 8 resistance.

- Extremely early
- High yield
- Multi-disease Resistance: HR: X spp: 0-3, 7, 8 \ IR: Mi / Pc

NEW



NEW



## Soundwave

### JALAPEÑO

Soundwave is one of the most aesthetic jalapeños, 4 inches in length, dark green color and with a thick wall. The shelf life of Soundwave is incredible and with high heat units. It has a strong plant with a great disease resistance package of X spp: 0-3, 7, 8, and Pc. Soundwave has high yield and heavy fruit weight which makes it suitable for both fresh market and processing.

- Incredible shelf life
- Aesthetic 4-inch large fruit
- High Yielding and heavy fruit

NEW



## Unicron

### JALAPEÑO

Unicron is a jalapeño with extremely large fruit, averaging 4-5" in length with a strong plant making it one of the largest jalapeños in the market. This hot pepper is perfect for hot to cold climates and areas that have difficulty making size. Unicron has thick walls, cracking tolerance, and average heat units for a jalapeño.

- Large size fruit – 4-5" in length.
- Good disease resistance to Pc.
- Generates good size fruit in difficult climates.



## Jalafuego

### JALAPEÑO

Jalafuego offers super high pungency and a large strong plant with excellent yields of medium, smooth and dark green fruit. This fruit has good length that makes this jalapeño perfect for growing conditions that may cause fruit to shorten. Jalafuego has high resistance to PVY: 1.2 and X spp: 0-3, 7, 8.

- One of our hottest Jalapeño peppers
- Excellent fruit length



## Spicy Slice

### JALAPEÑO

Spicy Slice produces medium fruit on vigorous, prolific plants with good cover. This variety is early maturing and has wide adaptability throughout the U.S. The fruit mature from mid dark green to red, are firm, smooth, very slow to check, slice well and have mid pungency and good flavor. It has application in both the fresh and processing market. Spicy Slice has high resistance to X spp: 0-3, 7, 8 and intermediate resistance to TEV.

- Early maturing
- Excellent yield potential
- Dual purpose for fresh market and processing

## Sargento

### POBLANO (ANCHO)

Sargento is an extra-large fruited poblano (Ancho) with very good quality that matures from glossy dark green to deep red. The maturity is mid and it is suited for multiple harvests where it has the ability to maintain fruit size. The fruit are mid-long tapering, firm, straight and have a high percentage of two lobes. The plants have good vigor, continuous setting ability and are adapted for long cycle production. The intermediate resistance to phytophthora is valuable for areas with pressure. Sargento is suited for the fresh and drying market.

- Widely adapted
- High yield potential
- Maintains very nice fruit size



## Early Flame

### JALAPEÑO

Early Flame is a medium to large fruit size jalapeno suited for processing and the fresh market. Fruit are uniform, firm, pungent and mature from a glossy dark green to deep red. Fruit will check at maturity. The maturity is early and concentrated. The plants have good vigor, cover and are compact with potential for mechanical harvesting.

- Concentrated set
- Suited for mechanical harvest
- Suited for fresh market and processing, especially jalapeño sauce



## Arapaho

### CAYENNE

Arapaho (Formerly Cheyenne) is a large and very attractive cayenne pepper producing high yields of early maturing fruit on a compact plant. It can be harvested ten days to two weeks earlier than most standard varieties on the market with no sacrifice in fruit quality. Arapaho is pungent and has great cayenne aroma.

- Early harvest for fresh market and processing
- High yield potential
- Beautiful red color

NEW



## Katana

### ANAHEIM

Katana is a large-fruited anaheim with high yield potential. This anaheim pepper is great for hot dry areas and adaptable for processing. Katana has a robust root system which is vital for withstanding blossom end rot and setting well in heat.

- Good root disease resistance package
- High yielding/large fruit
- Dual Purpose material – fresh and processing
- Great heat setting
- HR: Tm: 0 \ IR: Mi / Pc



## Pathfinder

### SERRANO

Pathfinder is a new serrano pepper variety with excellent plant and foliar cover, with an average fruit length of 4.5-5" which is maintained throughout the entire production cycle. Pathfinder is resistant to Tm: 0 and X spp 0-3, 7, 8, with high pungency and an average fruit weight of 30 grams. With a nice dark green color, thick walls and a great shelf life, Pathfinder is suitable for the export market.

- Incredible shelf life
- High yielding
- Resistant to HR: Tm: 0 / X spp: 0-3, 7, 8 \\ IR: Mi / Pc



## Chaak

### HABANERO

Early hybrid habanero maturing from green to beautiful orange color. High yielding and heavy, large, thick-walled fruit with good shelf life. Strong plant, vigorous, and short internodes and true to the typical habanero shape.

- Extremely early
- Good disease resistance
- True habanero shape



## Campesino

### PASILLA

Campesino has excellent strong and healthy plants with high vigor and good yield potential. The fruit are a dark green that mature to a deep burgundy color. The fruit are ~6.5-8 inches in length, with a slightly narrow shoulder and excellent final dry weight ratio when compared with current standards. The fruit have a classic pasilla flavor. Campesino has good field performance and HR: Tm: 0 and IR: Pc.

- Great classic flavor
- Strong, healthy plants
- Dual purpose for fresh market and processing



## Lone Ranger

### SERRANO

Lone Ranger is a serrano pepper variety with excellent plant cover, good heat setting, large size that averages between 4 to 4.5" and maintains its size throughout the entire season. Lone Ranger is resistant to X spp: 0-3, 7, 8, high heat units and thick walls which allows for great shelf life.

- High yield potential
- Impressive shelf life
- Great disease package



## Desperado

### ANAHEIM

Desperado is a large-fruited Anaheim type pepper with mid-early maturity and great yield potential on a sturdy mid-size plant with good cover. Fruit are light green with an attractive glossy look and thick walls. Fruits 'decap' well, making them well suited for fresh and processing markets. Pungency is mild and ideal for roasting.

- Quality, smooth fruit
- Low pungency ideal for processing
- Well suited as a dual purpose Anaheim



## Takara

### SHISHITO

Takara is a classic Japanese Shishito type pepper with small thin walled fruit, typically harvested at mature green. These peppers are often grilled or fried and have a mild and rich flavor, with an occasional fruit having some pungency. Early maturing compact plants have short internodes and high production potential.

- Occasional spicy fruit
- Compact habit, extended harvest potential
- Classic Shishito shape, size and quality

## Mariscal

### POBLANO (ANCHO)

Mariscal is an extra-large poblano (Ancho) that matures from dark green to red. The maturity is mid to early and it is best suited for concentrated harvests where it has the ability to produce high yields of extra-large and large fruit. The fruit are mid long tapering, firm, straight, glossy dark green, smooth and have a high percentage of two lobes. The plants have a mid-compact growth habit and good vigor. Mariscal performs well when growing under conditions from warm to cool.



## Trident

### POBLANO (ANCHO)

Trident is an extra-large fruited poblano (Ancho) with good quality that matures from glossy mid-dark green to deep red. The maturity is mid and it is suited for multiple harvests where it has the ability to maintain fruit size. The fruit are mid-long tapering, firm, straight and have a high percentage of two lobes. The plants have good vigor, continuous setting ability and are adapted for long cycle production in a wide range of soils and climates. Trident has a good dry weight ratio and is well suited for the fresh and drying market.



## AT-A-GLANCE CHART

VARIETY	TYPE	RELATIVE MATURITY*	FRUIT SIZE / SHAPE	HARVEST COLOR	PLANT HABIT	DISEASE RESISTANCE	USES & REMARKS
<b>Desperado</b>	Anaheim	Mid-early	Large, XL / Conical, tapered at end, semi flat	Light green to red	Medium, good cover		Quality, smooth fruit. Low pungency ideal for processing.
<b>Katana <i>New!</i></b>	Anaheim	Mid-early	Large / Tapered at end	Green to red	Medium	HR: Tm: 0 \\ IR: Mi / Pc	This anaheim pepper is great for hot dry areas and adaptable for processing.
<b>Arapaho</b>	Cayenne	Early	Large / Long wrinkled	Green to red	Compact		Early harvest for fresh market and processing.
<b>Campesino</b>	Pasilla	Early	Large, XL / Long, tapered	Green to red	Compact, vigorous	HR: Tm: 0 \\ IR: Pc	Great classic flavor. Strong, healthy plants. Dual purpose for fresh market & processing.
<b>Chaak</b>	Habanero	Early	Typical Habanero shape	Green to orange	Medium	IR: TSWV	Extremely early with good disease resistance.
<b>Early Flame</b>	Jalapeño	Very early, early	Medium / Cylindrical to blunt	Dark green to red	Compact	HR: PVY: 1.2 \\ IR: TEV	Concentrated set. Suited for mechanical harvest.
<b>Jalafuego</b>	Jalapeño	Mid	Medium / Long tapered at end	Dark green to red	Large, vigorous	HR: PVY: 1.2 / X spp: 0-3, 7, 8 \\ IR: Pc	Excellent pungency for jalapeno; great fruit length.
<b>Megatron</b>	Jalapeño	Very early	XL / Cylindrical to blunt	Green to red	Compact	HR: X spp: 0-3, 7, 8 \\ IR: Mi / Pc	Extremely early. High yield potential.
<b>Soundwave <i>New!</i></b>	Jalapeño	Mid	XL / Cylindrical to blunt	Dark green to red	Medium	HR: Tm: 0 / X spp: 0-3, 7, 8 \\ IR: Mi / Pc	Soundwave is one of the most aesthetic jalapeños, 4 inches in length, dark green color and with a thick wall.
<b>Spicy Slice</b>	Jalapeño	Early	Medium / Elongated cylindrical to blunt	Green to red	Tall, medium large	HR: X spp: 0-3, 7, 8 \\ IR: TEV	Dual purpose for fresh market and processing.
<b>Unicon</b>	Jalapeño	Mid-early	XL / Cylindrical to blunt	Dark green to red	Vigorous	HR: Tm: 0 / X spp: 0-3, 7, 8 \\ IR: Mi / Pc	Unicon has thick walls, cracking tolerance, and average heat units for a jalapeno.
<b>Mariscal</b>	Poblano (ancho)	Mid-early	Large, XL / Long, flattened, tapered at end	Dark green to red	Large, medium large		Widely adapted. High yield potential. Good general fruit quality.
<b>Sargento</b>	Poblano (Ancho)	Mid	XL / Flattened, tapered at end, long, semi flat	Dark green to red	Tall, large	IR: Mi / Pc	Widely adapted. High yield potential. Maintains very nice fruit size
<b>Trident</b>	Poblano (ancho)	Mid, mid-late	XL / Long, semi flat, flattened, tapered	Dark green to red	Tall, large	HR: Tm: 0	Widely adapted. High yield potential. Maintains very nice fruit size throughout harvest.
<b>Lone Ranger</b>	Serrano	Mid-early	XL / Cylindrical to blunt	Light green	Medium	HR: X spp: 0-3, 7, 8 \\ IR: Mi / Pc	High yield potential. Impressive shelf life.
<b>Pathfinder</b>	Serrano	Mid-early	XL / Cylindrical to blunt	Dark green	Medium	HR: Tm: 0 / X spp: 0-3, 7, 8 \\ IR: Mi / Pc	Incredible shelf life. High yield potential.
<b>Takara</b>	Shishito	Very early	Small / Elongated	Bright green to red	Compact, well branched		Hybrid with 'classic' Shishito shape, size, and quality.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance. Disease abbreviation code: Lt - Powdery mildew, Mi - Nematode, Pc - Phytophthora root rot, PVY - Potato Y, Rs - Bacterial wilt, TEV - Tobacco etch, Tm - Tobamovirus, TSWV - Tomato spotted wilt, X spp (Xcv) - Bacterial spot.

\* Relative Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.



## Delite Series

### SNACKING



The Sakata sweet pepper breeding program is dedicated to delivering innovative solutions throughout the entire value chain. Our research team, in collaboration with specialists, identifies key trends and beneficial features to tackle production challenges. Our products are designed to optimize key traits like, yield potential, adaptability, early maturity, labor efficiency, and disease resistance. We strive to provide consumers with superior quality, flavor, and shelf life, ensuring comprehensive benefits for all value chain stakeholders.





## Tiger Delite

### SNACKING

Tiger Delite is a large-fruited snack pepper that's well-suited for early and main season slots. It has excellent heat setting and maintains good shape and size through the production cycle resulting in high yield potential. Tiger Delite has attractive, large, bright, glossy orange fruit with great shelf life and is well suited for export. Plants have good cover, are strong and are best suited for multi-stem production.

- Early maturity
- Strong plant
- High yield potential with good size
- Disease package, HR: Tm: 0 / X spp: 0-3, 7, 8



## Cherry Delite

### SNACKING

Cherry Delite is a large-fruited snack pepper that's well-suited for early and main season slots. It has excellent heat setting and maintains good shape and size through the production cycle resulting in high yield potential. Cherry Delite has attractive, large, bright, glossy red fruit with great shelf life and is well suited for export. Plants have good cover, are strong and are best suited for multi-stem production.

- Early maturity
- Strong plant
- High yield potential with good size
- Disease package, HR: Tm: 0 / X spp: 0-3, 7, 8



## Mandarin Delite

### SNACKING

Mandarin Delite is a large-fruited snack pepper that is very early and concentrated. It also has excellent heat setting and maintains very good shaping and size through the production cycle. Fruit are attractive, large, bright, glossy orange fruit with good weight, shelf life and a sweet flavor. Plants are compact, have mid cover, and can be grown in low, mid-tech and open field.

- Concentrated
- Very early maturity
- High yield potential with good size
- Disease package, HR: Tm: 0



## Lemon Delite

### SNACKING

Lemon Delite is a large fruited snack pepper variety well adapted to hot set slots or where there is an advantage to have very early maturity. The fruit maintain very good size, are smooth and firm with a glossy attractive yellow color at full maturity. Lemon Delite has a mid-strong vigorous plant with good cover and continuous setting ability.

- Very early to early maturity
- Very good hot setting ability and size
- HR: Tm: 0 / X spp: 0-3, 7, 8



## Orange Delite

### SNACKING

Orange Delite is a large fruited snack pepper variety well adapted to hot set slots or where there is an advantage to have very early maturity. The fruit have maintain good size, are mid smooth and firm with a glossy attractive orange color at full maturity. Orange Delite has a mid to mid-strong plant with good cover and continuous setting ability.

- Very early maturity
- Excellent yield and hot setting ability
- HR: Tm: 0 / X spp: 0-3, 7, 8



## Ruby Delite

### SNACKING

Ruby Delite is a large fruited snack pepper variety well adapted to hot set slots or where there is an advantage to have very early maturity. The fruit maintain very good size, are smooth and firm with a glossy dark red color at full maturity. Ruby Delite has a mid-strong vigorous plant with good cover and continuous setting ability.

- Very early maturity
- Very good hot setting ability and size
- HR: Tm: 0 / X spp: 0-3, 7, 8

NEW



## Big Stack S10®

BELL / OUTDOOR

Big Stack S10® is an early maturing hybrid offering concentrated yield of jumbo and XL fruit. This bell pepper has moderate plant vigor, and a valuable combination of bacterial leaf spot 0-10 and phytophthora root rot. The fruit are firm, glossy dark green, and mature to red color. Well suited to central, mid-west and northeast US production regions.

- Jumbo / XL fruit size
- Early heavy, concentrated yield
- HR: Tm: 0, IR: Pc / X spp: 0-10



## Nitro S10®

BELL / OUTDOOR

Nitro S10® is a high quality, mid-maturing hybrid with a strong disease package that is well suited for place pack. It is adapted to fall and spring in the southeast and summer production in the northeast and suited for production where bacterial leaf spot and phytophthora root rot are concerns. It is appreciated for size uniformity, quality and glossy dark green color.

- Place pack with high quality
- Quality fruit with good firmness and uniformity
- HR: Tm: 0 \ IR: Pc / TSWV: 0 / X spp: 0-10

NEW



## Turbo S10®

BELL / OUTDOOR

Turbo S10® (SPP20-7677 S10®) is a green, blocky bell with excellent yield potential and earliness, offering speed to market. High yield potential of XL fruit and slotted as an early, main season fall, and main season spring variety in the Southeastern US. Fruit is dark green, thick-walled, and has a good gloss to the skin.

- Early and concentrated harvest
- High yield on the front end of the crop
- HR: Tm: 0 \ IR: TSWV: 0 / X spp: 0-10

NEW



## High Roller S10®

BELL / OUTDOOR

High Roller S10® (SPP21 8373 S10®) is a mid to mid dark green, blocky bell with high yield potential and extra large size. This variety offers mid maturity and is slotted as a main season fall variety in GA and Fall, winter and spring in the Southeastern US. With a strong plant, this variety offers fruit protection and longer harvest potential into the late winter/spring growing season.

- Mid early and continuous setting
- High yield potential on a strong plant
- HR: Tm: 0 \ TSWV: 0 / X spp: 0-10



## Mercer

BELL / OUTDOOR

Mercer is well suited for growing regions where phytophthora root rot is a concern. The maturity is mid-early, with high yields of large and extra-large fruit with good quality. Plants are vigorous, sturdy and produce firm, dark green fruit that mature to an attractive deep red color.

- Widely adapted
- High yield potential with good quality
- HR: Tm: 0 / X spp: 0-3, 7, 8 \ IR: Pc



## Shasta

### BELL / OUTDOOR

Shasta is an adaptable, extra-large and large-fruited bell pepper variety with high yield potential, a strong plant and good cover. High quality fruit are smooth, firm with a glossy green and red color at maturity making it suitable for fresh or processing.

- High yield potential
- Strong plant with great cover
- HR: Tm: 0 / PVY: 0 / X spp: 0-4, 7-9 \ IR: TSWV: 0

**NEW**


## Double Up

### BELL / OUTDOOR

Double Up is a popular green to red bell pepper respected for its dependable performance in many growing regions across the world. It offers early-mid maturity with high yields of quality fruit.

- High yield potential
- Firm blocky fruit turn bright red
- HR: Tm: 0 / X spp: 0-3, 5, 7, 8



## Arica

### BELL / OUTDOOR

Arica is an adaptable, extra-large and large-fruited bell pepper variety with high yield potential and strong cover. Fruit are smooth and firm with a glossy attractive red color at maturity and it is suited for both green and mature red harvest for processing. The plant has good vigor, is compact and has a heavy first set with the ability for continuous setting.

- High yield potential
- Compact plant with great cover
- HR: Tm: 0 / X spp: 0-3, 7, 8 \ IR: TSWV: 0



## Early Summer

### BELL / OUTDOOR

Early Summer is an early to mid-early maturing, extra-large, dark green to yellow bell pepper with strong plants providing good fruit cover and a very impressive yield potential. The fruit are firm, smooth, glossy and high quality, with thick walls and a uniform blocky shape.

- Strong productive plants
- Impressive quality yellow bell
- HR: Tm: 0 / X spp: 0-5, 7-9 \ IR: TSWV: 0

## Cherokee

### BELL / OUTDOOR

Cherokee is a popular and widely adapted, green to red bell pepper well suited for open field and low-tech protected culture. The maturity is mid-early, with high yields of extra-large fruit with excellent quality. The fruit are firm, dark green and mature to red color. The plants are strong and vigorous with the ability for longer production cycling.

- Widely adapted
- High yield potential of quality fruit
- HR: Tm: 0-3 / X spp: 0-3, 7, 8 \\ IR: TSWV: 0



## Shawnee

### BELL / OUTDOOR

Shawnee (SPP21-8222) has high marketable quality with dark green color and is well suited for quality export markets. It has a tall and vigorous plant type with continuous setting for full cycle production. Widely adapted and maintains high quality while setting well in both hot and cool temperatures. Suited for both indoor low-tech and outdoor production.

- Widely adapted
- High quality blocky shape
- HR: PVY: 0 / Tm: 0 / X spp: 0-3, 7, 8

**NEW**





## Astral

### BELL / OUTDOOR

**NEW**

Astral has attractive, bright yellow fruit with high gloss. Fruit are uniform, extra large/large with a uniform blocky shape. It is well adapted to production slots from warm to cool. Plants have good vigor and cover and are well suited for multi-stem production over mid and long cycles.

- Strong plant
- High yield potential
- HR: Tm: 0-3 \ IR: TSWV: 0



## Bishop

### BELL / INDOOR

Bishop is a widely adapted and versatile green to red hybrid developed for low and mid-tech production for either two or multi-stem production. The uniform large and extra-large fruit have high quality and shelf life. It is well suited to warm to cool production seasons. Bishop is used for both green and red fruit production delivering export quality.

- Widely adapted, high yield potential
- Performs well under cold conditions
- HR: Tm: 0-3



## Aranjuez

### BELL / INDOOR

Aranjuez is an attractive large, green to orange blocky bell suited for low and mid-tech production. It is well suited to warm to cool production seasons. Aranjuez has good general performance across a wide and diverse production region.

- Easy setting, concentrated
- Quick color change to orange
- HR: Tm: 0-2



## Dorado

### ROOTSTOCK

Dorado is a hybrid pepper rootstock that is considered to be easy grafting and is well suited for both indoor and outdoor production. The roots are very vigorous and compatibility is considered excellent.

- High vigor
- Displays good compatibility with various scions
- Strong disease package combining Pc / Rs / Mi

VARIETY	TYPE	RELATIVE MATURITY*	FRUIT SIZE / SHAPE	HARVEST COLOR	PLANT HABIT	DISEASE RESISTANCE
<b>Bell Pepper - East / Outdoor</b>						
<b>Big Stack S10®</b> <i>New!</i>	Bell / Outdoor	Early	XL / Jumbo	Green	Medium	HR: Tm: 0 \ IR: Pc / TSWV: 0 / X spp: 0-10
<b>High Roller S10®</b> <i>New!</i>	Bell / Outdoor	Mid-early	L-XL / Blocky	Green	Medium-large, tall	HR: Tm: 0 \ TSWV: 0 / X spp: 0-10
<b>Mercer</b>	Bell / Outdoor	Mid-early	L-XL / Blocky	Green / Red	Medium-large, tall	HR: Tm: 0 / X spp: 0-3, 7, 8 \ IR: Pc
<b>Nitro S10®</b>	Bell / Outdoor	Mid	L-XL / Blocky	Green	Medium, compact	HR: Tm: 0 \ IR: Pc / TSWV: 0 / X spp: 0-10
<b>Turbo S10®</b> <i>New!</i>	Bell / Outdoor	Early	L-XL / Blocky	Green	Medium, open	HR: Tm: 0 \ TSWV: 0 / X spp: 0-10
<b>Bell Pepper - West / Outdoor</b>						
<b>Arica</b>	Bell / Outdoor	Early, mid-early	L-XL / Blocky	Green / Red	Medium-large, compact	HR: Tm: 0 / X spp: 0-3, 7, 8 \ IR: TSWV: 0
<b>Double Up</b>	Bell / Outdoor	Mid-early	L-XL / Blocky	Green / Red	Medium-large	HR: Tm: 0 / X spp: 0-3, 5, 7, 8
<b>Early Summer</b>	Bell / Outdoor	Mid-early	L-XL / Blocky	Yellow	Medium-large, tall	HR: Tm: 0 / X spp: 0-5, 7-9 \ IR: TSWV: 0
<b>Shasta</b> <i>New!</i>	Bell / Outdoor	Mid-early	L-XL / Blocky	Green / Red	Medium-large, tall	HR: Tm: 0 / PVY: 0 / X spp: 0-4, 7-9 \ TSWV: 0
<b>Bell Pepper - Indoor / Outdoor</b>						
<b>Astral</b> <i>New!</i>	Bell / Indoor	Mid	L-XL / Blocky	Yellow	Open, strong, tall	HR: Tm: 0-3 \ IR: TSWV: 0
<b>Aranjuez</b>	Bell / Indoor	Mid-early	L / Blocky	Orange	Open, compact, mid to mid-tall	HR: Tm: 0-2
<b>Bishop</b>	Bell / Indoor	Mid-early	L-XL / Blocky	Green / Red	Open, medium tall	HR: Tm: 0-3
<b>Cherokee</b>	Bell / Outdoor	Mid-early	L-XL / Blocky	Green	Medium-large to large	HR: Tm: 0-3 / X spp: 0-3, 7, 8 \ IR: TSWV: 0
<b>Shawnee</b> <i>New!</i>	Bell / Outdoor	Mid-early	L / Blocky	Green	Medium-large to large	HR: Tm: 0 / PVY: 0 / X spp: 0-3, 7, 8
<b>Snacking</b>						
<b>Cherry Delite</b> <i>New!</i>	Snacking	Early	M-L / Elongated tapered	Red	Tall, vigorous	HR: Tm: 0 / X spp: 0-3, 7, 8
<b>Lemon Delite</b>	Snacking	Very early, early	M-L / Flat, conical	Yellow	Medium, compact, good cover	HR: Tm: 0 / X spp: 0-3, 7, 8
<b>Mandarin Delite</b> <i>New!</i>	Snacking	Very early	M-L / Flat, conical	Orange	Medium, compact, mid cover	HR: Tm: 0
<b>Orange Delite</b>	Snacking	Very early	M-L / Flat, conical	Orange	Medium, compact, good cover	HR: Tm: 0 / X spp: 0-3, 7, 8
<b>Ruby Delite</b>	Snacking	Very early	M-L / Flat, conical	Red	Medium, compact, good cover	HR: Tm: 0 / X spp: 0-3, 7, 8
<b>Tiger Delite</b> <i>New!</i>	Snacking	Early	M-L / Elongated tapered	Orange	Tall, vigorous	HR: Tm: 0 / X spp: 0-3, 7, 8
<b>Rootstock</b>	<b>TYPE</b>	<b>ROOT SYSTEM</b>	<b>SEASON</b>	<b>GENERATIVE EFFECT</b>		<b>DISEASE RESISTANCE</b>
<b>Dorado</b> <i>New!</i>	Indoor / Outdoor	Very vigorous	Year round	High		HR: PVY: 1.2 / Tm: 0 \ IR: Pc / Mi / Mj / Rs

Disease terminology: HR = High Resistance, IR = Intermediate Resistance. Disease abbreviation code: Lt - Powdery mildew, Mi - Nematode, Pc - Phytophthora root rot, PVY - Potato Y, Rs - Bacterial wilt, TEV - Tobacco etch, Tm - Tobamovirus, TSWV - Tomato spotted wilt, X spp (Xcv) - Bacterial spot.

\* Relative Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.

\*\* - Fruit size. S - Small, M - Medium, L - Large, XL - Extra large, J - Jumbo

# Spartacus

18-22 LB

Spartacus is a uniform blocky round pumpkin with high yield potential in the "40-count"/jack-o-lantern class. Spartacus is dark orange with medium-deep ribbing and an extra-large dark handle. Spartacus is also resistant to powdery mildew.

- Extra-large attached dark-colored handle
- Dark orange color
- Uniform size and blocky round shape in the 40-count Jack O'Lantern class





## Hulk

30 LB

Hulk is an extra-large barrel shaped pumpkin that has high yield potential/fruits per acre. Hulk will set multiple fruits per plant and they will be of similar size. Hulk is dark orange color with a large embedded handle.

- High yield potential for extra-large pumpkin: fruits per acre
- Uniform shape and size
- Large embedded handle

## Thor

20-25 LB

Thor is a blocky round pumpkin with a large embedded handle in the '40 Count/Bin Class': 20-25 lbs. Thor is burnt orange in color with uniform size and shape and good yield potential.

- Burnt orange color
- Large embedded handle
- Blocky round shape



## Captain Jack

30 LB +

Captain Jack is an extra-large, dark orange Jack O'Lantern-type pumpkin. Its thick flesh and flat bottom enables the fruit to stand on its own. Extremely large, thick embedded handles match the large size of this pumpkin. Large and vigorous plants can support several fruit.

- Several large fruits per plant retain large fruit size
- Requires lower plant population to obtain larger size

## Diablo

18-22 LB

This blocky round pumpkin is ideal for the Jack O'Lantern market. Diablo produces fruit with very uniform size and shape. This pumpkin has a beautiful dark orange color with a strong, dark green embedded handle.

- Uniform size and shape
- Ideal for the Jack O'Lantern market







## Big Deal

25-30 LB

Big Deal is a 25 to 30 lbs. pumpkin that is dark orange with a large dark green handle that matches the size of the extra-large fruit. Big Deal has a strong vigorous plant and has good tolerance to powdery mildew: IR: Px.

- Dark orange color
- Large, attached, dark green handle
- IR: Px



## Large Marge

30-40 LB

This is an extremely large pumpkin (30-40 lbs.) with a dark and large embedded handle to match the fruit size. This variety can set multiple fruits per plant and maintain size. Dark orange color, traditional blocky round shape.

- Extremely large pumpkin
- Blocky round shape
- Large embedded handle to match the fruit size



## Honky Tonk

20-25 LB

Honky Tonk is a 40-count market/Jack O'Lantern-sized fruit weighing about 20 to 25 pounds. This variety is a larger version of Mrs. Wrinkles. It has a deeply ribbed, wrinkled appearance with a burnt orange color. Honky Tonk also has a dark green embedded handle.

- Ideal for the 40-count market
- Deeply ribbed and wrinkled
- 100 days maturity

## Rugrat

4-6 LB

Rugrat is an exciting new pie-class addition to our full pumpkin line-up. Fruits weigh in at five pounds and have a nice dark orange exterior and large attached handles. Rugrat is very uniform in size and shape with a high yield potential. Good powdery mildew tolerance.

- Dark orange color
- Large attached handle
- Very uniform size and shape
- High yield potential
- IR: Px

NEW



## Hijinks

7-9 LB

This extremely uniform pumpkin has a very blocky shape with nice square shoulders and medium-deep ribbing. Hijinks averages seven to nine pounds per fruit and has a nice long and dark green handle —making this variety ideal for school children.

- Consistent fruit shape and size
- AAS award winner



## Fall Splendor Plus

4-6 LB

Fall Splendor Plus has dark orange fruit with a strong vine and dark green handles for easy carrying. This variety has excellent yield potential with very uniform, smooth fruit weighing four to six pounds. Fall Splendor Plus also is a high quality, large pie size variety that both growers and school children will be proud to have.

- Very uniform
- Average weight 4-6 lb.
- IR: Px



## Earlipack

18-22 LB

Earlipack is deep orange in color, has a uniform blocky-round shape and weighs about 18 to 22 pounds. The fruit offers dark green handles and good yields that make this pumpkin great for the bin market.

- Uniform size and shape
- Very strong handle attachment
- Intermediate resistance to powdery mildew



## Mr. Wrinkles

20-30 LB

Mr. Wrinkles is a large, solid Jack O'Lantern pumpkin that has excellent dark orange color and thick flesh. Large thick handles and deep ribs, along with exceptional yields, make Mr. Wrinkles a winner.

- Strong embedded handle
- Very strong vine



## Mrs. Wrinkles

14-18 LB

The deep wrinkled ribs and burnt orange color make this pumpkin unique and an attention grabber. When you are looking for something different that stands out from the traditional Jack O'Lantern pumpkin, Mrs. Wrinkles is your choice.

- Strong embedded handle
- Deeply wrinkled ribs



## Spartan

20-25 LB

This is an exciting variety with deep green, firmly attached handles and deep orange color. Spartan is an early maturing variety and has shown to maintain its large size under hot growing conditions. These attributes along with strong vines and high yield potential make Spartan a shipper's chosen variety.

- Uniform shape and size
- Intermediate resistance to powdery mildew



## Jack Sprat

2.5-3.5 LB

Jack Sprat is an exciting new pie-class addition to our full pumpkin line-up. Fruits weigh in at three pounds and have a nice dark orange exterior and dark green embedded handles. Jack Sprat is very uniform in size and shape. It boasts high fruit numbers per plant and an excellent yield potential. Good powdery mildew tolerance.

- Nice dark green embedded handle
- Very uniform size and shape
- High fruit numbers per plant and yield potential
- HR: Px



## Kandy Korn Plus

1 LB

Dark green handles set on deep orange miniature fruit give Kandy Korn Plus great eye appeal. Kandy Korn Plus sets a tremendous amount of fruit per plant on a bush vine which saves space and maximizes the yield per acre.

- Very heavy yields
- Attractive small fruits
- A bush-type plant
- IR: Px



## Toad

1.5-2.5 LB

This small, semi-hard shell variety is early maturing, yields a high number of tear-drop-shaped fruit on bush-type plants and has nice embedded handles. Toad's bright orange color and multiple bumps and warts truly give it unique character. Perfect for holiday decorating!

- Tear-drop shape
- Nice embedded handle
- A bush-type plant



## Flat White Boer Ford

10-15 LB

White Flat Boer Ford is an edible pumpkin in other parts of the world that can be used as an ornamental decoration for Halloween and Fall. This pumpkin offers a unique color and shape for specialty markets. This variety is a stackable pumpkin weighing 10 to 15 pounds. The white color on this pumpkin stays white and does not bleach out or yellow over time. White Flat Boer Ford has bright orange flesh and a sweet taste. It stores very well.

- Unique color and shape for specialty markets
- Stores well

## AT-A-GLANCE CHART

VARIETY	FRUIT SIZE / SHAPE	MATURITY FROM DIRECT SEED*	VINE TYPE	SKIN COLOR / RIBBING	HANDLE COLOR / LENGTH	DISEASE RESISTANCE	USES & REMARKS
<b>Big Deal</b>	25-30 lb, 13 x 14" / Blocky oval	100	Indeterminate	Dark orange / Medium ribs	Dark green, large / 4.5"	IR: Px	Big Deal has a strong vigorous plant and has good tolerance to powdery mildew.
<b>Captain Jack</b>	30 lb +, 15 x 13" / Tall barrel	110	Indeterminate	Dark orange / Medium ribs	Dark green / 4"		Several large fruit per plant and will retain large fruit size. (This variety requires lower plant population to obtain larger size).
<b>Diablo</b>	18-22 lb, 9 x 11" / Round blocky	100	Semi-determinate	Dark orange / Medium ribs	Dark green / 4.5"	IR: Px	Uniform size and shape make Diablo ideal for the Jack O'Lantern market.
<b>Earlpack</b>	18-22 lb, 11.5 x 13" / Round blocky	95	Semi-determinate	Dark orange	Dark green / 4.5"	IR: Px	Very strong handle attachment. Uniform shape and size. Intermediate resistance to powdery mildew.
<b>Fall Splendor Plus</b>	5-6 lb, 6.7 x 8.0" / Round blocky	105	Semi-determinate	Dark orange / Medium ribs	Dark green / 4.5"	IR: Px	This variety has excellent yield potential with very uniform, smooth fruit weighing 5 to 6 lb.
<b>Hijinks</b>	7-9 lb, 7.5 x 8" / Round blocky	100	Indeterminate	Dark orange / Shallow ribs	Dark green / 5"		The consistency of the fruit shape and size makes this variety a good all around pumpkin.
<b>Honky Tonk</b>	20-25 lb, 10 x 13" / Round blocky	100	Semi-determinate	Burnt orange / Deep wrinkled	Dark green / 4"	IR: Px	This is a larger version of Mrs. Wrinkles with burnt orange color, deep wrinkled skin and a dark embedded handle.
<b>Hulk</b>	30 lb, 15 x 13" / Barrel	105	Indeterminate	Dark orange / Ribbed	Dark green / 5"		Very uniform fruit with the ability to set several large fruits per plant.
<b>Jack Sprat</b>	2-3 lb, 5 x 6" / Round blocky	100	Semi-determinate	Dark orange / Shallow ribs	Dark green / 3.5"	HR: Px	It boasts high fruit numbers per plant and an excellent yield potential.
<b>Kandy Korn Plus</b>	1 lb, 3.5 x 4.25" / Oblate	85	Bush	Orange / Smooth	Dark green / 3"	IR: Px	Very heavy yields on a bush type plant, attractive small fruit.
<b>Large Marge</b>	30-40 lb, 13 x 13" / Round blocky	105	Indeterminate	Dark orange / Ribbed	Dark green / 5"		Extremely large pumpkin; 30-40 lbs. per fruit.
<b>Mr. Wrinkles</b>	20-30 lb, 13 x 10.5" / Barrel shaped	100	Indeterminate	Dark orange / Deeply ribbed and wrinkled	Dark green / 5"		Strong embedded handle. Very strong vine.
<b>Mrs. Wrinkles</b>	14-18 lb, 9 x 10" / Round blocky	100	Semi-determinate	Burnt orange / Deeply ribbed and wrinkled	Dark green / 4"		Strong embedded handle, deeply wrinkled ribs.
<b>Rugrat <i>New!</i></b>	4-6 lb, 7 x 7" / Round blocky	105	Semi restricted vine	Dark orange / Ribbed	Medium dark green / 4.5"	IR: Px	Rugrat is an exciting new pie-class addition to our full pumpkin line-up.
<b>Spartacus</b>	18-22 lb, 12 x 11" / Round blocky	100	Semi-determinate	Dark orange / Medium-deep ribbing	Dark green / 5"	IR: Px	Uniform size and blocky round shape in the 40 count Jack-o-Lantern class.
<b>Spartan</b>	20-25 lb, 12 x 11.75" / Round blocky	95	Semi-determinate	Burnt orange / Very deep ribbing	Medium dark green / 3.5"	IR: Px	Uniform shape and size. Average weight is 22 lb.
<b>Thor</b>	20-25 lb, 11.5 x 13" / Round blocky	100	Indeterminate	Burnt orange / Medium ribbing	Dark green / 4.5"		Very nice uniform Jack O'Lantern pumpkin with burnt orange color and a nice dark attached handle.
<b>Toad</b>	1.5-2.5 lb, 5 x 6" / Tear drop	85	Bush	Bright to dark orange / Warty	Dark green / 4"		Toad's bright orange color and multiple bumps and warts truly give it unique character.
<b>Flat White Boer Ford</b>	10-15 lb / Flattened	110-120	Indeterminate	Creamy white / Widely spaced, medium deep ribs	Light green to brown / 2"	HR: Px	Unique white color and flat shape for the specialty market. Also used for eating in other parts of the world. Maxima family.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance. Disease code: Px - Powdery Mildew.

\* Days to Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.

## Crunchy Crimson

### BUNCH

This outstanding variety yields roots with superior quality and uniformity. These roots have bright red skin with excellent interior quality and are very slow to develop pith. Crunchy Crimson grows well under cool conditions.

- Vigorous tops under cool conditions
- High yields with good uniformity
- Tolerant to pith



## Crunchy King

### CELLO / BUNCH

This variety has excellent shape and uniformity. It has bright white interior with attractive dark red skin and is mid-early maturing. Crunchy King holds its round shape and does well all season, but it is strongest in fall and spring slots. It has very high recovery and is slow to pith.

- Mid-early maturity
- Mid top height
- Slow to pith, great internal quality



## Crunchy Royale

### CELLO / BUNCH

Crunchy Royale is a dark red, round radish ideal for bunching or cello pack. It yields high quality and extremely uniform roots. Overall, Crunchy Royale offers excellent internal and external color and a high pack-out rate for growers.

- Excellent uniformity
- Grows well under cool conditions
- Tolerant to pith



## Cherriette

### CELLO / BUNCH

Cherriette is a warm season radish used in the fall and spring in most areas. It has a bright red color and short tops. This variety is uniform and slow to develop pith. Cherriette performs well under warmer conditions and yields better than O.P.s in its class.

- Short top type, very uniform size and shape
- Grows well in warm regions
- Tolerant to pith





## Fireball

### BUNCH

Fireball offers excellent dark red roots with uniform tops. Yield potential is much greater with Fireball because of its hybrid uniformity.

- Performs well in warm weather
- Hybrid uniformity



## Crunchy Delight

### MULTI-USE

Crunchy Delight is a summer type radish that displays very nice uniformity and internal qualities. It is tolerant to cracking and pithing. Medium-height erect tops connect to consistently round bulb shaped fruit with a glossy scarlet red exterior and brilliant white interior. Crunchy Delight displays excellent yield potential, especially in Northern growing areas.

- Summer type radish
- Medium top height



## Regal Red

### MULTI-USE

Regal Red is a fast-maturing summer radish variety that produces uniform, round bulbs even in warm conditions. It is a consistent performer in many regions for summer production, as well as spring/fall seasons of winter radish growing areas, and has a medium-short top.

- Holds round shape under warm conditions
- Medium-short top
- Multi use



## Easter Egg II

### BUNCH

Developed for the home garden and novelty bunching trade, Easter Egg II offers a range of six colors. These radishes are round, large and late to become pithy. Sliced into a garden salad or included in a vegetable tray, Easter Egg II is certain to add distinctive colors and flavor.

- Delightful colors
- Delicate flavor
- Offers six shades of red, purple and white



## French Breakfast

### CELLO / BUNCH

French Breakfast features a cylindrical root, two to three inches in length. The root is 2/3 scarlet with a white tip. The mild flavor and early/mid maturity make this a favorite in its class.

- Delicate flavor
- Excellent for Home Garden



## Champion

### BUNCH

Champion is a uniform, large, round-oval radish with bright cherry-red color. Vigorous, tall tops with strong attachments, along with roots which are very late to become pithy, lead to greater grower flexibility for time of harvest. Champion is a standard for short-day or cool-season bunching.

- Late to pith
- Strong tops for upland soils



## Shunkyo Semi-Long

### SPECIALTY

This attractive Asian type boasts a hot/sweet flavored 4-5 inch long root. The slow-bolting, pink-stemmed tops are also edible and can be grown for baby greens mixes. Can be sown throughout the year.

- Elongated roots are 4-5 inches long
- Attractive Asian-type
- Can be sown throughout the year



## Starburst

### FRESH, SPECIALTY, ETHNIC

Starburst is a daikon-type radish, characterized by a bright red interior and a white/green exterior. Expect maturity in about 60 days, depending on day length and temperatures. Performance will be best in most areas if seeds are planted in early spring or fall. Mature roots are tangerine-sized with upright bright green foliage. Use to dress up salads or slaws or pickle them to preserve.

- Beautiful bright red interior
- Early spring or fall crop
- Ideal for specialty markets



## Stargazer




### RADISH: SPECIALTY


Stargazer is our newest watermelon type radish. Rosy pink interior, white exterior with excellent color contrast. Recommended for summer plantings and fall harvest. Mild radish flavor with crisp, juicy texture. Upright bright green tops with strong attachment. Can be used as a delicious addition to salads, or for slaw or pickling.

- Beautiful color contrast
- Strong top attachment
- Summer planting for fall harvest



## AT-A-GLANCE CHART

VARIETY	DAYS TO MATURITY FROM DIRECT SEED*	TOP LENGTH	ROOT CHARACTERISTICS	USES & REMARKS
<b>Champion</b> 	28	Medium	Globe, bright red	Late to get pithy. Strong tops for upland soils. Performs well for bunching and shipping.
<b>Cherriette</b>	24	3"	Globe, cherry red	Short top type for bunch or cello. Grows well in warm regions. Very uniform size and shape.
<b>Crunchy Crimson</b>	28	4"	Round, dark red roots, medium-large	Vigorous top under cool condition. High yields with good uniformity.
<b>Crunchy Delight</b>	28	Medium	Round, scarlet red, large	Delight displays excellent yield potential, especially in Northern growing areas.
<b>Crunchy King</b>	28	Medium	Round, scarlet red	Crunchy King holds its round shape and does well all season, but it is strongest in fall and spring slots.
<b>Crunchy Royale</b>	28	4"	Round, dark red roots,	Excellent uniformity with nice exterior color. Grows well under cool conditions. Bunch or cello type with high pack-out.
<b>Easter Egg II</b> 	28	Tall	Round, shades of red, purple and white	Delightful colors and delicate flavor. Offers six shades of red, purple and white. Home garden and specialty bunch.
<b>Fireball</b>	30	3.5"	Round, dark red	Performs well in warm weather. Hybrid uniformity.
<b>French Breakfast</b> 	25	Medium	Oblong, scarlet with white tip	Excellent for home garden. Delicate flavor.
<b>Regal Red</b>	24	Medium-short	Round, scarlet red	Regal Red is a fast-maturing summer radish variety that produces uniform, round bulbs.
<b>Shunkyo Semi-Long</b>	30-35	10-14"	Cylindrical, tapered, pink	The slow-bolting, pink-stemmed tops are also edible and can be grown for baby greens mixes.
<b>Starburst</b>	60	Medium-tall	Flat round, rosy pink, bright red	Starburst is a daikon-type radish, characterized by a bright red interior and a white/green exterior.
<b>Stargazer</b>	55-60	Medium-tall	Globe, rosy pink	Mild flavor. Popular for both home garden and fresh market.

 = Open Pollinated. \* Days to Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.

# Affluence

## BABY LEAF, BUNCH, CELLO

Affluence (SSP1628) is a moderate to fast-growing dark green baby leaf variety. It has resistance to Downy Mildew 1-20, making it a great choice for organic spinach growers. It has beautiful smooth round oval leaves. Affluence has an upright plant habit, a great feature for bunch or clip growers.

- Dark green leaves
- HR: Pe: 1-20 Downy Mildew resistance
- Uniform round oval leaves





## Riverside

### BABY LEAF

Riverside is a very dark green, smooth, spade-shaped baby leaf variety. It has a moderate growth rate and an upright plant habit. It is a perfect choice for west coast baby leaf growers who are looking for a premium quality product. In addition, Riverside has downy mildew resistance for growers who require a premium disease package.

- Baby leaf variety
- Very dark green
- Downy mildew resistance



## Lakeside

### BABY LEAF

Lakeside has uniform thick dark green smooth leaves. It has a round to oval leaf shape with an upright plant habit that makes it easy to harvest. It is a very versatile variety it can be used for baby leaf, bunch or clip.

- Slow-moderate growing
- Dark green leaves
- Upright plant habit



## C2-606

### BABY LEAF

C2-606 is a high yielding, smooth, dark green baby leaf variety. It has uniform spade-shaped leaves. C2-606 has an upright plant habit and is very bolt tolerant. This variety is a slower growing variety that is well suited for warmer planting slots.

- Dark green
- Slow growing
- High Pfs resistance



## Oceanside

### BABY LEAF

Oceanside is a slow – moderate growing dark green spinach variety. It has nice thick leaves that are upright in plant habit. Oceanside has uniform smooth round /oval leaves. Oceanside is a versatile variety it can be used for baby leaf, bunch or clip.

- Dark green color
- Nice thick leaf
- Round/oval leaf shape

## Income

### BABY LEAF, BUNCH, CLIP

Income (SSP1631) is a moderate to fast-growing baby leaf spinach variety. It performs well in the cooler growing slots where speed of growth is needed. It has a very uniform round oval leaf shape. Income has smooth dark green leaves that are very attractive to growers and retailers.

- Faster growing
- HR: Pe: 1-20
- Performs well in cooler growing slots



## Countryside

### BABY LEAF

Countryside is a beautiful dark green very uniform baby leaf spinach variety. It has thick smooth round oval leaves. Countryside has good holding ability for baby leaf and it has acceptable bolt tolerance for fresh market growers. Due to its moderate growth habit, it has performed well in many West Coast baby leaf growing slots.

- Moderate growing
- Great uniformity
- Good holding ability



## Darkside

### BABY LEAF

Darkside is a new addition to our baby leaf spinach program. It has uniform dark green smooth round oval leaves. It has a nice upright plant habit. Darkside has thick leaves and good tonnage. It has a slow to moderate growth habit. It makes an excellent choice for baby leaf growers.

- Dark green leaf color
- Thick leaves
- Very uniform shape and size



## Persius

### PROCESSING

Persius is an excellent yielding processing spinach variety. It has a moderate growth rate and a slightly lobed, smooth leaf shape. Persius has a semi-upright plant habit and moderate bolt tolerance. The preferred growing window for this variety is fall or early winter. Persius offers a combined disease package for downy mildew and white rust.

- Processing variety
- High yields
- Combined downy mildew and white rust disease package



## Seaside

### BUNCH, MULTI, BABY LEAF, CLIP, FRESH

Seaside is a very uniform baby leaf variety. It has a moderate growth rate and an upright plant habit. Seaside has a nice, smooth, thick, very dark green, spade-shaped leaf making it a perfect choice for baby leaf growers. Seaside also has downy mildew resistance for growers who require a premium disease package.

- Thick leaf
- Uniform leaf
- Very dark green color
- HR: Pe: 1-11, 15-16, 19-20 \ IR: 12, 14



## Imperial Beach

### BUNCH

Imperial Beach is a dark green bunch spinach variety. It has an Asian leaf type that is smooth with lobbing. It is a very uniform variety for leaf shape and size. It has an upright plant habit making it easy to harvest. Imperial Beach has flexible but strong petioles resulting in less stem breakage. It is a fast-growing variety.

- Flexible but strong petioles
- Upright plant habit
- Fast-growing variety



## Imperial Valley

### BUNCH

Imperial Valley is a dark green smooth leaf spinach variety for fresh markets. It has uniform Asian lobbed leaves with flexible and strong petioles. It has fast growth and an upright plant habit making it a great choice for bunch growers.

- Dark green smooth leaf
- Flexible and strong petioles
- Fast growth habit



## Olympia

### PROCESSING

Olympia is a moderate growing, processing variety. It has large, smooth, elongated oval, medium green leaves. It is a bolt tolerant variety with a preferred growing window that is early spring or late summer. Olympia offers high yields and multi cuts for processing growers due to its bolt tolerance and large leaves. In addition, Olympia has resistance to races 11-12, 14 & 16 of downy mildew.

- Round – Oval leaf
- Processing variety
- Slow bolting



## Prosper

### BABY LEAF, CLIP, MULTI

Prosper is a new baby leaf spinach variety with great disease resistance, making it attractive to multiple growers and markets. This baby leaf spinach holds a uniform shape and size and has smooth, dark green, upright leaves that are thick which results in high tonnage. Prosper has a slow to moderate growth rate.

- Disease resistance – HR: Pe: 1-20
- Smooth dark green upright leaves
- Very uniform shape and size



## Plymouth

### PROCESSING

Plymouth is a new processing or fresh market spinach variety. It has smooth, medium-dark green leaves that are uniform in shape and size. Its upright plant habit makes it a good choice for processing growers or fresh market growers. Plymouth is a moderate to fast-growing variety and has great yield potential.

- New processing or fresh market spinach variety
- Upright plant habit
- Moderate to fast-growing

## Reward

### BABY LEAF, BUNCH, CLIP

Reward (SSP1627) is a moderate to fast-growing baby leaf variety that can be used for organic growers due to its full Downy Mildew resistance. It has dark green, smooth leaves that have an upright plant habit. Reward has very uniform round oval leaves.

- Disease Resistance
- HR: Pe: 1-20
- Moderate growing
- Dark green leaves



## Tribute

### BABY LEAF

Dark green, round-oval, baby leaf variety with a very uniform shape and size. Tribute has a nice puckered leaf texture that makes it very attractive. It is a moderate growing variety with an upright plant habit. Tribute is a new variety to our baby leaf product line.

- Moderate growing speed
- Nice puckered texture
- Great overall leaf color and uniformity



## AT-A-GLANCE CHART

VARIETY	TYPE	DAYS TO MATURITY FROM DIRECT SEED*	PLANT TYPE / LEAF SHAPE	LEAF COLOR	BOLTING RESISTANCE	DISEASE RESISTANCE	USES & REMARKS
<b>Affluence</b>	Baby Leaf / Bunch / Cello	20-27	Erect / Oval, round	Dark green		HR: Pe: 1-20	Affluence has an upright plant habit, a great feature for bunch or clip growers.
<b>C2-606</b>	Micro / Baby Leaf	12-13 / 20-25	Upright / Smooth, spade	Dark green	Excellent	HR: Pe: 1-9, 11-16, 18-20	This variety is a slower growing variety that is well suited for warmer planting slots.
<b>Countryside</b>	Baby Leaf	23-27	Upright / Smooth, oval, round	Dark green	Moderate	HR: Pe: 1-12, 14-16, 19-20	Countryside has good holding ability for baby leaf and it has acceptable bolt tolerance for fresh market growers.
<b>Darkside</b>	Baby Leaf	27-32	Upright / Smooth, oval, round	Dark green	Moderate	HR: Pe: 1-12, 14-16, 19-20 \\ IR: Fos	It has a slow to moderate growth habit. It makes an excellent choice for baby leaf growers.
<b>Imperial Beach</b>	Mature	35-40	Upright / Smooth, Asian, heavily-lobed	Dark green		HR: Pe: 1-11, 13, 15, 16	It has an upright plant habit making it easy to harvest.
<b>Imperial Valley</b>	Mature	30-40	Upright / Slightly lobed, Asian	Dark green		HR: Pe: 1-11, 13, 15, 16	It has fast growth and an upright plant habit making it a great choice for bunch growers.
<b>Income</b>	Baby Leaf / Bunch / Clip	20-27	Erect / Oval, round	Dark green		HR: Pe: 1-20	Income has smooth dark green leaves that are very attractive to growers and retailers.
<b>Lakeside</b>	Micro / Baby Leaf	12-13 / 25-30	Erect / Smooth, round, oval	Dark green	High, moderate	HR: Pe: 1-11, 15-16, 19-20 \\ IR: Pfs: 12, 14	Very versatile variety that can be used for baby leaf, bunch or clip.
<b>Oceanside</b>	Baby Leaf	25-30	Erect / Smooth, round, oval	Dark green	Low	HR: Pe: 1-9, 11, 13, 15-16, 18-20, IR: Pfs: 12, 14	Oceanside is a versatile variety that can be used for baby leaf, bunch or clip. IR: S. Beticola, IR: S. Vesicularium
<b>Olympia</b>	Processing	45-50	Smooth, semi-upright / Oval	Green	High	HR: Pe: 1-3, 5, 8, 9, 11, 12, 14, 16	A bolt tolerant variety for spring and summer production.
<b>Persius</b>	Processing	45-50	Smooth, semi-upright / Semi lobed	Green	Moderate	HR: Pe: 1, 3, 5, 8, 9, 11-12, 14, 16 & HR: Ao	Well suited for multi-cuts for processing markets. IR: S. Vesicularium
<b>Plymouth</b>	Processing	40-45	Erect, upright / Smooth, uniform	Dark green		HR: Pe: 1-11, 13, 15, 16	Plymouth is a moderate to fast-growing variety and has great yield potential.
<b>Prosper</b>	Baby Leaf / Clip / Multi	25-30	Erect / Smooth, oval, round	Dark green	Moderate	HR: Pe: 1-20 \\ IR: Fos	This baby leaf spinach holds a uniform shape and size and has smooth, dark green
<b>Reward</b>	Baby Leaf / Bunch / Clip	20-27	Erect / Smooth, round, oval	Dark green		HR: Pe: 1-20	Reward has dark green, smooth leaves that have an upright plant habit.
<b>Riverside</b>	Baby Leaf	25-30	Smooth, upright / Spade	Very dark green	Moderate	HR: Pe: 1-11, 15-16, 19-20 \\ IR: 12, 14	A very dark green, spade shape baby leaf variety.
<b>Seaside</b>	Micro / Baby Leaf	12-13 / 25-30	Smooth, upright / Spade	Dark green	Moderate	HR: Pe: 1-11, 15-16, 19-20 \\ IR: 12, 14	A slow growing, smooth dark baby leaf variety.
<b>Tribute</b>	Baby Leaf	20-25	Erect / Smooth, oval, round	Dark green		HR: Pe: 1-12, 14, 16, 20	Tribute has a nice puckered leaf texture that makes it very attractive.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance. Disease code: Ao - White Rust, Pe - Downy mildew.

\* Days to Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.

# Ceres

## BUTTERNUT

Ceres is an early maturing fresh market variety. Ceres has a traditional butternut shape and a very smooth, no ribbing, exterior. Ceres has a vigorous plant habit with intermediate resistance to powdery mildew: IR: Px.

- Early maturing variety: 90-95 days from direct seed
- Fresh market: 3.5 – 4.5 lbs. per fruit







## Atlas

### BUTTERNUT

This commercial F1 hybrid butternut offers high yields of uniformly-sized and shaped fruit. Atlas is a mid-maturing variety at 100-110 days with strong plant vigor and short vine. The fruit color is cream with dark orange flesh. This winter squash has a cylindrical shape with a slight bulb, making it ideal for processing.

- Medium vine
- High density
- Disease Resistance IR: Px



## Genesis

### BUTTERNUT

Genesis is a processing-type butternut squash that is extra large in size with a thick, long neck with little to no ribbing. This variety is noted for good storability, and vigorous, strong vines with large yield potential. Disease resistance: HR:Px.

- Extra-large size
- Long straight neck with little to no ribbing



## Polaris

### BUTTERNUT

Polaris is a medium-sized, traditionally-shaped (Waltham type) butternut squash for fresh and processing markets. This strong and vigorous plant yields a high number of very uniformly-sized and shaped fruit per plant. Fruit have a smooth tan exterior and bright orange interior. Polaris has also shown good tolerance to cracking.

- Very uniform in both shape and size
- High yield potential
- Disease Resistance HR: Px

## Quantum BUTTERNUT

Quantum has exceptional uniformity of size and shape, a thick neck and a small seed cavity. This hybrid's strong vigorous plant produces a high number of fruit with a smooth tan exterior and bright orange flesh. Quantum has shown good tolerance to cracking. Quantum is a great tasting butternut squash.

- Uniform size and shape
- Fruits have a thick neck
- Strong, vigorous vines
- Disease Resistance HR: Px



## Little Dipper BUTTERNUT

Little Dipper is a "mini" traditional-shaped butternut squash that can even be called personal-sized! It weighs in at about 2 pounds per fruit. Its plant habit is full vine with vigorous growth and has potential to produce a high amount of very uniform fruit.

- A small/personal sized butternut – 2 lbs. per fruit average
- Full vine, very vigorous plant, high yield potential/fruit count per plant
- Very uniform shape and size
- Disease Resistance HR: Px



## Primavera SPAGHETTI

Primavera is a high yielding hybrid vegetable spaghetti squash. It has similar size to the standard O.P. variety with nice canary-yellow skin color at maturity. The fruit have excellent uniformity in size and shape, growing on a restricted vine that does not get as long as the standard O.P.

- High-yielding hybrid
- Excellent uniformity in size and shape
- Nice canary yellow skin color at maturity



## Vegetable Spaghetti SPAGHETTI

Vegetable Spaghetti is a popular squash. It produces fruit about 2.5–3 pounds and has light yellow color, with noodle-like strands inside. The fruit is oval in shape and has a canary yellow exterior at maturity.

- Original OP Spaghetti squash introduced to America by Sakata
- Cooked flesh separates into noodle-like strands



## Kurihomare

### KABOCHA

Kurihomare is a large (4.5-5.5 lb) Kabocha squash variety with an exceptional 'nutty' taste and brilliant yellow flesh. Its vigorous vine and strong plant habit allow for good growth and pollen supply, even in cold conditions. Kurihomare has good fruit setting ability and produces high yields of nice, dark green fruit.

- Vigorous plant with strong growth even in cold conditions
- Good fruit setting ability with high yield
- Brilliant yellow and melty-powdery flesh



## Sweet Dumpling

### SPECIALTY

Sweet Dumpling is a very popular squash because it can be used for ornamental as well as culinary purposes. The fruit shape is round with high shoulders. The size is small (8-10 ounces). The skin color is creamy with dark green stripes and a light yellow interior flesh color. It has a smooth flesh texture with a delicate flavor.

- Sweet delicate flavor
- Highly ornamental
- Convenient fruit size



## Tivoli

### SPAGHETTI

Tivoli is an AAS Award Winner. This hybrid is the first bush Spaghetti Squash. Like other bush winter squash, it will produce short vines after the initial fruit set. Tivoli has a creamy flesh and small plant habit that offers high yield potential per acre.

- Unique, space-saving bush plant
- Typical spaghetti squash fruit

## Triumph

### ZUCCHINI

Medium-dark green zucchini with reduced spines, and open plant architecture for easy harvest. Excellent yield potential and wide market adaptability.

- Reduced plant spines
- Open plant architecture for easy harvest
- Excellent yield potential



## Endeavor

### ZUCCHINI

Endeavor is a vigorous-growing variety that yields large, small-spined fruit that are medium dark green and glossy. Plant has a nice open habit. This variety is suitable for many growing areas.

- Vigorous, open, easy to harvest plants
- Early and steady yields





## Fiesta


### ZUCCHINI

Fiesta offers spineless petioles, which produce outstanding yields with minimal harvest damage. The open plant habit allows for ease of harvest for the uniformly shaped and sized fruit.

- Spineless for easy harvest and little fruit damage
- High yield potential

## AT-A-GLANCE CHART

VARIETY	TYPE	DAYS TO MATURITY FROM DIRECT SEED*	FRUIT SHAPE	SIZE / WEIGHT	SKIN CHARACTERISTICS	PLANT HABIT	USES & REMARKS
<b>Atlas</b>	Butternut	100-110	Cylindrical	5-7 lb	Cream with dark orange flesh	Vigorous	Medium vine and high density. Ideal for processing. Disease Resistance IR: Px
<b>Ceres</b>	Butternut	90-95	Cylindrical	3.5-4.5 lb	Cream with dark orange flesh	Vigorous	Ceres has a traditional butternut shape and a very smooth, no ribbing, exterior. IR: Px
<b>Endeavor</b>	Zucchini	45	Cylindrical	7 x 2"	Dark green	Large, open	Uniform, glossy fruit. Maintains shape. High yields. Disease Resistance IR: ZYMV / WMV / PRSV / Sf
<b>Fiesta</b>	Zucchini	45	Long, cylindrical	7 x 2"	Black green	Open	Spineless for easy harvest and little fruit damage. High yield potential. Very dark colored fruit.
<b>Genesis</b>	Butternut	100-110	Long, shallow ribbed	Extra-large / 5 lb	Smooth, tan	Vigorous	Extra-large size. Long straight neck with little to no ribbing. Disease Resistance HR: Px
<b>Kurihomare</b>	Kabocha	100	Oblate	4.5-5.5 lb	Dark green with yellow flesh	Vigorous	Kurihomare has good fruit setting ability and produces high yields of nice, dark green fruit.
<b>Little Dipper</b>	Butternut	100-110	Cylindrical	2 lb	Tan at maturity	Vigorous	Full vine, very vigorous plant, high yield potential / fruit count per plant. Disease Resistance HR: Px
<b>Polaris</b>	Butternut	100-110	Cylindrical	3-5 lb	Cream with bright orange flesh	Vigorous	Very uniform in both shape and size. High yield potential. Disease Resistance HR: Px
<b>Primavera</b>	Spaghetti	90	Oval	Medium / 2.5-3 lb	Smooth, canary yellow	Restricted vine	High-yielding hybrid. Excellent uniformity in size and shape
<b>Quantum</b>	Butternut	100-110	Cylindrical	2.5-4.5 lb	Buff/Tan with bright orange flesh	Vigorous	Uniform size and shape makes Quantum ideal for the "boxing"/fresh market. Disease Resistance HR: Px
<b>Sweet Dumpling</b> 	Specialty	82	Round	Small, 4.5 x 3.5"	Dark green stripes on cream	Vigorous	Popular squash, sweet and tender plus ornamental. Convenient small size.
<b>Tivoli</b>	Spaghetti	98	Oval	Large / 4-5 lb	Smooth, light creamy yellow	Vigorous	Unique, space saving bush habit with typical spaghetti squash fruit. AAS winner.
<b>Triumph</b>	Zucchini	44	Cylindrical	7.5 x 1.75-2"	Smooth, medium dark green	Open, semi upright	Excellent yield potential.
<b>Vegetable Spaghetti</b> 	Spaghetti	90	Oval, long	Medium / 2.5-3 lb	Smooth, canary yellow	Vigorous	Cooked flesh separates into noodle-like strands. Introduced to America by Sakata.

 = Open Pollinated. \* Days to Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.

## Ruby Fresh

### BABY LEAF

Ruby Fresh is a moderate growing baby leaf swiss chard variety. It has bright red petioles with a well-defined venation. It has medium-dark green leaves with an upright plant habit. It has thick round to oval leaves. Ruby Fresh is a great choice for baby leaf or spring mix growers.

- Medium-dark green leaves
- Bright red petiole color
- Great venation
- Moderate growing



## Eldorado

### BABY LEAF / MATURE

Eldorado is a classy Swiss chard variety. It has unique yellow-golden petioles paired with smooth, green leaves making it an attractive variety for baby leaf, fresh market growers and home gardeners. Eldorado has an upright plant habit and a high bolt tolerance which results in easy harvesting.

- Nice Yellow – Golden petioles
- Bolt Tolerant
- Upright plant habit



## Rhubarb

### BABY LEAF / MATURE

Rhubarb is a standard for Swiss chard varieties. It has dark red petioles and dark green, savoy leaves. It has an upright plant habit and a moderate bolt tolerance. It is well suited for baby leaf, fresh market, and home gardens.

- Dark red petioles and dark green leaves
- Great for baby leaf, fresh market or home gardens



## Silverado

### BABY LEAF / MATURE

Silverado is a slower growing Swiss chard variety. It has nice white petioles paired with dark green, glossy leaves. It is a perfect choice for any baby leaf or fresh market grower. Silverado is a bolt tolerant variety and has an upright plant habit.

- Slow growing
- Nice white petioles with dark green glossy leaves



## Celebration

MATURE / MICRO

Celebration is a multi-colored chard. This line exhibits highly uniform plants with dark green, glossy leaves. It has vibrant multi-colored petioles with a high percentage of red, pink, yellow and orange chards. Celebration is a great variety for fresh market growers, home gardeners and specialty markets.

- High percentage of bright colors and few whites
- Ideal for specialty markets
- Can be used as an ornamental



## Fire Fresh

BABY LEAF

Fire Fresh has bright red petioles and medium-dark green leaves that make it a great choice for baby leaf or spring mix growers. It has a moderate to fast growth rate and an upright plant habit. It has long oval leaves that have a slight texture. Fire Fresh has HR: Cb and IR: Pfb resistance.

- Bright red petiole color
- Excellent venation contrast with medium-dark green leaves



## Peppermint

MATURE / MICRO

Peppermint is in class by itself. Its white petioles with pink stripes from bottom to top create a visual pop that will catch any eye. It has glossy, dark green, savoy leaves. Peppermint is a bolt tolerant Swiss chard variety. It is a perfect variety for fresh markets, home gardens and specialty markets.

- Beautiful white petiole with pink stripes
- Dark green, glossy leaves
- U.S. PVP No. 201100151

# Gold Spark

## INDETERMINATE GRAPE

Gold Spark is a great tasting indeterminate yellow grape variety with high yield potential and consistent Brix throughout the season. Fruit size is consistently between 12-14g with great firmness and excellent shelf life. It can be used in outdoor environments or low-tech hydroponic applications. Plants display strong vigor with medium height.

- High resistance to ToMV: 0-2
- Very good fruit size and yield potential
- Strong vigor with medium plant height







## Diamond Crush

### DETERMINATE GRAPE

Diamond Crush (STM1788) is a widely adapted, early maturing grape, on mid-compact, determinate plants. Setting is prolific. Fruit are very firm, smooth and have a uniform green shoulder. The disease resistance package is excellent.

- Versatile
- Multi-disease resistance (Fol: 1-3, TYLCV, TSWV)
- Very firm fruit have long shelf life

NEW



## Carmesin

### DETERMINATE GRAPE

Carmesin has a semi-determinate plant with good vigor and high yield potential. It is well adapted for long cycle production for open field staking and low-tech protected culture. Fruit are firm, bright red and have good shelf life. It performs well in Sinaloa and Baja with consistent Brix and flavor.

- Good plant vigor with high yield potential
- Flavor and Brix potential are good for this type
- Less labor than indeterminate plant



## Ruby Crush

### DETERMINATE GRAPE

Ruby Crush is a widely adapted, early maturing grape, on mid-compact, determinate plants with good vigor. Setting and size is very good through the plant with final yield potential being high. Limited to no pruning is appropriate for this variety. Ruby Crush has deep red fruit that are very smooth, uniform and firm with a good flavor profile for a determinate grape.

- Export quality
- Very labor friendly
- High yield potential



## Amai

### INDETERMINATE GRAPE

Amai is a highly productive indeterminate grape tomato that performs very well in the early and main season slots. It offers medium-tall and vigorous plants with good leaf cover and maintains good fruit size and shape uniformity throughout the production cycle. The fruit are high quality with a rich deep red color and good flavor. Amai is used for indoor and outdoor production.

- Excellent fruit set
- Very uniform shape and size
- Widely adapted to both indoor and outdoor production



## Sweet Hearts

### INDETERMINATE GRAPE

Sweet Hearts is a leading grape tomato that is brilliant red, has excellent flavor, shelf life and resistance to cracking. It is an indeterminate plant that has good vigor and produces early impressive yields with continuous sets and full clusters of very firm fruit of excellent quality. Sweet Hearts is well suited for single fruit harvest and adapted for both indoor and outdoor production.

- Excellent crack resistance
- Excellent set, very versatile
- Can be used in both indoor/outdoor productions

## Conde

### INDETERMINATE GRAPE

Conde is a multi disease resistance grape with high yield potential, good flavor and is strong against cracking. Suited for open field, low tech, and medium tech production.

- High yield potential
- Excellent crack resistance
- Very versatile set



## Murastar

### INDETERMINATE GRAPE

Murastar is an indeterminate grape with an attractive and unique deep purple color, with firm fruit and incredibly delicious flavor. The plants have medium vigor with generative fruiting habit and is best paired with a high vigor rootstock for long cycle production. The deep purple color is noticeably distinct from brown and is considered a great addition to medley packs.

- Striking purple color
- High yield potential
- Delicious flavor with high Brix

## Crimson Star

### INDETERMINATE GRAPE

Crimson Star is full of flavor with excellent crunch, juice content and textured bite – the full tasting experience! Crimson Star's combination of exciting flavor, speedy maturity and excellent yield potential make this a top-notch product perfect for the premium branded red grape market.

- Strong vigor
- High yield potential
- Excellent flavor with high Brix



NEW



## STM15400

### INDETERMINATE GRAPE

STM15400 is an indeterminate grape that has a beautiful and rich orange color, with firm fruit and high Brix. The plants have medium vigor, generative fruiting habit, and show best production potential when paired with a high vigor rootstock for long cycle production.

- Rich orange color
- Loose pick type
- Well suited for medley packs

## Sweet Million

### INDETERMINATE CHERRY

Sweet Million is an early maturing, round cherry tomato with an average weight of 10 to 15 grams. Compared with other varieties of similar habit and sweetness, it is less likely to crack and has an improved balanced flavor. It is easy to grow, has strong vigor and produces high yields of firm fruit with an average shelf life. It is well suited for home garden or roadside and offers superb “classic cherry tomato” flavor.

- Sweet and very flavorful fruit
- High yield potential



## Lemonstar

### INDETERMINATE GRAPE

Lemonstar is a new yellow grape with a perfectly balanced flavor profile contributing to a pleasant snacking experience. This variety is designed for high-tech environments having GSPP seed as standard issue. Average fruit size throughout the season varies between 10-12 grams.

- Vibrant yellow color
- Balanced sweet flavor
- Popular in medley packs

## Sweet Treats

### INDETERMINATE CHERRY

Sweet Treats is a unique large-fruited pink cherry tomato with a delicious flavor. The smooth globe-shaped fruit have a beautiful deep pink tone and a rich flavor with great texture. Sweet Treats offers great cracking resistance. The fruit weight is approximately 20 to 30 grams. The plants are strong and vigorous with high yield potential and a very good disease resistance. Sweet Treats is ideal for home garden, roadside and specialized retail.

- High yield potential
- Excellent flavored pink tomatoes



## STM2255

### DETERMINATE SALAD

STM2255 is a very versatile and adaptable determinate salad variety with high yield potential and excellent vine-ripe flavor. Fruit are an attractive red color, firm and have a good shelf-life. The plants are tall, have mid cover and benefit from pruning. STM2255 is appreciated for its wide adaptability across multiple slots and regions with a premier vine-ripe quality

- Great vine-ripe flavor
- Very good fruit size and yield potential
- Widely adapted across multiple regions and seasonal slots



## Sweet Gold

### INDETERMINATE CHERRY

Sweet Gold is a very early, indeterminate yellow cherry tomato with good flavor. The plants are high yielding and very vigorous — producing single and double clusters. The fruit are small and weigh around 10 to 15 grams, have bright yellow flesh and a very attractive general appearance. Sweet Gold potential for both home garden and commercial growers.

- Excellent yield potential
- Full flavored, small yellow fruit
- Good companion to Sweet Million



## Red Snapper

### DETERMINATE SALAD

Red Snapper is an adaptable determinate salad variety used in multiple production slots. Fruit are an attractive red color, firm and have a good shelf-life. It is suited for both mature green and vine-ripe markets. The plants are medium tall, have mid cover and benefit from pruning. Red Snapper is appreciated for its extra large fruit size and adaptability.

- Extra large fruit
- High yield potential
- Widely adapted across multiple regions

NEW

## Firebird

### DETERMINATE SALAD

Firebird is well adapted, high-yielding, and has a robust resistance package for the entire eastern US and potential application in the west. The plant is well-balanced for easy management and harvesting, and is suitable for most planting slots. Fruit size is XL/L and with very nice quality that can be used for dual purposes (mature green, vine-ripe).

- Excellent fruit quality
- High marketable yield
- Widely adapted and easy to manage



## Camaro

### DETERMINATE SALAD

Camaro is early maturing with extra-large and firm, globe shaped fruit, on mid-compact determinate plants. Setting and size is very good through the plant with final yield potential being high. Due to the plant habit, pruning is either unnecessary or should be limited. Camaro is a good choice hot set slots on the US east coast.

- Very good performance in hot set slots
- Bacterial spot – field performance is good
- Heavy set balanced throughout plant



## Grand Marshall

### DETERMINATE SALAD

Grand Marshall is a vigorous hot set variety with large and extra-large firm, smooth fruit with a deep oblate shape, on medium strong to strong determinate plants. Pruning is beneficial and at a low to medium level. It is a consistent performer under warm and wet conditions, often when bacterial pressure is a challenge to the canopy.

- Firm and good quality
- Strong plant with good balance
- Advantage of IR: TYLCV



## Thunderbird

### DETERMINATE SALAD

Thunderbird is a vigorous hot set variety with good performance under warm and wet conditions. Yield potential is high on medium strong and tall easy to manage plants. Pruning is beneficial and at a low to medium level. The extra-large, very firm, good quality fruit have a deep red color and it is suited for either vine-ripe or mature green gassing.

- Extra-large firm fruit
- Balanced and generative
- Good hot set performance

## Rambler

### DETERMINATE SALAD

Rambler is a high quality determinate salad variety with high yield potential and extra-large size. Fruit are an attractive red, color up well, very firm, smooth shouldered and suited for both mature green and vine ripe markets. The plants are strong, medium compact and have good cover. It is widely adapted and can be produced using ground staking or high tunnel culture.

- Attractive smooth fruit
- Very good fruit size and yield potential
- Widely adapted - multiple regions / slots



## Roadster

### DETERMINATE SALAD

Roadster is a high quality determinate salad variety featuring a combination of early maturity and extra-large size. Fruit are an attractive red, very firm and smooth shouldered with a superior flavor. Plants require little to no pruning, are medium tall, have a concentrated set. Roadster is quickly gaining a reputation for exceptional taste and rich red color.

- Widely adapted
- High yield potential
- Extra-large fruit size with great flavor



## Escudero

### DETERMINATE SALADETTE

Escudero is a high-yielding, vigorous and tall determinate saladette with an extensive disease resistance package. Fruit are very firm, large and extra large. Can be sensitive to an aggressive fertilization and irrigation program.

- High vigor
- High setting
- Strong disease resistance package





## Inca

### DETERMINATE SALADETTE

Inca is a blocky, elongated-shaped hybrid with large and extra-large fruit combined with early maturity. Fruit is deep red, firm, and has a good shelf-life. The plants are medium compact, have mid cover and, although concentrated, can set more continuously than other types in this class. Inca is highly adaptable and can be used in multiple slots and regions across the eastern US.

- Early maturity
- Concentrated setting
- High yield of L and XL fruit



## Kuzco

### DETERMINATE SALADETTE

Kuzco is a high-yielding, well-adapted, determinate saladette that can offer market-leading earliness, providing speed to the market, especially under cooler setting conditions. Kuzco's resistance package offers the grower protection against both fusarium race 3 and tomato spotted wilt virus, which has the potential to increase crop security for the duration of production.

- Very early maturity
- Concentrated setting
- Highly productive



## Daytona

### DETERMINATE SALADETTE

Daytona is a widely adapted variety with excellent yield potential and quality. Productive medium compact plants produce smooth extra-large fruit, with good color, firmness and shelf life. Daytona is similar to Mariana with the addition of IR: TYLCV.

- Widely adaptable
- Good color and firmness
- Productive medium compact plants

## Morazan

### DETERMINATE SALADETTE

Morazan is a classic elongated shaped variety with high yield potential and large fruit size. Fruit are an attractive red color, very firm and thick walls. The plants are medium tall, have good cover and is best suited for staked culture and high tunnel production. Yield potential and size are key features.

- Classic elongated shape
- High yield potential
- Firm and good quality

NEW



## Mariana

### DETERMINATE SALADETTE

Mariana is a reliable, versatile variety with great size potential and quality, performing well on the ground or staked. The plants are strong, medium compact and produce high yields of smooth extra-large and large, high quality fruit with very good uniformity, firmness and shelf life.

- Widely adapted with XL fruit
- Suited for mature green and vine ripe
- Good performance under hot set conditions



## Shelby

### DETERMINATE SALADETTE

Shelby is a classic elongated shaped saladette with high yield potential and good vine-ripe flavor. Fruit are an attractive red color, very firm, have low gel and a good shelf-life. The plants are medium tall, have strong cover and benefit from pruning. Shelby is used in multiple slots and regions across the eastern US.

- High yield potential
- Strong disease package
- Multifunctional: fresh, salsa, cooking, canning, etc.



## Supremo

### DETERMINATE SALADETTE

Supremo is a dual-purpose performer — maturing quickly even in hot summer weather. The extra-large, tasty, blocky fruit are wonderful fresh and easy to peel for sauce, salsa or canning. This productive hybrid sets loads of 5-6 ounce fruit on compact, determinate, disease-resistant plants. Plants have a concentrated maturity convenient for cooking. The fruits have nice flavor, are firm, and turn bright red at maturity.

- Sets and matures well in hot weather
- Very large fruit
- Concentrated set useful for cooking and preserving





## RuBee Prize

### INDETERMINATE SALAD

RuBee Prize is extra large, early maturing, with great flavor. The fruit are flattened globe in shape, firm, have a light green shoulder and have a deep red color at maturity. The compact plant has short internodes, is open with mid vigor and is easy to manage. Key features are the early maturity, great flavor and extra-large sizes.

- Extra large fruit
- Early with deep red color
- Classy beef steak type with great flavor



## RuBee Dawn

### INDETERMINATE SALAD

RuBee Dawn is very early maturing, has large fruit and great flavor. Fruit are firm and smooth, have a globe shape and a light green shoulder maturing to a deep red color. The compact indeterminate plant has short internodes, is open with mid vigor and is well suited for staked open field and high-tunnel.

- Very early
- Great flavor
- Grower friendly



## RuBee Plus

### INDETERMINATE SALAD

RuBee Plus is high yielding, large fruited with good quality and flavor. The fruit are flattened globe to globe in shape, firm, have a light green shoulder and have a deep red color at maturity with great slicing qualities. The compact plant has short internodes, is open with mid vigor.

- Early
- Great flavor
- Classy slicer type



## RuBee Goddess

### INDETERMINATE SALAD

RuBee Goddess has great quality large fruit, with good flavor on a productive plant with strong general disease resistance including late blight. The fruit are smooth, globe in shape, firm and have a light green shoulder and mature to a deep red color. The mid-compact plants have good cover and it is widely adapted.

- High yield of classy fruit
- Includes resistance to late blight
- Early with strong disease package



NEW



## Aramis

### INDETERMINATE SALADETTE

Aramis is vigorous and open indeterminate saladette with a strong disease resistance package and ability for long cycle production. Fruit are very firm, and well suited for the export and domestic markets. Best suited for low and mid-tech production.

- Easy to manage
- Wide adaptability
- Performs well through cooler production slots

NEW



## Mosquetero

### INDETERMINATE SALADETTE

Mosquetero is an adaptable, vigorous and high-yielding, indeterminate saladette with an extensive disease resistance package. Fruit are high quality, very firm, and well suited for the export market. Best suited for low and mid-tech production.

- Easy to manage
- High marketable yield
- Strong disease resistance package

NEW



## Madero

### INDETERMINATE SALADETTE

Madero is a widely adapted indeterminate saladette, well suited for short and mid cycle production. Fruit are attractive, uniform, very firm and of high quality. Best suited for low and mid-tech production.

- Labor friendly
- Uniform sizing
- Premium quality fruit



## Villa

### INDETERMINATE SALADETTE

Villa is an extra-large fruited saladette with early maturity and high fruit quality. Fruit are blocky oval in shape, uniform, very firm with good color. The plant has short, compact internodes, mid vigor and is well suited for open field, low and mid-tech protected culture for short to mid cycle production.

- Early maturity
- XL fruit with good quality
- Widely adapted and easy to manage



## Portos

### INDETERMINATE SALADETTE

Portos is a large to extra-large saladette with good vigor and production potential. Fruit are blocky oval in shape, firm and have a bright red color at maturity. The productive plants have mid short internodes, are well suited for low and mid-tech protected culture and adapted for production in multiple regions.

- Wide adaptability
- High yield potential
- Easy to manage plant



## Zapata

### INDETERMINATE SALADETTE

Zapata is a high-yielding, large fruited and vigorous indeterminate saladette. Fruit are very firm, extra large and smooth. Pairs well with a high vigor rootstock for long cycle production. Best suited for low and mid-tech production.

- High vigor
- Extra large fruit
- Suited for long cycle production



## Synergy

### ROOTSTOCK

Synergy is a versatile, generative and well balanced rootstock with medium-strong vigor and is well suited to balance higher vigor scions in the early part of the production cycle. It is appreciated for medium and short production cycles and is well suited for many specialty type tomatoes.

- Versatile rootstock
- Advantages of rootstock vigor but easier to manage
- Widely adapted across multiple regions and seasonal slots



## Balance

### ROOTSTOCK

Balance is a rootstock with medium-strong vigor and can be easier to manage plant balance from the early part of the production cycle. It is well suited for use in soil or hydroponic systems for medium and long cycles. Balance works well with vigorous scions that are inclined to loose quality due to challenges to balance from the beginning of the growing cycle.

- Flexible and widely adapted
- Advantages of rootstock vigor but easier to manage
- Strong disease package



## Ficus

### ROOTSTOCK

Ficus is a high vigor rootstock, with a strong root system and is well suited to pair with generative scions. Ideal for long cycle production and can be used in both substrate or soil culture.

- Flexible rootstock
- Very good vigor and yield potential
- Strong disease package



## Fortius

### ROOTSTOCK

Fortius has a strong disease resistance package and is suited for short to mid production cycles. This specialized multipurpose rootstock is intended for areas that can have challenges with Fol: 1-3, Bacterial Wilt and Bacterial canker. It has mid vigor with a relatively thick stem making grafting easier and more efficient.

- Short cycle
- Easy to graft
- Unique disease resistance combination

VARIETY	TYPE	RELATIVE MATURITY*	FRUIT CHARACTERISTICS	DISEASE RESISTANCE	USES & REMARKS
<b>Cherry / Grape</b>					
<b>Diamond Crush</b> <i>New!</i>	Determinate Grape	Mid	Oval / Deep red	HR: Fol: 1-3 / For / Pf: A-E / ToMV: 0-1 / Va: 1 Vd: 1 \ IR: Sbl / Sl / Ss / TSWV / TYLCV	Very good general and specific disease package (Fol: 1-3, TYLCV, TSWV).
<b>Sweet Gold</b>	Indeterminate Cherry	Very early	Cherry round / Yellow	HR: Fol: 1 / ToMV: 0, 1	Great yields of tasty small yellow fruit.
<b>Sweet Million</b>	Indeterminate Cherry	Early	Cherry round / Red	HR: Fol: 1 / ToMV: 0, 1	Classic cherry with sweet, flavorful fruit.
<b>Sweet Treats</b>	Indeterminate Cherry	Early	Globe, cherry round / Dark pink	HR: Fol: 1, 2 / Pf: A-E / ToMV: 0, 1 IR: For / Sbl / Sl / Ss	High yield potential. Excellent flavored pink tomatoes.
<b>Ruby Crush</b>	Determinate Grape	Early	Oval / Deep red	HR: Fol: 1, 2 / For / ToMV: 0-2 IR: Sbl / Sl / Ss	Setting and size is very good through the plant with final yield potential being high.
<b>Amai</b>	Indeterminate Grape	Early	Elongated, oval / Dark red	HR: Fol: 1 / Pf: A-E / ToMV: 0-2 IR: Ma / Mi / Mj / Sbl / Sl / Ss	Very uniform shape and size with excellent color.
<b>Conde</b>	Indeterminate Grape	Early	Elongated, oval / Bright red	HR: Fol: 1-3 / For / Pf: A-E / ToMV: 0-2 / Va: 1 / Vd: 1 \ IR: TSWV / TYLCV	Very good yield potential and strong disease resistance.
<b>Crimson Star</b>	Indeterminate Grape	Early	Elongated, oval / Dark red	HR: Fol: 1 / Pf: A-E / ToMV: 0, 1 IR: Ma / Mi / Mj	High yield and flavor.
<b>Gold Spark</b>	Indeterminate Grape	Mid-late	Barrel, blocky, cylindrical / Canary yellow	HR: Pf: A-E / ToMV: 0-2 \ IR: Sbl / Sl / Ss	It can be used in outdoor environments or low-tech hydroponic applications.
<b>Lemonstar</b>	Indeterminate Grape	Early	Elongated, cylindrical / Light yellow	HR: Fol: 1 / Pf: A-E / ToMV: 0-2 IR: Sbl / Sl / Ss	Light creamy yellow color and sweet flavor.
<b>Murastar</b> <i>New!</i>	Indeterminate Grape	Early	Elongated, slight taper / Purple	HR: Aal / Fol: 1 / Pf: A-E / ToMV: 0-2 IR: Sbl / Sl / Ss	Unique purple color and excellent flavor.
<b>STM15400</b> <i>New!</i>	Indeterminate Grape	Early	Elongated, oval / Rich orange	HR: Fol: 1 / ToMV: 0-2	Attractive rich orange color and good flavor.
<b>Sweet Hearts</b>	Indeterminate Grape	Early	Oval, elongated / Dark red	HR: Fol: 1 / Pf: A-E / ToMV: 0-2 IR: Sbl / Sl / Ss	Can be used in both indoor & outdoor productions.
<b>Round / Salad</b>					
<b>Camaro</b>	Determinate Salad	Early	Globe / Red	HR: Aal / Fol: 1-3 / Va: 1 / Vd: 1 IR: Sbl / Sl / Ss / TYLCV	Early high yielding hot set with limited to no pruning required.
<b>Firebird</b> <i>New!</i>	Determinate Salad	Mid	Deep oblate, globe / Deep red	HR: Aal / Fol: 1-3 / Va: 1 / Vd: 1 \ IR: Sbl / Sl / Ss / TSWV / TYLCV	Size, quality, yield potential and adaptability.
<b>Grand Marshall</b>	Determinate Salad	Mid-early	Deep oblate / Red	HR: Aal / Fol: 1, 2 / Va: 1 / Vd: 1 \ IR: Sbl / Sl / Ss / TYLCV	Early maturity for a main season hot set type.
<b>Rambler</b>	Determinate Salad	Mid	Deep oblate, globe / Deep red	HR: Aal / Fol: 1-3 / For / Va: 1 / Vd: 1 IR: Sbl / Sl / Ss / TSWV	Size and quality on a strong and compact plant.
<b>Red Snapper</b>	Determinate Salad	Mid-late	Deep oblate, globe / Deep red	HR: Aal / Fol: 1, 2 / Va: 1 / Vd: 1 \ IR: Sbl / Sl / Ss / TSWV / TYLCV	Versatile high yielding with extra-large size.
<b>Roadster</b>	Determinate Salad	Early	Deep oblate / Scarlet red	HR: Aal / Fol: 1-3 / For / Va: 1 / Vd: 1 IR: Ss / Sbl / Sl / ToBRFV / TSWV	Roadster is quickly gaining a reputation for exceptional taste and rich red color.
<b>STM2255</b>	Determinate Salad	Mid-early	Deep oblate, globe / Deep red	HR: Aal / Fol: 1, 2 / For / Va: 1 / Vd: 1 IR: Sbl / Sl / Ss / TSWV / TYLCV	Widely adapted, high yielding premier vine-ripe standard.
<b>Thunderbird</b>	Determinate Salad	Mid	Deep oblate, globe / Deep red	HR: Aal / Fol: 1-3 / For / Va: 1 / Vd: 1 IR: Sbl / Sl / Ss / TYLCV	Extra-large quality hot set variety.
<b>Round / Salad</b>					
<b>RuBee Dawn</b>	Indeterminate Salad	Very early	Globe / Red	HR: Aal / Fol: 1, 2 / For / Pf: A-E / ToMV: 0-2 / Va: 1 / Vd: 1 \ IR: Ma / Mi / Mj / Sbl / Sl / Ss	Very early maturity with good size and flavor.
<b>RuBee Goddess</b>	Indeterminate Salad	Early, mid-early	Globe / Red	HR: Aal / Fol: 1, 2 / For / Pf: A-E / ToMV: 0, 1 / Va: 1 / Vd: 1 \ IR: Ma / Mi / Mj / Pi	High quality and strong disease package including late blight.
<b>RuBee Plus</b>	Indeterminate Salad	Early, mid-early	Flattened globe, globe / Red	HR: Aal / Fol: 1, 2 / For / Pf: A-E / ToMV: 0, 1 / Va: 1 / Vd: 1 \ IR: Ma / Mi / Mj	Smooth slicer type with great flavor.
<b>Rubee Prize</b>	Indeterminate Salad	Early, mid-early	Flattened globe / Red	HR: Aal / Fol: 1, 2 / For / Pf: A-E / ToMV: 0, 1 / Va: 1 / Vd: 1 \ IR: Ma / Mi / Mj	Quality extra-large beefsteak type with delicious flavor.

## AT-A-GLANCE CHART

VARIETY	TYPE	RELATIVE MATURITY*	FRUIT CHARACTERISTICS	DISEASE RESISTANCE	USES & REMARKS
<b>Roma / Saladette</b>					
<b>Daytona</b>	Determinate Saladette	Early	Blocky elongated / Red	HR: Aal / Fol: 1, 2 / Va: 1 / Vd: 1 IR: Ma / Mi / Mj / TYLCV	Well suited for TYLCV pressure slots, great fruit quality.
<b>Escudero</b> <i>New!</i>	Determinate Saladette	Early	Blocky elongated / Red	HR: Fol: 1-3 / For / Pst: 0 / ToMV: 0-2 / Va: 1 / Vd: 1 \\ IR: Ma / Mi / Mj / Sbl / Sl / Ss / TSWV / TYLCV	High vigor, very firm. Nitrogen sensitive.
<b>Fenicio</b>	Determinate Saladette	Mid-late	Blocky elongated / Red	HR: Aal / Fol: 2 / Va: 1 / Vd: 1 IR: TSWV	Large quality fruit. Good performance in wet season.
<b>Inca</b>	Determinate Saladette	Very early	Blocky elongated / Red	HR: Aal / Fol: 1-3 / Pst: 0 / Va: 1 / Vd: 1 IR: Ma / Mi / Mj / TSWV	Early with concentrated set.
<b>Kuzco</b>	Determinate Saladette	Very early	Blocky elongated / Red	HR: Aal / Fol: 1-3 / Pst: 0 / ToANV / Va: 1 / Vd: 1 \\ IR: Sbl / Sl / Ss / TSWV	Very early, concentrated. Suited for cool conditions.
<b>Mariana</b>	Determinate Saladette	Mid	Blocky elongated / Red	HR: Aal / Fol: 1, 2 / Va: 1 / Vd: 1 IR: Ma / Mi / Mj / Sbl / Sl / Ss	Widely adapted with large quality fruit.
<b>Monica</b>	Determinate Saladette	Early	Blocky elongated / Red	HR: Aal / Fol: 1, 2 / Pst: 0 / Va: 1 / Vd: 1 IR: Sbl / Sl / Ss	Early, extra large, smooth and good flavor.
<b>Morazan</b>	Determinate Saladette	Mid	Elongated / Red	HR: Aal / Fol: 1-3 / Pst: 0 / ToMV: 0-2 / Va: 1 / Vd: 1	Classic elongated shape on a strong vigorous plant.
<b>Shelby</b>	Determinate Saladette	Mid	Elongated / Dark red	HR: Aal / Fol: 1, 2 / For / Pst: 0 / Va: 1 / Vd: 1 \\ IR: TSWV / TYLCV	Multifunctional with a strong resistance package and Classic elongated shape.
<b>Roma / Saladette</b>					
<b>Aramis</b> <i>New!</i>	Indeterminate Saladette	Mid early	Elongated blocky / Bright red	HR: Aal / Fol: 1-3 / Lt / ToMV: 0-2 / Va: 1 / Vd: 1 \\ IR: TSWV / TYLCV	Widely adapted, good vigor and strong disease package.
<b>Mosquetero</b> <i>New!</i>	Indeterminate Saladette	Mid early	Elongated blocky / Bright red	HR: Aal / Fol: 1-3 / Lt / ToANV / ToMV: 0-2 / Va: 1 / Vd: 1 \\ IR: TSWV / TYLCV	Export quality, good vigor and strong disease package.
<b>Madero</b> <i>New!</i>	Indeterminate Saladette	Mid	Elongated oval / Bright red	HR: Aal / Fol: 1, 2 / Lt / ToMV: 0-2 / Va: 1 / Vd: 1 \\ IR: Ma / Mi / Mj / TSWV	Uniform clusters, suited for short and mid cycles.
<b>Portos</b>	Indeterminate Saladette	Mid	Blocky oval / Bright red	HR: Aal / Fol: 1-3 / Lt / ToMV: 0-2 / Va: 1 / Vd: 1 \\ IR: Ma / Mi / Mj / TSWV	Widely adapted, good vigor and strong disease package.
<b>Villa</b>	Indeterminate Saladette	Early	Blocky oval / Bright red	HR: Aal / Fol: 1-3 / Va: 1 / Vd: 1 IR: TSWV	Early, extra-large, high quality and widely adapted.
<b>Zapata</b> <i>New!</i>	Indeterminate Saladette	Mid late	Elongated oval / Bright red	HR: Aal / Fol: 1, 2 / Lt / Pf: A-E / ToMV: 0-2 / Va: 1 / Vd: 1 \\ IR: TSWV / TYLCV	Extra large, smooth, suited for mid and long cycles.
<b>Rootstock</b>					
<b>Balance</b>	Rootstock	-	Mid-strong vigor	HR: Fol: 1-3 / For / Pf: A-E / ToMV: 0-2 / Va: 1 / Vd: 1 \\ IR: Ffa / Ma / Mi / Mj / PI	It is well suited for use in soil or hydroponic systems for medium and long cycles.
<b>Ficus</b> <i>New!</i>	Rootstock	-	Strong vigor	HR: Fol: 1-3 / For / ToMV: 0-2 / Va: 1 / Vd: 1 \\ IR: Ma / Mi / Mj / PI	Suited for use in soil or hydroponic systems for long cycles.
<b>Fortius</b>	Rootstock	-	Mid vigor	HR: Fol: 1-3 / For / ToMV: 0-2 / Va: 1 / Vd: 1 \\ IR: Cmm* / Ma / Mi / Mj / PI / Rs*	Specialized rootstock for specific disease problems can occur. Short and medium cycles.
<b>Synergy</b>	Rootstock	-	Mid-strong vigor	HR: Fol: 1-3 / For / Pf: A-E / ToMV: 0-2 / Va: 1 / Vd: 1 \\ IR: Ma / Mi / Mj / PI	It is generative and well suited for specialty type tomatoes.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance. Disease code: Aal - Alternaria stem canker, Cmm - Bacterial canker, Fol - Fusarium wilt, For - Fusarium crown and root rot, Ffa - Fusarium root rot, Lt - Powdery mildew, Ma / Mi / Mj - Root knot, Pf (Ff) - Leaf mold, Pst - Bacterial speck, Pi - Late Blight, PI - Corky root, Rs - bacterial wilt, Sbl / Sl / Ss - Gray leaf spot, ToMV - Tomato mosaic, ToANV - Tomato apex necrosis virus, ToBRFV - Tomato brown rugose fruit virus, TSWV - Tomato spotted wilt, TYLCV - Tomato yellow leaf curl, Vd - Verticillium wilt.

\*\* - Fruit size. S - Small, M - Medium, L - Large, XL - Extra large, J - Jumbo



## Sierra Nevada

### CRIMSON SWEET TRIPLOID



Sierra Nevada is a member of our new era of exciting watermelon genetics! It can be best characterized by features including an attractive darker Crimson Sweet rind pattern, uniform, blocky fruit and vigorous vines. Benefits of this variety include excellent yield potential, extended shipping and field holding potential and firm flesh, making it a great choice for the fresh-cut market.

- Excellent yield potential
- Darker Crimson Sweet, attractive rind pattern



NEW



## Safari

### ALL SWEET, POLLENIZER

Safari is a sweet diploid with high tolerance to internal cracking. Yielding the maximum commercial fruits, it leaves little waste and has high field holding for a flexible harvest. Safari's strong rind makes it an ideal variety for national and international shipping.

- High tolerance to internal cracking
- Intense red flesh
- Sweet flavor



## Miramonte

### CRIMSON SWEET TRIPLOID

Miramonte is the newest member of our new era of exciting watermelon genetics! With an attractive Crimson Sweet rind pattern and very dark green stripes, this watermelon holds a uniform fruit size with a solid blocky shape on vigorous vines. This variety has shown excellent yield potential for growers. Miramonte also features numerous consumer benefits including deep red, firm flesh, small pip size and excellent flavor.

- Excellent yield potential
- Darker Crimson Sweet attractive rind pattern
- Uniform fruit size with blocky shape
- Vigorous Vine



## El Capitan

### CRIMSON SWEET TRIPLOID

El Capitan is a new triploid watermelon with an attractive darker Crimson Sweet rind pattern. This variety has shown excellent yield potential for growers as well as extended shipping and field holding ability. Uniform, blocky-shaped fruit on vigorous vines also feature numerous consumer benefits including deep red, firm flesh, small pip size and excellent flavor.

- Excellent yield potential
- Deep red flesh with very small pip size



## Sierra Madre

### CRIMSON SWEET TRIPLOID

Sierra Madre is part of Sakata's new collection of exceptional watermelon genetics! Sierra Madre displays uniform, blocky fruit on vigorous vines. Fruit have a desirable darker Crimson Sweet rind pattern and internally show deep red, firm flesh with small pips. Benefits of this variety include extended shipping and field holding ability, excellent yield potential and fresh-cut market potential.

- Excellent yield potential
- Very firm flesh with good potential for the fresh-cut market

## SSX8585

### ALLSWEET DIPLOID

SSX8585 is an Allsweet type with bright red flesh. It performs well in areas where size is needed to fit the market needs. The vines are strong and vigorous providing excellent protection for the 18 to 22 lb fruit. Excellent early flowering pollenizer.

- Allsweet type
- High yields
- Black seeded
- Early pollen source



## Eclipse

### SUGAR BABY

Eclipse is a seedless Sugar Baby type weighing 10 to 12 lbs. Fruits are round, with a narrow stripe on a black background. It is early maturing, with excellent rind demarcation and good red flesh color. Eclipse is very flavorful, as well.

- High yielding Sugar Baby type; 10–12 lbs.
- Early maturity, at around 80 days after transplant
- Excellent, unique flavor



## Preakness

### CRIMSON SWEET TRIPLOID / MINI

Preakness is a new mini triploid watermelon with an attractive, darker Crimson Sweet rind pattern. This variety has excellent uniform fruit set of 8 and 6 count fruit. The fruit are uniform round oval fruit. Preakness also features numerous consumer benefits including dark red flesh, small pip size and excellent flavor.

- Excellent yield potential
- Darker crimson rind pattern
- Dark red flesh with small pip size



## Unbridled

### CRIMSON SWEET TRIPLOID

Unbridled is a delicious and high-yielding watermelon variety with an 85-day maturity and high yield potential. Unbridled boasts very strong vines and bears fruit with crisp, firm flesh. Extra tasty, too!

- Crisp, firm, deep-red flesh
- 36/45-count







## Ace

### POLLENIZER

This variety was developed as a non-harvested pollenizer for the production of seedless watermelon. It produces long, thin and very sturdy vines with small leaves. Ace blooms early and profusely, providing an abundance of pollen over a more extended period, as compared to competitor pollenizers.

- Non-harvestable pollenizer
- For use with seedless production



## Wild Card Plus

### POLLENIZER

This variety has an early and extended flowering period that ensures early pollen availability when the hybrid starts flowering. Long, thin internodes radially-extend pollen to wherever a female flower is located. Extended flowering period that goes well beyond the hybrid.

- Small, explosive fruits allow for easy triploid harvest
- Tiger-stripped rind pattern
- Excellent pollen quality for maximum yield



## Wild Card

### POLLENIZER

Wild Card is a non-harvested pollenizer for the production of seedless watermelon. It has early and prolific male flowers to ensure maximum yield potential of triploid hybrids throughout the period of full flowering. Wild Card has long and thin vines which reach out and cover larger areas for better pollination. Small fruits have a tiger-stripped rind pattern which differs from most of the commercial triploid hybrids.

- Early pollen source – Non-harvestable
- For use with seedless production
- U.S. Patent Number 9,445,559



## Yellow Buttercup

### JUBILEE TRIPLOID

Well known in the marketplace, Yellow Buttercup is considered one of the top yellow-fleshed varieties. Bright yellow flesh and crisp texture with great eating qualities makes Yellow Buttercup a must for any growing schedule.

- High yields
- Dense flesh
- Highly regarded yellow flesh variety



## Citation

### CRIMSON SWEET TRIPLOID

Citation is an early, high-quality seedless watermelon and is a true 60 count. It sets well in cool conditions with a high number of quality fruit per plant. Because of its tremendous set potential, Citation can yield quantities equivalent to 45-counts! Citation offers beautiful demarcation and deep red, dense flesh. Citation offers good holding ability and shelf life and is widely adapted.

- Satisfy emerging consumer trends for a family-sized melon and make money!
- For optimum results, use an early pollenizer



## Routpower

### ROOTSTOCK

Routpower is an F1. hybrid squash (*Cucurbita maxima* x *Cucurbita Moschata*) used as a cucumber and watermelon rootstock. This rootstock has a high germination rate with quick and uniform emergence. Regardless of the grafting method, it provides excellent compatibility at a high rate of engraftment. Routpower has a strong root system in the field, providing high resistance to Fusarium wilt, and a stronger plant in stressed conditions, preserving the taste qualities of the fruit.

- Interspecies hybrid Maxima Moschata rootstock for Watermelons, Melons, and Cucumbers.
- Highly resistant to Fusarium on Watermelon FON 0, 1, 2; Cucumber FOC 0, 1, 2; and Melon FOM 0, 1, 2

## AT-A-GLANCE CHART

VARIETY	TYPE	MATURITY FROM TRANSPLANT	SIZE / SHAPE	RIND CHARACTERISTICS	INTERIOR COLOR	DISEASE RESISTANCE	USES & REMARKS
<b>Safari</b>	Allsweet / Pollenizer	Early	25-30 lb / Blocky elongated	Dark green background with light green stripes	Deep red	IR: Co: 1 / Fon: 1	Safari is a sweet diploid with high tolerance to internal cracking.
<b>SSX8585</b>	Allsweet / Pollenizer	Mid	18-22 lb / Long blocky	Dark green background with light green stripes	Deep red	IR: Co: 1 / Fon: 1	High yields, black seeded.
<b>Citation</b>	Crimson Sweet triploid	Early	12-14 lb / Round oval	Dark green background with green stripes	Dark red		A true 60-count that sets well in cool conditions.
<b>El Capitan</b>	Crimson Sweet triploid	Early-mid	16-20 lb / Blocky oval	Wide, very dark green stripes on medium green background	Deep red	HR: Fon: 0, 1	Excellent yield potential. Deep red flesh with very small pip size.
<b>Miramonte</b>	Crimson Sweet triploid	Mid-late	16-20 lb / Blocky oval	Wide, very dark green stripes on medium green background	Deep red	HR: Fon: 0, 1	Miramonte also features numerous consumer benefits
<b>Sierra Madre</b>	Crimson Sweet triploid	Mid	18-24 lb / Blocky oval	Wide, very dark green stripes on medium green background	Deep red	HR: Fon: 0, 1	Very firm flesh with good potential for the fresh-cut market. Excellent yield potential.
<b>Sierra Nevada</b>	Crimson Sweet triploid	Mid	17-21 lb / Blocky oval	Wide, very dark green stripes on medium green background	Deep red	HR: Fon: 0, 1	Benefits of this variety include excellent yield potential, extended shipping and field holding potential and firm flesh.
<b>Unbridled</b>	Crimson Sweet triploid	Mid	18-22 lb / Round	Medium green background with dark green stripes	Bright red		Unbridled boasts very strong vines and bears fruit with crisp, firm flesh. Extra tasty, too!
<b>Belmont</b>	Crimson Sweet triploid, mini	Mid	6-10 lb / Round	Medium green background with dark green stripes	Deep red	IR: Co: 1 / Fon: 1	Belmont features an extremely strong and vigorous vine with excellent yield potential.
<b>Preakness</b>	Crimson Sweet triploid, mini	Early-mid	8's, 6's / Round oval	Wide dark green stripes on medium green background	Dark red		New mini triploid watermelon with an attractive, darker Crimson Sweet rind pattern. Excellent yield potential.
<b>Yellow Buttercup</b>	Jubilee triploid	Mid-late	14-16 lb / Round oval	Dark green background with green stripes	Bright yellow		A highly regarded yellow flesh variety. High yields. Dense flesh.
<b>Ace</b>	Pollenizer	–	Round oval	Light green with medium green stripes	Red		Non-harvestable pollenizer for use with seedless production.
<b>Wild Card Plus</b>	Pollenizer	–	Round oval	Light green background with medium green veins	Yellow	IR: Co: 1 / Fon: 1	Very early flowers to ensure pollen availability when the hybrid starts flowering.
<b>Wild Card</b>	Pollenizer	–	Round oval	Light green background with medium green veins	Yellow		Wild Card is a non-harvested pollenizer for the production of seedless watermelon.
<b>Eclipse</b>	Sugar Baby triploid	Mid	10-12 lb / Round	Black green, smooth	Red		High yielding Sugar Baby type; 10–12 lbs. Excellent, unique flavor.
<b>Rootstock</b>	<b>Type</b>	<b>Grafting</b>		<b>Uniformity</b>	<b>Uses &amp; Remarks</b>		
<b>Routpower</b>	Rootstock	High vigor rootstock		Excellent	Routpower has a strong root system in the field, providing high resistance to Fusarium wilt, and a stronger plant in stressed conditions, preserving the taste qualities of the fruit.		

Disease terminology: HR = High Resistance, IR = Intermediate Resistance. Disease code: Co - Anthracnose, Fon - Fusarium wilt.

\* Days to Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.

## SAKATA SEED AMERICA DEFINITIONS OF TERMS USED TO DESCRIBE REACTIONS TO PATHOGENS, PESTS AND STRESSES

The terms used in this catalog to describe the reactions of varieties to various diseases, pests, or stresses are consistent with those developed and used in the sciences of plant pathology and plant breeding, and by the International Seed Federation.

**IMMUNITY:** Not subject to attack or infection by a specified pest or pathogen.

**RESISTANCE:** Resistance is the ability of a plant variety to restrict the growth and development of a specified pest or pathogen and/or the damage they cause when compared to susceptible plant varieties under similar environmental conditions and pest or pathogen pressure. Resistant varieties may exhibit disease symptoms or damage under heavy pathogen or pest pressure.

### TWO LEVELS OF RESISTANCE ARE DEFINED:

**HIGH RESISTANCE (HR):** Plant varieties that highly restrict the growth and development of the specified pest or pathogen under normal pest or pathogen pressure when compared to susceptible varieties. These plant varieties may, however, exhibit some symptoms or damage under heavy pathogen or pest pressure.

**INTERMEDIATE RESISTANCE (IR):** Plant varieties that restrict the growth and development of the specified pest or pathogen, but may exhibit a greater range of symptoms or damage compared to “highly resistant” varieties. Intermediately resistant plant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and/or pathogen or pest pressure.

**TOLERANCE(T):** The ability of a plant variety to endure an abiotic stress without serious consequences for growth, appearance and yield.

**SUSCEPTIBILITY:** The inability of a plant variety to restrict the growth and development of a specified pest or pathogen.

Resistance claimed in a plant variety is limited to the specified biotype, pathotype, race or strain of the pathogen or pest. If no biotypes, pathotypes, races or strains are specified in the resistance claim for the variety, it is because no generally accepted classification of the cited pathogen or pest by biotype, pathotype, race or strain exists. Statements on the reaction of varieties to a specific pathogen, pest or stress are based on evaluations made under defined conditions and are believed to be reliable. However, it is important to understand that these reactions can be affected in nature by environmental, biological (e.g. new pathogen races or pest biotypes which overcome resistance), or other uncontrollable factors that may alter expected performance, and thus are not covered by the original resistance claim.

### LIMITATION OF LIABILITY AND REMEDY

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**NOTE:** Maturity date unless specified for a particular location provides a range of earliness. These maturity dates may be different under your specific climate and/or growing conditions.

**DISCLAIMER:** Any representations and other information are based on our observations and/or information from other sources. Crop performance depends on the interaction between the genetic potential of the seed, its physiological characteristics, the environment, including management, and other uncontrollable factors that may alter expected performance. Triploid hybrid watermelon varieties will on occasion produce white and hard, dark vestigial seed coats and, therefore, are not warranted to be completely “seedless”. Statements concerning the reaction of varieties to a specific pathogen, pest or stress are based on evaluation under defined conditions. These reactions can be affected by changes in environmental and biological factors, especially new pathogen races, pest biotypes or vectors of disease agents. SAKATA GIVES NO WARRANTY, EXPRESS OR IMPLIED, FOR CROP PERFORMANCE RELATIVE TO THE INFORMATION GIVEN; NOR DOES SAKATA ACCEPT ANY LIABILITY FOR ANY LOSS, DIRECT, INDIRECT, OR CONSEQUENTIAL, THAT MAY ARISE FROM ANY CAUSE. Please read all seed package labeling carefully to understand the terms and conditions of sale.



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